

MISSOURI SPECIES AND COMMUNITIES* OF CONSERVATION CONCERN *Checklist*



Photo: Scott Faiman. For species list, see inside cover.

JANUARY 2022

*Terrestrial Natural Communities. Does not include aquatic, geologic, or cave communities.

Species appearing on cover:

Threeridge (*Amblema plicata*), Monkeyface (*Quadrula metanevra*), Deertoe (*Truncilla truncate*), Pistolgrip (*Tritogonia verrucosa*), Pimpleback (*Cyclonaias pustulosa*), Purple Wartyback (*Cyclonaias tuberculata*), Mucket (*Actinonaias ligamentina*), Mapleleaf (*Quadrula quadrula*), Butterfly (*Ellipsaria lineolata*), Plain Pocketbook (*Lampsilis cardium*), Pink Heelsplitter (*Potamilus alatus*), Yellow Sandshell (*Lampsilis teres*), Black Sandshell (*Ligumia recta*) S2, Round Pigtoe (*Pleurobema sintoxia*), Wabash Pigtoe (*Fusconaia flava*), Threehorn Wartyback (*Obliquaria reflexa*)

CONTENTS

| | |
|---|-----------|
| ACKNOWLEDGMENTS | 2 |
| INTRODUCTION | 3 |
| TERMS AND DEFINITIONS | 4 |
| SPECIES CHANGES | 8 |
| TERRESTRIAL NATURAL COMMUNITIES..... | 11 |
| THREATENED AND ENDANGERED SPECIES IN MISSOURI | 15 |
| SPECIES AND STATUSES | |
| LICHENS | 17 |
| LIVERWORTS AND HORNWORTS | 17 |
| MOSSES | 18 |
| FERNS AND FERN ALLIES | 21 |
| FLOWERING PLANTS | 22 |
| FLATWORMS..... | 34 |
| MOLLUSKS | 34 |
| ARACHNIDS..... | 36 |
| CRUSTACEANS | 36 |
| MILLIPEDES..... | 37 |
| INSECTS..... | 38 |
| FISH | 41 |
| AMPHIBIANS | 43 |
| REPTILES..... | 43 |
| BIRDS (See Appendix A for tracking criteria) | 43 |
| MAMMALS..... | 44 |
| REFERENCES..... | 46 |
| FOR MORE INFORMATION (including Webpage and Citation)..... | 50 |
| APPENDIX A: BIRD SPECIES TRACKED IN MONHP AND THEIR CRITERIA FOR EOs | 51 |
| APPENDIX B: MISSOURI BIRD CONSERVATION PLAN FOCAL SPECIES | 53 |
| PLANTS OF CONSERVATION CONCERN REPORTING FORM..... | 54 |
| ANIMALS OF CONSERVATION CONCERN REPORTING FORM..... | 55 |
| TERRESTRIAL NATURAL COMMUNITY REPORTING FORM | 56 |
| AQUATIC NATURAL COMMUNITY REPORTING FORM..... | 57 |

ACKNOWLEDGMENTS

The following individuals contributed to the development of this document: Mike Arduser (Missouri Department of Conservation-MDC-retired), John Atwood (Missouri Botanical Garden-MOBOT), Alan Brant, John Brinda (MOBOT), Jeff Briggler (MDC), Malissa Briggler (MDC), Christopher Brown (Monsanto), Steve Buback (MDC), Dorothy Butler (MDC), Rick Clawson (MDC-retired), Bob DiStefano (MDC), Bill Elliott (MDC-retired), Tony Elliott (MDC), Debby Fantz (MDC-retired), Susan Farrington (MDC), Dennis Figg (MDC-retired), Jane Fitzgerald (Partners In Flight), Matt Gompper (University of Missouri - Columbia), Lonnie Hansen (MDC-retired), Janet Haslerig (MDC), Nels Holmberg (MOBOT), Peggy Horner (Ozark Regional Land Trust), Bob Hrabik (MDC-retired), Vicki Jackson (University of Central Oklahoma), Tom Johnson (MDC-retired), Harold Kerns (MDC-retired), Dave Knuth (MDC), Phil Koenig, Jeff Koppelman (MDC-retired), Doug Ladd (The Nature Conservancy-retired), Mike Leahy (MDC), Bill Mabee (MDC), Ted MacRae (Monsanto), Paul McKenzie (U.S. Fish and Wildlife Service-retired), Stephen McMurray (MDC), Tim Nigh (MDC-retired), Doug Novinger (MDC), William Pflieger (MDC-retired), Barry Poulton (U.S. Geological Survey-retired), Lynn Robbins (Missouri State University-retired), Randy Sarver (Department of Natural Resources), John Scheibe (Southeast Missouri State University), Tim Smith (MDC-retired), Janet Sternburg (MDC), Bill Summers, Richard Thoma (Monsanto-retired), Justin Thomas (NatureCITE), James Trager (MOBOT, Shaw Nature Reserve-retired), Jacob Westhoff (Missouri Cooperative Fish and Wildlife Research Unit), George Yatskievych (UT Austin).

NOTICE: Please submit reports of all sightings of species and natural communities listed in this checklist on the forms provided in the back of this checklist. Special criteria apply to birds and reports should follow the guidelines listed in Appendix A.

The Missouri Bird Plan Focal Species (Appendix B) provides a list of states priority breeding bird species that can be used to guide management actions, goals and objectives. Not all species listed in Appendix B are tracked in the Natural Heritage database.

INTRODUCTION

The Missouri Department of Conservation (MDC) is charged with the protection and management of Missouri's fish, forest, and wildlife resources. In the brief time since the settlement of Missouri, many plants and animals have declined to levels of concern and some have disappeared entirely. The species cataloged in this checklist represent 22 percent of the native vascular plants, 14 percent of the nonvascular plants, 28 percent of the vertebrate animals, and an unknown percentage of the native invertebrate species in Missouri. Together, these animals, plants, and natural communities represent Missouri's biological diversity—a natural heritage worth protecting.

The Department maintains two references relating to the status of listed plants and animals in Missouri: the *Missouri Species and Communities of Conservation Concern Checklist (Checklist)* and the *Wildlife Code of Missouri (Code)*. The *Checklist* is used mainly for planning and communication purposes. All native animal species in the State of Missouri are protected as biological diversity elements unless a method of legal harvest, harm or take is described in the *Code*. All native plant species in the State of Missouri are protected as biological diversity elements only on land owned by the Missouri Department of Conservation. Species listed in the *Code* under 3 CSR 10-4.111 and all federally listed endangered and threatened plants and animals protected by the Endangered Species Act of 1973 (ESA) are protected by the State Endangered Species Law 252.240. Some additional plants and animals in this *Checklist* also appear in the *Code* and are afforded special legal protection.

How to use the checklist

The checklist, developed with the cooperation of specialists throughout the state, is a list of plants, animals, and natural communities that MDC is particularly concerned about due to population declines or apparent vulnerability. The global and state ranks indicate the level of concern for each Element's (i.e., a species or type of natural community) continued existence throughout its range and in Missouri, respectively. Global ranks are assigned by the Natural Heritage/Conservation Data Center personnel and/or NatureServe. State Ranks in Missouri are assigned by the Missouri Natural Heritage Program within the Missouri Department of Conservation.

The Global and State Ranking System methodology was developed The Nature Conservancy and is now maintained by NatureServe, in association with the Network of Natural Heritage Programs and Conservation Data Centers.

The checklist is arranged by broad taxonomic groups (e.g., terrestrial natural communities, flowering plants, insects, fish, and mammals). Within each group, species are arranged alphabetically by their scientific names and terrestrial natural communities by community type. Each Element is identified by its scientific name, common name, state rank, global rank, state status, and federal status.

TERMS AND DEFINITIONS

FEDERAL STATUS

The federal status is derived from the provisions of the Endangered Species Act of 1973, as amended, which is administered by the U.S. Fish and Wildlife Service (USFWS). Passage of the Endangered Species Act of 1973 gave the United States one of the most important laws ever enacted by any country to prevent the extinction of imperiled animals and plants. Protecting endangered and threatened species and restoring them to the condition where their existence is no longer jeopardized is the primary objective of the USFWS Endangered Species Program.

E: Endangered: Any species which is in danger of extinction throughout all or a significant portion of its range.

T: Threatened: Any species which is likely to become endangered within the foreseeable future.

C: Candidate: Plants or animals which USFWS is reviewing for possible addition to the list of endangered and threatened species.

PE: Proposed Endangered: Species officially proposed for listing as endangered; final ruling not yet made.

PT: Proposed Threatened: Species officially proposed for listing as threatened; final ruling not yet made.

SAT: Threatened due to similarity of appearance: Species is listed for its protection due to similarity of appearance with another listed species. Species listed as SAT are not biologically threatened.

STATE STATUS

Rule 3CSR10-4.111 of the *Wildlife Code of Missouri* and certain state statutes apply to state *Code*-listed species.

E: Endangered: Determined by MDC under constitutional authority.

GLOBAL RANK (GRANK)

Global ranks are assigned and maintained by the Natural Heritage/Conservation Data Center and/or NatureServe. A numeric rank (G1 through G5) of relative imperilment based on standard rank factors:

- the estimated number of Element Occurrences (EOs) throughout the Element's global, national, or subnational range;
- the estimated numbers of those EOs with good viability;
- the estimated abundance of the Element (measured in terms of population for species Elements as well as occupied area or linear distance for both species and communities);
- the estimated size of the Element's range;
- the short- and long-term trends in the Element's distribution over its range;
- the estimated number of adequately protected EOs throughout the Element's range globally, nationally, or subnationally;
- the scope, severity, and immediacy of threats to the Element;
- the vulnerability of the Element to intrusion; and
- the specificity of the Element's environmental requirements.

GLOBAL RANK (Cont.)

G1: Critically Imperiled: At very high risk of extinction or elimination due to extreme rarity, very steep declines, or other factors.

G2: Imperiled: At high risk of extinction or elimination due to very restricted range, very few populations or occurrences, steep declines, or other factors.

G3: Vulnerable: At moderate risk of extinction or elimination due to a restricted range, relatively few populations or occurrences, recent and widespread declines, or other factors.

G4: Apparently Secure: Uncommon but not rare; some cause for long-term concern due to declines or other factors.

G5: Secure: Common; widespread and abundant.

G#G#: **Range Rank:** A numeric range rank (e.g., G2G3) is used to indicate uncertainty about the exact status of a taxon. Ranges cannot skip more than two ranks (e.g., GU should be used rather than G1G4).

GU: Unrankable: Currently unrankable due to lack of information or due to substantially conflicting information about status or trends. Note: Whenever possible (when the range of uncertainty is three consecutive ranks or less), a range rank (e.g., G2G3) should be used to delineate the limits (range) of uncertainty.

GNR: Unranked: Global rank not yet assessed.

GH: Possibly Extinct: Known from only historical occurrences but still some hope of rediscovery. There is evidence that the species may be extinct but not enough to state this with certainty. Examples of such evidence include (1) that a species has not been documented in approximately 20-40 years despite some searching or some evidence of significant habitat loss or degradation; and (2) that a species has been searched for unsuccessfully, but not thoroughly enough to presume that it is extinct.

GX: Presumed Extinct: Not located despite intensive searches and virtually no likelihood of rediscovery.

SUBRANK:

T#: Intraspecific Taxon (binomial): Rank applies to a subspecies or variety. Rules for assigning T-ranks follow the same principles outlined above.

QUALIFIERS:

?: Inexact Numeric Rank: Denotes inexact numeric rank; it is not used in combination with range ranks, GH, or GX.

Q: Questionable Taxonomy: Distinctiveness of this entity as a taxon at the current level is questionable; resolution of this uncertainty may result in change from a species to a subspecies or hybrid, inclusion of this taxon in another taxon, with the resulting taxon having a lower-priority (numerically higher) conservation status rank.

STATE RANK

Assigning national and subnational conservation status ranks for species and ecosystems (ecological communities and systems) follows the same general principles as used in assigning global status ranks. Subnational ranks are assigned and maintained by the Missouri Natural Heritage Program (MONHP).

S1: Critically Imperiled: Critically imperiled in the state because of extreme rarity or because of some factor(s) such as very steep declines making it especially vulnerable to extirpation from the state.

S2: Imperiled: Imperiled in the state because of rarity due to very restricted range, very few populations or occurrences, steep declines, or other factors making it very vulnerable to extirpation from the state.

S3: Vulnerable: Vulnerable in the state due to a restricted range, relatively few populations or occurrences, recent and widespread declines, or other factors making it vulnerable to extirpation.

S4: Apparently Secure: Uncommon but not rare; some cause for long-term concern due to declines or other factors.

S5: Secure: Common, widespread, and abundant in the state.

S#S#: Range Rank: A numeric range rank (e.g., S2S3) is used to indicate any range of uncertainty about the status of the species. Ranges cannot skip more than two ranks (e.g., SU is used rather than S1S4).

SU: Unrankable: Currently unrankable due to lack of information or due to substantially conflicting information about status or trends.

S?: Unranked: State rank not yet assessed.

SE: Exotic: An exotic established in the state; may be native in nearby regions (e.g., house finch or catalpa in eastern U.S.).

SA: Accidental: Accidental or casual in the state, in other words, infrequent and outside its usual range. Includes species (usually birds or butterflies) recorded once or only a few times at a location. A few of these species may have bred on the one or two occasions they were recorded. Examples include European strays or western birds on the East Coast and vice-versa.

SP: Potential: Potential that the species occurs in the state, but no extant or historic occurrences are accepted.

SR: Reported: Species reported in the state but without a basis for either accepting or rejecting the report, or the report not yet reviewed locally. Some of these are very recent discoveries for which the Program has not yet received first-hand information; others are old, obscure reports.

SRF: Reported Falsely: Species erroneously reported in the state and the error has persisted in the literature.

STATE RANK (Cont.)

SH: Possibly Extirpated: Known from only historical records but still some hope of rediscovery. There is evidence that the species may no longer be present in the state, but not enough information to state this with certainty. Examples of such evidence include (1) that a species has not been documented in approximately 20-40 years despite some searching or some evidence of significant habitat loss or degradation; and (2) that a species has been searched for unsuccessfully, but not thoroughly enough to presume that it is no longer present in the state.

SX: Presumed Extirpated: Species is believed to be extirpated from the state. Not located despite intensive searches of historical sites and other appropriate habitat, and virtually no likelihood that it will be rediscovered.

QUALIFIERS:

?: Inexact or Uncertain: Denotes inexact or uncertain rank; this should not be used with range ranks, SH, or SX.

SPECIES CHANGES

STATUS CHANGES

PLANTS

Callirhoe bushii (Bush's Poppy Mallow) from S2 to S1. Recent surveys and lack of new documented populations indicate that this species is critically imperiled in MO. It has been observed at only two locations in the past twenty years.

Carex sychnocephala (A sedge) from SH to S1. Known only from a single location in Missouri, a recent discovery Steve Buback indicated that the population was doing well and was the first documented observation since 1988.

Chasmanthium sessiliflorum (A Spike Grass) from SX to S1. Previously recorded in MO from a single historic collection that has been considered extirpated. Susan Farrington recently discovered the species in Shannon County and noted proximity to a trail indicating a possible introduction by vehicular traffic.

Trifolium stoloniferum (Running Buffalo Clover) is no longer included on the federal Endangered Species List. It is still currently listed as a State Endangered Species.

AMPHIBIANS

Cryptobranchus alleganiensis alleganiensis (Eastern Hellbender) to federal Endangered. On 07 April 2021, the U.S. Fish & Wildlife Service listed Missouri's Distinct Population Segment (DPS) of the Eastern Hellbender as Endangered.

REPTILES

Macrochelys temminckii (Alligator Snapping Turtle) to federal Proposed Threatened. On 08 November 2021, the U.S. Fish & Wildlife Service 12-month finding document proposed to list Alligator Snapping Turtles as Threatened throughout its North American range. Final ruling should occur in the 2022.

BIRDS

Falco peregrinus (Peregrine Falcon) is no longer listed as a State Endangered Species.

ADDITIONS

PLANTS

Chimaphila maculata (Spotted Wintergreen) added as S1. A recent discovery of the species was documented by Dacoda Maddox (USFS) in Shannon County. The site was described as a dry rocky upland and east facing slope.

Eleocharis coloradoensis (Dwarf Spikerush) added as S1. A specimen collected by Julian Steyermark in 1934 considered to be *E. parvula* was redetermined by Galen Smith while working on the Flora of North America Project (1999). It was collected from "marshy ground along spring branch in brackish soil" in Cooper Co.

Eleocharis elliptica var. *elliptica* (Elliptic Spikesedge) added as S1. Four locations have been recently documented in Missouri (St. Louis, St. Francois, Wayne, and Shannon Counties).

CRUSTACEANS

Faxonius neglectus chaenodactylus (Gap Ringed Crayfish) added as S3, endemic to southern Missouri and extreme northern Arkansas, largely in one river drainage. New genetic data indicates should be elevated to full species.

CRUSTACEANS (Cont.)

Procambarus liberorum (Osage Burrowing Crayfish) added as S2S3 is a primary (or “true”) burrowing crayfish that was previously known to be endemic to only Arkansas and a very small part of Oklahoma. A recent predictive modeling effort predicted that it might exist in southwest Missouri, and follow-up sampling detected the species at 2 of 35 sampled sites there in summer of 2021 (sites were 26.5 miles apart). It likely has a somewhat greater distribution (more than two locations in SW MO), but no further sampling has occurred, and probably will not occur for several years.

INSECTS

The following species are listed as part of the Midwest Association of Fish and Wildlife Agencies Regional Species of Greatest Conservation Needs assessment completed in 2021. Most are of Regional as well as State concern.

| <u>Scientific Name</u> | <u>Common Name</u> | <u>Srank</u> |
|--------------------------------|---------------------------|---------------------|
| <i>Adalia bipunctata</i> | Two Spotted Lady beetle | SH |
| <i>Atrytone arogos</i> | Arogos Skipper | S2 |
| <i>Atrytonopsis hianna</i> | Dusted Skipper | S3 |
| <i>Catocala abbreviatella</i> | Abbreviated Underwing | S2S3 |
| <i>Catocala dulciola</i> | Quiet Underwing | S1S2 |
| <i>Catocala whitneyi</i> | Whitney's Underwing | S1 |
| <i>Coccinella novemnotata</i> | Nine-spotted Lady Beetle | SH |
| <i>Erynnis martialis</i> | Mottled Duskywing | S3 |
| <i>Eucosma bipunctella</i> | Two-spotted Eucosma | S2S3 |
| <i>Hadena ectypa</i> | Starry Campion Moth | S1 |
| <i>Hystrichophora loricana</i> | An Olethreutine Moth | S1? |
| <i>Lasioglossum fedorense</i> | A Sweat Bee | S1 |
| <i>Lytrosis permagnaria</i> | A Geometrid Moth | S1 |
| <i>Megachile ingenua</i> | A Leafcutter Bee | S1 |
| <i>Osmia illinoensis</i> | A Mason Bee | S1 |
| <i>Papaipema beeriana</i> | Blazing Star Stem Borer | S2 |
| <i>Papaipema cerina</i> | Golden Borer Moth | SU |
| <i>Papaipema sciata</i> | Culvers Root Borer | SU |
| <i>Papaipema silphii</i> | Silphium Borer Moth | S1 |
| <i>Photuris missouriensis</i> | Roaring River firefly | S1? |
| <i>Schinia bina</i> | Bina Flower Moth | S2S3 |
| <i>Schinia lucens</i> | Leadplant Flower Moth | S1 |
| <i>Svastra compta</i> | A Sunflower Bee | S1 |
| <i>Tebenna silphiella</i> | Rosinweed Moth | S1 |
| <i>Tenaspis angularis</i> | A Firefly | S1? |
| <i>Tricholita notata</i> | Marked Noctuid | S2S3 |

DELETIONS

PLANTS

Malvastrum angustum (Yellow False Mallow) from S3 to S4. Recent surveys and several opportunistic discoveries primarily by Krista Noel and Lisa San Diego indicate that this plant is a more common occurrence and should no longer be tracked by the Missouri Natural Heritage Program.

BIRDS

Athene cunicularia (Burrowing Owl) Extirpated from Missouri. Rare transient in west, accidental in east; accidental summer resident in northwest, accidental winter resident and visitant. Last observed in Missouri, spring 2013.

Campephilus principalis (Ivory-billed Woodpecker) Extinct. USFWS proposed rule to delist due to extinction (9/29/2021). Formerly an uncommon permanent resident in the Mississippi Lowlands north to at least St. Louis. Last observed in Missouri, May 1886, near Forest Park. The last definite record was in 1944, northeastern Louisiana.

Chlidonias niger (Black Tern) Extirpated from Missouri. Common transient in west, uncommon in east, former summer resident. Last observed in Missouri, May 1857, St. Louis.

Corvus corax (Common Raven) Extirpated from Missouri. Former permanent resident. Last known nesting record in Missouri, 1901.

Elanoides forficatus (Swallow-tailed Kite) Extirpated from Missouri. Casual transient and summer visitant; former summer resident statewide. Last observed in Missouri, August 1872, St. Louis.

Picoides borealis (Red-cockaded Woodpecker) Extirpated from Missouri. Formerly a local, uncommon permanent resident in southeastern Ozarks. Last observed in Missouri, 1946.

Vermivora bachmanii (Bachman's Warbler) Extinct. Formerly a common summer resident along the St. Francois River drainage in Dunklin county; accidental in southeastern Ozarks. Last observed in Missouri, 1909. The last verified record of this species was in 1962, South Carolina.

TAXONOMIC CHANGES

MOLLUSKS

Leptodea leptodon (Scaleshell) will be tracked as *Potamilus leptodon*

Margaritifera monodonta (Spectaclecase) will be tracked as *Cumberlandia monodonta*

Villosa lienosus (Little Spectaclecase) will be tracked as *Leaunio lienosus*

INSECTS

Ceratopsyche piatrix (A Net-spinning Caddisfly) will be tracked as *Hydropsyche piatrix*.

Maccaffertium bednariki (A Heptageniid Mayfly) will be tracked as *Stenonema bednariki*.

TERRESTRIAL NATURAL COMMUNITIES

In addition to lichens, plants, and animals, the MONHP tracks occurrences of high-quality natural communities. Terrestrial natural communities are interrelated assemblages of plants, animals, and other living organisms incorporated into their physical surroundings- including geologic substrate, soils, topography and aspect - that are shaped by climate and other natural processes. High-quality sites are ones that provide diverse assemblages of native species and intact soils. These natural communities frequently provide the habitat necessary for Missouri's listed lichens, plants, and animals. Examples of high-quality aquatic natural communities are included in the MONHP, although SRANKs have not been assigned to individual aquatic natural community types. Because MDC tracks occurrences of high-quality natural communities, we encourage the submission of site information on natural communities in this Checklist.

State ranks are assigned to natural communities using criteria that are similar to species SRANKs. Criteria include total number of occurrences, number of occurrences by grade [A-D], total acres, number of counties in which the community type occurs, number of protected occurrences, and threats. Global ranks are not applied to communities due to the difficulty in reconciling Missouri's classification system with larger scale classifications. In 2021 terrestrial natural community SRANKS were revised using the criteria and ranking algorithms in NatureServe's conservation status assessment rank calculator along with peer-review.

Natural community types have been classified using The Terrestrial Natural Communities of Missouri (Nelson, 2010). This classification system was developed to accomplish an inventory of the state's natural communities, prioritized by quality, size and distribution, to help meet land protection goals. The terrestrial natural communities tracked in MONHP (high-quality examples) are listed below with their SRANKs by major community type.

NATURAL COMMUNITY TYPES

| <u>FOREST</u> | <u>SRANK</u> |
|-------------------------------------|---------------------|
| Dry-Mesic Loess/Glacial Till Forest | S4 |
| Mesic Loess/Glacial Till Forest | S3 |
| Dry-Mesic Limestone/Dolomite Forest | S4 |
| Mesic Limestone/Dolomite Forest | S3 |
| Dry-Mesic Chert Forest | S4 |
| Dry-Mesic Sandstone Forest | S3 |
| Mesic Sandstone Forest | S2 |
| Dry-Mesic Sand Forest | S2 |
| Mesic Sand Forest | S1 |
| Dry-Mesic Igneous Forest | S4 |
| Dry-Mesic Bottomland Forest | S4 |
| Mesic Bottomland Forest | S2 |
| Wet-Mesic Bottomland Forest | S2 |
| Wet Bottomland Forest | S2 |
| Riverfront Forest | S4 |
| Total Forest Types: 15 | |

| <u>WOODLAND</u> | <u>SRANK</u> |
|---------------------------------------|---------------------|
| Dry Loess/Glacial Till Woodland | S3 |
| Dry-Mesic Loess/Glacial Till Woodland | S3 |
| Mesic Loess/Glacial Till Woodland | SH |
| Dry Limestone/Dolomite Woodland | S3 |
| Dry-Mesic Limestone/Dolomite Woodland | S3 |
| Dry Chert Woodland | S4 |
| Dry-Mesic Chert Woodland | S4 |
| Dry Sandstone Woodland | S3 |
| Dry-Mesic Sandstone Woodland | S3 |
| Dry Sand Woodland | S2 |
| Dry-Mesic Sand Woodland | S2 |
| Dry Igneous Woodland | S4 |
| Dry-Mesic Igneous Woodland | S4 |
| Upland Flatwoods | S2 |
| Bottomland Flatwoods | S1 |
| Sinkhole Flatwoods | S2 |
| Dry-Mesic Bottomland Woodland | S3 |
| Mesic Bottomland Woodland | SH |
| Wet-Mesic Bottomland Woodland | S1 |
| Total Woodland Types: 19 | |

| <u>SAVANNA</u> | <u>SRANK</u> |
|--------------------------------------|---------------------|
| Dry-Mesic Loess/Glacial Till Savanna | S1 |
| Mesic Loess/Glacial Till Savanna | SH |
| Limestone/Dolomite Savanna | SH |
| Chert Savanna | S1 |
| Sandstone/Shale Savanna | SH |
| Sand Savanna | S1 |
| Total Savanna Types: 6 | |

| <u>PRAIRIE</u> | <u>SRANK</u> |
|--------------------------------------|---------------------|
| Dry Loess/Glacial Till Prairie | S2 |
| Dry-Mesic Loess/Glacial Till Prairie | S1 |
| Mesic Loess/Glacial Till Prairie | S1 |
| Dry Limestone/Dolomite Prairie | S2 |
| Dry-Mesic Limestone/Dolomite Prairie | S1 |
| Dry-Mesic Chert Prairie | S2 |
| Dry-Mesic Sandstone/Shale Prairie | S2 |
| Sand Prairie | S1 |
| Prairie Swale | S1 |
| Hardpan Prairie | S1S2 |
| Wet-Mesic Bottomland Prairie | S1 |
| Wet Bottomland Prairie | S1 |
| Total Prairie Types: 12 | |

GLADE

Limestone Glade
Dolomite Glade
Chert Glade
Sandstone Glade
Igneous Glade

SRANK

S3
S3S4
S1
S3
S3

Total Glade Types: 5**CLIFF/TALUS**

Dry Limestone/Dolomite Cliff
Moist Limestone/Dolomite Cliff
Dry Sandstone Cliff
Moist Sandstone Cliff
Dry Chert Cliff
Moist Chert Cliff
Dry Igneous Cliff
Moist Igneous Cliff
Unconsolidated Bluff
Limestone/Dolomite Talus
Igneous Talus

SRANK

S4S5
S4
S3S4
S3
S2
S2
S3
S3
S4
S3
S3

Total Cliff/Talus Types: 11**STREAM EDGE**

Sand Bar
Gravel Wash
Stream Bank/River Bank

SRANK

S3
S4
S3

Total Stream Edge Types: 3**WETLAND**

Marsh
Shrub Swamp
Swamp
Pond Marsh
Pond Shrub Swamp
Pond Swamp
Ozark Fen
Prairie Fen
Forested Fen
Glacial Fen
Acid Seep
Saline Seep
Limestone/Dolomite Spring

SRANK

S2
S3S4
S2
S1
S2S3
S1
S2
S1
S2
S1
S2
S1
S3

Total Wetland Types: 13

CAVE

Aquatic Cave

Terrestrial Cave

Total Cave Types:

SRANK

S4

S4

2

Total Terrestrial Natural Communities:

86

THREATENED AND ENDANGERED SPECIES IN MISSOURI

| <u>SCIENTIFIC NAME</u> | <u>COMMON NAME</u> | <u>STATE STATUS</u> | <u>FEDERAL STATUS</u> |
|--------------------------------|---------------------------------|---------------------|-----------------------|
| PLANTS | | | |
| <i>Asclepias meadii</i> | Mead's Milkweed | Endangered | Threatened |
| <i>Boltonia decurrens</i> | Decurrent False Aster | Endangered | Threatened |
| <i>Geocarpon minimum</i> | Geocarpon | Endangered | Threatened |
| <i>Helenium virginicum</i> | Virginia Sneezeweed | Endangered | Threatened |
| <i>Isotria medeoloides</i> | Small Whorled Pogonia* | Endangered | Threatened |
| <i>Lindera melissifolia</i> | Pondberry | Endangered | Endangered |
| <i>Physaria filiformis</i> | Missouri Bladderpod | Endangered | Threatened |
| <i>Platanthera leucophaea</i> | Eastern Prairie Fringed Orchid* | Endangered | Threatened |
| <i>Platanthera praeclara</i> | Western Prairie Fringed Orchid | Endangered | Threatened |
| <i>Trifolium stoloniferum</i> | Running Buffalo Clover | Endangered | |
| MOLLUSKS | | | |
| <i>Alasmidonta viridis</i> | Slippershell Mussel | Endangered | |
| <i>Antrobia culveri</i> | Tumbling Creek Cavesnail | Endangered | Endangered |
| <i>Cumberlandia monodonta</i> | Spectaclecase | Endangered | Endangered |
| <i>Elliptio crassidens</i> | Elephantear | Endangered | |
| <i>Epioblasma curtisii</i> | Curtis Pearlymussel | Endangered | Endangered |
| <i>Epioblasma triquetra</i> | Snuffbox | Endangered | Endangered |
| <i>Lampsilis abrupta</i> | Pink Mucket | Endangered | Endangered |
| <i>Lampsilis higginsii</i> | Higgins Eye | Endangered | Endangered |
| <i>Lampsilis rafinesqueana</i> | Neosho Mucket | Endangered | Endangered |
| <i>Plethobasus cyphyus</i> | Sheepnose | Endangered | Endangered |
| <i>Potamilus capax</i> | Fat Pocketbook | Endangered | Endangered |
| <i>Potamilus leptodon</i> | Scaleshell | Endangered | Endangered |
| <i>Quadrula fragosa</i> | Winged Mapleleaf | Endangered | Endangered |
| <i>Reginaia ebenus</i> | Ebonyshell | Endangered | |
| <i>Simpsonaias ambigua</i> | Salamander Mussel | Endangered | |
| <i>Theliderma cylindrica</i> | Rabbitsfoot | Endangered | Threatened |
| CRUSTACEANS | | | |
| <i>Cambarus aculabrum</i> | Benton County Cave Crayfish | | Endangered |
| <i>Faxonius eupunctus</i> | Coldwater Crayfish | Endangered | |
| <i>Faxonius peruncus</i> | Big Creek Crayfish | | Proposed Threatened |
| <i>Faxonius quadruncus</i> | St. Francis River Crayfish | | Proposed Threatened |
| <i>Faxonius roberti</i> | Spring River Crayfish | Endangered | |
| <i>Orconectes stygocaneyi</i> | Caney Mountain Cave Crayfish | Endangered | |
| INSECTS | | | |
| <i>Bombus affinis</i> | Rusty Patch Bumblebee | | Endangered |
| <i>Nicrophorus americanus</i> | American Burying Beetle* | Endangered | Threatened |
| <i>Somatochlora hineana</i> | Hine's Emerald | Endangered | Endangered |
| FISH | | | |
| <i>Acipenser fulvescens</i> | Lake Sturgeon | Endangered | |
| <i>Cottus specus</i> | Grotto Sculpin | | Endangered |
| <i>Crystallaria asprella</i> | Crystal Darter | Endangered | |
| <i>Etheostoma fusiforme</i> | Swamp Darter | Endangered | |
| <i>Etheostoma histrio</i> | Harlequin Darter | Endangered | |
| <i>Etheostoma nianguae</i> | Niangua Darter | Endangered | Threatened |

FISH (Cont.)

| | | | |
|-------------------------------------|---------------------|------------|---------------|
| <i>Etheostoma parvipinne</i> | Goldstripe Darter | Endangered | |
| <i>Etheostoma whipplei</i> | Redfin Darter | Endangered | |
| <i>Forbesichthys agassizii</i> | Spring Cavefish | Endangered | |
| <i>Hybognathus hayi</i> | Cypress Minnow | Endangered | |
| <i>Notropis maculatus</i> | Taillight Shiner | Endangered | |
| <i>Notropis sabiniae</i> | Sabine Shiner | Endangered | |
| <i>Notropis topeka</i> | Topeka Shiner | Endangered | Endangered |
| <i>Noturus eleutherus</i> | Mountain Madtom | Endangered | |
| <i>Noturus placidus</i> | Neosho Madtom | Endangered | Threatened |
| <i>Percina nasuta</i> | Longnose Darter | Endangered | |
| <i>Platygobio gracilis</i> | Flathead Chub | Endangered | |
| <i>Scaphirhynchus albus</i> | Pallid Sturgeon | Endangered | Endangered |
| <i>Scaphirhynchus platyrhynchus</i> | Shovelnose Sturgeon | | Threatened/SA |
| <i>Troglichthys rosae</i> | Ozark Cavefish | Endangered | Threatened |
| <i>Umbra limi</i> | Central Mudminnow | Endangered | |

AMPHIBIANS

| | | | |
|--|--------------------|------------|------------|
| <i>Cryptobranchus a. alleganiensis</i> | Eastern Hellbender | Endangered | Endangered |
| <i>Cryptobranchus a. bishopi</i> | Ozark Hellbender | Endangered | Endangered |

REPTILES

| | | | |
|--|-------------------------------|------------|---------------------|
| <i>Deirochelys reticularia miaria</i> | Western Chicken Turtle | Endangered | |
| <i>Emydoidea blandingii</i> | Blanding's Turtle | Endangered | |
| <i>Kinosternon flavescens</i> | Yellow Mud Turtle | Endangered | |
| <i>Macrochelys temminckii</i> | Alligator Snapping Turtle | | Proposed Threatened |
| <i>Nerodia cyclopion</i> | Mississippi Green Watersnake* | Endangered | |
| <i>Sistrurus catenatus</i> | Eastern Massasauga* | Endangered | Threatened |
| <i>Sistrurus tergeminus tergeminus</i> | Prairie Massasauga | Endangered | |

BIRDS

| | | | |
|---|-------------------------|------------|------------|
| <i>Botaurus lentiginosus</i> | American Bittern | Endangered | |
| <i>Circus hudsonius</i> | Northern Harrier | Endangered | |
| <i>Egretta thula</i> | Snowy Egret | Endangered | |
| <i>Laterallus jamaicensis jamaicensis</i> | Eastern Black Rail | | Threatened |
| <i>Limnithlypis swainsonii</i> | Swainson's Warbler | Endangered | |
| <i>Peucaea aestivalis</i> | Bachman's Sparrow | Endangered | |
| <i>Rallus elegans</i> | King Rail | Endangered | |
| <i>Sterna antillarum athalassos</i> | Interior Least Tern | Endangered | |
| <i>Tympanuchus cupido</i> | Greater Prairie-chicken | Endangered | |

MAMMALS

| | | | |
|---------------------------------------|----------------------------|------------|------------|
| <i>Canis lupus</i> | Gray Wolf* | | Endangered |
| <i>Canis rufus</i> | Red Wolf* | | Endangered |
| <i>Corynorhinus townsendii ingens</i> | Ozark Big-eared Bat* | Endangered | Endangered |
| <i>Lepus californicus</i> | Black-tailed Jackrabbit | Endangered | |
| <i>Myotis grisescens</i> | Gray Myotis | Endangered | Endangered |
| <i>Myotis septentrionalis</i> | Northern Long-eared Myotis | Endangered | Threatened |
| <i>Myotis sodalis</i> | Indiana Myotis | Endangered | Endangered |
| <i>Spilogale putorius interrupta</i> | Plains Spotted Skunk | Endangered | |

*Considered extirpated, historical or accidental occurrence in Missouri.

SPECIES AND STATUSES

| <u>SCIENTIFIC NAME</u> | <u>COMMON NAME</u> | <u>SRANK</u> | <u>GRANK</u> | <u>STATE STATUS</u> | <u>FEDERAL STATUS</u> |
|--|----------------------|--------------|--------------|---------------------|-----------------------|
| LICHENS | | | | | |
| Cladonia cervicornis ssp. verticillata | A Lichen | S? | G5 | | |
| Cladonia leporina | A Lichen | S2 | G4G5 | | |
| Coenogonium missouriense | Missouri Cave Lichen | SH | GH | | |
| Collema nigrescens | A Lichen | SU | G5? | | |
| Dendriscoaulon intricatum | A Lichen | S? | GUQ | | |
| Dermatocarpon mouliinsii | A Lichen | S1 | GNR | | |
| Dibaeis absoluta | A Lichen | S1 | G4 | | |
| Flavoparmelia rutidota | A Lichen | S? | G4G5 | | |
| Graphina sophisticascens | A Lichen | SH | GNR | | |
| Imshaugia aleurites | A Lichen | S? | G5 | | |
| Lecidea lurida | A Lichen | SU | GNR | | |
| Pannaria rubiginosa | A Lichen | S1 | G4G5 | | |
| Parmelia squarrosa | A Lichen | S? | G5 | | |
| Parmelina horrescens | A Lichen | S1 | G5 | | |
| Parmotrema hypoleucinum | A Lichen | S1 | G4G5 | | |
| Parmotrema tinctorum | A Lichen | S2 | G5? | | |
| Parmotrema xanthinum | A Lichen | S? | G3G5 | | |
| Pseudocyphellaria aurata | A Lichen | S1 | G3G5 | | |
| Psora icterica | A Lichen | S1 | G5? | | |
| Pycnothelia papillaria | A Lichen | S1 | G5 | | |
| Ramalina intermedia | A Lichen | S1 | G5 | | |
| Rimelia subisidiosa | A Lichen | S1 | G4G5 | | |
| Tuckermannopsis ciliaris | A Lichen | S? | G5 | | |
| Usnea angulata | A Lichen | S1 | G3G5 | | |
| Xanthoparmelia australasica | A Lichen | S1 | G5 | | |

Total Lichen Records: 25

LIVERWORTS AND HORNWORTS

| | | | | | |
|---|-------------------|----|-------|--|--|
| Aneura sharpii | A Liverwort | S1 | GNR | | |
| Anthoceros agrestis | A Hornwort | S2 | G4G5 | | |
| Bazzania trilobata var. depauperata | A Liverwort | S1 | G5TUQ | | |
| Bazzania trilobata var. trilobata | A Liverwort | S1 | G5T5 | | |
| Calypogeia muelleriana ssp. muelleriana | A Liverwort | SU | G5T5 | | |
| Calypogeia sullivantii | A Leafy Liverwort | S1 | G4 | | |
| Frullania kunzei | A Liverwort | S1 | G4 | | |
| Fuscocephaloziopsis catenulata | A Liverwort | S2 | G5 | | |
| Fuscocephaloziopsis connivens | A Liverwort | S1 | G5 | | |
| Jungermannia leiantha | A Liverwort | S1 | G5 | | |
| Kurzia pauciflora | A Liverwort | S1 | G5 | | |
| Kurzia sylvatica | A Liverwort | S1 | G5 | | |
| Leucolejeunea unciloba | A Liverwort | S1 | G4G5 | | |
| Marchantia polymorpha ssp. polymorpha | A Liverwort | S1 | G5TNR | | |

| <u>SCIENTIFIC NAME</u> | <u>COMMON NAME</u> | <u>SRANK</u> | <u>GRANK</u> | <u>STATE STATUS</u> | <u>FEDERAL STATUS</u> |
|---|--------------------|--------------|--------------|---------------------|-----------------------|
| LIVERWORTS AND HORNWORTS (Cont.) | | | | | |
| Marsupella sullivantii | A Liverwort | S2 | G5 | | |
| Metzgeria conjugata | A Liverwort | S1 | G5 | | |
| Metzgeria furcata | A Liverwort | S2 | G5 | | |
| Nardia lescurii | A Liverwort | S1 | G3? | | |
| Notothylas orbicularis | A Hornwort | S1 | G5 | | |
| Nowellia curvifolia | A Liverwort | S2 | G5 | | |
| Odontoschisma denudatum | A Liverwort | S1 | G5 | | |
| Oxymitra incrassata | A Liverwort | S1 | GNR | | |
| Phaeoceros oregonus | A Hornwort | S1 | GNRQ | | |
| Plagiochasma wrightii | A Liverwort | SH | G3? | | |
| Ptilidium pulcherrimum | A Liverwort | S1 | G5 | | |
| Radula australis | A Liverwort | SR | G3G4 | | |
| Rectolejeunea maxonii | A Liverwort | S1 | G4 | | |
| Riccardia multifida | A Liverwort | S1 | G5 | | |
| Riccardia palmata | A Liverwort | S1 | G5 | | |
| Riccia austini | A Liverwort | S2 | G5 | | |
| Riccia bifurca | A Liverwort | SU | G5 | | |
| Riccia cavernosa | A Liverwort | S1 | G5 | | |
| Riccia crystallina | A Liverwort | SU | G4G5 | | |
| Riccia frostii | A Liverwort | S1 | G5 | | |
| Riccia hirta | A Liverwort | S2 | G5 | | |
| Riccia macallisteri | A Liverwort | S1 | G2G4 | | |
| Riccia nigrella | A Liverwort | SU | G4G5 | | |
| Riccia ozarkiana | A Liverwort | SH | G1G2 | | |
| Riccia sorocarpa | A Liverwort | S1 | G5 | | |
| Riccia sullivantii | A Liverwort | S? | G4G5T4T5Q | | |
| Schistochilopsis incisa | A Liverwort | S1 | G5 | | |

Total Liverwort and Hornwort Records: 41

MOSESSES

| | | | | | |
|--|---------------|----|---------|--|--|
| Acaulon muticum var. muticum | A Moss | S1 | G4G5TNR | | |
| Anacamptodon splachnoides | Knothole Moss | S1 | G3G5 | | |
| Anomobryum julaceum | A Moss | S1 | G5 | | |
| Archidium alternifolium | A Moss | S1 | G4G5 | | |
| Atrichum crispulum | A Moss | S2 | G5 | | |
| Atrichum crispum | A Moss | S1 | G5 | | |
| Atrichum cylindricum | A Moss | S1 | G5 | | |
| Brachelyma subulatum | A Moss | S1 | G4G5 | | |
| Brachythecium campestre | A Moss | S1 | G5 | | |
| Brachythecium salebrosum var. salebrosum | A Moss | SU | G5TNR | | |
| Bruchia texana | A Moss | SU | G3G5 | | |
| Bryhnia novae-angliae | A Moss | S1 | G5 | | |
| Bryoxiphium norvegicum | Sword Moss | S1 | G5? | | |
| Calliergonella cuspidata | A Moss | S1 | G5 | | |
| Campylium protensum | A Moss | S2 | G3G5 | | |
| Campylopodia stenocarpa | A Moss | S1 | G5 | | |

| <u>SCIENTIFIC NAME</u> | <u>COMMON NAME</u> | <u>SRANK</u> | <u>GRANK</u> | <u>STATE STATUS</u> | <u>FEDERAL STATUS</u> |
|--------------------------------------|------------------------|--------------|--------------|---------------------|-----------------------|
| MOSESSES (Cont.) | | | | | |
| Campylopus tallulensis | A Moss | S2 | G4 | | |
| Codriophorus aciculare | A Moss | S1 | G5 | | |
| Dichelyma capillaceum | A Moss | S1 | G5 | | |
| Dicranella rufescens | A Moss | S1 | G5? | | |
| Dicranum polysetum | A Moss | S1 | G5 | | |
| Didymodon revolutus | A Moss | S1 | G4 | | |
| Didymodon rigidulus var. rigidulus | A Moss | S1 | G5T4? | | |
| Ditrichum rhynchostegium | A Moss | S1 | G3G5 | | |
| Drepanocladus aduncus | A Moss | SU | G5 | | |
| Drepanocladus polygamus | A Moss | S1 | G5 | | |
| Encalypta procera | Extinguisher Moss | S1 | G5 | | |
| Entodon brevisetus | A Moss | S1 | G4? | | |
| Ephemerum crassinervium var. texanum | A Moss | SU | G4T3? | | |
| Ephemerum serratum | A Moss | S1 | G4 | | |
| Fissidens exilis | Small Pocket Moss | S2 | G3G4 | | |
| Fissidens hallianus | A Moss | S2 | GNRQ | | |
| Forsstroemia producta | A Moss | S1 | G5? | | |
| Funaria americana | A Moss | SU | G3? | | |
| Gemmabryum klinggraeffii | A Moss | S1 | G4G5 | | |
| Gemmabryum ruderae | A Moss | S2 | G3G5 | | |
| Gemmabryum subapiculatum | A Moss | SX | G5? | | |
| Grimmia olneyi | A Moss | S2 | G3G5 | | |
| Grimmia plagiopodia | A Moss | S1 | G4G5 | | |
| Gymnostomum calcareum | A Moss | SU | G5? | | |
| Herzogiella striatella | A Moss | SU | G5 | | |
| Homaliadelphus sharpii | Sharp's Homaliadelphus | S1 | G3? | | |
| Hypnum cupressiforme var. filiforme | A Moss | S1 | G5TNR | | |
| Hypnum lindbergii | Lindberg's Hypnum Moss | SU | G5 | | |
| Hypnum pallescens | A Moss | S1 | G5 | | |
| Hypnum pratense | A Moss | S1 | G5 | | |
| Imbriobryum miniatum | A Moss | S1 | G4G5 | | |
| Isopterygiopsis muelleriana | A Moss | S1 | G5 | | |
| Jaffuelobryum raii | A Moss | S2 | G4? | | |
| Jaffuelobryum wrightii | A Moss | S1 | G4G5 | | |
| Leskea polycarpa | A Moss | SU | G5 | | |
| Micromitrium megalosporum | A Moss | S1S2 | G4 | | |
| Micromitrium synoicum | A Moss | SU | G4 | | |
| Micromitrium tenerum | A Moss | S1 | G4G5 | | |
| Mnium hornum | A Moss | S1 | G5 | | |
| Mnium thomsonii | A Moss | S? | G5 | | |
| Myurella sibirica | A Moss | S2 | G5 | | |
| Neckera besserii | A Moss | S1 | G4G5 | | |
| Orthotrichum anomalum | A Moss | S? | G5 | | |
| Orthotrichum diaphanum | A Moss | S2 | G5 | | |
| Orthotrichum elegans | A Moss | S1 | G5 | | |

| <u>SCIENTIFIC NAME</u> | <u>COMMON NAME</u> | <u>SRANK</u> | <u>GRANK</u> | <u>STATE STATUS</u> | <u>FEDERAL STATUS</u> |
|--|---------------------|--------------|--------------|---------------------|-----------------------|
| MOSESSES (Cont.) | | | | | |
| <i>Orthotrichum lescurii</i> | A Moss | S1 | GNR | | |
| <i>Physcomitrium collenchymatum</i> | A Moss | S1 | G2G4 | | |
| <i>Physcomitrium hookeri</i> | A Moss | SU | G2G4 | | |
| <i>Plagiomnium medium</i> | A Moss | SU | G5 | | |
| <i>Plagiothecium denticulatum</i> | A Moss | S1 | G5 | | |
| <i>Platylomella lescurii</i> | A Moss | S2 | G5 | | |
| <i>Pleuridium acuminatum</i> | A Moss | S2 | GNR | | |
| <i>Pleuridium sullivantii</i> | A Moss | S1 | G3G5 | | |
| <i>Pohlia annotina</i> | A Moss | S2 | G4G5 | | |
| <i>Polytrichastrum formosum</i> var. <i>densifolium</i> | A Moss | S1 | G5TNR | | |
| <i>Pseudocampylium radicale</i> | A Moss | S1 | G3G5 | | |
| <i>Pseudotaxiphyllum distichaceum</i> | A Moss | S1 | G4G5 | | |
| <i>Ptychomitrium serratum</i> | A Moss | S1 | G4? | | |
| <i>Ptychomitrium sinense</i> | A Moss | S1 | G3?Q | | |
| <i>Ptychostomum cernuum</i> | A Moss | S1 | G3G5 | | |
| <i>Ptychostomum cyclophyllum</i> | A Moss | S? | G4G5 | | |
| <i>Ptychostomum pallescens</i> | A Moss | SU | G5 | | |
| <i>Ptychostomum pendulum</i> | A Moss | S1 | G5 | | |
| <i>Pylaisia intricata</i> | A Moss | SU | G5 | | |
| <i>Pylaisiadelphina tenuirostris</i> | A Moss | S2 | G5? | | |
| <i>Pyramidula tetragona</i> | A Moss | S1 | G3G5 | | |
| <i>Rhabdoweisia crispata</i> | A Moss | S1 | G5 | | |
| <i>Rhytidium rugosum</i> | Golden Glade-moss | S1 | G5 | | |
| <i>Rosulabryum flaccidum</i> | A Moss | S2 | GNR | | |
| <i>Schistidium liliputanum</i> | A Moss | S1 | GNR | | |
| <i>Seligeria calcarea</i> | A Moss | S? | G4? | | |
| <i>Seligeria donniana</i> | A Moss | S1 | G4G5 | | |
| <i>Seligeria pusilla</i> | A Moss | S1 | G3G5 | | |
| <i>Sematophyllum marylandicum</i> | A Moss | S1 | G5 | | |
| <i>Sphagnum affine</i> | Sphagnum | S1 | G5 | | |
| <i>Sphagnum angustifolium</i> | Narrowleaf Peatmoss | S1 | G5 | | |
| <i>Sphagnum bartlettianum</i> | Sphagnum | S1 | G4G5 | | |
| <i>Sphagnum capillifolium</i> | Northern Peatmoss | S2 | G5 | | |
| <i>Sphagnum cuspidatum</i> | Sphagnum | S1 | G5 | | |
| <i>Sphagnum fallax</i> | Sphagnum | S1 | G5 | | |
| <i>Sphagnum fimbriatum</i> var. <i>fimbriatum</i> | Sphagnum | S1 | G5T5 | | |
| <i>Sphagnum henryense</i> | Sphagnum | S1 | G4? | | |
| <i>Sphagnum inundatum</i> | Sphagnum | S1 | G4 | | |
| <i>Sphagnum magellanicum</i> | Magellan's Peatmoss | S1 | G5 | | |
| <i>Sphagnum platyphyllum</i> | Sphagnum | SU | G5 | | |
| <i>Sphagnum recurvum</i> | Sphagnum | S1 | G5 | | |
| <i>Sphagnum russowii</i> | Sphagnum | S1 | G5 | | |
| <i>Sphagnum subtile</i> | Sphagnum | S2 | G5 | | |
| <i>Sphagnum trinitense</i> | Sphagnum | S1 | G4 | | |
| <i>Syntrichia papillosa</i> | A Moss | S2 | G5 | | |
| <i>Syrhodon texanus</i> | A Moss | S2 | G5 | | |

| <u>SCIENTIFIC NAME</u> | <u>COMMON NAME</u> | <u>SRANK</u> | <u>GRANK</u> | <u>STATE STATUS</u> | <u>FEDERAL STATUS</u> |
|--|-----------------------|--------------|--------------|---------------------|-----------------------|
| MOSESSES (Cont.) | | | | | |
| Thamnobryum alleghaniense | A Moss | S1 | G5? | | |
| Tortella fragilis | Fragmented Screw-moss | SU | G5 | | |
| Tortella tortuosa | Twisted Moss | SU | G5 | | |
| Trematodon longicollis | A Moss | S2 | G5 | | |
| Trichostomum tenuirostre var. gemmiparum | A Moss | S1 | G5TU | | |
| Ulotia hutchinsiae | Hutchins' Ulotia Moss | S1 | G5 | | |
| Weissia phascopsis | A Pygmy Moss | S1 | G3G4 | | |
| Zygodon apiculatus | A Moss | S1 | G5TU | | |
| Total Moss Records: 115 | | | | | |

FERNS AND FERN ALLIES

| | | | | | |
|--|----------------------------|------|--------|--|--|
| Asplenium bradleyi | Bradley's Spleenwort | SU | G4 | | |
| Asplenium montanum | Mountain Spleenwort | SH | G5 | | |
| Asplenium pinnatifidum | Lobed Spleenwort | SU | G4 | | |
| Asplenium trichomanes ssp. trichomanes | Maidenhair Spleenwort | SU | G5T5 | | |
| Azolla caroliniana | Eastern Mosquito Fern | S1S3 | G5 | | |
| Botrychium biternatum | Few-lobed Grape Fern | S1 | G5 | | |
| Cheilanthes alabamensis | Alabama Lip-fern | S1 | G4G5 | | |
| Cheilanthes tomentosa | Woolly Lip-fern | S1 | G5 | | |
| Cystopteris tenuis | A Bladderfern | S1 | G5 | | |
| Dennstaedtia punctilobula | Hay-scented Fern | S2 | G5 | | |
| Dryopteris carthusiana | Spinulose Shield Fern | S2 | G5 | | |
| Dryopteris celsa | Log Fern | S1 | G4 | | |
| Dryopteris cristata | Crested Fern | S1 | G5 | | |
| Dryopteris goldiana | Goldie's Fern | S2 | G4G5 | | |
| Dryopteris intermedia | Evergreen Woodfern | S1 | G5 | | |
| Huperzia porophila | Fir Clubmoss | S2 | G4 | | |
| Isoetes engelmannii var. engelmannii | Engelmann's Quillwort | S1? | G4TNRQ | | |
| Lycopodium dendroideum | Round-branched Ground Pine | S1 | G5 | | |
| Lycopodium tristachyum | Ground Cedar | S1 | G5 | | |
| Matteuccia struthiopteris var. pennsylvanica | Ostrich Fern | S2 | G5T5 | | |
| Ophioglossum crotalophoroides | Bulbous Adder's-tongue | SH | G5 | | |
| Ophioglossum petiolatum | Stalked Adder's-tongue | SX | G5 | | |
| Pellaea glabella var. missouriensis | Missouri Cliffbrake | S1S2 | G5T1T2 | | |
| Pilularia americana | American Pillwort | SU | G5 | | |
| Pteridium aquilinum var. pseudocaudatum | Bracken | SU | G5T5 | | |
| Thelypteris noveboracensis | New York Fern | S1 | G5 | | |
| Woodsia obtusa ssp. occidentalis | Blunt-lobe Woodsia | S1 | G5T3T4 | | |
| Woodwardia areolata | Netted Chain Fern | S2 | G5 | | |

Total Ferns and Fern Allies Records: 28

| <u>SCIENTIFIC NAME</u> | <u>COMMON NAME</u> | <u>SRANK</u> | <u>GRANK</u> | <u>STATE STATUS</u> | <u>FEDERAL STATUS</u> |
|--|----------------------------------|--------------|--------------|---------------------|-----------------------|
| FLOWERING PLANTS | | | | | |
| <i>Acalypha deamii</i> | Large Seeded Mercury | S2 | G4? | | |
| <i>Aconitum uncinatum</i> | Southern Monkshood | S1 | G4 | | |
| <i>Agalinis auriculata</i> | Auriculate False Foxglove | S3 | G3 | | |
| <i>Agalinis heterophylla</i> | Prairie False Foxglove | S1 | G4G5 | | |
| <i>Agalinis purpurea</i> | Purple False Foxglove | S2 | G5 | | |
| <i>Agalinis viridis</i> | Green False Foxglove | S1 | G4? | | |
| <i>Agastache scrophulariifolia</i> | Purple Giant-hyssop | S1 | G4 | | |
| <i>Agrimonia gryposepala</i> | Tall Agrimony | SU | G5 | | |
| <i>Allium burdickii</i> | Wild Leek | S2 | G4G5 | | |
| <i>Alopecurus aequalis</i> | Floating Foxtail Grass | S2 | G5 | | |
| <i>Amorpha nitens</i> | Shining False Indigo | S1 | G3? | | |
| <i>Amsonia ciliata</i> var. <i>filifolia</i> | Ciliate Blue Star | S2S3 | G5?T4? | | |
| <i>Andropogon hirsutior</i> | Bushy Bluestem | SU | G5T5 | | |
| <i>Anemone cylindrica</i> | Thimbleweed | S2 | G5 | | |
| <i>Anemone quinquefolia</i> var. <i>quinquefolia</i> | Wood Anemone | S1 | G5T5 | | |
| <i>Aralia nudicaulis</i> | Wild Sarsaparilla | S2 | G5 | | |
| <i>Aristida adscensionis</i> | Sixweeks Three-awn | SH | G5 | | |
| <i>Aristida desmantha</i> | Curly Three-awn | S2 | G5 | | |
| <i>Aristida lanosa</i> | Woollyleaf Three-awn | S1 | G5 | | |
| <i>Aristida ramosissima</i> | Slender Three-awn | SH | G5 | | |
| <i>Aronia melanocarpa</i> | Black Chokeberry | S1 | G5 | | |
| <i>Artemisia dracunculus</i> | A Wormwood | SH | G5 | | |
| <i>Asclepias exaltata</i> | Poke Milkweed | S1 | G5 | | |
| <i>Asclepias meadii</i> | Mead's Milkweed | S2 | G2 | E | T |
| <i>Asclepias speciosa</i> | Showy Milkweed | SA | G5 | | |
| <i>Astragalus lotiflorus</i> | Low Milk Vetch | S2 | G5 | | |
| <i>Astranthium ciliatum</i> | Western Daisy | S2 | G5T5 | | |
| <i>Baptisia sphaerocarpa</i> | Round-fruited Yellow Wild Indigo | SU | G4G5 | | |
| <i>Bartonia paniculata</i> ssp. <i>paniculata</i> | Screwstem | S1 | G5T5 | | |
| <i>Bartonia virginica</i> | Yellow Bartonia | S1 | G5 | | |
| <i>Berberis canadensis</i> | American Barberry | S1 | G3G4 | | |
| <i>Bergia texana</i> | Bergia | S2 | G5 | | |
| <i>Berula erecta</i> var. <i>incisa</i> | Cut-leaved Water-parsnip | S1 | G4G5T4T5 | | |
| <i>Bidens beckii</i> | Water Marigold | SU | G5 | | |
| <i>Bidens laevis</i> | A Beggar's Tick | S1 | G5 | | |
| <i>Bolboschoenus maritimus</i> ssp. <i>paludosus</i> | Bayonet Grass | S1 | G5T5 | | |
| <i>Boltonia decurrens</i> | Decurrent False Aster | S1 | G2G3 | E | T |
| <i>Bouteloua gracilis</i> | Blue Grama | S1 | G5 | | |
| <i>Bouteloua hirsuta</i> var. <i>hirsuta</i> | Hairy Grama | S2 | G5T5 | | |
| <i>Bromus latiglumis</i> | A Brome | S3 | G5 | | |
| <i>Buchloe dactyloides</i> | Buffalo Grass | SH | G4G5 | | |
| <i>Calamagrostis porteri</i> ssp. <i>insperata</i> | Oferhollow Reed Grass | S3 | G4T3 | | |
| <i>Calamagrostis stricta</i> ssp. <i>inexpansa</i> | Northern Reedgrass | S2S3 | G5T5 | | |

| <u>SCIENTIFIC NAME</u> | <u>COMMON NAME</u> | <u>SRANK</u> | <u>GRANK</u> | <u>STATE STATUS</u> | <u>FEDERAL STATUS</u> |
|--|------------------------|--------------|--------------|---------------------|-----------------------|
| FLOWERING PLANTS (Cont.) | | | | | |
| Calamovilfa longifolia var. longifolia | Long-leaved Reed Grass | SH | G5T5 | | |
| Callicarpa americana | French Mulberry | S1 | G5 | | |
| Callirhoe bushii | Bush's Poppy Mallow | S1 | G3 | | |
| Callirhoe triangulata | Clustered Poppy Mallow | SH | G3 | | |
| Callitriche palustris | Vernal Water Starwort | SU | G5 | | |
| Calopogon oklahomensis | Grass Pink Orchid | S2 | G2 | | |
| Calopogon tuberosus | Grass Pink Orchid | S2 | G5 | | |
| Caltha palustris | Marsh Marigold | S1 | G5 | | |
| Campanula aparinoides var. aparinoides | Marsh Bellflower | S1 | G5TNR | | |
| Campanula rotundifolia | Harebell | S1 | G5 | | |
| Carex abscondita | A Sedge | S1 | G4G5 | | |
| Carex alata | Broadwing Sedge | S2S3 | G5 | | |
| Carex albicans var. australis | Bellow Beaked Sedge | S1 | G5T5 | | |
| Carex albolutescens | Greenish-white Sedge | S1S2 | G5 | | |
| Carex aquatilis var. stricta | A Sedge | SH | G5TNR | | |
| Carex atherodes | Awed Sedge | SH | G5 | | |
| Carex atlantica ssp. atlantica | A Sedge | S1 | G5T5 | | |
| Carex atlantica ssp. capillacea | Prickly Bog Sedge | S1 | G5T5? | | |
| Carex bromoides ssp. bromoides | A Sedge | S2 | G5T5 | | |
| Carex buxbaumii | Brown Bog Sedge | S2 | G5 | | |
| Carex communis var. communis | Fibrous-root Sedge | S2 | G5T5 | | |
| Carex comosa | Bristly Sedge | S2 | G5 | | |
| Carex conoidea | Field Sedge | S1 | G5 | | |
| Carex cumberlandensis | A Sedge | S1 | GNR | | |
| Carex debilis var. debilis | White-edge Sedge | S1 | G5T5 | | |
| Carex decomposita | Epiphytic Sedge | S3 | G3G4 | | |
| Carex echinodes | A Sedge | SH | G5TNR | | |
| Carex fissa var. fissa | A Sedge | S1 | G4?T3T4 | | |
| Carex flaccosperma | A Sedge | S2 | G5 | | |
| Carex gigantea | Giant Sedge | S1S2 | G4 | | |
| Carex gracillima | Graceful Sedge | S1 | G5 | | |
| Carex inops ssp. heliophila | Sun Sedge | SU | G5T5 | | |
| Carex jorii | Cypress-swamp Sedge | SH | G4G5 | | |
| Carex lacustris | Lake-bank Sedge | S2 | G5 | | |
| Carex laxiculmis var. copulata | A Sedge | SU | G5T4 | | |
| Carex laxiculmis var. laxiculmis | A Sedge | SU | G5T5 | | |
| Carex laxiflora var. laxiflora | A Carex | S1 | G5T5 | | |
| Carex longii | Greenish-white Sedge | SH | G5 | | |
| Carex microdonta | A Sedge | S1 | G4 | | |
| Carex missouriensis | Missouri Sedge | SU | G4 | | |
| Carex molestiformis | A Sedge | S2 | G4 | | |
| Carex oxylepis | Sharp-scale Sedge | S2 | G5? | | |
| Carex prasina | Drooping Sedge | S1 | G4 | | |
| Carex reniformis | Reniform Sedge | S1 | G4? | | |
| Carex reznicekii | A Sedge | S2? | G5 | | |
| Carex sartwellii | Sartwell's Sedge | S1 | G5 | | |

| <u>SCIENTIFIC NAME</u> | <u>COMMON NAME</u> | <u>SRANK</u> | <u>GRANK</u> | <u>STATE STATUS</u> | <u>FEDERAL STATUS</u> |
|---|--------------------------|--------------|--------------|---------------------|-----------------------|
| FLOWERING PLANTS (Cont.) | | | | | |
| Carex scabrata | Rough Sedge | SH | G5 | | |
| Carex socialis | A Sedge | S2 | G4 | | |
| Carex sprengeii | Longbeak Sedge | S2 | G5 | | |
| Carex sterilis | A Sedge | S2 | G4G5 | | |
| Carex straminea | Straw Sedge | S1 | G5 | | |
| Carex sychnocephala | A Sedge | S1 | G5 | | |
| Carex tetanica | Rigid Sedge | S3 | G4G5 | | |
| Carex tonsa var. rugosperma | Shaved Sedge | S1 | G5T5 | | |
| Carex tonsa var. tonsa | Shaved Sedge | SH | G5T5 | | |
| Carex triangularis | Triangular Sedge | S2 | G5 | | |
| Carex trichocarpa | Hairy-fruited Sedge | S1 | G4 | | |
| Carex vesicaria var. monile | A Sedge | S2? | G5T4 | | |
| Carex willdenowii | Willdenow's Sedge | S1 | G5 | | |
| Carex woodii | A Sedge | S1 | G4 | | |
| Carya pallida | Sand Hickory | S2S3 | G5 | | |
| Castanea pumila var. ozarkensis | Ozark Chinquapin | S2 | G5T3 | | |
| Castanea pumila var. pumila | Chinquapin | SH | G5T5? | | |
| Castilleja purpurea var. purpurea | Purple Paintbrush | SH | G5T4? | | |
| Castilleja sessiliflora | Downy Painted Cup | S2 | G5 | | |
| Cayaponia quinqueloba | A Gourd | S1 | G4 | | |
| Centaurea americana | American basket flower | SH | G5 | | |
| Centrosema virginianum | Coastal Butterfly-pea | SH | G5 | | |
| Ceratophyllum echinatum | Coontail | S1? | G4 | | |
| Chaetopappa asteroides var. asteroides | Common Leastdaisy | S2S3 | G5T3T5 | | |
| Chasmanthium laxum ssp. laxum | Slender Spike Grass | S1 | G5 | | |
| Chasmanthium sessiliflorum | A Spike Grass | S1 | G5 | | |
| Chelone obliqua | Rose Turtlehead | S2 | G4 | | |
| Chenopodium berlandieri var. boscianum | Pitseed Goosefoot | SU | G5T3T5 | | |
| Chenopodium strictum var. glaucophyllum | A Goosefoot | SH | G5TU | | |
| Chimaphila maculata | Spotted Wintergreen | S1 | G5 | | |
| Cicuta maculata var. bolanderi | Common Water Hemlock | SU | G5T3T4 | | |
| Cirsium hillii | Hill's Thistle | SU | G3 | | |
| Cirsium undulatum | Wavy-leaved Thistle | S1 | G5 | | |
| Cissus trifoliata | Marine Vine | S2 | G5 | | |
| Cladium jamaicense | Jamaica Swamp Sawgrass | S1 | G5T5 | | |
| Clematis fremontii | Fremont's Leather Flower | S3 | G5 | | |
| Clematis viorna | A Leatherflower | S1 | G5 | | |
| Cleome serrulata | Rocky Mountain Bee Plant | SH | G5 | | |
| Coeloglossum viride var. virescens | Long-bracted Orchid | S1 | G5T5 | | |
| Coelorachis cylindrica | Joint Grass | S1 | G4G5 | | |
| Coleataenia longifolia ssp. longifolia | Panicgrass | SU | G5T5? | | |
| Conyza canadensis var. pusilla | Fleabane | S1S2 | G5T5 | | |
| Corispermum americanum | American Bugseed | SU | G5? | | |

| <u>SCIENTIFIC NAME</u> | <u>COMMON NAME</u> | <u>SRANK</u> | <u>GRANK</u> | <u>STATE STATUS</u> | <u>FEDERAL STATUS</u> |
|--|-----------------------------|--------------|--------------|---------------------|-----------------------|
| FLOWERING PLANTS (Cont.) | | | | | |
| <i>Corispermum pallasii</i> | A Bugseed | SH | G4? | | |
| <i>Corispermum villosum</i> | Oriental Tick-seed | SU | G4? | | |
| <i>Corydalis aurea</i> ssp. <i>aurea</i> | Golden Corydalis | SU | G5T5 | | |
| <i>Corydalis micrantha</i> ssp. <i>australis</i> | A Corydalis | S2 | G5T5? | | |
| <i>Crataegus berberifolia</i> var. <i>berberifolia</i> | Barberry-leaved Hawthorn | SU | G4G5Q | | |
| <i>Crataegus collina</i> var. <i>lettermanii</i> | Hillside Hawthorn | SU | GNRTNR | | |
| <i>Crataegus collina</i> var. <i>sordida</i> | Hillside Hawthorn | SU | GNRTNR | | |
| <i>Crataegus fecunda</i> | St. Clair Hawthorn | SU | GXC | | |
| <i>Crataegus lanuginosa</i> | Woolly Hawthorn | SU | GH | | |
| <i>Crataegus macrosperma</i> | Eastern Hawthorn | SU | G5 | | |
| <i>Crataegus margarettae</i> var. <i>brownii</i> | Margaret's Hawthorn | SU | G5?TNR | | |
| <i>Crataegus marshallii</i> | Parsley Haw | S1 | G5 | | |
| <i>Crataegus pruinosa</i> var. <i>magnifolia</i> | Frosty Hawthorn | SU | G5TNR | | |
| <i>Crataegus schuettei</i> | Royal Hawthorn | SU | G5? | | |
| <i>Crataegus spathulata</i> | A Hawthorn | S1 | G5 | | |
| <i>Crataegus spes-aestatum</i> | Summers Hawthorn | SU | GNR | | |
| <i>Crataegus succulenta</i> var. <i>succulenta</i> | Succulent Hawthorn | SU | G5T5 | | |
| <i>Crataegus texana</i> var. <i>dasyphylla</i> | Texas Red Hawthorn | SU | GNRTNR | | |
| <i>Crataegus transmississippiensis</i> | A Hawthorn | SU | GNR | | |
| <i>Crataegus viridis</i> var. <i>nitens</i> | Green Hawthorn | SU | G5TNR | | |
| <i>Croton michauxii</i> | Narrowleaf Rushfoil | S1 | G5 | | |
| <i>Cuscuta obtusiflora</i> var. <i>glandulosa</i> | Peruvian Dodder | SU | G5T4T5 | | |
| <i>Cyclachaena xanthiifolia</i> | A Marsh Elder | S1 | G5 | | |
| <i>Cynoscadium digitatum</i> | Finger Dog-shade | S2 | G4G5 | | |
| <i>Cyperus compressus</i> | Coco Grass | S1 | G5 | | |
| <i>Cyperus croceus</i> | Baldwin's Cyperus | S1 | G5 | | |
| <i>Cyperus diandrus</i> | Umbrella Flatsedge | S1 | G5 | | |
| <i>Cyperus flavicomus</i> | An Umbrella Sedge | S1 | G5 | | |
| <i>Cyperus hystrixinus</i> | Flatsedge | S2 | G4 | | |
| <i>Cyperus plukenetii</i> | Plukenet's Cyperus | S2 | G5 | | |
| <i>Cyperus retroflexus</i> | Umbrella Sedge | S1 | G5 | | |
| <i>Cyperus retrofractus</i> | Teasel-like Cyperus | S1S2 | G5 | | |
| <i>Cyperus retrorsus</i> | An umbrella sedge | SH | G5 | | |
| <i>Cyperus schweinitzii</i> | Schweinitz's Flatsedge | S3 | G5 | | |
| <i>Cyperus setigerus</i> | Bristled Cyperus | S1 | G3G5 | | |
| <i>Cypripedium candidum</i> | Small White Lady-slipper | S1 | G4 | | |
| <i>Cypripedium reginae</i> | Showy Lady-slipper | S2S3 | G4G5 | | |
| <i>Dalea enneandra</i> | Nine-anther Dalea | S2 | G5 | | |
| <i>Dalea gattingeri</i> | Gattinger Prairie-clover | S1 | G3G4 | | |
| <i>Dalea multiflora</i> | Round-headed Prairie Clover | SH | G5 | | |
| <i>Dalea villosa</i> var. <i>villosa</i> | Silky Prairie Clover | SU | G5T5 | | |

| <u>SCIENTIFIC NAME</u> | <u>COMMON NAME</u> | <u>SRANK</u> | <u>GRANK</u> | <u>STATE STATUS</u> | <u>FEDERAL STATUS</u> |
|--|--------------------------|--------------|--------------|---------------------|-----------------------|
| FLOWERING PLANTS (Cont.) | | | | | |
| Decodon verticillatus | Swamp Loosestrife | S1 | G5 | | |
| Delphinium exaltatum | Tall Larkspur | S2 | G3 | | |
| Descurainia pinnata ssp. pinnata | Tansy Mustard | S2S3 | G5T5 | | |
| Desmodium ochroleucum | Creamflower Tick Trefoil | SH | G2G3 | | |
| Desmodium strictum | Pineland Tick Trefoil | S2 | G4 | | |
| Desmodium viridiflorum | Velvety Tick Trefoil | S1 | G5? | | |
| Diarrhena americana | American Beakgrass | S1 | G4G5 | | |
| Dichanthelium dichotomum ssp. mattamuskeetense | A Panic Grass | SH | G4? | | |
| Dichanthelium dichotomum var. nitidum | A Panic Grass | S1 | G5TNR | | |
| Dichanthelium leibergii | A Panic Grass | SU | G4 | | |
| Dichanthelium yadkinense | A Panic Grass | S1 | G5T4Q | | |
| Dichondra carolinensis | Pony-foot Grass | S1 | G5 | | |
| Dirca decipiens | Leatherwood | SU | G1G2 | | |
| Distichlis spicata var. spicata | Seashore Salt Grass | S1 | G5TNR | | |
| Doellingeria umbellata var. pubens | Flat-topped White Aster | S1 | G5T5 | | |
| Echinacea angustifolia | Narrow-leaved Coneflower | S1 | G4 | | |
| Echinochloa walteri | A Barnyard Grass | S1 | G5 | | |
| Elatine triandra var. americana | Waterwort | SH | G4 | | |
| Eleocharis atropurpurea | A Spike Rush | S1 | G4G5 | | |
| Eleocharis bifida | Glades Spikerush | S1 | G3G4 | | |
| Eleocharis coloradoensis | Dwarf Spikerush | S1 | G4 | | |
| Eleocharis elliptica var. elliptica | Elliptic Spikesedge | S1 | G5T4?Q | | |
| Eleocharis equisetoides | Horsetail Spike Rush | SH | G4 | | |
| Eleocharis lanceolata | Lance-like Spike Rush | S2 | G4G5 | | |
| Eleocharis parvula | Small Spike Rush | SU | G5 | | |
| Elodea canadensis | Broad Waterweed | SU | G5 | | |
| Elymus churchii | Church's Wildrye | S1 | G3 | | |
| Elymus glaucus ssp. glaucus | Blue Wild Rye | SU | G5T5 | | |
| Epifagus virginiana | Beech Drops | S2 | G5 | | |
| Epilobium leptophyllum | Willow Herb | S1 | G5 | | |
| Eragrostis curtipedicellata | Gummy Lovegrass | S1 | G5 | | |
| Eragrostis glomerata | A Love Grass | S1 | G3G5 | | |
| Eragrostis reptans | Creeping Love Grass | SH | G5 | | |
| Erianthus giganteus | Plume Grass | S1 | G5 | | |
| Erianthus strictus | Narrow Plumegrass | SH | G5 | | |
| Eriogonum longifolium var. longifolium | Umbrella Plant | S2 | G4T4 | | |
| Erysimum capitatum var. capitatum | Western Wallflower | S3? | G5TNR | | |
| Euonymus americanus | Strawberry Bush | S2 | G5 | | |
| Eupatorium album | White Thoroughwort | SU | G5 | | |
| Eupatorium maculatum var. bruneri | Spotted Joe-pye Weed | S1 | G5T5 | | |
| Eupatorium rotundifolium var. scabridum | A Thoroughwort | S1? | G5T3T5 | | |
| Eupatorium semiserratum | A Thoroughwort | S1S2 | G5 | | |

| <u>SCIENTIFIC NAME</u> | <u>COMMON NAME</u> | <u>SRANK</u> | <u>GRANK</u> | <u>STATE STATUS</u> | <u>FEDERAL STATUS</u> |
|---|--------------------------|--------------|--------------|---------------------|-----------------------|
| FLOWERING PLANTS (Cont.) | | | | | |
| Euphorbia geyeri var. geyeri | Geyer's Spurge | S1 | G5T5 | | |
| Euphorbia ouachitana | A Spurge | SU | GNR | | |
| Eurybia furcata | Forked Aster | S2 | G3 | | |
| Eurybia macrophylla | Big-leaved Aster | S2 | G5 | | |
| Festuca sororia | A Fescue | SH | G4 | | |
| Filipendula rubra | Queen of the Prairie | S2 | G4G5 | | |
| Fimbristylis littoralis var. littoralis | A Fimbristylis | S1 | G3G5TNR | | |
| Fimbristylis perpusilla | Harper's Fimbry | SH | G2 | | |
| Floerkea proserpinacoides | False Mermaid | SU | G5 | | |
| Fragaria vesca | Woodland Strawberry | S1 | G5 | | |
| Fraxinus biltmoreana | Biltmore Ash | SU | G5 | | |
| Fuirena simplex var. aristulata | An Umbrella Grass | S2? | G5T4 | | |
| Gaillardia aestivalis var. flavovirens | A Blanket Flower | SH | G5T3T5 | | |
| Galium boreale | Northern Bedstraw | S2 | G5 | | |
| Gaylussacia baccata | Black Huckleberry | S1 | G5 | | |
| Gentiana andrewsii var. andrewsii | Closed Gentian | S1 | G5?T5? | | |
| Geocarpon minimum | Geocarpon | S2 | G2 | E | T |
| Geum fragarioides | Barren Strawberry | S2 | G5T5 | | |
| Gillenia trifoliata | Indian Physic | SH | G4G5 | | |
| Glyceria acutiflora | Sharp-scaled Manna Grass | S3 | G5 | | |
| Glyceria septentrionalis var. arkansana | Eastern Manna Grass | SU | G5 | | |
| Glycyrrhiza lepidota var. lepidota | Wild Licorice | S1 | G5TNRQ | | |
| Gratiola viscidula | Hedge Hyssop | S1 | G4G5 | | |
| Grindelia ciliata | A Goldenweed | S1 | G4G5 | | |
| Helianthium tenellum | Dwarf Burhead | S1 | G5? | | |
| Helenium virginicum | Virginia Sneezeweed | S3 | G3 | E | T |
| Helianthemum canadense | A Rockrose | SU | G5 | | |
| Helianthus angustifolius | Swamp Sunflower | S2 | G5 | | |
| Helianthus decapetalus | Thin-leaved Sunflower | SU | G5 | | |
| Heliotropium curassavicum var. curassavicum | Seaside Heliotrope | S1 | G5T5 | | |
| Heteranthera reniformis | Mud Plantain | SU | G5 | | |
| Heterotheca canescens | Hoary Golden Aster | SH | G5? | | |
| Heuchera parviflora var. parviflora | Little Leaved Alum Root | S1 | G4T4 | | |
| Hottonia inflata | Featherfoil | S2 | G4 | | |
| Houstonia canadensis | Canadian Summer Bluet | S1 | G4G5 | | |
| Houstonia rosea | Rose Bluets | SH | G5 | | |
| Hydrocotyle ranunculoides | Floating Pennywort | S1S2 | G5 | | |
| Hydrocotyle verticillata | Water Pennywort | S1 | G5 | | |
| Hydrolea ovata | Ovate Fiddleleaf | S2 | G5 | | |
| Hypericum adpressum | Creeping St. John's-wort | S1 | G3 | | |
| Hypericum lobocarpum | A St. John's Wort | S1 | G4Q | | |
| Hypericum majus | Greater St. John's-wort | SH | G5 | | |

| <u>SCIENTIFIC NAME</u> | <u>COMMON NAME</u> | <u>SRANK</u> | <u>GRANK</u> | <u>STATE STATUS</u> | <u>FEDERAL STATUS</u> |
|------------------------------------|-----------------------|--------------|--------------|---------------------|-----------------------|
| FLOWERING PLANTS (Cont.) | | | | | |
| Hypericum pyramidatum | Great St. John's-wort | S1 | G4T4 | | |
| Ilex verticillata var. padifolia | Winterberry | S3 | G5TNR | | |
| Isolepis molesta | Gulf Coast Bulrush | SH | G4? | | |
| Isotria medeoloides | Small Whorled Pogonia | SH | G2G3 | E | T |
| Isotria verticillata | Large Whorled Pogonia | S1S2 | G5 | | |
| Juglans cinerea | Butternut | SU | G3 | | |
| Juncus alpinoarticulatus | Richardson Rush | SH | G5 | | |
| Juncus balticus var. littoralis | Baltic Rush | S1 | G5T5 | | |
| Juncus brachyphyllus | Small-headed Rush | S3 | G5 | | |
| Juncus bufonius var. bufonius | Toad Rush | S1 | G5T5 | | |
| Juncus canadensis var. canadensis | Canada Rush | S1 | G5T5 | | |
| Juncus debilis | Weak Rush | S1 | G5 | | |
| Juncus filipendulus | Ringseed Rush | SU | G5 | | |
| Juncus nodosus | Knotted Rush | SH | G5 | | |
| Juncus validus | A Rush | S1 | G5 | | |
| Justicia ovata var. lanceolata | A Water Willow | S2 | G5T4T5 | | |
| Kelloggchloa verrucosa | Warty Panicgrass | S1 | G4 | | |
| Lactuca hirsuta | Hairy Lettuce | S3 | G5? | | |
| Lactuca ludoviciana | Western Lettuce | S1 | G4G5 | | |
| Lactuca tatarica ssp. pulchella | Blue Lettuce | S1 | G5T5 | | |
| Lathyrus pusillus | A Wild Pea | SH | G5? | | |
| Lathyrus venosus | Bushy Vetchling | SU | G5 | | |
| Leavenworthia torulosa | Necklace Goldcress | SU | G4 | | |
| Lechea racemulosa | Illinois Pinweed | SH | G5 | | |
| Leitneria pilosa ssp. ozarkana | Corkwood | S2 | G2G3T2T3 | | |
| Lemna obscura | A Duckweed | SU | G5 | | |
| Lemna trisulca | Star Duckweed | S2 | G5 | | |
| Lemna turionifera | A Duckweed | SH | G5 | | |
| Liatris punctata var. punctata | A Blazing Star | S3 | G5T5 | | |
| Liatris scariosa var. nieuwlandii | A Blazing Star | S2 | G5?T3T5 | | |
| Liatris spicata | Button Snakeroot | SX | G5 | | |
| Lilium philadelphicum var. andinum | Wood Lily | S1 | G5T4T5 | | |
| Lilium superbum | Turk's Cap Lily | S1 | G5 | | |
| Limnobiium spongia ssp. spongia | American Frogbit | S2 | G4 | | |
| Limnoscium pinnatum | Pinnate Dogshade | S1 | G5? | | |
| Limosella aquatica | Mudwort | SH | G5 | | |
| Lindera melissifolia | Pondberry | S1 | G3 | E | E |
| Linum floridanum var. floridanum | Florida Yellow Flax | SU | G5?T5? | | |
| Liparis loeselii | Loesel's Twayblade | S2 | G5 | | |
| Lipocarpha aristulata | Lipocarpha | SH | G5? | | |
| Lipocarpha drummondii | A Lipocarpha | S1 | G4G5 | | |
| Lippia nodiflora | Fog Fruit | SH | G5 | | |
| Listera australis | Southern Twayblade | S1 | G4 | | |
| Lithospermum latifolium | American Gromwell | S2 | G4 | | |
| Lobelia puberula | Downy Lobelia | SH | G5 | | |

| <u>SCIENTIFIC NAME</u> | <u>COMMON NAME</u> | <u>SRANK</u> | <u>GRANK</u> | <u>STATE STATUS</u> | <u>FEDERAL STATUS</u> |
|---|--------------------------------|--------------|--------------|---------------------|-----------------------|
| FLOWERING PLANTS (Cont.) | | | | | |
| Lomatium foeniculaceum ssp. foeniculaceum | Hairy Parsley | S1S3 | G5T5 | | |
| Ludwigia glandulosa ssp. glandulosa | Cylindricfruit Primrose-willow | S2 | G5T5 | | |
| Ludwigia leptocarpa | Primrose Willow | S2 | G5 | | |
| Ludwigia linearis | Narrow-leaved Primrose | S1 | G5 | | |
| Ludwigia microcarpa | A False Loosestrife | S2 | G5 | | |
| Ludwigia repens | A False Loosestrife | SU | G5 | | |
| Lycopus asper | Bugle Weed | SH | G5 | | |
| Lycopus uniflorus | Northern Bugleweed | S1 | G5 | | |
| Lygodesmia juncea | Skeleton Plant | S3 | G5 | | |
| Lyonia mariana | Stagger Bush | SH | G5 | | |
| Lysimachia terrestris | Swamp Candle | S1 | G5 | | |
| Lysimachia thyriflora | Tufted Loosestrife | S1 | G5 | | |
| Maianthemum stellatum | Starry False Solomon's Seal | SU | G5 | | |
| Malus angustifolia | Narrow-leaved Wild Crab | S2 | G5? | | |
| Marshallia caespitosa var. caespitosa | Barbara's Buttons | S3 | G4T4 | | |
| Marshallia caespitosa var. signata | Barbara's Buttons | S1 | G4T4 | | |
| Mecardonia acuminata | Water Hyssop | S1 | G5 | | |
| Medeola virginiana | Indian Cucumber-root | SH | G5 | | |
| Melica mutica | Two-flowered Melic Grass | S1 | G5 | | |
| Melothria pendula | Creeping Cucumber | S3 | G5? | | |
| Menyanthes trifoliata | Bogbean | S1 | G5 | | |
| Mimosa strigillosa | Powderpuff | S1 | G4G5 | | |
| Mimulus glabratus var. jamesii | Roundleaf Monkey Flower | SH | G5T5 | | |
| Minuartia muscorum | Dixie Stitchwort | S1 | GNR | | |
| Mirabilis linearis var. linearis | Narrow-leaved Four-o'clock | SU | G5TNR | | |
| Mitreola petiolata | Miterwort | S1 | G5 | | |
| Moehringia lateriflora | Grove Sandwort | S2S3 | G5 | | |
| Monarda clinopodia | A Horsemint | S1 | G5 | | |
| Monarda punctata var. arkansana | Arkansas Bee Balm | SA | G5TNR | | |
| Monarda punctata var. occidentalis | Dotted Monarda | SA | G5T4T5 | | |
| Monarda punctata var. villicaulis | Horsemint | S3 | G5T5? | | |
| Muhlenbergia asperifolia | Scratchgrass | S1 | G5 | | |
| Muhlenbergia cuspidata | Plains Muhly | SU | G5 | | |
| Muhlenbergia glabrifloris | Inland Muhly | SU | G4? | | |
| Najas flexilis | A Naiad | SH | G5 | | |
| Najas gracillima | Thread-like Naiad | S2 | G5? | | |
| Nemastylis geminiflora | Prairie Iris | S2 | G4 | | |
| Neviusia alabamensis | Snow Wreath | SH | G3 | | |
| Nothocalais cuspidata | Prairie Dandelion | S2 | G5 | | |
| Nyssa biflora | Swamp Black Gum | SH | G5 | | |
| Obolaria virginica | Virginia Pennywort | S2 | G5 | | |
| Oenothera clelandii | Evening Primrose | S2 | G3G5 | | |

| <u>SCIENTIFIC NAME</u> | <u>COMMON NAME</u> | <u>SRANK</u> | <u>GRANK</u> | <u>STATE STATUS</u> | <u>FEDERAL STATUS</u> |
|--|-----------------------------|--------------|--------------|---------------------|-----------------------|
| FLOWERING PLANTS (Cont.) | | | | | |
| Oenothera fruticosa ssp. fruticosa | Shrubby Sundrops | S1 | G5T5 | | |
| Oenothera fruticosa ssp. glauca | Shrubby Sundrops | SH | G5T5 | | |
| Oenothera glaucifolia | Stenosiphon | S2 | G5 | | |
| Oenothera grandis | Cut-leaved Evening Primrose | SU | G5? | | |
| Oenothera nutans | Nodding Evening Primrose | S1S2 | G4 | | |
| Oenothera parviflora | Northern Evening Primrose | SU | G5 | | |
| Oenothera perennis | Small Sundrops | S1 | G5 | | |
| Oenothera rhombipetala | An Evening Primrose | SH | G4G5 | | |
| Oenothera suffrutescens | Scarlet Gaura | S1 | G5 | | |
| Oenothera triloba | Stemless Evening Primrose | S2 | G4 | | |
| Oldenlandia boscai | A Bluet | S1 | G5 | | |
| Oldenlandia uniflora | Clustered Bluets | S1 | G5 | | |
| Opuntia macrorhiza var. macrorhiza | Low Prickly Pear | S2 | G5T5 | | |
| Orobanche ludoviciana | A Broomrape | S1 | G5 | | |
| Orobanche riparia | A Broomrape | S1 | G4? | | |
| Oxytropis lambertii var. lambertii | Locoweed | S2 | G5TNR | | |
| Packera tomentosa | Hairy Groundsel | SH | G4G5 | | |
| Paronychia virginica | Virginia Whitlow Wort | S1 | G4 | | |
| Paspalum bifidum | Pitchfork Paspalum | S1 | G5 | | |
| Paspalum dissectum | Mudbank Paspalum | SH | G4? | | |
| Paspalum setaceum var. setaceum | Slender Paspalum | S1 | G5T5 | | |
| Patis racemosa | Black-seeded Mountain Rice | S1 | G5 | | |
| Pediomelum argophyllum | Silvery Psoralea | S2 | G5 | | |
| Peltandra virginica ssp. virginica | Arrow Arum | S2 | G5T5 | | |
| Penstemon cobaea var. purpureus | Purple Beard-tongue | S3 | G4TNRQ | | |
| Penstemon grandiflorus | Large Beard-tongue | S1 | G5? | | |
| Penstemon tenuis | Gulf Coast Beard-tongue | SU | G4 | | |
| Perideridia americana | Eastern Eulophus | S2 | G4 | | |
| Persicaria amphibia var. stipulacea | Water Smartweed | S1 | G5T5 | | |
| Persicaria arifolia | Halberd-leaved Tear Thumb | S1 | G5 | | |
| Persicaria bicornis | Pink Smartweed | SU | GNR | | |
| Persicaria glabra | Dense-flower Smartweed | S1S2 | G5 | | |
| Persicaria robustior | Dotted Smartweed | SH | G4G5 | | |
| Phacelia covillei | Coville's Phacelia | S1 | G3 | | |
| Philadelphus pubescens var. verrucosus | Mock Orange | S1 | G5?TU | | |
| Phlox amplifolia | Large-leaved Phlox | S3? | G3G5 | | |
| Phlox bifida | Bifid Phlox | S1 | G5? | | |
| Phlox maculata ssp. pyramidalis | Wild Sweet William | S2 | G5T4T5 | | |
| Phyllanthus polygonoides | Knotweed Leaf-flower | S1 | G5 | | |

| <u>SCIENTIFIC NAME</u> | <u>COMMON NAME</u> | <u>SRANK</u> | <u>GRANK</u> | <u>STATE STATUS</u> | <u>FEDERAL STATUS</u> |
|---|--------------------------------|--------------|--------------|---------------------|-----------------------|
| FLOWERING PLANTS (Cont.) | | | | | |
| Physalis grisea | Strawberry-tomato | SU | G5? | | |
| Physalis missouriensis | Missouri Groundcherry | SU | G5? | | |
| Physaria filiformis | Missouri Bladderpod | S3 | G3 | E | T |
| Physostegia intermedia | A False Dragonhead | S1 | G5 | | |
| Planera aquatica | Water Elm | SU | G5 | | |
| Plantago heterophylla | Slender Plantain | SU | G5 | | |
| Plantago patagonica | Woolly Plantain | S2 | G5 | | |
| Platanthera ciliaris | Yellow-fringed Orchid | S1 | G5 | | |
| Platanthera clavellata | Green Wood Orchid | S2 | G5 | | |
| Platanthera flava var. flava | Pale Green Orchid | S2 | G4?T4?Q | | |
| Platanthera flava var. herbiola | Northern Rein Orchid | S2 | G4?T4Q | | |
| Platanthera leucophaea | Eastern Prairie Fringed Orchid | S1 | G2G3 | E | T |
| Platanthera praeclara | Western Prairie Fringed Orchid | S1 | G3 | E | T |
| Platanthera psycodes | Small Purple-fringed Orchid | SX | G5 | | |
| Pluchea foetida var. foetida | March Fleabane | SH | G5T5 | | |
| Pogonia ophioglossoides | Snake-mouth Orchid | S1 | G5 | | |
| Polygonum americanum | Jointweed | S2 | G5 | | |
| Polymnia laevigata | Smooth Leaf-cup | SX | G3 | | |
| Populus grandidentata | Big-toothed Aspen | S1 | G5 | | |
| Populus tremuloides | Quaking Aspen | S2 | G5 | | |
| Portulaca pilosa | Kiss Me Quick | SU | G5 | | |
| Potamogeton epihydrus | Nuttall Pondweed | SH | G5 | | |
| Potamogeton pulcher | Spotted Pondweed | S2S3 | G5 | | |
| Potamogeton pusillus var. pusillus | Slender Pondweed | S3 | G5T5 | | |
| Potentilla supina ssp. paradoxa | Bushy Cinquefoil | S2 | G5T5 | | |
| Prenanthes racemosa | Rattlesnake Root | SH | G5 | | |
| Primula fassettii | Amethyst Shooting Star | S2 | G4 | | |
| Primula frenchii | French's Shooting Star | S1 | G3? | | |
| Proserpinaca palustris var. palustris | Mermaid Weed | SU | G5T5 | | |
| Pseudognaphalium helleri | Heller's Cudweed | SU | G4G5 | | |
| Pseudognaphalium micradenium | Rabbit Tobacco | SU | G4G5T3? | | |
| Ptilimnium capillaceum | Mock Bishop's Weed | SH | G5 | | |
| Pycnanthemum muticum | Blunt Mountain Mint | S2 | G5 | | |
| Pycnanthemum torrei | Torrey Mountain Mint | SH | G2 | | |
| Quercus ellipsoidalis | Northern Pin Oak | S1 | G5 | | |
| Quercus margarettiae | Sand Post Oak | SRF | G5 | | |
| Quercus nigra | Water Oak | S2 | G5 | | |
| Quercus prinoides | Dwarf Chinquapin Oak | S3? | G5 | | |
| Quercus texana | Nuttall's Oak | S2 | G4G5 | | |
| Ranunculus cymbalaria | Seaside Crowfoot | SH | G5 | | |
| Rhynchosia difformis | Double-formed Snoutbean | S1 | G5? | | |
| Rhynchospora globularis var. globularis | Globe Beaksedge | S1 | G5?T5? | | |
| Rhynchospora glomerata | Clustered Beaksedge | SU | G5 | | |

| <u>SCIENTIFIC NAME</u> | <u>COMMON NAME</u> | <u>SRANK</u> | <u>GRANK</u> | <u>STATE STATUS</u> | <u>FEDERAL STATUS</u> |
|---|----------------------------|--------------|--------------|---------------------|-----------------------|
| FLOWERING PLANTS (Cont.) | | | | | |
| Rhynchospora harveyi | Harvey's Beak-rush | S1 | G4 | | |
| Rhynchospora macrostachya var. macrostachya | Horned Rush | S1 | G4T4Q | | |
| Rhynchospora scirpoides | Longbeak Beaksedge | SU | G4 | | |
| Ribes americanum | Gooseberry | S1 | G5 | | |
| Rorippa aquatica | Lake Cress | S2 | G4? | | |
| Rorippa tenerrima | Modoc Yellowcress | S1 | G5 | | |
| Rosa blanda | Smooth Rose | S1 | G5 | | |
| Rosa foliolosa | White Prairie Rose | S1 | G5 | | |
| Rubus plicatifolius | A Blackberry | SU | G5 | | |
| Rubus rosa | Rose Blackberry | SU | G5 | | |
| Rubus satis | Ithaca Blackberry | SU | G4G5Q | | |
| Rudbeckia amplexicaulis | Clasping Leaved Coneflower | S1 | G5 | | |
| Rudbeckia bicolor | Pine-woods Coneflower | S1 | G3G5 | | |
| Rudbeckia grandiflora var. grandiflora | Rough Coneflower | S1 | G5T4? | | |
| Ruppia maritima | Ditch Grass | S1 | G5 | | |
| Sabatia brachiata | Marsh Pink | S1 | G5? | | |
| Sacciolepis striata | American Cupscale | S1 | G5 | | |
| Sagina procumbens | Matted Pearlwort | SU | G5 | | |
| Sagittaria ambigua | Kansas Arrowhead | S1 | G2? | | |
| Sagittaria platyphylla | Ovate-leaved Arrowhead | S1 | G5 | | |
| Salix discolor | Pussy Willow | S1 | G5 | | |
| Salix famelica | Diamond Willow | SU | G5 | | |
| Salix petiolaris | Meadow Willow | S1 | G5 | | |
| Sambucus pubens | Red-berried Elderberry | S1 | G4G5Q | | |
| Sanicula smallii | Black Snakeroot | SH | G5 | | |
| Sapindus saponaria var. drummondii | Soapberry | S2 | G5T5 | | |
| Schoenoplectiella hallii | Hall's Bulrush | S2 | G3 | | |
| Schoenoplectiella purshiana | Weakstalk Bulrush | S2 | G4G5 | | |
| Schoenoplectiella saximontana | Rocky Mountain Bulrush | S1 | G5 | | |
| Schoenoplectus americanus | Olney's Bulrush | SH | G5 | | |
| Schoenoplectus californicus | Giant Bulrush | S1 | G5 | | |
| Schoenoplectus deltarum | Delta Bulrush | SH | G3G4 | | |
| Schoenoplectus etuberculatus | Canby's Bulrush | SH | G3G4 | | |
| Schoenoplectus heterochaetus | Giant Bulrush | SU | G5 | | |
| Schoenoplectus subterminalis | Swaying Rush | S1 | G5 | | |
| Schoenoplectus torreyi | Torrey's Bulrush | SH | G5? | | |
| Scirpus divaricatus | A Bulrush | SH | G5 | | |
| Scirpus pallidus | Pale Bulrush | S2 | G5 | | |
| Scirpus pedicellatus | A Bulrush | S2 | G4 | | |
| Scleria reticularis var. pubescens | Muhlenberg's Nut-rush | S1 | G5 | | |
| Scrophularia lanceolata | Early Figwort | SH | G5 | | |
| Scutellaria elliptica var. hirsuta | Hairy Skullcap | SH | G5T5 | | |
| Scutellaria galericulata | Marsh Skullcap | S1 | G5 | | |
| Sida elliotii | Elliott Sida | S1 | G4G5 | | |

| <u>SCIENTIFIC NAME</u> | <u>COMMON NAME</u> | <u>SRANK</u> | <u>GRANK</u> | <u>STATE STATUS</u> | <u>FEDERAL STATUS</u> |
|--|---------------------------|--------------|--------------|---------------------|-----------------------|
| FLOWERING PLANTS (Cont.) | | | | | |
| <i>Sisyrinchium atlanticum</i> | Eastern Blue-eyed Grass | S2 | G5 | | |
| <i>Smilax illinoensis</i> | Carrion Flower | S2S3 | G4? | | |
| <i>Solanum elaeagnifolium</i> | White Horse Nettle | SU | G4G5 | | |
| <i>Solidago riddellii</i> | Riddell's Goldenrod | S3 | G5 | | |
| <i>Solidago rigida</i> ssp. <i>humilis</i> | Stiff Goldenrod | SU | G5T5 | | |
| <i>Spermolepis diffusa</i> | Rough-fruit Spermolepis | S1 | GNR | | |
| <i>Sphenopholis pensylvanica</i> | Swamp Oats | SH | G4 | | |
| <i>Spiraea alba</i> var. <i>alba</i> | Meadow-sweet | S1 | G5T5 | | |
| <i>Spiraea tomentosa</i> | Hardhack | S1 | G5 | | |
| <i>Spiranthes praecox</i> | Greenvein Ladies' Tresses | S1 | G5 | | |
| <i>Sporobolus airoides</i> | Alkali Sacaton | SH | G5 | | |
| <i>Stachys aspera</i> | Hedge Nettle | SH | G4? | | |
| <i>Steinchisma hians</i> | Gaping Panic Grass | S3 | G5 | | |
| <i>Stylisma pickeringii</i> var. <i>pattersonii</i> | A Stylisma | S1 | G4T4 | | |
| <i>Styrax grandifolius</i> | Bigleaf Snowbell | SU | G5 | | |
| <i>Sullivantia sullivantii</i> | Sullivantia | S2 | G4 | | |
| <i>Symphoricarpos occidentalis</i> | Wolfberry | S1 | G5 | | |
| <i>Symphyotrichum ciliatum</i> | Rayless Alkali Aster | SH | G5 | | |
| <i>Symphyotrichum patens</i> var. <i>gracile</i> | Spreading Aster | SU | G5T4T5 | | |
| <i>Symphyotrichum racemosum</i> var. <i>subdumosum</i> | Small White Aster | S2 | G4G5T3T5Q | | |
| <i>Thalia dealbata</i> | Water Canna | S2 | G4 | | |
| <i>Thelesperma filifolium</i> | Thelesperma | S2 | G4G5 | | |
| <i>Tilia americana</i> var. <i>heterophylla</i> | White Basswood | SU | G5T5 | | |
| <i>Tipularia discolor</i> | Cranefly Orchid | S3 | G4G5 | | |
| <i>Torreyochloa pallida</i> var. <i>pallida</i> | Pale Manna Grass | S1 | G5T5? | | |
| <i>Tradescantia ozarkana</i> | Ozark Spiderwort | S2 | G3 | | |
| <i>Tragia cordata</i> | Heart-leaved Noseburn | S2 | G4 | | |
| <i>Trautvetteria caroliniensis</i> | False Bugbane | S2 | G5 | | |
| <i>Trepocarpus aethusae</i> | Trepocarpus | S1 | G4G5 | | |
| <i>Triadenum tubulosum</i> | Marsh St. John's Wort | S1 | G4? | | |
| <i>Trichostema setaceum</i> | Blue Curls | S1 | G5 | | |
| <i>Tridens flavus</i> var. <i>chapmanii</i> | A Grass | S2 | G5T3 | | |
| <i>Tridens muticus</i> var. <i>elongatus</i> | Slim Tridens | SH | G5T4? | | |
| <i>Trifolium carolinianum</i> | Carolina Clover | S1 | G5 | | |
| <i>Trifolium stoloniferum</i> | Running Buffalo Clover | S1 | G3 | E | |
| <i>Trillium nivale</i> | Snow Trillium | S3 | G4 | | |
| <i>Trillium pusillum</i> var. <i>ozarkanum</i> | Ozark Wake Robin | S2 | G4T3 | | |
| <i>Triodanis holzingeri</i> | A Venus' Looking Glass | SH | G4 | | |
| <i>Triodanis lamprosperma</i> | A Venus' Looking Glass | S2 | G5? | | |
| <i>Turritis glabra</i> | Tower Mustard | S1 | G5 | | |
| <i>Typha domingensis</i> | Southern Cattail | S1 | G4G5 | | |
| <i>Ulmus crassifolia</i> | Cedar Elm | S1 | G5 | | |
| <i>Ulmus thomasii</i> | Rock Elm | S2 | G5 | | |
| <i>Urtica chamaedryoides</i> | Weak Nettle | S1 | G4G5 | | |

| <u>SCIENTIFIC NAME</u> | <u>COMMON NAME</u> | <u>SRANK</u> | <u>GRANK</u> | <u>STATE STATUS</u> | <u>FEDERAL STATUS</u> |
|---|---------------------------|--------------|--------------|---------------------|-----------------------|
| FLOWERING PLANTS (Cont.) | | | | | |
| <i>Utricularia minor</i> | Lesser Bladderwort | S1 | G5 | | |
| <i>Utricularia subulata</i> | Slender Bladderwort | S1 | G5 | | |
| <i>Valerianella ozarkana</i> | Ozark Corn Salad | S2 | G3 | | |
| <i>Veronica americana</i> | American Brooklime | SH | G5 | | |
| <i>Viburnum bracteatum</i> | Ozark Arrow Wood | S1S2 | G3 | | |
| <i>Viburnum dentatum</i> | Southern Arrow-wood | S1 | G5 | | |
| <i>Viburnum lentago</i> | Nannyberry | S1 | G5 | | |
| <i>Viburnum recognitum</i> | Northern Arrow-wood | S1 | G4G5 | | |
| <i>Vicia americana</i> | American Vetch | S1 | G5 | | |
| <i>Vicia ludoviciana</i> ssp. <i>leavenworthii</i> | Louisiana Vetch | SH | G5T5 | | |
| <i>Vicia minutiflora</i> | Pygmy-flowered Vetch | SH | G5 | | |
| <i>Viola affinis</i> | Sand Violet | S1 | G5 | | |
| <i>Viola pallens</i> | Smooth White Violet | S2 | G5T5 | | |
| <i>Vitis rotundifolia</i> var. <i>rotundifolia</i> | Muscadine | S1 | G5T5 | | |
| <i>Wolffia borealis</i> | Dotted Watermeal | SU | G5 | | |
| <i>Wolffia columbiana</i> | Columbia Water-meal | SU | G5 | | |
| <i>Wolffiella gladiata</i> | Wolffiella | S1 | G5 | | |
| <i>Xyris jupicai</i> | Yellow-eyed-grass | S1 | G5 | | |
| <i>Xyris torta</i> | Yellow-eyed Grass | S1 | G5 | | |
| <i>Yucca arkansana</i> | Arkansas Yucca | S2 | G5 | | |
| <i>Yucca glauca</i> | Small Soapweed Yucca | S2 | G5 | | |
| <i>Zannichellia palustris</i> var. <i>major</i> | Horned Pondweed | S3? | G5TNR | | |
| <i>Zigadenus elegans</i> ssp. <i>glaucus</i> | White Camas | S2 | G5T4T5 | | |
| <i>Zigadenus nuttallii</i> | Death Camas | S1 | G5 | | |
| <i>Zizania palustris</i> var. <i>interior</i> | Interior Wild Rice | SH | G5T4T5 | | |
| Total Flowering Plant Records: 539 | | | | | |
| FLATWORMS | | | | | |
| <i>Kenkia glandulosa</i> | Pink Planarian | S1 | G2G3 | | |
| <i>Macrocotyla lewisi</i> | Lewis' Cave Planarian | S1 | G1 | | |
| <i>Sphalloplana evaginata</i> | Perryville Cave Planarian | S1 | G1G2 | | |
| <i>Sphalloplana hubrichti</i> | Hubricht's Cave Planarian | S1 | G2G4 | | |
| Total Flatworm Records: 4 | | | | | |
| MOLLUSKS | | | | | |
| <i>Alasmidonta marginata</i> | Elktoe | S2 | G4 | | |
| <i>Alasmidonta viridis</i> | Slippershell Mussel | S1 | G4G5 | E | |
| <i>Amnicola stygius</i> | Stygian Amnicola | S1 | G1 | | |
| <i>Anodontooides ferussacianus</i> | Cylindrical Papershell | S1 | G5 | | |
| <i>Antrobia culveri</i> | Tumbling Creek Cavesnail | S1 | G1 | E | E |
| <i>Arcidens confragosus</i> | Rock Pocketbook | S3 | G4 | | |
| <i>Campeloma crassulum</i> | Ponderous Campeloma | SU | G5 | | |
| <i>Cochlicopa morseana</i> | Appalachian Pillar | S3 | G5 | | |
| <i>Cumberlandia monodonta</i> | Spectaclecase | S3 | G3 | E | E |
| <i>Cyclonaias nodulata</i> | Wartyback | S3 | G4 | | |
| <i>Cyprogenia aberti</i> | Western Fanshell | S2 | G2G3Q | | |

| <u>SCIENTIFIC NAME</u> | <u>COMMON NAME</u> | <u>SRANK</u> | <u>GRANK</u> | <u>STATE STATUS</u> | <u>FEDERAL STATUS</u> |
|-----------------------------------|--------------------------|--------------|--------------|---------------------|-----------------------|
| MOLLUSKS (Cont.) | | | | | |
| <i>Discus nigrimontanus</i> | Black Mountain Disc | S3 | G4 | | |
| <i>Elliptio crassidens</i> | Elephantear | S1 | G5 | E | |
| <i>Epioblasma curtisii</i> | Curtis Pearlymussel | S1 | G1 | E | E |
| <i>Epioblasma triquetra</i> | Snuffbox | S1 | G3 | E | E |
| <i>Fontigens aldrichi</i> | Hoosier Springsnail | S4 | G4 | | |
| <i>Fontigens antroecetes</i> | Missouri Cavesnail | S2 | G2 | | |
| <i>Fontigens proserpina</i> | Proserpine Cavesnail | S1 | G1 | | |
| <i>Gastrocopta abbreviata</i> | Plains Snaggletooth | S1 | G4 | | |
| <i>Gastrocopta cristata</i> | Crested Snaggletooth | S1 | G5 | | |
| <i>Gastrocopta pellucida</i> | Slim Snaggletooth | S1 | G5 | | |
| <i>Gastrocopta similis</i> | Great Lakes Snaggletooth | S2 | G5 | | |
| <i>Glyphyalinia solida</i> | Imperforate Glyph | S1 | G5 | | |
| <i>Glyphyalinia wheatleyi</i> | Bright Glyph | S1 | G5 | | |
| <i>Hawaiia alachuana</i> | Southeastern Gem | S1 | G4G5Q | | |
| <i>Hendersonia occulta</i> | Cherrystone Drop | S1 | G4 | | |
| <i>Lampsilis abrupta</i> | Pink Mucket | S2 | G1G2 | E | E |
| <i>Lampsilis brittsi</i> | Northern Brokenray | S3 | G3 | | |
| <i>Lampsilis higginsii</i> | Higgins Eye | S1 | G1G2 | E | E |
| <i>Lampsilis rafinesqueana</i> | Neosho Mucket | S2 | G1 | E | E |
| <i>Leunio lienosus</i> | Little Spectaclecase | S3 | G5 | | |
| <i>Leptoxis arkansensis</i> | Arkansas Mudalia | S1 | G1 | | |
| <i>Ligumia recta</i> | Black Sandshell | S2 | G4G5 | | |
| <i>Lioplax sulculosa</i> | Furrowed Lioplax | S1 | G5 | | |
| <i>Lucilla singleyanus</i> | Smooth Coil | S1 | G5 | | |
| <i>Marstonia ozarkensis</i> | Ozark Pyrg | SH | G1 | | |
| <i>Marstonia scalariformis</i> | Moss Pyrg | S1 | G1 | | |
| <i>Mesodon mitchellianus</i> | Sealed Goblet | S1 | G4 | | |
| <i>Micromenetus sampsoni</i> | Sampson Sprite | S2 | G2G3Q | | |
| <i>Millerelix deltoidea</i> | Oklahoma Liptooh | SH | G2 | | |
| <i>Neohelix divesta</i> | Ozark Whitelip | S3 | G3G4 | | |
| <i>Obovaria arkansasensis</i> | Southern Hickorynut | S1 | GNR | | |
| <i>Obovaria olivaria</i> | Hickorynut | S3 | G4 | | |
| <i>Oxyloma retusum</i> | Blunt Ambersnail | S1 | G5 | | |
| <i>Paravitrea simpsoni</i> | Amber Supercoil | S1 | G4 | | |
| <i>Patera pennsylvanica</i> | Proud Globelet | S2 | G4 | | |
| <i>Patera perigrapta</i> | Engraved Bladetooth | S1 | G5 | | |
| <i>Plectomerus dombeyanus</i> | Bankclimber | S3 | G5 | | |
| <i>Plethobasus cyphus</i> | Sheepnose | S2 | G3 | E | E |
| <i>Pleurocera alveare</i> | Rugged Hornsnail | S1S3 | G3 | | |
| <i>Potamilus capax</i> | Fat Pocketbook | S1 | G2 | E | E |
| <i>Potamilus leptodon</i> | Scaleshell | S1 | G1G2 | E | E |
| <i>Ptychobranhus occidentalis</i> | Ouachita Kidneyshell | S3 | G3G4 | | |
| <i>Quadrula fragosa</i> | Winged Mapleleaf | S1 | G1 | E | E |
| <i>Reginaia ebenus</i> | Ebonysnail | S1 | G4G5 | E | |
| <i>Simpsonaias ambigua</i> | Salamander Mussel | S1 | G3 | E | |
| <i>Somatogyrus depressus</i> | Sandbar Pebblesnail | S2 | G2 | | |
| <i>Somatogyrus rosewateri</i> | Elk Pebblesnail | S1 | G1 | | |

| <u>SCIENTIFIC NAME</u> | <u>COMMON NAME</u> | <u>SRANK</u> | <u>GRANK</u> | <u>STATE STATUS</u> | <u>FEDERAL STATUS</u> |
|----------------------------------|--------------------------------------|--------------|--------------|---------------------|-----------------------|
| MOLLUSKS (Cont.) | | | | | |
| Stagnicola elodes | Marsh Pondsnailed | S2 | G5 | | |
| Stenotrema blandianum | Missouri Slitmouth | S2 | G2 | | |
| Stenotrema labrosum | Ozark Slitmouth | S2 | G3G4 | | |
| Stenotrema stenotrema | Inland Slitmouth | S3 | G5 | | |
| Strobilops affinis | Eightfold Pinecone | S1 | G4 | | |
| Theliderma cylindrica | Rabbitsfoot | S1 | G3G4 | E | T |
| Toxolasma lividum | Purple Lilliput | S1 | G3 | | |
| Toxolasma texasiense | Texas Lilliput | S3 | G4 | | |
| Triodopsis cragini | Post Oak Threetooth | S1 | G4 | | |
| Triodopsis discoidea | Rivercliff Threetooth | S1 | G3 | | |
| Triodopsis neglecta | Ozark Threetooth | S2 | G3 | | |
| Utterbackiana suborbiculata | Flat Floater | S2 | G5 | | |
| Vallonia excentrica | Iroquois Vallonia | S3 | G5 | | |
| Vallonia gracilicosta | Multirib Vallonia | S1 | G5 | | |
| Ventridens demissus | Perforate Dome | SU | G5 | | |
| Vertigo meramecensis | Bluff Vertigo | S3 | G2G3 | | |
| Vertigo oscariana | Capital Vertigo | S1 | G4 | | |
| Zonitoides limatulus | Dull Gloss | S1 | G4G5 | | |
| Total Mollusk Records: 76 | | | | | |
| ARACHNIDS | | | | | |
| Apochthonius mysterius | Mystery Cave Pseudoscorpion | S1 | G1G2 | | |
| Apochthonius typhlus | Stone County Cave Pseudoscorpion | S1 | G1G2 | | |
| Hesperochernes occidentalis | Guano Pseudoscorpion | S3 | G5 | | |
| Mundochthonius cavernicolus | Cavernicolous Pseudoscorpion | SU | G1G2 | | |
| Phanetta subterranea | Subterranean Cave Spider | S1 | G5 | | |
| Porrhomma cavernicola | Cavernicolous Porrhomma Spider | S2 | G5 | | |
| Total Arachnid Records: 6 | | | | | |
| CRUSTACEANS | | | | | |
| Allocrangonyx hubrichti | Hubricht's Long-tailed Amphipod | S3 | G2G3 | | |
| Bactrurus brachycaudus | Short-tailed Groundwater Amphipod | S4 | G4 | | |
| Bactrurus hubrichti | Sword-tail Cave Amphipod | S1 | G4 | | |
| Bactrurus pseudomucronatus | False Sword-tailed Cave Amphipod | S2 | G2G3 | | |
| Brackenridgia ashleyi | Ashley's Isopod | S2 | G1G3 | | |
| Caecidotea antricola | A Cave Obligate Isopod | S4 | G5 | | |
| Caecidotea dimorpha | An Isopod | S1S3 | G2G3 | | |
| Caecidotea fustis | Fustis Cave Isopod | S2 | G2G3 | | |
| Caecidotea salemensis | Salem Cave Isopod | S2 | G4 | | |
| Caecidotea serrata | Serrated Cave Isopod | S1 | G1G2 | | |
| Caecidotea stiladactyla | Slender-fingered Cave Isopod | S1 | G3G4 | | |

| <u>SCIENTIFIC NAME</u> | <u>COMMON NAME</u> | <u>SRANK</u> | <u>GRANK</u> | <u>STATE STATUS</u> | <u>FEDERAL STATUS</u> |
|-------------------------------------|--------------------------------|--------------|--------------|---------------------|-----------------------|
| CRUSTACEANS (Cont.) | | | | | |
| Caecidotea stygia | Stygian Cave Isopod | S1 | G5 | | |
| Cambarellus puer | Swamp Dwarf Crayfish | S3? | G5 | | |
| Cambarellus shufeldtii | Cajun Dwarf Crayfish | S3? | G5 | | |
| Cambarus aculabrum | Benton County Cave Crayfish | SP | G1 | | E |
| Cambarus hubrichti | Salem Cave Crayfish | S3 | G4 | | |
| Cambarus maculatus | Freckled Crayfish | S3 | G4 | | |
| Cambarus setosus | Bristly Cave Crayfish | S3 | G3 | | |
| Creaserinus fodiens | Digger Crayfish | S2S3 | G5 | | |
| Diacyclops yeatmani | Yeatman's Groundwater Copepod | S1S3 | G2G3 | | |
| Faxonella clypeata | Ditch Fencing Crayfish | S2S3 | G5 | | |
| Faxonius eupunctus | Coldwater Crayfish | S1 | G2 | E | |
| Faxonius harrisonii | Belted Crayfish | S3 | G3 | | |
| Faxonius lancifer | Shrimp Crayfish | S1S2 | G5 | | |
| Faxonius marchandi | Mammoth Spring Crayfish | S1S2 | G2 | | |
| Faxonius medius | Saddleback Crayfish | S3 | G4 | | |
| Faxonius meeki meeki | Meek's Crayfish | S1 | G4T4 | | |
| Faxonius neglectus chaenodactylus | Gap Ringed Crayfish | S3 | G5T3 | | |
| Faxonius peruncus | Big Creek Crayfish | S2 | G2 | | PT |
| Faxonius quadruncus | St. Francis River Crayfish | S2 | G2 | | PT |
| Faxonius roberti | Spring River Crayfish | SH | GNR | E | |
| Faxonius wagneri | Eleven Point River Crayfish | S1 | GNR | | |
| Faxonius williamsi | Williams' Crayfish | S2 | G3 | | |
| Lacunicambarus ludovicianus | Painted Devil Crayfish | SU | G5 | | |
| Lacunicambarus polychromatus | Paintedhand Mudbug | S1S2 | G5 | | |
| Lirceus megapodus | An Isopod | SU | GNR | | |
| Macrobrachium ohione | Ohio Shrimp | S1 | G4 | | |
| Orconectes stygocaneyi | Caney Mountain Cave Crayfish | S1 | G1 | E | |
| Procambarus liberorum | Osage Burrowing Crayfish | S2S3 | G4 | | |
| Procambarus viaeviridis | Vernal Crayfish | S3? | G5 | | |
| Stygebromus barri | Barr's Groundwater Amphipod | S1S3 | G2G3 | | |
| Stygebromus clantoni | Clanton's Groundwater Amphipod | S1S3 | G4 | | |
| Stygebromus heteropodus | Pickle Springs Amphipod | SX | G1G2 | | |
| Stygebromus onondagaensis | Onondaga Cave Amphipod | S3? | G3 | | |
| Stygebromus ozarkensis | Ozark Cave Amphipod | S3? | G4 | | |
| Stygebromus subtilis | Subtle Groundwater Amphipod | S1S3 | G2 | | |
| Triops longicaudatus | Longtail Tadpole Shrimp | SU | G5 | | |
| Total Crustacean Records: 47 | | | | | |
| MILLIPEDES | | | | | |
| Causeyella dendropus | Causeyella Cave Millipede | S2 | G1G3 | | |
| Chaetaspis aleyorum | Aleys' Cave Millipede | S1 | G1 | | |

| <u>SCIENTIFIC NAME</u> | <u>COMMON NAME</u> | <u>SRANK</u> | <u>GRANK</u> | <u>STATE STATUS</u> | <u>FEDERAL STATUS</u> |
|-----------------------------------|----------------------------|--------------|--------------|---------------------|-----------------------|
| MILLIPEDES (Cont.) | | | | | |
| Tingupa pallida | Tingupa Cave Millipede | S4 | G4 | | |
| Zosteractis interminata | Zosteractis Cave Millipede | SU | G2G3 | | |
| Total Millipede Records: 4 | | | | | |
| INSECTS | | | | | |
| Acroneuria ozarkensis | Ozark Stone | S2 | G2 | | |
| Adalia bipunctata | Two Spotted Lady Beetle | SH | G5 | | |
| Agapetus artesus | Artesian Agapetus | S3 | G3 | | |
| | Caddisfly | | | | |
| Aleochara speculicollis | A Staphylinid Beetle | SU | GNR | | |
| Allocapnia pygmaea | Pygmy Snowfly | S3 | G5 | | |
| Alloperla hamata | Barbed Sallfly | S3 | G4 | | |
| Alloperla leonarda | Truncate Sallfly | S3 | G4 | | |
| Amblyscirtes linda | Linda's Roadside Skipper | S2S3 | G2G3 | | |
| Amblytropidia mysteca | A Glade Grasshopper | SU | G5 | | |
| Amphiagrion saucium | Eastern Red Damsel | S2 | G5 | | |
| Andrena beameri | An Andrenid Bee | S3 | GNR | | |
| Argia alberta | Paiute Dancer | S1 | G4 | | |
| Arigomphus maxwelli | Bayou Clubtail | SU | G5 | | |
| Arrhopalites clarus | Clarus Cave Springtail | S3 | G4 | | |
| Atrytone arogos | Arogos Skipper | S2 | G2G3 | | |
| Atrytonopsis hianna | Dusted Skipper | S3 | G4G5 | | |
| Attaneuria ruralis | Giant Stone | S3 | G4 | | |
| Baetisca obesa | A Mayfly | S3 | G5 | | |
| Beameria venosa | A Concealed-tymbal | S3 | GNR | | |
| | Cicada | | | | |
| Biblopectus chickasaw | A Staphylinid Beetle | SU | GNR | | |
| Bombus affinis | Rusty-patched Bumble Bee | SA | G2 | | E |
| Bombus fervidus | Yellow Bumblebee | S1 | G3G4 | | |
| Calephelis borealis | Northern Metalmark | S1 | G3 | | |
| Calephelis muticum | Swamp Metalmark | S3 | G3 | | |
| Catocala abbreviatella | Abbreviated Underwing | S2S3 | G3G4 | | |
| Catocala dulciola | Quiet Underwing | S1S2 | G3 | | |
| Catocala marmorata | Marbled Underwing Moth | S3 | G3G4 | | |
| Catocala pretiosa texarkana | Precious Underwing Moth | S3? | G4T4 | | |
| Catocala whitneyi | Whitney's Underwing | S1 | G2G3 | | |
| Chalybion zimmermanni | A Blue Mud Dauber | SU | GNR | | |
| | zimmermanni | | | | |
| Coccinella novemnotata | Nine-spotted Lady Beetle | SH | G5 | | |
| Conocephalus saltans | Prairie Meadow Katydid | S3 | G5 | | |
| Cylindera celeripes | Swift Tiger Beetle | S1 | G2G4 | | |
| Deinopsis virginiana | A Staphylinid Beetle | SU | GNR | | |
| Derops divalis | A Staphylinid Beetle | S3 | GNR | | |
| Dianthidium texanum | A Leafcutter Bee | S1 | GNR | | |
| Dichagyris reliqua | A Noctuid Moth | S1 | G2G3 | | |
| Dromochorus pruinina | Loamy-ground Tiger Beetle | S1 | GNR | | |
| Erynnis martialis | Mottled Duskywing | S3 | G3 | | |

| <u>SCIENTIFIC NAME</u> | <u>COMMON NAME</u> | <u>SRANK</u> | <u>GRANK</u> | <u>STATE STATUS</u> | <u>FEDERAL STATUS</u> |
|---|-----------------------------------|--------------|--------------|---------------------|-----------------------|
| INSECTS (Cont.) | | | | | |
| <i>Eucosma bipunctella</i> | Two-spotted Eucosma | S2S3 | GNR | | |
| <i>Euphyes dukesi</i> | Duke's Skipper | S1 | G3G4 | | |
| <i>Formica creightoni</i> | Creighton's Slavemaking Ant | S3 | GNR | | |
| <i>Formica fossiceps</i> | Haystack Thatching Ant | S1 | G5 | | |
| <i>Formica querquetulana</i> | Oak-grove Ant | S1 | GNR | | |
| <i>Gennadota canadensis</i> | A Staphylinid Beetle | SU | GNR | | |
| <i>Glyphopsyche missouri</i> | Missouri Glyphopsyche Caddisfly | S1 | G1 | | |
| <i>Gomphus fraternus</i> | Midland Clubtail | SU | G5 | | |
| <i>Gomphus ventricosus</i> | Skillet Clubtail | SU | G3 | | |
| <i>Gryllotalpa major</i> | Prairie Mole Cricket | S3 | G3 | | |
| <i>Habroscelimorpha circumpicta johnsonii</i> | Saline Spring Tiger Beetle | S1 | G5T5 | | |
| <i>Hadena ectypa</i> | Starry Champion Moth | S1 | G3G4 | | |
| <i>Hesperia ottoe</i> | Ottoe Skipper | S1 | G3 | | |
| <i>Hesperus stehri</i> | A Staphylinid Beetle | SU | GNR | | |
| <i>Hydroperla fugitans</i> | Austin Springfly | S3 | G3 | | |
| <i>Hydropsyche piatrix</i> | A Net-spinning Caddisfly | S4 | G4 | | |
| <i>Hystrichophora loricana</i> | An Olethreutine Moth | S1? | G2G4 | | |
| <i>Inscudderia taxodii</i> | Bald Cypress Katydid | S1 | GNR | | |
| <i>Isoperla burksi</i> | Banded Stripetail | S3 | G4 | | |
| <i>Isoperla longiseta</i> | Plains Stripetail | SX | G5 | | |
| <i>Lasia purpurata</i> | Purple Small-headed Fly | SU | GNR | | |
| <i>Lasioglossum fedorense</i> | A Sweat Bee | S1 | GNR | | |
| <i>Leptysma marginicollis</i> | Cattail Toothpick Grasshopper | S2S3 | G5 | | |
| <i>Leucotrichia pictipes</i> | A Micro Caddisfly | S3 | G5 | | |
| <i>Libellula auripennis</i> | Golden-winged Skimmer | SU | G5 | | |
| <i>Lordithon niger</i> | A Staphylinid Beetle | S3 | GU | | |
| <i>Lytrosis permagnaria</i> | A Geometrid Moth | S1 | G3G4 | | |
| <i>Macropis steironematis</i> | An Oil-collecting Bee | S1 | GNR | | |
| <i>Megachile ingenua</i> | A Leafcutter Bee | S1 | G2? | | |
| <i>Melanoplus fasciatus</i> | Huckleberry Grasshopper | S3 | G5 | | |
| <i>Melanoplus francoisensis</i> | A Spur-throat Grasshopper | S1 | GNR | | |
| <i>Melanoplus impudicus</i> | Immodest Grasshopper | S3 | G4G5 | | |
| <i>Melanoplus packardii</i> | Packard's Grasshopper | S2 | G5 | | |
| <i>Melanoplus punctulatus griseus</i> | Grizzly Grasshopper | SU | G5T4 | | |
| <i>Melanoplus viridipes viridipes</i> | Green-legged Grasshopper | S3 | G4 | | |
| <i>Melissodes intorta</i> | A Callirhoe Bee | S1 | GNR | | |
| <i>Mermiria picta</i> | Mermiria Grasshopper | S3 | G5 | | |
| <i>Merope tuber</i> | A Meropid Scorpionfly | S3 | G3G5 | | |
| <i>Metaleptea brevicornis</i> | Short-horned Grasshopper | S4 | G5 | | |
| <i>Nehalennia gracilis</i> | Sphagnum Sprite | S1? | G5 | | |
| <i>Nehalennia irene</i> | Sedge Sprite | S1 | G5 | | |
| <i>Neoconocephalus exiliscanorus</i> | Slightly-musical Conehead Katydid | S3 | GNR | | |
| <i>Neoconocephalus lyristes</i> | Bog Conehead Katydid | S1 | GNR | | |

| <u>SCIENTIFIC NAME</u> | <u>COMMON NAME</u> | <u>SRANK</u> | <u>GRANK</u> | <u>STATE STATUS</u> | <u>FEDERAL STATUS</u> |
|-----------------------------|-----------------------------------|--------------|--------------|---------------------|-----------------------|
| INSECTS (Cont.) | | | | | |
| Neoperla carlsoni | Spiny Stone | S3? | G5 | | |
| Neotrichia kitae | Kite's Neotrichian | SU | GU | | |
| | Caddisfly | | | | |
| Neotridactylus apicalis | Larger Pygmy Grasshopper | SU | GNR | | |
| Nicrophorus americanus | American Burying Beetle | SH | G3 | E | T |
| Ochrotrichia contorta | Contorted Ochrotrichian | SU | G1 | | |
| | Micro Caddisfly | | | | |
| Oecleus chrisjohni | A Cixiid Planthopper | SU | GNR | | |
| Oncopodura hoffi | Hoff's Cave Springtail | S1S3 | G1G2 | | |
| Osmia illinoensis | A Mason Bee | S1 | G1 | | |
| Oxybleptes kiteleyi | A Staphylinid Beetle | SU | GNR | | |
| Papaipema beeriana | Blazing Star Stem Borer | S2 | G2G3 | | |
| Papaipema cerina | Golden Borer Moth | SU | G2G4 | | |
| Papaipema eryngii | Rattlesnake-master Borer Moth | S3 | G1G2 | | |
| Papaipema sciata | Culvers Root Borer | SU | G3 | | |
| Papaipema silphii | Silphium Borer Moth | S1 | G3G4 | | |
| Papilio joanae | Ozark Woodland Swallowtail | S1S2 | G2? | | |
| Pardalophora saussurei | A Glade Grasshopper | SU | G5 | | |
| Paroxya hoosieri | Hoosier Grasshopper | S1 | G5 | | |
| Pentacora signoreti | A Shore Bug | S1 | GNR | | |
| Phoetaliotes nebrascensis | Large-headed Grasshopper | S3 | G5 | | |
| Photuris missouriensis | Roaring River Firefly | S1 | GNR | | |
| Phrixocnemis truculentus | Truculent Camel Cricket | SU | GNR | | |
| Phyllobrotica lengi | A Leaf Beetle | SU | GNR | | |
| Phyllobrotica nigratarsis | A Leaf Beetle | SU | GNR | | |
| Phyllobrotica physostegiae | A Leaf Beetle | S4? | GNR | | |
| Polyergus longicornis | Long-horned Shining Amazon Ant | S1 | GNR | | |
| Polyergus montivagus | Foothills Shining Amazon Ant | S1 | GNR | | |
| Polyergus ruber | Ruby-red Shining Amazon Ant | S1 | GNR | | |
| Polyergus sanwaldi | Sanwald's Shining Amazon Ant | S1 | GNR | | |
| Prostoia similis | Longhorn Forestfly | S3 | G5 | | |
| Pseudomasaris occidentalis | A Pollen Wasp | S3 | GNR | | |
| Pseudosinella espana | Espana Cave Springtail | S3 | G2G3 | | |
| Psinidia fenestralis | Sand Grasshopper | S2S3 | G5 | | |
| Satyrodes appalachia leeuwi | Appalachian Eyed Brown | S1 | G4T4 | | |
| Schinia bina | Bina Flower Moth | S2S3 | G4 | | |
| Schinia lucens | Leadplant Flower Moth | S1 | G4 | | |
| Sepedophilus campbelli | A Staphylinid Beetle | SU | GNR | | |
| Serratella frisoni | Frison's Seratellan Mayfly | S2 | G4 | | |
| Sinella avita | Avita Cave Springtail | SU | G3G4 | | |
| Sinella barri | Barr's Cave Springtail | SU | G5 | | |
| Somatochlora hineana | Hine's Emerald | S2 | G2G3 | E | E |
| Somatochlora ozarkensis | Ozark Emerald | S1S2 | G3 | | |

| <u>SCIENTIFIC NAME</u> | <u>COMMON NAME</u> | <u>SRANK</u> | <u>GRANK</u> | <u>STATE STATUS</u> | <u>FEDERAL STATUS</u> |
|----------------------------------|-------------------------------------|--------------|--------------|---------------------|-----------------------|
| INSECTS (Cont.) | | | | | |
| Somatochlora provocans | Treetop Emerald | S1 | G4 | | |
| Speyeria diana | Diana Fritillary | SA | G2G3 | | |
| Speyeria idalia | Regal Fritillary | S3 | G3? | | |
| Stenonema bednariki | A Heptageniid Mayfly | S3 | G2G4 | | |
| Stethophyma celatum | Sedge Grasshopper | S3 | G4 | | |
| Stylurus intricatus | Brimstone Clubtail | S1S2 | G4 | | |
| Stylurus notatus | Elusive Clubtail | S2S3 | G3 | | |
| Svastra compta | A Sunflower Bee | S1 | GNR | | |
| Tebenna silphiella | Rosinweed Moth | S1 | GNR | | |
| Telebasis byersi | Duckweed Firetail | S1 | G5 | | |
| Telebasis salva | Desert Firetail | SU | G5 | | |
| Tenaspis angularis | A Firefly | S1? | GNR | | |
| Tettigidea armata | Spined Grouse Locust | S2S3 | G5 | | |
| Tomocerus missus | Missus Cave Springtail | SU | G4 | | |
| Tricholita notata | Marked Noctuid | S2S3 | G5 | | |
| Trimerotropis maritima | Seaside Grasshopper | S1 | G5 | | |
| Xenochalepus potomaca | A Leaf Beetle | SU | GNR | | |
| Xenotrechus condei | Northern Xenotrechus Cave Beetle | S1 | G1G2 | | |
| Xenotrechus denticollis | Southern Xenotrechus Cave Beetle | S1 | G1G2 | | |
| Xylodromus capito | A Staphylinid Beetle | SU | GNR | | |
| Total Insect Records: 143 | | | | | |
| FISH | | | | | |
| Acipenser fulvescens | Lake Sturgeon | S1 | G3G4 | E | |
| Alosa alabamae | Alabama Shad | S2 | G2G3 | | |
| Alosa chrysochloris | Skipjack Herring | SU | G5 | | |
| Ameiurus nebulosus | Brown Bullhead | S3? | G5 | | |
| Ammocrypta clara | Western Sand Darter | S2S3 | G3 | | |
| Ammocrypta vivax | Scaly Sand Darter | S3 | G5 | | |
| Anguilla rostrata | American Eel | SU | G4 | | |
| Atractosteus spatula | Alligator Gar | S1 | G3G4 | | |
| Carpiodes velifer | Highfin Carpsucker | S2 | G4G5 | | |
| Centrarchus macropterus | Flier | S3 | G5 | | |
| Cottus specus | Grotto Sculpin | S1 | G2 | | E |
| Crystallaria asprella | Crystal Darter | S1 | G3 | E | |
| Cyprinella camura | Bluntnose Shiner | S2S3 | G5 | | |
| Erimyzon sucetta | Lake Chubsucker | S2 | G5 | | |
| Etheostoma cragini | Arkansas Darter | S3S4 | G3G4 | | |
| Etheostoma euzonum erizonum | Current Saddled Darter | S3 | G3G4T3T4 | | |
| Etheostoma euzonum euzonum | Arkansas Saddled Darter | S2 | G3G4T3T4 | | |
| Etheostoma fusiforme | Swamp Darter | S1 | G5 | E | |
| Etheostoma histrio | Harlequin Darter | S2 | G5 | E | |
| Etheostoma microperca | Least Darter | S2 | G5 | | |
| Etheostoma nianguae | Niangua Darter | S2 | G2 | E | T |
| Etheostoma parvipinne | Goldstripe Darter | S1 | G4G5 | E | |
| Etheostoma whipplei | Redfin Darter | S1 | G4 | E | |

| <u>SCIENTIFIC NAME</u> | <u>COMMON NAME</u> | <u>SRANK</u> | <u>GRANK</u> | <u>STATE STATUS</u> | <u>FEDERAL STATUS</u> |
|-------------------------------|----------------------------|--------------|--------------|---------------------|-----------------------|
| FISH (Cont.) | | | | | |
| Forbesichthys agassizii | Spring Cavefish | S1 | G4 | E | |
| Fundulus chrysotus | Golden Topminnow | S1 | G5 | | |
| Fundulus dispar | Starhead Topminnow | S2 | G4 | | |
| Fundulus kansae | Northern Plains Killifish | S2 | G5 | | |
| Fundulus sciadicus | Plains Topminnow | S3 | G4 | | |
| Hybognathus argyritis | Western Silvery Minnow | S2 | G4 | | |
| Hybognathus hankinsoni | Brassy Minnow | S3 | G5 | | |
| Hybognathus hayi | Cypress Minnow | S1 | G4G5 | E | |
| Hybognathus nuchalis | Mississippi Silvery Minnow | S3S4 | G5 | | |
| Hybognathus placitus | Plains Minnow | S2 | G4 | | |
| Hybopsis amnis | Pallid Shiner | SU | G4 | | |
| Ichthyomyzon gagei | Southern Brook Lamprey | S2S3 | G5 | | |
| Lepomis marginatus | Dollar Sunfish | S2 | G5 | | |
| Lepomis symmetricus | Bantam Sunfish | S2 | G5 | | |
| Lethenteron appendix | American Brook Lamprey | S2 | G4 | | |
| Macrhybopsis gelida | Sturgeon Chub | S3 | G3 | | |
| Mugil cephalus | Striped Mullet | SA | G5 | | |
| Notropis buchanani | Ghost Shiner | S2 | G5 | | |
| Notropis chalybaeus | Ironcolor Shiner | S1 | G4 | | |
| Notropis heterolepis | Blacknose Shiner | S2 | G5 | | |
| Notropis maculatus | Taillight Shiner | S1 | G5 | E | |
| Notropis ozarcanus | Ozark Shiner | S2 | G3 | | |
| Notropis sabiniae | Sabine Shiner | S1 | G4 | E | |
| Notropis texanus | Weed Shiner | S3 | G5 | | |
| Notropis topeka | Topeka Shiner | S1 | G3 | E | E |
| Noturus eleutherus | Mountain Madtom | S1S2 | G4 | E | |
| Noturus flavater | Checkered Madtom | S3S4 | G3G4 | | |
| Noturus placidus | Neosho Madtom | S1 | G2 | E | T |
| Opsopoeodus emiliae | Pugnose Minnow | S4 | G5 | | |
| Percina copelandi | Channel Darter | S3 | G4 | | |
| Percina cymatotaenia | Bluestripe Darter | S2 | G2 | | |
| Percina nasuta | Longnose Darter | S1 | G3 | E | |
| Percina shumardi | River Darter | S3 | G5 | | |
| Percina uranidea | Stargazing Darter | S2 | G3 | | |
| Percopsis omiscomaycus | Trout-perch | S1? | G5 | | |
| Pimephales tenellus parviceps | Eastern Slim Minnow | S2S3 | G4T2T3 | | |
| Pimephales tenellus tenellus | Western Slim Minnow | S3 | G4T4 | | |
| Platygobio gracilis | Flathead Chub | S1 | G5 | E | |
| Scaphirhynchus albus | Pallid Sturgeon | S1 | G2 | E | E |
| Troglichthys rosae | Ozark Cavefish | S2 | G3 | E | T |
| Typhlichthys eigenmanni | Salem Plateau Cavefish | S2S3 | GNR | | |
| Umbra limi | Central Mudminnow | S1 | G5 | E | |
| Total Fish Records: 65 | | | | | |

| <u>SCIENTIFIC NAME</u> | <u>COMMON NAME</u> | <u>SRANK</u> | <u>GRANK</u> | <u>STATE STATUS</u> | <u>FEDERAL STATUS</u> |
|--|--------------------------|--------------|--------------|---------------------|-----------------------|
| AMPHIBIANS | | | | | |
| Ambystoma annulatum | Ringed Salamander | S3 | G4 | | |
| Ambystoma talpoideum | Mole Salamander | S2 | G5 | | |
| Ambystoma tigrinum | Eastern Tiger Salamander | S3 | G5 | | |
| Amphiuma tridactylum | Three-toed Amphiuma | S2 | G5 | | |
| Anaxyrus cognatus | Great Plains Toad | S3 | G5 | | |
| Cryptobranchus alleganiensis alleganiensis | Eastern Hellbender | S1 | G3T2 | E | E |
| Cryptobranchus alleganiensis bishopi | Ozark Hellbender | S1 | G3T1 | E | E |
| Eurycea spelaea | Grotto Salamander | S2S3 | G4 | | |
| Hemidactylium scutatum | Four-toed Salamander | S4 | G5 | | |
| Lithobates areolatus circulosus | Northern Crawfish Frog | S3 | G4T4 | | |
| Lithobates pipiens | Northern Leopard Frog | S2 | G5 | | |
| Lithobates sylvaticus | Wood Frog | S3 | G5 | | |
| Pseudacris illinoensis | Illinois Chorus Frog | S2 | G3 | | |
| Scaphiopus holbrookii | Eastern Spadefoot | S2 | G5 | | |
| Total Amphibian Records: 14 | | | | | |

REPTILES

| | | | | | |
|--|------------------------------|------|---------|---|----|
| Cemophora coccinea copei | Northern Scarletsnake | S2S3 | G5T5 | | |
| Clonophis kirtlandii | Kirtland's Snake | S1 | G2 | | |
| Crotaphytus collaris | Eastern Collared Lizard | S4 | G5 | | |
| Deirochelys reticularia miaria | Western Chicken Turtle | S1 | G5T5 | E | |
| Emydoidea blandingii | Blanding's Turtle | S1 | G4 | E | |
| Farancia abacura reinwardtii | Western Mudsnake | S2 | G5T5 | | |
| Heterodon gloydi | Dusty Hog-nosed Snake | S1 | G3G4Q | | |
| Heterodon nasicus | Plains Hog-nosed Snake | SX | G5 | | |
| Kinosternon flavescens | Yellow Mud Turtle | S1 | G5 | E | |
| Macrochelys temminckii | Alligator Snapping Turtle | S2 | G3 | | PT |
| Nerodia cyclopion | Mississippi Green Watersnake | SX | G5 | E | |
| Opheodrys vernalis | Smooth Greensnake | SX | G5 | | |
| Pantherophis ramspotti | Western Foxsnake | S1 | G5 | | |
| Pantherophis vulpinus | Eastern Foxsnake | S1 | G5 | | |
| Phrynosoma cornutum | Texas Horned Lizard | S2 | G4G5 | | |
| Pituophis catenifer sayi | Bullsnake | SU | G5T5 | | |
| Plestiodon obsoletus | Great Plains Skink | S2 | G5 | | |
| Plestiodon septentrionalis obtusirostris | Southern Prairie Skink | S3 | G5T5 | | |
| Plestiodon septentrionalis septentrionalis | Northern Prairie Skink | S3 | G5T5 | | |
| Sistrurus catenatus | Eastern Massasauga | SX | G3 | E | T |
| Sistrurus tergeminus tergeminus | Prairie Massasauga | S1 | G3G4TNR | E | |
| Total Reptile Records: 21 | | | | | |

BIRDS (See Appendix A for Tracking Criteria)

| | | | | | |
|--------------------|--------------------|------|----|--|--|
| Accipiter striatus | Sharp-shinned Hawk | S2 | G5 | | |
| Anhinga anhinga | Anhinga | S3S4 | G5 | | |

| <u>SCIENTIFIC NAME</u> | <u>COMMON NAME</u> | <u>SRANK</u> | <u>GRANK</u> | <u>STATE STATUS</u> | <u>FEDERAL STATUS</u> |
|---------------------------------------|------------------------------|--------------|--------------|---------------------|-----------------------|
| BIRDS (Cont.) | | | | | |
| Antigone canadensis | Sandhill Crane | S1 | G5 | | |
| Anrostomus carolinensis | Chuck-will's-widow | S3 | G5 | | |
| Anrostomus vociferus | Eastern Whip-poor-will | S3 | G5 | | |
| Ardea alba | Great Egret | S3 | G5 | | |
| Asio flammeus | Short-eared Owl | S2 | G5 | | |
| Asio otus | Long-eared Owl | SU | G5 | | |
| Bonasa umbellus | Ruffed Grouse | SU | G5 | | |
| Botaurus lentiginosus | American Bittern | S1 | G5 | E | |
| Buteo swainsoni | Swainson's Hawk | S2 | G5 | | |
| Circus hudsonius | Northern Harrier | S2 | G5 | E | |
| Cistothorus palustris | Marsh Wren | S3 | G5 | | |
| Coturnicops noveboracensis | Yellow Rail | SU | G4 | | |
| Cygnus buccinator | Trumpeter Swan | S1 | G4 | | |
| Egretta caerulea | Little Blue Heron | S3 | G5 | | |
| Egretta thula | Snowy Egret | S1 | G5 | E | |
| Falco peregrinus | Peregrine Falcon | S3 | G4 | | |
| Gallinula galeata | Common Gallinule | S2 | G5 | | |
| Geococcyx californianus | Greater Roadrunner | S3 | G5 | | |
| Haliaeetus leucocephalus | Bald Eagle | S3 | G5 | | |
| Ictinia mississippiensis | Mississippi Kite | S3 | G5 | | |
| Ixobrychus exilis | Least Bittern | S3 | G4G5 | | |
| Lanius ludovicianus | Loggerhead Shrike | S2 | G4 | | |
| Laterallus jamaicensis jamaicensis | Eastern Black Rail | SU | G3TNR | | T |
| Limnothlypis swainsonii | Swainson's Warbler | S2 | G4 | E | |
| Nycticorax nycticorax | Black-crowned Night-heron | S3 | G5 | | |
| Pandion haliaetus | Osprey | S2 | G5 | | |
| Passerina ciris | Painted Bunting | S3 | G5 | | |
| Peucaea aestivalis | Bachman's Sparrow | S1 | G3 | E | |
| Porzana carolina | Sora | S2 | G5 | | |
| Rallus elegans | King Rail | S1 | G4 | E | |
| Rallus limicola | Virginia Rail | S2 | G5 | | |
| Setophaga cerulea | Cerulean Warbler | S2S3 | G4 | | |
| Setophaga virens | Black-throated Green Warbler | SU | G5 | | |
| Sitta pusilla | Brown-headed Nuthatch | SU | G4 | | |
| Sterna antillarum athalassos | Interior Least Tern | S2 | G4T3Q | E | |
| Thryomanes bewickii | Bewick's Wren | S3 | G5 | | |
| Tympanuchus cupido | Greater Prairie-chicken | S1 | G4 | E | |
| Xanthocephalus xanthocephalus | Yellow-headed Blackbird | S3 | G5 | | |
| Total Bird Records: 40 | | | | | |
| MAMMALS | | | | | |
| Bison bison | American Bison | SX | G4 | | |
| Canis lupus | Gray Wolf | SX | G5 | | E |
| Canis rufus | Red Wolf | SX | G1Q | | E |
| Cervus elaphus | Elk or Wapiti | S? | G5 | | |

| <u>SCIENTIFIC NAME</u> | <u>COMMON NAME</u> | <u>SRANK</u> | <u>GRANK</u> | <u>STATE STATUS</u> | <u>FEDERAL STATUS</u> |
|--------------------------------|--------------------------------|--------------|--------------|---------------------|-----------------------|
| MAMMALS (Cont.) | | | | | |
| Corynorhinus rafinesquii | Rafinesque's Big-eared Bat | S1 | G3G4 | | |
| Corynorhinus townsendii ingens | Ozark Big-eared Bat | SX | G4T1 | E | E |
| Ictidomys tridecemlineatus | Thirteen-lined Ground Squirrel | S2 | G5 | | |
| Lasionycteris noctivagans | Silver-haired Bat | S3 | G3G4 | | |
| Lasiurus cinereus | Hoary Bat | S3 | G3G4 | | |
| Lasiurus seminolus | Seminole Bat | SA | G5 | | |
| Lepus californicus | Black-tailed Jackrabbit | S1 | G5 | E | |
| Lepus townsendii | White-tailed Jackrabbit | SX | G5 | | |
| Mustela frenata | Long-tailed Weasel | S3 | G5 | | |
| Mustela nivalis | Least Weasel | S3 | G5 | | |
| Myotis austroriparius | Southeastern Myotis | S1 | G4 | | |
| Myotis grisescens | Gray Myotis | S3 | G3G4 | E | E |
| Myotis leibii | Eastern Small-footed Myotis | S2 | G4 | | |
| Myotis lucifugus | Little Brown Myotis | S2 | G3G4 | | |
| Myotis septentrionalis | Northern Long-eared Myotis | S1 | G2G3 | E | T |
| Myotis sodalis | Indiana Myotis | S1 | G2 | E | E |
| Ochrotomys nuttalli | Golden Mouse | S3 | G5 | | |
| Oryzomys palustris | Marsh Rice Rat | SU | G5 | | |
| Perimyotis subflavus | Tri-colored Bat | S2 | G3G4 | | |
| Perognathus flavescens | Plains Pocket Mouse | S1 | G5 | | |
| Peromyscus gossypinus | Cotton Mouse | S2 | G5 | | |
| Poliocitellus franklinii | Franklin's Ground Squirrel | S2S3 | G5 | | |
| Puma concolor | Mountain Lion | SX | G5 | | |
| Reithrodontomys montanus | Plains Harvest Mouse | S2 | G5 | | |
| Spilogale putorius interrupta | Plains Spotted Skunk | S1 | G4T4 | E | |
| Sylvilagus aquaticus | Swamp Rabbit | S2 | G5 | | |
| Tadarida brasiliensis | Brazilian Free-tailed Bat | SA | G5 | | |
| Taxidea taxus | American Badger | S3 | G5 | | |

Total Mammal Records: 32

Total Records Processed: 1200

REFERENCES

NATURAL COMMUNITIES

Terrestrial Natural Community Taxonomic Authority:

Nelson, P.W., et al. 2010. The Terrestrial Natural Communities of Missouri, Revised ed. The Missouri Natural Areas Committee. Jefferson City, Missouri. 550pp.

Aquatic Natural Community Taxonomic Authority:

Pflieger, W. L. 1989. Aquatic community classification system for Missouri. Aquatic Series Number 19. Missouri Department of Conservation, Jefferson City, Missouri, USA. 70 p.

For Additional Aquatic Natural Community Information:

Sowa, S.P., G. Annis, M.E. Morey, and D.D. Diamond. 2007. A gap analysis and comprehensive conservation strategy for riverine ecosystems of Missouri. Ecological Monographs 77(3): 301-334.

LICHENS

Taxonomic Authority:

Egan, R.S. 1987. A fifth checklist of the lichen-forming, lichenicolous and allied fungi of the continental United States and Canada. Bryologist 90:77-173.

For Additional Information:

Ladd, D. 1996. Checklist and bibliography of Missouri lichens. Missouri Department of Conservation. Natural History Series, No. 4. Jefferson City, Missouri. 92 pp.

LIVERWORTS AND HORNWORTS

Taxonomic Authority:

Schuster, R.M. 1966-1992. The Hepeticeae and Anthocerotae of North America, six volume series. Columbia Univ. Press, N.Y. and Field Museum of Natural History, Chicago, Illinois.

MOSSES

Taxonomic Authority:

Anderson, Louis E., H.A. Crum, and W.R. Buck. 1990. List of the mosses of North America north of Mexico. Bryologist 93:448-499.

For Additional Information:

Crum, H. 1984. Sphagnopsida: Sphagnaceae. North American Flora, Series 2, 11:i-iv, 1-180.

FERNS AND FERN ALLIES

Taxonomic Authority:

Yatskievych, G. 1999. Steyermark's Flora of Missouri, Vol. 1, Revised ed. Missouri Department of Conservation. Jefferson City, Missouri. 1991 pp.

FLOWERING PLANTS

Taxonomic Authority:

Flora of Missouri Database. 2016. Flora of Missouri Project. Missouri Botanical Garden. St. Louis, Missouri.

FLOWERING PLANTS (*Cont.*)

Ecological Checklist of the Missouri Flora for Floristic Quality Assessment. 2015. Doug Ladd and Justin Thomas, *Phytoneuron*, 12:1-274.

For Additional Information:

Denison, E. 2008. Missouri wildflowers: a field guide to wildflowers of Missouri. Sixth ed. Missouri Department of Conservation. Jefferson City, Missouri. 280 pp.

Smith, T.E. 2000. Missouri plants of conservation concern. Missouri Department of Conservation. Jefferson City, Missouri. 47pp.

Steyermark, J.A. 1963. Flora of Missouri. Iowa State Press. Ames, Iowa. 1728 pp.

Summers, B. 1996. Missouri orchids. Missouri Department of Conservation. Jefferson City, Missouri. 112 pp.

Yatskievych, G. 1999. Steyermark's Flora of Missouri, Vol. 1, Revised ed. Missouri Department of Conservation. Jefferson City, Missouri. 1991 pp.

Yatskievych, G. 2006. Steyermark's Flora of Missouri, Vol. 2, Revised ed. Missouri Botanical Garden Press. St. Louis, Missouri. 1181 pp.

Yatskievych, G. 2013. Steyermark's Flora of Missouri, Vol. 3, Revised ed. Missouri Botanical Garden Press. St. Louis, Missouri. 1382 pp.

FLATWORMS

For Additional Information:

Huggins, D.G., P.M. Liechti and L.C. Ferrington, Jr., eds. 1985. Guide to the freshwater invertebrates of the Midwest. Kansas Biological Survey, Technical Publication No. 11. 221 pp.

MOLLUSKS

Taxonomic Authority:

Freshwater Mollusk Conservation Society (FMCS). 2021. The 2021 checklist of freshwater mussels. https://molluskconservation.org/Library/Committees/Names/Appendix_1_Bivalves_Revised_Names_List_20210825.pdf.

Johnson, P.D., A.E. Bogan, K.M. Brown, N.M. Burkhead, J.R. Cordeiro, J.T. Garner, P.D. Hartfield, D.A.W. Lepitzki, G.L. Mackie, E. Pip, T.A. Tarpley, J.S. Tiemann, N.V. Whelan, and E.E. Strong. 2013. Conservation status of freshwater gastropods of Canada and the United States. *Fisheries* 38(6):247-282.

Williams, J.D., A.E. Bogan, R.S. Butler, K.S. Cummings, J.T. Garner, J.L. Harris, N.A. Johnson, and G.T. Watters. 2017. A revised list of the freshwater mussels (Mollusca: Bivalvia: Unionida) of the United States and Canada. *Freshwater Mollusk Biology and Conservation* 20:33-58.

For Additional Information:

McMurray, S.E., J.S. Faiman, A. Roberts, B. Simmons, and M.C. Barnhart. 2012. A guide to Missouri's freshwater mussels. Missouri Department of Conservation, Jefferson City, MO.

MOLLUSKS (*Cont.*)

Oesch, R.D. 1995. Missouri naiades: a guide to the mussels of Missouri. Missouri Department of Conservation. Jefferson City, Missouri. 270 pp.

Oesch, R.D., L.W. Watrous, and M.C. Barnhart. 2013. Land snails & slugs of Missouri. Missouri Department of Conservation, Jefferson City.

Wu, S.K., R.D. Oesch and M.E. Gordon. 1997. Missouri aquatic snails. Missouri Department of Conservation. Jefferson City, Missouri. Natural History Series, No. 5. 97 pp.

CRUSTACEANS

Taxonomic Authority:

Committee on the Names of Crustaceans of the United States and Canada of the Crustacean Society and D. Turgeon. 2005. Common and scientific names of aquatic invertebrates from the United States and Canada: crustaceans. American Fisheries Society, Special Publication 31, Bethesda, Maryland.

For Additional Information:

Pflieger, W.L. 1996. The crayfishes of Missouri. Missouri Department of Conservation. Jefferson City, Missouri. 152 pp.

INSECTS

Taxonomic Authority:

Poole, R.W. and P. Gentili (Eds.). 1996-97. *Nomina insecta nearctica*. A checklist of the insects of North America. Entomological Information Services. Rockville, M.D. Four volumes.

For Additional Information:

Heitzman, J.R. and J.E. Heitzman. 1987. Butterflies and moths of Missouri. Missouri Department of Conservation. Jefferson City, Missouri. 385 pp.

FISH

Taxonomic Authority:

Page, L., E.J. Crossman, H. Espinosa-Perez, L.T. Findley, C.R. Gilbert, R.N. Lea, N.E. Mandrak, R.L. Mayden, and J.S. Nelson. 2013. Common and scientific names of fishes from the United States, Canada, and Mexico. Seventh edition. American Fisheries Society, Special Publication 34. Bethesda, Maryland.

For Additional Information:

Pflieger, W.L. 1997. The fishes of Missouri. Revised edition. Missouri Department of Conservation. Jefferson City, Missouri. 372 pp.

AMPHIBIANS AND REPTILES

Taxonomic Authority:

Crother, B.I. (ed) and Committee. 2017. Scientific and Standard English Names of Amphibians and Reptiles of North America North of Mexico, with comments regarding confidence in our understanding. Society for the Study of Amphibians and Reptiles. Web Access. September 2017, <http://ssarherps.org/publications/north-american-checklist/north-american-checklist-of-scientific-and-common-names/>.

AMPHIBIANS AND REPTILES (*Cont.*)

For Additional Information:

Daniel, R.E. and B.S. Edmonds 2014. Atlas of Missouri Amphibians and Reptiles. Web Access. Sept 2014. <http://atlas.moherp.org/pubs/atlas13d.pdf>.

Briggler, J.T. and T.R. Johnson. 2021. The Amphibians and Reptiles of Missouri. Missouri Department of Conservation. Jefferson City, Missouri. 514 pp.

BIRDS

Taxonomic Authority:

Chesser, R. T., S. M. Billerman, K. J. Burns, C. Cicero, J. L. Dunn, B. E. Hernández-Baños, A. W. Kratter, I. J. Lovette, N. A. Mason, P. C. Rasmussen, J. V. Remsen, Jr., D. F. Stotz, and K. Winker. 2021. Check-list of North American Birds (online). American Ornithological Society. <http://checklist.aou.org/taxa>.

For Additional Information:

Jacobs, R. 2001. Birds in Missouri. Missouri Department of Conservation. Jefferson City, Missouri. 375 pp.

Jacobs, R. and J.D. Wilson. 1997. Missouri breeding bird atlas. Missouri Department of Conservation. Jefferson City, Missouri. 430 pp.

Robbins, M.B. 2018. The Status and Distribution of Birds in Missouri. University of Kansas Libraries. 342 pp. <https://kuscholarworks.ku.edu/handle/1808/26287#:~:text=The%20Status%20and%20Distribution%20of%20Birds%20in%20Missouri%20by%20Mark,the%20past%20twenty%2Dfive%20years>.

S. M. Billerman, B. K. Keeney, P. G. Rodewald, and T. S. Schulenberg (Editors) (2020). Birds of the World. Cornell Laboratory of Ornithology, Ithaca, NY, USA. <https://birdsoftheworld.org/bow/home>.

MAMMALS

Taxonomic Authority:

Wilson, D.E. & DeeAnn M. Reeder (editors). 2005. Mammal species of the world. A taxonomic and geographic reference (3rd ed), Johns Hopkins University Press, 2,142 pp.

For Additional Information:

Boyles, J.G., J. Timpone, and L. Robbins. 2009. Bats of Missouri. Indiana State University Center for North American Bat Research and Conservation. p 60.

Hall, E.R. 1981. The mammals of North America, 2nd edition. John Wiley & Sons, New York, 1181+ pp.

Schwartz, C.W. and E.R. Schwartz. 2016. The wild mammals of Missouri, 3rd Revised edition. D.K. Fantz and V.L. Jackson (editors). University of Missouri Press. Columbia, Missouri. 426 pp.

FOR MORE INFORMATION

MDC collects and manages information on the location and status of species and natural communities of conservation concern throughout the state. The Missouri Natural Heritage Database is a repository for this information.

If you have information on the location or questions about the status of any element on this *Checklist*, please contact:

Natural Heritage Coordinator
Missouri Department of Conservation
P.O. Box 180
2901 W Truman Blvd
Jefferson City, MO 65109
(573) 522-4115

If you are requesting information about any Element on this *Checklist* for the purposes of environmental review, please write:

Science Branch
Missouri Department of Conservation
P.O. Box 180
Jefferson City, MO 65109

You can also conduct an online Natural Heritage Review by submitting your information to <https://naturalheritagereview.mdc.mo.gov/>

WEBPAGE

This checklist is updated annually. The most current version is always available by contacting MDC, Branch. *Checklist* information is also available on MDC's website: <https://mdc.mo.gov/media/114129>.

CITATION

An appropriate citation for this edition of the *Checklist* is:

Missouri Natural Heritage Program. 2022. Missouri species and communities of conservation concern checklist. Missouri Department of Conservation. Jefferson City, Missouri. pp. 57.

APPENDIX A
BIRD SPECIES TRACKED IN MONHP AND THEIR CRITERIA FOR EORS

| <u>Species (ranks)</u> | <u>MDC Regions*</u> | <u>Criteria** (safe dates), comments</u> |
|---|------------------------|--|
| Anseriformes (Ducks, geese, swans) | | |
| Trumpeter Swan (S1, G4) | All (NE, NW) | 1 |
| Galliformes (chicken-like birds) | | |
| Ruffed Grouse (SU, G5) | CN, OZ, SL, SE | 1 |
| Greater Prairie-chicken (S1, G4) | SW, KC, NW, NE | Anytime observed |
| Suliformes (anhinga) | | |
| Anhinga (S3S4, G5) | SE | 1 |
| Pelecaniformes (herons, egrets, storks, ibises) | | |
| American Bittern (S1, G5) | All | 1- extensive emergent marshes |
| Least Bittern (S3, G5) | All | 1,2 (5/25-8/1) |
| Great Egret (S3, G5) | All (SE) | 1 |
| Snowy Egret (S1, G5) | SE | 1 |
| Little Blue Heron (S3, G5) | SE, SL | 1 |
| Black-crowned Night-Heron (S3, G5) | All (SE) | 1 |
| Accipitriformes (hawks, eagles, kites, vultures) | | |
| Osprey (S2, G5) | All (confirmed NE, SW) | 1- Any large open body of water |
| Mississippi Kite (S3, G5) | All (SE, SL, NE) | 1- Expanding range |
| Bald Eagle (S3, G5) | All | 1- Any large open body of water |
| Northern Harrier (S2, G5) | All (except OZ, SE) | 1 |
| Sharp-shinned Hawk (S2, G5) | All | 1 |
| Swainson's Hawk (S2, G5) | SW, KC | 1 |
| Gruiformes (rails, cranes) | | |
| Yellow Rail (SU, G4) | All | Anytime observed (migrant) |
| Black Rail (SU, G3G4) | All | Anytime observed, large marshes |
| King Rail (S1, G4) | All (SE, SL, NE) | 1,2,3 (5/15-7/31) |
| Virginia Rail (S2, G5) | All | 1,2 (5/15-8/1) |
| Sora (S2, G5) | All | 1,2 (5/30-7/31) |
| Common Gallinule (S2, G5) | All (except OZ) | 1,2 (5/30-8/31) |
| Sandhill Crane (S1, G5) | NE, NW, CN, SL | 1 |
| Charadriiformes (gulls, terns, shorebirds) | | |
| Interior Least Tern (S2, G4T2Q) | SE | 1- Formerly along MS, MO Rivers |
| Cuculiformes (cuckoos, roadrunners) | | |
| Greater Roadrunner (S3, G5) | SW, OZ | 1 |
| Caprimulgiformes (nightjars) | | |
| Eastern Whip-poor-will (S3B, G5) | All | 1 |
| Chuck-Will's-widow (S3B, G5) | SW, OZ, SE | 1 |
| Strigiformes (Owls) | | |
| Strigiformes (Owls) (Cont.) | | |
| Long-eared Owl (SU, G5) | All | 1-Forests, dense thickets near water |
| Short-eared Owl (S2, G5) | SW, NW, NE, KC | 1,2 (5/1-8/31) |

Falconiformes (falcons)

Peregrine Falcon (S3, G4) SL, KC 1- Formerly along MO river bluffs

Passeriformes (perching birds)

| | | |
|---------------------------------------|-------------------------|------------------|
| Loggerhead Shrike (S2, G4) | All (SW, KC, NW) | 1,2 (4/20-7/20) |
| Brown-headed Nuthatch (SU, G4) | All | 1 |
| Marsh Wren (S3, G5) | All (except SW, SE, OZ) | 1,2 (5/25-8/25) |
| Swainson’s Warbler (S2, G4) | SE, OZ, SW | 1,2 (5/25-8/15) |
| Cerulean Warbler (S2S3, G4) | All (OZ) | 1,2,3 (6/1-8/10) |
| Black-throated Green Warbler (SU, G5) | SE | 1 |
| Bachman’s Sparrow (S1, G3) | OZ, SW, SE | 1,2 (6/1-8/15) |
| Painted Bunting (S3, G5) | SW, OZ | 1,2 (5/25-8/1) |
| Yellow-headed Blackbird (S3, G5) | NW (possible anywhere) | 1 |
| Bewick’s Wren (S3, G5) | All | 1, 2 (5/15-8/15) |

***MDC Regions (where species most likely to be recorded)**

| | |
|----------------|------------------|
| CN - Central | KC - Kansas City |
| NE - Northeast | NW - Northwest |
| OZ - Ozark | SL - St. Louis |
| SE - Southeast | SW - Southwest |

****Criteria**

1. Confirmed breeding. Evidenced one or more of the following:

- Nest building (except wrens and woodpeckers)
- Nest with egg(s) or young (seen or heard)
- Used nest or eggshells
- Physiological evidence of breeding based upon bird in hand (e.g. b...)
- Distraction display or injury feigning
- Recently fledged young
- Adults entering or leaving nest site in circumstances indicating nest
- Adult carrying fecal sac
- Adult carrying food



2. Probable breeding (valid only between safe dates)

- Male and female seen together (not part of a flock)
- Bird holding territory
- Seven or more singing males detected in one visit
- Courtship or copulation
- Visiting probable nest site
- Agitated behavior or anxiety call (not provoked by observer)
- Nest building by wrens or woodpeckers

3. Possible breeding (valid only between safe dates)

- Species heard or seen in breeding habitat
- Species heard or seen but not in breeding habitat

**APPENDIX B
MISSOURI BIRD CONSERVATION PLAN FOCAL SPECIES ***

| | Common Name | MO Concern Score¹ | Population Trend, MO | Threats to Breeding, MO | Relative Density - Breeding, MO | Population Size, Global | Breeding Distribution, Global | |
|--|-------------------------|-------------------------------------|-----------------------------|--------------------------------|--|--------------------------------|--------------------------------------|---|
| Natural Community | GRASSLAND BIRDS | | | | | | | |
| | Eastern Kingbird | 15 | 5 | 3 | 4 | 2 | 1 | |
| | Grasshopper Sparrow | 15 | 5 | 4 | 3 | 2 | 1 | |
| | Henslow's Sparrow | 17 | 2 | 4 | 5 | 4 | 2 | |
| | Bobolink | 11 | 1 | 4 | 2 | 2 | 2 | |
| | Eastern Meadowlark | 17 | 5 | 4 | 5 | 2 | 1 | |
| SAVANNA, WOODLAND, AND YOUNG-FOREST BIRDS | Dickcissel | 16 | 4 | 3 | 5 | 2 | 2 | |
| | Northern Bobwhite | 16 | 5 | 4 | 4 | 2 | 1 | |
| | Yellow-billed Cuckoo | 16 | 5 | 3 | 5 | 2 | 1 | |
| | Chuck-will's-widow | 16 | 5 | 3 | 4 | 2 | 2 | |
| | Eastern Whip-poor-will | 18 | 5 | 3 | 5 | 3 | 2 | |
| | Chimney Swift | 16 | 5 | 4 | 4 | 2 | 1 | |
| | Red-headed Woodpecker | 17 | 5 | 3 | 5 | 3 | 1 | |
| | Eastern Wood-Pewee | 14 | 3 | 3 | 5 | 2 | 1 | |
| | Bewick's Wren | 17 | 5 | 5 | 3 | 2 | 2 | |
| | Brown Thrasher | 15 | 4 | 3 | 5 | 2 | 1 | |
| | Eastern Towhee | 15 | 4 | 3 | 4 | 2 | 2 | |
| | Field Sparrow | 17 | 5 | 3 | 5 | 2 | 2 | |
| | Yellow-breasted Chat | 13 | 3 | 3 | 4 | 2 | 1 | |
| | Orchard Oriole | 13 | 2 | 3 | 5 | 2 | 1 | |
| | Blue-winged Warbler | 15 | 3 | 3 | 4 | 3 | 2 | |
| | Prairie Warbler | 18 | 5 | 3 | 5 | 3 | 2 | |
| | FOREST BIRDS | Blue Jay | 14 | 4 | 3 | 4 | 2 | 1 |
| | | Wood Thrush | 14 | 3 | 3 | 4 | 2 | 2 |
| Worm-eating Warbler | | 15 | 2 | 3 | 5 | 3 | 2 | |
| Prothonotary Warbler | | 13 | 3 | 3 | 2 | 3 | 2 | |
| Kentucky Warbler | | 15 | 2 | 3 | 5 | 3 | 2 | |
| Cerulean Warbler | | 18 | 5 | 4 | 4 | 3 | 2 | |
| WETLAND BIRDS | Green Heron | 15 | 5 | 3 | 3 | 3 | 1 | |
| GENERALIST BIRDS | Common Grackle | 16 | 5 | 4 | 5 | 1 | 1 | |
| SPECIAL CIRCUMSTANCE BIRDS² | Ruffed Grouse | - | 5 | 4 | 5 | 1 | 1 | |
| | Greater Prairie-Chicken | - | 5 | 4 | 5 | 1 | 1 | |
| | King Rail | - | 5 | 4 | 5 | 1 | 1 | |
| | Bachman's Sparrow | - | 5 | 4 | 5 | 1 | 1 | |
| | Brown-headed Nuthatch | - | 5 | 4 | 5 | 1 | 1 | |

***Not all Focal Species are tracked in Heritage**

¹ MO Concern Score = sum of other five scores: MO Population Trend, MO Threats to Breeding, MO Relative Density, Global Population Size, and Global Distribution. Each score's scale varies slightly, but in general 1=least concern/lowest threat level and 5=greatest concern/highest threat level.

² Special Circumstance Birds were not scored due to extremely low breeding populations caused by various circumstances. See SPECIAL CIRCUMSTANCE BIRDS section of the Missouri Conservation Bird Plan for more information.

PLANTS OF CONSERVATION CONCERN REPORTING FORM

NATURAL HERITAGE BOTANIST AND DATA MANAGER

EO Report Status (check one): New Update WITH mapping Update WITHOUT mapping

EO_ID: _____ EONUM: _____ Srank: _____ EO Rank: _____ Origin Subrank: _____

EO Rank Comments: _____

Reference(s): _____

Heritage Mapper/Date: _____ Mapsheet Name(s): _____

Heritage Map QC/Date: _____ Heritage Botanist/Date: _____

SPECIES and LOCATION (please attach a map)

Scientific Name: _____ Common Name: _____

County Name(s): _____ Survey Site Name: _____

Directions to Survey Site: _____

Coordinates: _____, _____ if UTM, NAD: 83 Zone: 15

Locational Uncertainty (buffer radius): Mapped location is within _____ Meters Feet Miles

ELEMENT OCCURRENCE DATA

Survey Date (yyyy-mm-dd): _____

Observer(s) (last name, first name): _____

EO [population] Data (actual and/or estimated number observed; condition: sterile or in bud/ flower/ fruit; evidence of disease, predation, or exotics; specimen/photo, etc.): _____

General Habitat Description: _____

OWNERSHIP

Managed Area/ Public Land Name(s): _____

Is the entire EO within the Managed Area boundaries? (check one): YES PARTIAL

Owner Name(s): _____

Owner Comments (address, phone number, etc.): _____

Management Comments: _____

Protection Comments: _____

ADDITIONAL INFORMATION

General Comments (associated species, etc.): _____

Form completed by (last name, first name): _____ Date: _____

11/2020

Thank you for helping maintain the Missouri Natural Heritage Program.

Please return this form to: Natural Heritage Botanist, Science Branch, Missouri Dept. of Conservation,
P.O. Box 180, Jefferson City, MO 65102, 573-522-4115.

ANIMALS OF CONSERVATION CONCERN REPORTING FORM

NATURAL HERITAGE TAXA EXPERT AND DATA MANAGER

EO Report Status (check one): New Update **WITH** mapping Update **WITHOUT** mapping
EO_ID: _____ EONUM: _____ Bat Biological Use: _____ Srank: _____
EO Rank: _____ Origin Subrank: _____ EO Rank Comments: _____
Reference(s): _____
Heritage Mapper/Date: _____ Mapsheet Name(s): _____
Heritage Map QC/Date: _____ Heritage Taxa Expert/Date: _____

SPECIES and LOCATION (please attach a map)

Scientific Name: _____ Common Name: _____
County Name(s): _____ Survey Site Name: _____
Directions to Survey Site: _____
Coordinates: _____, _____ if UTM, NAD: 83 Zone: 15
Locational Uncertainty (buffer radius): Mapped location is within _____ Meters Feet Miles

ELEMENT OCCURRENCE DATA

Survey Date (yyyy-mm-dd): _____
Observer(s) (last name, first name): _____
EO [population] Data (number observed/trapped, condition: live/dead and age, evidence of reproduction, physical measurements, sampling methodology, person hrs, bat hibernaculum/maternity, specimen/photo, etc.):

General Habitat Description: _____

OWNERSHIP

Managed Area/ Public Land Name(s): _____
Is the entire EO within the Managed Area boundaries? (check one): YES PARTIAL
Owner Name(s): _____
Owner Comments (address, phone number, etc.): _____
Management Comments: _____
Protection Comments: _____

ADDITIONAL INFORMATION

General Comments (associated species, etc.): _____

Form completed by (last name, first name): _____ Date: _____

11/2020

Thank you for helping maintain the Missouri Natural Heritage Program.

Please return this form to: Natural Heritage Coordinator, Science Branch, Missouri Dept. of Conservation,
P.O. Box 180, Jefferson City, MO 65102, 573-522-4115; or MDC Heritage Taxa Expert if known.

TERRESTRIAL NATURAL COMMUNITY REPORTING FORM

NATURAL HERITAGE COMMUNITY ECOLOGIST AND DATA MANAGER

EO Report Status (check one): New [] Update WITH mapping [] Update WITHOUT mapping []
EO_ID: EONUM: GELCODE: Gelcode Conf. Level: 1 2 3
Reference(s):
Heritage Mapper/Date: Mapsheet Name(s):
Heritage Map QC/Date: Heritage Community Ecologist/Date:

NATURAL COMMUNITY TYPE and LOCATION (please attach a map)

Natural Community Name/Type:
County Name(s): Survey Site Name:
Directions to Survey Site:
Coordinates: if UTM, NAD: 83 Zone: 15
Locational Uncertainty (buffer radius): Mapped location is within Meters [] Feet [] Miles []

ELEMENT OCCURRENCE DATA

Survey Date (yyyy-mm-dd):
Observer(s) (last name, first name):
Plant species composition (5-10 dominant or characteristic plant taxa by scientific name):
General Habitat Description (describe substrate, topography and vegetation structure including acreage. E.g., "Glade system with three openings of 1, 5, and 10 acres." If part of a natural community complex, describe what percentage of the mapped polygon is made up of this EO type. E.g., "30% of a complex with wet-prairie and freshwater marsh."):
Community Significance (check one): Significant [] Exceptional [] Notable []
EO Rank: EO Rank Comments (describe ecological integrity; i.e., resemblance to presettlement condition, lack of exotic species, presence of conservative species, floristic quality index values, etc.):

OWNERSHIP

Managed Area/ Public Land Name(s):
Is the entire EO within the Managed Area boundaries? (check one): YES [] PARTIAL []
Owner Name(s):
Owner Comments (address, phone number, etc.):
Management Comments:
Protection Comments:

ADDITIONAL INFORMATION

General Comments (associated species, etc.):
Form completed by (last name, first name): Date:

Thank you for helping maintain the Missouri Natural Heritage Program.

11/2020

Please return this form to: Natural Heritage Community Ecologist, Statewide Resource Management Branch, Missouri Dept. of Conservation, P.O. Box 180, Jefferson City, MO 65102, 573-522-4115.

AQUATIC NATURAL COMMUNITY REPORTING FORM

NATURAL HERITAGE AQUATIC COMMUNITY ECOLOGIST AND DATA MANAGER

EO Report Status (check one): New Update **WITH** mapping Update **WITHOUT** mapping
EO_ID: _____ EONUM: _____ Reference(s): _____
Heritage Mapper/Date: _____ Mapsheet Name(s): _____
Heritage Map QC/Date: _____ Heritage Aquatic Comm. Ecologist/Date: _____

NATURAL COMMUNITY TYPE and LOCATION (please attach a map)

Aquatic Natural Community Name/Type: _____
County Name(s): _____ Survey Site Name: _____
Directions to Survey Site: _____
Coordinates: _____, _____ if UTM, NAD: **83** Zone: **15**
Locational Uncertainty (buffer radius): Mapped location is within _____ Meters Feet Miles

ELEMENT OCCURRENCE DATA

Survey Date (yyyy-mm-dd): _____
Observer(s) (last name, first name): _____
Aquatic assemblage (5-10 dominant or characteristic fish and/or aquatic invertebrate taxa by scientific name):

General Habitat Description (stream order, miles to headwaters, riparian corridor condition, composition of riffles and pools, and other physical factors): _____

Community Significance (check one): Significant Exceptional Notable
EO Rank: _____ EO Rank Comments (describe ecological integrity; i.e., resemblance to presettlement condition, lack of exotic species, presence of conservative species, biologic integrity index values, etc.): _____

OWNERSHIP

Managed Area/ Public Land Name(s): _____
Is the entire EO within the Managed Area boundaries? (check one): YES PARTIAL
Owner Name(s): _____
Owner Comments (address, phone number, etc.): _____
Management Comments: _____
Protection Comments: _____

ADDITIONAL INFORMATION

General Comments (associated species, etc.): _____

Form completed by (last name, first name): _____ Date: _____

Thank you for helping maintain the Missouri Natural Heritage Program.
Please return this form to: Natural Heritage Coordinator, Science Branch,
Missouri Dept. of Conservation, P.O. Box 180, Jefferson City, MO 65102, 573-522-4115.

11/2020