



MISSOURI DEPARTMENT OF
CONSERVATION

MISSOURI SPECIES
AND COMMUNITIES*
**OF CONSERVATION
CONCERN** CHECKLIST



**JANUARY
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CONTENTS

ACKNOWLEDGMENTS	2
INTRODUCTION	3
TERMS AND DEFINITIONS	4
SPECIES CHANGES	7
TERRESTRIAL NATURAL COMMUNITIES	10
THREATENED AND ENDANGERED SPECIES IN MISSOURI	13
SPECIES AND STATUSES	
LICHENS	15
LIVERWORTS AND HORNWORTS	15
MOSSES	16
FERNS AND FERN ALLIES	17
FLOWERING PLANTS	18
FLATWORMS	28
MOLLUSKS	28
ARACHNIDS	29
CRUSTACEANS	29
MILLIPEDES	30
INSECTS	30
FISH	32
AMPHIBIANS	33
REPTILES	34
BIRDS	34
MAMMALS	35
REFERENCES	37
FOR MORE INFORMATION	41
PLANTS OF CONSERVATION CONCERN REPORTING FORM	42
ANIMALS OF CONSERVATION CONCERN REPORTING FORM	44
TERRESTRIAL NATURAL COMMUNITY REPORTING FORM	46

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

Missouri Natural Heritage Program. 2004. Missouri species and communities of conservation concern checklist. Missouri Department of Conservation. Jefferson City, Missouri. 47pp.

This checklist is updated annually. The most current version is always available by contacting the Missouri Department of Conservation, Science Division. *Checklist* information is also available on the Missouri Department of Conservation's website:

www.missouriconservation.org/nathis/endangered/index.htm

INTRODUCTION

The Department of Conservation 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 18 percent of the native vascular plants, 14 percent of the nonvascular plants and 28 percent of the vertebrate animals in Missouri. Together, the animals, plants, and natural communities represent Missouri's biological diversity—a heritage worth protecting.

The Department maintains two references relating to the status of listed plants and animals in Missouri; the *Missouri Species of Conservation Concern Checklist* and the *Wildlife Code of Missouri*. **The *Missouri Species of Conservation Concern Checklist* possesses no legal authority and is utilized for planning and communication purposes.** All species in the State of Missouri are protected as biological diversity elements unless a method of legal harvest is described in the *Wildlife Code*. Species listed in the *Wildlife Code* under 3CSR10-4.111 are protected by State Endangered Species Law 252.240. Some of the plants and animals in the checklist also appear in the *Wildlife Code* and are afforded special legal protection. All federally endangered and threatened plants and animals are protected by the Endangered Species Act of 1973 (ESA) and by Missouri State Endangered Species Law.

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 the Department of Conservation is particularly concerned about due to population declines or apparent vulnerability. The state rank (SRANK) shows the level of concern for each species' continued existence in Missouri. For each Element (i.e., species, subspecies or variety, or natural community type), at least 6 basic factors are considered when assigning an SRANK:

- the estimated number of Element Occurrences (EOs) throughout the Element's state range
- the estimated state abundance of the Element (measured by population, area, or stream length)
- the estimated size of the Element's state range
- the trend in the Element's distribution over its state range
- the estimated number of adequately protected EOs throughout the Element's state range
- the degree to which the Element is threatened in the state

The checklist also indicates, for each lichen, plant, and animal Element in the heritage inventory, information on the Element's global rank (i.e., its relative rarity or endangerment in the world). This is useful for understanding the relative rarity or endangerment of an Element from a global perspective (beyond state, national, or regional boundaries). Global ranks (i.e., GRANKS), are completed by the Heritage/Conservation Data Center personnel and/or NatureServe. For each Element, the same six factors listed above for SRANKS are considered when assigning GRANKS, but in a global context. Additionally, the fragility or susceptibility of the Element to intrusion or disturbance is considered when assigning a global rank.

The checklist is arranged by broad taxonomic groups (e.g., terrestrial natural communities, flowering plants, insects, fish, 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, federal status, state status, global rank, and state rank.

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. Passage of the Endangered Species Act of 1973 gave the United States one of the most far-reaching 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 point where their existence is no longer jeopardized is the primary objective of the Fish and Wildlife Service's 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 the Service 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.

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 the Department of Conservation under constitutional authority.

GLOBAL RANK

A numeric rank (G1 through G5) of relative endangerment based primarily on the number of occurrences of the element (i.e., species, subspecies, or variety) globally. Other factors in addition to the number of occurrences are considered when assigning a rank, so the numbers of occurrences suggested for each numeric rank below are not absolute guidelines.

G1 = Critically imperiled globally because of extreme rarity or because of some factor(s) making it especially vulnerable to extinction. (typically 5 or fewer occurrences or very few remaining individuals or acres)

G2 = Imperiled globally because of rarity or because of some factor(s) making it very vulnerable to extinction throughout its range. (6 to 20 occurrences or few remaining individuals or acres)

G3 = Either very rare and local throughout its range or found locally (even abundantly at some of its locations) in a restricted range (e.g., a single western state, a physiographic region in the East) or because of other factors making it vulnerable to extinction throughout its range. (21 to 100 occurrences)

G4 = Widespread, abundant, and apparently secure globally, though it may be quite rare in parts of its range, especially at the periphery. Thus, the element is of long-term concern. (usually more than 100 occurrences)

G5 = Demonstrably widespread, abundant, and secure globally, though it may be quite rare in parts of its range, especially at the periphery.

G#G# = Numeric range rank: A range between two of the numeric ranks. Denotes range of uncertainty about the exact rarity of the element.

GNR = Not ranked: Status has not been assessed.

GU = Unrankable: Possibly in peril range-wide but status uncertain; need more information.

GH = Historical: Of historical occurrence throughout its range, i.e., formerly part of the established biota, with the expectation that it may be rediscovered (e.g., Bachman's warbler).

GX = Extinct: Believed to be extinct throughout range (e.g., passenger pigeon) with virtually no likelihood that it will be rediscovered.

SUBRANK:

T = Taxonomic subdivision: Rank applies to a subspecies or variety.

QUALIFIERS:

? = Inexact: Denotes inexact numeric rank.

Q = Questionable taxonomy: Taxonomic status is questionable; numeric rank may change with taxonomy.

STATE RANK

A numeric rank (S1 through S5) of relative endangerment based primarily on the number of occurrences of the element (i.e., species, subspecies, or variety) within the state. Other factors considered when assigning a rank include: abundance, population trends, distribution, number of protected sites, degree of threat, suitable habitat trends, level of survey effort and life history. Thus, the number of occurrences suggested for each numeric rank below are not absolute guidelines. Missouri species of conservation concern typically do not fall within the range of S4-S5.

S1 = Critically imperiled in the state because of extreme rarity or because of some factor(s) making it especially vulnerable to extirpation from the state. (typically 5 or fewer occurrences or very few remaining individuals or acres)

S2 = Imperiled in the state because of rarity or because of some factor(s) making it very vulnerable to extirpation from the state. (6 to 20 occurrences or few remaining individuals or acres)

S3 = Rare and uncommon in the state. (21 to 100 occurrences)

S4 = Widespread, abundant, and apparently secure in state, with many occurrences, but the species is of long-term concern. (usually more than 100 occurrences)

S5 = Demonstrably widespread, abundant, and secure in the state, and essentially ineradicable under present conditions.

S#S# = Numeric range rank: A range between two of the ranks. Denotes range of uncertainty about the exact rarity of the element.

S? = Unranked: Species is not yet ranked in the state.

SU = Unrankable: Possibly in peril in the state, but status uncertain; need more information.

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 (i.e., infrequent and far outside usual range).

SP = Potential: Potential that element occurs in the state but no occurrences reported.

SR = Reported: Element reported in the state but without persuasive documentation which would provide a basis for either accepting or rejecting (e.g., misidentified specimen) the report.

SRF = Reported falsely: Element erroneously reported in the state and the error has persisted in the literature.

SH = Historical: Element occurred historically in the state (with expectation that it may be rediscovered). Perhaps having not been verified in the past 20 years, and suspected to be still extant.

SX = Extirpated: Element is believed to be extirpated from the state.

QUALIFIERS:

? = Inexact or uncertain: For numeric ranks, denotes inexactness; for SE denotes uncertainty of exotic status. (The ? qualifies the character immediately preceding it in the SRANK.)

SPECIES CHANGES

STATUS CHANGES:

PLANTS

Eleocharis wolfii (Wolf's spike rush) from S2 to S3 based on more than 20 sites documented in Missouri.

Iva xanthifolia (a marsh elder) from SH to S1 based on the discovery of a year 2000 Doug Ladd collection of the species during the herbaria searches by Nels Holmberg. The other collections are historical but the single modern record is enough to justify the change in state rank.

Lesquerella filiformis (Missouri bladder-pod) from federally endangered to federally threatened based on the increased number of known sites and the decreased threats identified in the species' recovery plan.

Monarda punctata var. *villicaulis* (horsemint) from SH to S2 based on a review of herbarium specimens by Nels Holmberg which produced 6 extant records in addition to several historical specimens.

Sphagnum capillifolium (sphagnum) changed from SRF to S1. Based on recent review at MOBOT of specimens and taxonomy for an update of the Missouri moss flora listing, existing records were found for this species.

Sphagnum fallax (sphagnum) from S1 to SRF based on recent review at MOBOT of specimens and taxonomy for an update of the Missouri moss flora listing.

Sphagnum subtile (sphagnum) from S1 to SRF based on recent review of specimens by MOBOT bryologists.

AMPHIBIANS

Cryptobranchus alleganiensis alleganiensis (eastern hellbender) from proposed state endangered to endangered due to recent information documenting drastic declines throughout its ranges.

Cryptobranchus alleganiensis bishopi (Ozark hellbender) from proposed state endangered to endangered due to recent information documenting drastic declines throughout its ranges.

MAMMALS

Canis lupus (gray wolf) from federal endangered to federal threatened in the eastern portion of its range since wolf populations in Minnesota, Wisconsin, and Michigan have met their recovery goals. Individual wolves dispersing into other states of the Midwest are considered incidental.

ADDITIONS:

PLANTS

Aneura maxima (a liverwort) as SU based on recent collections by Alan Brant.

Cyperus retrorsus (an umbrella sedge) as SH. This species recently came to light when documented from Missouri with publication of the pertinent volume of the Flora of North America. Yatskievych confirmed the determination of the sole specimen from Dunklin Co. (1895).

PLANTS (Cont.)

Marchantia aquatica (a liverwort) SU based on recent collections by Alan Brant.

Spermolepis divaricata (rough-fruit spermolepis) as S1. This addition is a correction to a misprint in the tracking status of the previous checklist. SRANK change is based on the scarcity of records for *S. divaricata* and the restriction of its geographical range and natural community type.

Sphagnum affine (sphagnum) as S1 based on recent review at MOBOT of specimens and taxonomy for an update of the Missouri moss flora listing.

Sphagnum bartlettianum (sphagnum) as SU based on a review of specimens at the SMS herbarium by bryologists from the MO Botanical Garden.

Sphagnum henryense (sphagnum) as S1 based on information from bryologists at MOBOT who have recently completed a review of specimens.

Sphagnum inundatum (sphagnum) as S1 based on information from bryologists at MOBOT who have recently completed a review of specimens.

Sphagnum recurvum (sphagnum) as S1 based on recent review at MOBOT of specimens and taxonomy for an update of the Missouri moss flora listing.

Sphagnum trinitense (sphagnum) as S1 based on information from bryologists at MOBOT who have recently completed a review of specimens.

Viburnum ozarkense (Ozark arrow wood) as S2S3 based on the recent publication: Weckman, T.J. 2002. Reinstatement of *Viburnum ozarkense* (Caprifoliaceae): an endemic taxon of the interior highlands of Arkansas, Missouri and Oklahoma. Sida 20(2) pp. 849-860. This publication separated this Ozark endemic from the more common *Viburnum molle*. The shrub is known from Howell and Oregon counties in Missouri, two counties in Oklahoma and at more numerous sites in Arkansas.

FISH

Notropis texanus (weed shiner) as S3. This addition is due to a 100% decline in the Bootheel over the last 60 years. This species still occurs in the St. Francis River and Black River.

Etheostoma euzonum erizonum (Current River saddled darter) as S3. This species occurs in only 5 reaches in relatively low numbers.

Etheostoma euzonum euzonum (Arkansas saddled darter) as S2. This species only occurs in good numbers in one stream in the state, Beaver Creek.

DELETIONS:

PLANTS

Spermolepis inermis (Red River spermolepis) removed from the Checklist. This deletion is a correction to a misprint in the tracking status of the previous checklist. S3? remains the same.

Sphagnum imbricatum (sphagnum) changed from S1 to SSYN and removed from the Checklist based on recent review at MOBOT of specimens and taxonomy for an update of the Missouri moss flora listing.

TAXONOMIC CHANGES:

PLANTS

Sphagnum capillaceum var *tenerum* to *Sphagnum tenerum* (sphagnum)

Sphagnum fimbriatum to *Sphagnum fimbriatum* var. *fimbriatum* (sphagnum)

TERRESTRIAL NATURAL COMMUNITIES

In addition to lichens, plants, and animals, the Missouri Natural Heritage Program 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 represent the least distressed examples of ecosystems that existed in Missouri prior to European settlement. These natural communities frequently provide the habitat necessary for Missouri's listed lichens, plants, and animals. Because the Missouri Department of Conservation tracks occurrences of high quality natural communities, we encourage the submission of site information on natural communities as we do for species listed 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.

Natural community types have been classified using The Terrestrial Natural Communities of Missouri (Nelson, 1985). 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. Inventory results suggest that certain changes in the 1985 classification would more accurately reflect the natural community types that occur or that could be restored across the state. Biologists from Missouri Department of Conservation, Missouri Department of Natural Resources, National Park Service Ozark National Scenic Riverways, United States Forest Service Mark Twain National Forest, and The Nature Conservancy continue revising the 1985 classification. The Terrestrial Natural Communities tracked in Heritage are listed below with their SRANKs by major community type.

<u>COMMUNITY TYPE</u>	<u>SRANK</u>
FOREST	
Dry-Mesic Loess/Glacial Till Forest	S3
Mesic Loess/Glacial Till Forest	S3
Dry-Mesic Limestone/Dolomite Forest	S3
Mesic Limestone/Dolomite Forest	S3
Dry-Mesic Chert Forest	S4
Dry-Mesic Sandstone Forest	S3
Mesic Sandstone Forest	S2
Dry-Mesic Sand Forest	S1
Mesic Sand Forest	S1
Dry-Mesic Igneous Forest	S4
Dry-Mesic Bottomland Forest	S3
Mesic Bottomland Forest	S2
Wet-Mesic Bottomland Forest	S3
Wet Bottomland Forest	S2
Riverfront Forest	S4

<u>COMMUNITY TYPE</u>	<u>SRANK</u>
WOODLAND	
Dry Loess/Glacial Till Woodland	S3
Dry-Mesic Loess/Glacial Till Woodland	S3
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	S1
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	S2
Mesic Bottomland Woodland	SH
Wet-Mesic Bottomland Woodland	S1
SAVANNA	
Dry-Mesic Loess/Glacial Till Savanna	S1
Mesic Loess/Glacial Till Savanna	SH
Limestone/Dolomite Savanna	SH
Chert Savanna	SH
Sandstone/Shale Savanna	SH
Sand Savanna	S1
PRAIRIE	
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	S2
Dry-Mesic Chert Prairie	S3
Dry-Mesic Sandstone/Shale Prairie	S3
Sand Prairie	S1
Prairie Swale	S2
Hardpan Prairie	S2
Wet-Mesic Bottomland Prairie	S1
Wet Bottomland Prairie	S1
GLADE	
Limestone Glade	S2
Dolomite Glade	S3
Chert Glade	S2
Sandstone Glade	S2

<u>COMMUNITY TYPE</u>	<u>SRANK</u>
GLADE (Cont.)	
Igneous Glade	S3
CLIFF/TALUS	
Dry Limestone/Dolomite Cliff	S5
Moist Limestone/Dolomite Cliff	S4
Dry Sandstone Cliff	S3
Moist Sandstone Cliff	S3
Dry Chert Cliff	S3
Moist Chert Cliff	S2
Dry Igneous Cliff	S4
Moist Igneous Cliff	S4
Unconsolidated Bluff	S3
Limestone/Dolomite Talus	S4
Igneous Talus	S4
STREAM EDGE	
Sand Bar	S3
Gravel Wash	S3
Stream Bank/River Bank	S2
WETLAND	
Marsh	S2
Shrub Swamp	S2
Swamp	S1
Pond Marsh	S1
Pond Shrub Swamp	S2
Pond Swamp	S1
Ozark Fen	S2
Prairie Fen	S2
Forested Fen	S2
Glacial Fen	S1
Acid Seep	S2
Saline Seep	S1
Limestone/Dolomite Spring	S3
CAVE	
Cave	S4
Cave Spring	S4
Spring	S4

THREATENED AND ENDANGERED SPECIES IN MISSOURI

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>STATE¹ STATUS</u>	<u>FEDERAL² 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 ³	Endangered	Threatened
<i>Lesquerella filiformis</i>	Missouri Bladder-Pod	Endangered	Threatened
<i>Lindera melissifolium</i>	Pondberry	Endangered	Endangered
<i>Platanthera leucophaea</i>	E. Prairie Fringed Orchid ³	Endangered	Threatened
<i>Platanthera praeclara</i>	W. Prairie Fringed Orchid	Endangered	Threatened
<i>Trifolium stoloniferum</i>	Running Buffalo Clover	Endangered	Endangered
MOLLUSKS			
<i>Antrobia culveri</i>	Tumbling Creek Cavesnail	Endangered	Endangered
<i>Elliptio crassidens</i>	Elephantear	Endangered	
<i>Epioblasma florentina curtisii</i>	Curtis Pearlymussel ³	Endangered	Endangered
<i>Epioblasma triquetra</i>	Snuffbox	Endangered	
<i>Fusconaia ebena</i>	Ebonyshell	Endangered	
<i>Lampsilis rafinesqueana</i>	Neosho Mucket		Candidate
<i>Lampsilis abrupta</i>	Pink Mucket	Endangered	Endangered
<i>Lampsilis higginsii</i>	Higgins Eye ³	Endangered	Endangered
<i>Leptodea leptodon</i>	Scaleshell	Endangered	Endangered
<i>Plethobasus cyphus</i>	Sheepnose	Endangered	
<i>Potamilus capax</i>	Fat Pocketbook	Endangered	Endangered
<i>Quadrula fragosa</i>	Winged Mapleleaf ³	Endangered	Endangered
INSECTS			
<i>Nicrophorus americanus</i>	American Burying Beetle ³	Endangered	Endangered
<i>Somatochlora hineana</i>	Hine's Emerald Dragonfly	Endangered	Endangered
FISH			
<i>Cottus</i> sp.	Grotto Sculpin		Candidate
<i>Acipenser fulvescens</i>	Lake Sturgeon	Endangered	
<i>Amblyopsis rosae</i>	Ozark Cavefish	Endangered	Threatened
<i>Crystallaria asprella</i>	Crystal Darter	Endangered	
<i>Etheostoma cragini</i>	Arkansas Darter		Candidate
<i>Etheostoma fusiforme</i>	Swamp Darter	Endangered	
<i>Etheostoma histrio</i>	Harlequin Darter	Endangered	
<i>Etheostoma nianguae</i>	Niangua Darter	Endangered	Threatened
<i>Etheostoma parvipinne</i>	Goldstripe Darter	Endangered	
<i>Etheostoma whipplei</i>	Redfin Darter	Endangered	
<i>Forbesichthys agassizi</i>	Spring Cavefish	Endangered	
<i>Hybognathus hayi</i>	Cypress Minnow	Endangered	
<i>Notropis maculatus</i>	Taillight Shiner	Endangered	
<i>Notropis sabinae</i>	Sabine Shiner	Endangered	
<i>Notropis topeka</i>	Topeka Shiner	Endangered	Endangered
<i>Noturus eleutherus</i>	Mountain Madtom	Endangered	
<i>Percina nasuta</i>	Longnose Darter	Endangered	
<i>Platygobio gracilis</i>	Flathead Chub	Endangered	
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	Endangered	Endangered
<i>Umbra limi</i>	Central Mudminnow	Endangered	
<i>Noturus placidus</i>	Neosho Madtom	Endangered	Threatened

<u>COMMON NAME</u>	<u>SCIENTIFIC NAME</u>	<u>STATE¹ STATUS</u>	<u>FEDERAL² STATUS</u>
AMPHIBIANS			
<i>Cryptobranchus a. alleganiensis</i>	Eastern Hellbender	Endangered	
<i>Cryptobranchus a. bishopi</i>	Ozark Hellbender	Endangered	Candidate
REPTILES			
<i>Deirochelys reticularia miaria</i>	Western Chicken Turtle	Endangered	
<i>Elaphe vulpina vulpina</i>	Western Fox Snake	Endangered	
<i>Emydoidea blandingii</i>	Blanding's Turtle	Endangered	
<i>Kinosternon f. flavescens</i>	Yellow Mud Turtle	Endangered	
<i>Kinosternon f. spooneri</i>	Illinois Mud Turtle	Endangered	
<i>Nerodia cyclopion</i>	MS Green Water Snake ³	Endangered	
<i>Sistrurus c. catenatus</i>	Eastern Massasauga	Endangered	Candidate
BIRDS			
<i>Aimophila aestivalis</i>	Bachman's Sparrow	Endangered	
<i>Botaurus lentiginosus</i>	American Bittern	Endangered	
<i>Circus cyaneus</i>	Northern Harrier	Endangered	
<i>Egretta thula</i>	Snowy Egret	Endangered	
<i>Falco peregrinus</i>	Peregrine Falcon	Endangered	
<i>Haliaeetus leucocephalus</i>	Bald Eagle	Endangered	Threatened
<i>Limnothlypis swainsonii</i>	Swainson's Warbler	Endangered	
<i>Rallus elegans</i>	King Rail	Endangered	
<i>Sterna antillarum athalassos</i>	Interior Least Tern	Endangered	Endangered
<i>Tympanuchus cupido</i>	Greater Prairie-Chicken	Endangered	
<i>Tyto alba</i>	Barn Owl	Endangered	
MAMMALS			
<i>Canus lupus</i>	Gray Wolf		Threatened
<i>Corynorhinus townsendii ingens</i>	Ozark Big-Eared Bat ³	Endangered	Endangered
<i>Lepus californicus</i>	Black-Tailed Jackrabbit	Endangered	
<i>Myotis grisescens</i>	Gray Bat	Endangered	Endangered
<i>Myotis sodalis</i>	Indiana Bat	Endangered	Endangered
<i>Puma concolor</i>	Mountain Lion	Endangered	
<i>Spilogale putorius</i>	Spotted Skunk	Endangered	

¹ Listed in the Wildlife Code of Missouri, Rule 3 CSR10-4, 111 Endangered Species.

² Federally Listed Species under the Endangered Species Act (ESA) of 1973 as Amended:

Endangered = Any species that is in danger of extinction throughout all or a significant portion of its range.

Threatened = Any species that is likely to become endangered within the foreseeable future.

Candidate = Plants or animals that the U.S. Fish & Wildlife Service is reviewing for possible addition to the list of Endangered and Threatened species.

Proposed = Any species proposed for listing as Threatened or Endangered by the U.S. Fish & Wildlife Service.

³ Considered extirpated, historical or accidental occurrence in Missouri.

SCIENTIFIC NAME	COMMON NAME	SRANK	GRANK	STATE STATUS	FEDERAL STATUS
LICHENS					
<i>Cladonia cervicomis</i> ssp. <i>verticillata</i>	A Lichen	S?	G4G5TNR		
<i>Cladonia leporina</i>	A Lichen	S2	G4G5		
<i>Collema nigrescens</i>	A Lichen	SU	G3G5		
<i>Dendriscocaulon intricatum</i>	A Lichen	S?	G2G4		
<i>Dermatocarpon mouliinsii</i>	A Lichen	S1	GNR		
<i>Dibaeis absoluta</i>	A Lichen	S1	G4		
<i>Flavoparmelia rutidota</i>	A Lichen	S?	GNR		
<i>Graphina sophisticascens</i>	A Lichen	SH	GNR		
<i>Imshaugia aleurites</i>	A Lichen	S?	G5		
<i>Lecidea lurida</i>	A Lichen	SU	GNR		
<i>Pannaria rubiginosa</i>	A Lichen	S1	G4?		
<i>Parmelia squarrosa</i>	A Lichen	S?	G5		
<i>Parmelina horrescens</i>	A Lichen	S1	G5		
<i>Parmotrema hypoleucinum</i>	A Lichen	S1	GNR		
<i>Parmotrema madagascariaceum</i>	A Lichen	S?	G3G5		
<i>Parmotrema tinctorum</i>	A Lichen	S2	G5?		
<i>Pseudocyphellaria aurata</i>	A Lichen	S1	G3G5		
<i>Psora icterica</i>	A Lichen	S1	G5?		
<i>Psora tuckermanii</i>	A Lichen	SRF	G5		
<i>Pycnothelia papillaria</i>	A Lichen	S1	G3G5		
<i>Ramalina intermedia</i>	A Lichen	S1	G4G5		
<i>Rimelia subisidiosa</i>	A Lichen	S1	G4G5		
<i>Tuckermannopsis ciliaris</i>	A Lichen	S?	G3G5		
<i>Usnea angulata</i>	A Lichen	S1	G2G3		
<i>Xanthoparmelia australasica</i>	A Lichen	S1	G5		
<i>Xanthoparmelia tinctoria</i>	A Lichen	SRF	G5		
LIVERWORTS AND HORNWORTS					
<i>Aneura maxima</i>	A Liverwort	SU	GNR		
<i>Aneura pinguis</i>	A Liverwort	SU	G5		
<i>Anthoceros punctatus</i>	A Hornwort	S?	G5		
<i>Bazzania trilobata</i>	A Liverwort	S1	G5		
<i>Kurzia setacea</i>	A Liverwort	S1	G4G5		
<i>Kurzia sylvatica</i>	A Liverwort	S1	G5		
<i>Marchantia aquatica</i>	A Liverwort	SU	GNR		
<i>Marsupella sphacelata</i>	A Liverwort	S1	G5		
<i>Metzgeria conjugata</i>	A Liverwort	S1S2	G5		
<i>Metzgeria furcata</i>	A Liverwort	S?	G5		
<i>Nardia lescurii</i>	A Liverwort	S?	G3?		
<i>Notothylas orbicularis</i>	A Hornwort	S1	G5		
<i>Nowellia curvifolia</i>	A Liverwort	S?	G5		
<i>Phaeoceros oreganus</i>	A Hornwort	S1	GNRQ		
<i>Preissia quadrata</i>	A Liverwort	S?	G5		
<i>Ptilidium pulcherrimum</i>	A Liverwort	S1	G5		
<i>Rectolejeunea maxonii</i>	A Liverwort	S1	G4		
<i>Riccardia multifida</i>	A Liverwort	S1	G5		
<i>Riccardia palmata</i>	A Liverwort	S1	G5		
<i>Riccia stenophylla</i>	A Liverwort	SU	G3G5		
<i>Riccia sullivantii</i>	A Liverwort	S?	G4Q		

SCIENTIFIC NAME	COMMON NAME	SRANK	GRANK	STATE STATUS	FEDERAL STATUS
MOSSES					
<i>Acaulon muticum</i> var. <i>rufescens</i>	A Moss	S?	G4G5T4		
<i>Anomobryum filiforme</i>	A Moss	S1	G4		
<i>Archidium alternifolium</i>	A Moss	S1	G4G5		
<i>Barbula convoluta</i> var. <i>convoluta</i>	A Moss	S?	G5TNR		
<i>Brachelyma subulatum</i>	A Moss	S1	G4G5		
<i>Bruchia flexuosa</i>	A Moss	S?	G4		
<i>Bryoxiphium norvegicum</i>	Sword Moss	S1	G5?		
<i>Bryum algovicum</i> var. <i>algovicum</i>	A Moss	S1	G4G5TNR		
<i>Bryum cyclophyllum</i>	A Moss	S?	G4G5		
<i>Bryum klinggraeffii</i>	A Moss	S?	G4G5		
<i>Bryum miniatum</i>	A Moss	S1	G3G4		
<i>Bryum subapiculatum</i>	A Moss	SX	G5?		
<i>Bryum uliginosum</i>	A Moss	S1	G3G5		
<i>Calliergonella cuspidata</i>	A Moss	S?	G5		
<i>Campylium polygamum</i>	A Moss	S1	G5		
<i>Campylium protensum</i>	A Moss	SU	G5T3T5		
<i>Campylium radicale</i>	A Moss	SU	G3G5		
<i>Campylium stellatum</i> var. <i>stellatum</i>	Yellow Starry Fen Moss	SU	G5T5		
<i>Campylopodia stenocarpa</i>	A Moss	S1	G5		
<i>Campylopus tallulensis</i>	A Moss	S1	G4		
<i>Dichelyma capillaceum</i>	A Moss	S1	G5		
<i>Dicranella rufescens</i>	A Moss	S1S2	G5?		
<i>Dicranum polysetum</i>	A Moss	S1	G5		
<i>Didymodon revolutus</i>	A Moss	S1	G4		
<i>Didymodon rigidulus</i> var. <i>gracilis</i>	A Moss	S?	G5T5?		
<i>Didymodon rigidulus</i> var. <i>rigidulus</i>	A Moss	S1	G5T4?		
<i>Encalypta procera</i>	Extinguisher Moss	S1	G4G5		
<i>Ephemerum cohaerens</i>	Emerald Dewdrops	S1	G4G5		
<i>Ephemerum crassinervium</i> var. <i>crassinervium</i>	A Moss	S?	G5T4		
<i>Ephemerum serratum</i>	A Moss	SU	G5		
<i>Ephemerum spinulosum</i>	Emerald Dewdrops	S?	G4G5		
<i>Fontinalis sullivantii</i>	A Moss	S1	G3G5		
<i>Forsstroemia producta</i>	A Moss	S1	G5?		
<i>Grimmia olneyi</i>	A Moss	S?	G3G5		
<i>Grimmia ovalis</i>	A Moss	SRF	G5?		
<i>Grimmia teretinervis</i>	A Moss	S1	G3G5		
<i>Helodium paludosum</i>	A Moss	S1	G3G5		
<i>Homaliadelphus sharpii</i>	Sharp's Homaliadelphus	S1	G3?		
<i>Hypnum cupressiforme</i> var. <i>filiforme</i>	A Moss	S1	G5TNR		
<i>Hypnum imponens</i>	A Moss	S?	G5		
<i>Hypnum pallescens</i>	A Moss	S1	G5		
<i>Isopterygiopsis muelleriana</i>	A Moss	S1	G5		
<i>Leskea australis</i>	A Moss	S1	G4		
<i>Leskea polycarpa</i> var. <i>polycarpa</i>	A Moss	S?	G4G5TNR		
<i>Leucodon brachypus</i> var. <i>brachypus</i>	A Moss	SRF	G5T5		

SCIENTIFIC NAME	COMMON NAME	SRANK	GRANK	STATE STATUS	FEDERAL STATUS
Micromitrium megalosporum	A Moss	S1S2	G4		
Mnium thomsonii	A Moss	S?	G5		
Myurella sibirica	A Moss	S?	G4?		
Neckera bessi	A Moss	S1	G5		
Orthotrichum anomalum	A Moss	S?	G4G5		
Orthotrichum diaphanum	A Moss	S?	G5		
Orthotrichum elegans	A Moss	S1	G5		
Physcomitrella patens	A Moss	S1S2	G4		
Physcomitrium collenchymatum	A Moss	S1	G2G4		
Plagiomnium ellipticum	A Moss	S?	G5		
Plagiomnium rostratum	A Moss	S1	G5		
Plagiothecium denticulatum	A Moss	S1	G5		
Platylomella lescurii	A Moss	S?	G5		
Polytrichum piliferum	A Hair Cap Moss	S1	G5		
Pseudotaxiphyllum distichaceum	A Moss	S?	G4G5		
Ptychomitrium sinense	A Moss	S1	G4G5		
Pyramidula tetragona	A Moss	S?	G3G5		
Rhabdoweisia crispata	A Moss	S1	G5		
Rhytidiadelphus triquetrus	Shaggy Moss	S?	G5		
Rhytidium rugosum	Golden Glade-moss	S1	G5		
Scopelophila ligulata	Copper Moss	SRF	G5?		
Seligeria calcarea	A Moss	S?	G4?		
Seligeria donniana	A Moss	S1	G4G5		
Seligeria pusilla	A Moss	S1	G3G5		
Sematophyllum marylandicum	A Moss	S1	G5		
Sphagnum affine	Sphagnum	S1	G5		
Sphagnum angustifolium	Narrowleaf Peatmoss	S1	G5		
Sphagnum bartlettianum	Sphagnum	SU	GNR		
Sphagnum capillifolium	Northern Peatmoss	S1	G5		
Sphagnum centrale	Sphagnum	S1S2	G5		
Sphagnum cuspidatum	Sphagnum	SRF	G5		
Sphagnum fallax	Sphagnum	SRF	G5		
Sphagnum fimbriatum var. fimbriatum	Sphagnum	S1	GNR		
Sphagnum girgensohnii	Sphagnum	SRF	G5		
Sphagnum henryense	Sphagnum	S1	GNR		
Sphagnum inundatum	Sphagnum	S1	GNR		
Sphagnum margaritae	Peatmoss	S?	GNR		
Sphagnum recurvum	Sphagnum	S1	G5		
Sphagnum russowii	Sphagnum	SRF	G5		
Sphagnum subtile	Sphagnum	SRF	G5?Q		
Sphagnum tenerum	Sphagnum	SRF	G5		
Sphagnum trinitense	Sphagnum	S1	GNR		
Syrrhopodon texanus	A Moss	S1	G5		
Thamnobryum alleghaniense	A Moss	S1	G5?		
Tortula papillosa	A Moss	S?	G5		
Trematodon longicollis	A Moss	S1	G5		
Zygodon apiculatus	A Moss	S1	GU		

SCIENTIFIC NAME	COMMON NAME	SRANK	GRANK	STATE STATUS	FEDERAL STATUS
FERNS AND FERN ALLIES					
<i>Asplenium montanum</i>	Mountain Spleenwort	SH	G5		
<i>Botrychium biternatum</i>	Few-lobed Grape Fern	S1	G5		
<i>Cheilanthes alabamensis</i>	Alabama Lip-fern	S1	G4G5		
<i>Cheilanthes tomentosa</i>	Woolly Lip-fern	S1	G5		
<i>Cystopteris tenuis</i>	A Bladderfern	S1	G4G5		
<i>Dennstaedtia punctilobula</i>	Hay-scented Fern	S2	G5		
<i>Dryopteris carthusiana</i>	Spinulose Shield Fern	S2	G5		
<i>Dryopteris celsa</i>	Log Fern	S1	G4		
<i>Dryopteris cristata</i>	Crested Fern	S1	G5		
<i>Dryopteris goldiana</i>	Goldie's Fern	S2	G4		
<i>Dryopteris intermedia</i>	Evergreen Woodfern	S1	G5		
<i>Equisetum pratense</i>	Meadow Horsetail	SRF	G5		
<i>Huperzia porophila</i>	Fir Clubmoss	S2	G4		
<i>Isoetes engelmannii</i> var. <i>engelmannii</i>	Engelmann's Quillwort	S1?	G4TNR		
<i>Lycopodium dendroideum</i>	Round-branched Ground Pine	S1	G5		
<i>Lycopodium digitatum</i>	A Clubmoss	S2	G5		
<i>Lycopodium tristachyum</i>	Ground Cedar	S1	G5		
<i>Marsilea mucronata</i>	Marsilea	SRF	G5Q		
<i>Matteuccia struthiopteris</i> var. <i>pensylv</i>	Ostrich Fern	S2	G5T5		
<i>Ophioglossum crotalophoroides</i>	Bulbous Adder's-tongue	S1	G5		
<i>Ophioglossum petiolatum</i>	Stalked Adder's-tongue	SX	G5		
<i>Pellaea glabella</i> var. <i>missouriensis</i>	Missouri Cliffbrake	S1S2	G5T1T2		
<i>Pilularia americana</i>	American Pillwort	SU	G5		
<i>Woodsia obtusa</i> ssp. <i>occidentalis</i>	Blunt-lobe Woodsia	S1	G5TNR		
<i>Woodwardia areolata</i>	Netted Chain Fern	S2	G5		
FLOWERING PLANTS					
<i>Acalypha deamii</i>	Large Seeded Mercury	SH	G4?		
<i>Aconitum uncinatum</i>	Southern Monkshood	S1	G4		
<i>Agalinis auriculata</i>	Auriculate False Foxglove	S2	G3		
<i>Agalinis heterophylla</i>	Prairie False Foxglove	S1	G4G5		
<i>Agalinis purpurea</i>	Purple False Foxglove	S2	G5		
<i>Agalinis skinneriana</i>	Pale Gerardia	S3	G3		
<i>Agalinis viridis</i>	Green False Foxglove	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>Ammannia auriculata</i>	Wright Ammannia	SRF	G5		
<i>Amsonia ciliata</i> var. <i>filifolia</i>	Ciliate Blue Star	S2S3	G5?T4?		
<i>Anemone cylindrica</i>	Thimbleweed	S2	G5		
<i>Anemone quinquefolia</i>	Wood Anemone	S1	G5		
<i>Arabis glabra</i>	Tower Mustard	S1	G5		
<i>Aralia nudicaulis</i>	Wild Sarsaparilla	S2	G5		

<i>Arenaria lateriflora</i>	Grove Sandwort	S2S3	G5		
<i>Aristida adscensionis</i>	Sixweeks Three-awn	SH	G5		
<i>Aristida desmantha</i>	Curly Three-awn	S1	G5		
SCIENTIFIC NAME	COMMON NAME	SRANK	GRANK	STATE STATUS	FEDERAL STATUS
<i>Aristida lanosa</i>	Woollyleaf Three-awn	S1	G5		
<i>Armoracia lacustris</i>	Lake Cress	S2	G4?		
<i>Aronia melanocarpa</i>	Black Chokeberry	S1	G5		
<i>Artemisia dracuncululus</i> ssp. <i>glauca</i>	A Wormwood	SH	G5T4T5Q		
<i>Asclepias meadii</i>	Mead's Milkweed	S2	G2	E	T
<i>Asclepias speciosa</i>	Showy Milkweed	SA	G5		
<i>Aster brachyactis</i>	Rayless Alkali Aster	SH	G5T5		
<i>Aster dumosus</i> var. <i>strictior</i>	Tradescant Aster	S2	G5T4		
<i>Aster fragilis</i> var. <i>fragilis</i>	Small White Aster	S1	G4G5TNRQ		
<i>Aster furcatus</i>	Forked Aster	S2	G3		
<i>Aster macrophyllus</i>	Big-leaved Aster	S2	G5		
<i>Aster pubentior</i>	Flat-topped White Aster	S1	G5		
<i>Aster subulatus</i> var. <i>ligulatus</i>	Saltmarsh Aster	S2	G5T5		
<i>Astragalus lotiflorus</i>	Low Milk Vetch	S2	G5		
<i>Astranthium integrifolium</i>	Western Daisy	S2	G5		
<i>Bartonia paniculata</i>	Screwstem	S1	G5		
<i>Bartonia virginica</i>	Yellow Bartonia	S1	G5		
<i>Berberis canadensis</i>	American Barberry	S2	G3		
<i>Bergia texana</i>	Bergia	S2	G5		
<i>Berula erecta</i>	Cut-leaved Water-parsnip	S1	G4G5		
<i>Bidens laevis</i>	A Beggar's Tick	SH	G5		
<i>Bolboschoenus maritimus</i> ssp. <i>paludosus</i>	Bayonet Grass	S1	G5TNR		
<i>Boltonia decurrens</i>	Decurrent False Aster	S1	G2	E	T
<i>Bouteloua gracilis</i>	Blue Grama	S1	G5		
<i>Bouteloua hirsuta</i>	Hairy Grama	S2	G5		
<i>Bromus ciliatus</i>	Fringed Brome	SRF	G5		
<i>Bromus latiglumis</i>	A Brome	S2S3	G5		
<i>Bromus nottowayanus</i>	Satin Brome	S2S3	G3G4		
<i>Buchloe dactyloides</i>	Buffalo Grass	S1	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		
<i>Calamovilfa longifolia</i> var. <i>longifolia</i>	Long-leaved Reed Grass	SH	G5T5		
<i>Callicarpa americana</i>	French Mulberry	S1	G5		
<i>Callirhoe bushii</i>	Bush's Poppy Mallow	S2	G3		
<i>Callirhoe triangulata</i>	Clustered Poppy Mallow	SH	G3		
<i>Calopogon tuberosus</i>	Grass Pink Orchid	S2	G5		
<i>Caltha palustris</i>	Marsh Marigold	S1	G5		
<i>Camassia angusta</i>	A Wild Hyacinth	S3	G5?Q		
<i>Campanula aparinoides</i>	Marsh Bellflower	S1	G5		
<i>Campanula rotundifolia</i>	Harebell	S1	G5		
<i>Carex abscondita</i>	A Sedge	S1	G4G5		
<i>Carex alata</i>	Broadwing Sedge	S2S3	G5		
<i>Carex albicans</i> var. <i>australis</i>	Bellow Beaked Sedge	S1	G5T5		
<i>Carex albolutescens</i>	Greenish-white Sedge	S1S2	G5		
<i>Carex aquatilis</i> var. <i>aquatilis</i>	Water Sedge	SRF	G5T5		
<i>Carex aquatilis</i> var. <i>substricta</i>	A Sedge	S1	G5TNR		

<i>Carex arkansana</i>	A Sedge	S3	G4		
<i>Carex atherodes</i>	Awned Sedge	S1	G5		
<i>Carex atlantica</i> ssp. <i>atlantica</i>	A Sedge	S1	G5T4		
<i>Carex bromoides</i>	A Sedge	S2	G5		
<i>Carex buxbaumii</i>	Brown Bog Sedge	S2	G5		
SCIENTIFIC NAME	COMMON NAME	SRANK	GRANK	STATE STATUS	FEDERAL STATUS
<i>Carex cherokeensis</i>	Cherokee Sedge	S2	G4G5		
<i>Carex communis</i>	Fibrous-root Sedge	S1	G5		
<i>Carex comosa</i>	Bristly Sedge	S2	G5		
<i>Carex conoidea</i>	Field Sedge	S1	G5		
<i>Carex debilis</i> var. <i>debilis</i>	White-edge Sedge	S1	G5T5		
<i>Carex debilis</i> var. <i>rudgei</i>	White-edge Sedge	SRF	G5T5		
<i>Carex decomposita</i>	Epiphytic Sedge	S3	G3		
<i>Carex fissa</i> var. <i>fissa</i>	A Sedge	S1	G3G4QT3?		
<i>Carex flaccosperma</i>	A Sedge	S1	G5		
<i>Carex gigantea</i>	Giant Sedge	S1S2	G4		
<i>Carex gracillima</i>	Graceful Sedge	S1	G5		
<i>Carex jorii</i>	Cypress-swamp Sedge	SH	G4G5		
<i>Carex lacustris</i>	Lake-bank Sedge	S2	G5		
<i>Carex laxiculmis</i>	Spreading Sedge	S2	G5		
<i>Carex laxiflora</i> var. <i>laxiflora</i>	A Carex	S1	G5T5		
<i>Carex longii</i>	Greenish-white Sedge	S1	G5		
<i>Carex microdonta</i>	A Sedge	S1	G4		
<i>Carex molestiformis</i>	A Sedge	S2	GNR		
<i>Carex nigromarginata</i> var. <i>floridana</i>	A Sedge	S1	G4G5T5?		
<i>Carex oklahomensis</i>	Oklahoma Sedge	S2	G4		
<i>Carex oxylepis</i>	Sharp-scale Sedge	S2	G5?		
<i>Carex prasina</i>	Drooping Sedge	S1	G4		
<i>Carex reniformis</i>	Reniform Sedge	S1	G4?		
<i>Carex sartwellii</i>	Sartwell's Sedge	S1	G4G5		
<i>Carex scabrata</i>	Rough Sedge	SH	G5		
<i>Carex socialis</i>	A Sedge	S2	G4		
<i>Carex sprengelii</i>	Longbeak Sedge	S1	G5?		
<i>Carex sterilis</i>	A Sedge	S1	G4		
<i>Carex straminea</i>	Straw Sedge	S1	G5		
<i>Carex stricta</i>	Tussock Sedge	S2?	G5		
<i>Carex sychnocephala</i>	A Sedge	S1	G4		
<i>Carex tenera</i> var. <i>echinodes</i>	A Sedge	SH	G5TNRQ		
<i>Carex tetanica</i>	Rigid Sedge	S1	G4G5		
<i>Carex texensis</i>	A Sedge	S1	G5		
<i>Carex timida</i>	Timid Sedge	S1S2	G2G3		
<i>Carex tonsa</i>	Shaved Sedge	SH	G4G5		
<i>Carex triangularis</i>	Triangular Sedge	S1	G5		
<i>Carex trichocarpa</i>	Hairy-fruited Sedge	S1	G4		
<i>Carex vesicaria</i> var. <i>monile</i>	A Sedge	S2?	G5T4		
<i>Carex willdenowii</i>	Willdenow's Sedge	S1?	G5		
<i>Carex woodii</i>	Wood's Sedge	SRF	G4		
<i>Carya glabra</i> var. <i>glabra</i>	Pignut Hickory	SU	G5T5		
<i>Carya pallida</i>	Sand Hickory	S2S3	G5		
<i>Castanea pumila</i> var. <i>ozarkensis</i>	Ozark Chinquapin	S2	G5T3		
<i>Castilleja purpurea</i> var. <i>purpurea</i>	Purple Paintbrush	SH	G5TNR		
<i>Castilleja sessiliflora</i>	Downy Painted Cup	S2	G5		
<i>Cayaponia grandifolia</i>	A Gourd	S1	G4		

<i>Centrosema virginianum</i>	Coastal Butterfly-pea	SU	G5
<i>Ceratophyllum echinatum</i>	Coontail	S1?	G4?

SCIENTIFIC NAME	COMMON NAME	SRANK	GRANK	STATE STATUS	FEDERAL STATUS
<i>Chaetopappa asteroides</i>	Common Leastdaisy	S2S3	G5		
<i>Chamaesyce geyeri</i>	Geyer's Spurge	S1	G5		
<i>Chasmanthium laxum</i> ssp. <i>laxum</i>	Slender Spike Grass	S1	G5TNR		
<i>Chasmanthium laxum</i> ssp. <i>sessiliflorum</i>	A Spike Grass	SH	G5T5		
<i>Chelone obliqua</i> var. <i>speciosa</i>	Rose Turtlehead	S2	G4T3		
<i>Chenopodium strictum</i> var. <i>glaucophyllu</i>	A Goosefoot	SH	G5TU		
<i>Cissus incisa</i>	Marine Vine	S2	G3G5		
<i>Clematis fremontii</i>	Fremont's Leather Flower	S3	G5		
<i>Clematis viorna</i>	A Leatherflower	S1	G5		
<i>Cleome serrulata</i>	Rock Mountain Bee Plant	SH	G5		
<i>Coeloglossum viride</i> var. <i>virescens</i>	Long-bracted Orchid	S1	G5T5		
<i>Coelorachis cylindrica</i>	Joint Grass	S1	G4G5		
<i>Conyza canadensis</i> var. <i>pusilla</i>	Fleabane	S1S2	G5T5		
<i>Corallorhiza trifida</i> var. <i>verna</i>	Early Coral Root	SRF	G5TNRQ		
<i>Corispermum hyssopifolium</i>	A Bugseed	SH	GU		
<i>Corispermum orientale</i>	Oriental Tick-seed	SU	GU		
<i>Corydalis micrantha</i> ssp. <i>australis</i>	A Corydalis	S2	G5T5?		
<i>Crataegus marshallii</i>	Parsley Haw	S1	G5		
<i>Crataegus spathulata</i>	A Hawthorn	S1	G5		
<i>Crotonopsis linearis</i>	Narrowleaf Rushfoil	S1	G5		
<i>Cynosciadium digitatum</i>	Finger Dog-shade	S2	G4G5		
<i>Cyperus compressus</i>	Coco Grass	SU	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 grayoides</i>	An Umbrella Sedge	S2	G3		
<i>Cyperus hystericinus</i>	Flatsedge	S1	G4		
<i>Cyperus plukenetii</i>	Plukenet's Cyperus	S1	G5		
<i>Cyperus polystachyos</i> var. <i>texensis</i>	Many-spiked Cyperus	S2	G5T5		
<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	GNR		
<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	G4		
<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>Decodon verticillatus</i>	Swamp Loosestrife	S1	G5		
<i>Delphinium exaltatum</i>	Tall Larkspur	S2	G3		
<i>Descurainia pinnata</i> ssp. <i>pinnata</i>	Tansy Mustard	SH	G5T5		
<i>Desmodium nuttallii</i>	Nuttall Tick-trefoil	S3	G5		
<i>Desmodium ochroleucum</i>	Creamflower Tick Trefoil	SH	G2?		
<i>Desmodium strictum</i>	Pineland Tick Trefoil	S1	G4		
<i>Desmodium viridiflorum</i>	Velvety Tick Trefoil	S1	G5?		
<i>Diarrhena americana</i>	American Beakgrain	S1	G4?		
<i>Dichondra carolinensis</i>	Pony-foot Grass	S1	G5		
<i>Distichlis spicata</i> var. <i>spicata</i>	Seashore Salt Grass	S1	G5TNR		

SCIENTIFIC NAME	COMMON NAME	SRANK	GRANK	STATE STATUS	FEDERAL STATUS
<i>Dodecatheon amethystinum</i>	Amethyst Shooting Star	S2	G4		
<i>Dodecatheon frenchii</i>	French's Shooting Star	S1	G3		
<i>Dracopis amplexicaulis</i>	Clasping Leaved Coneflower	S1?	G5		
<i>Echinacea angustifolia</i> var. <i>angustifolia</i>	Narrow-leaved Coneflower	S1	G4T4		
<i>Echinochloa walteri</i>	A Barnyard Grass	S1	G5		
<i>Echinodorus tenellus</i> var. <i>parvulus</i>	Dwarf Burhead	S1	G3T3		
<i>Elatine triandra</i>	Waterwort	SH	G5		
<i>Eleocharis atropurpurea</i>	A Spike Rush	S1	G4G5		
<i>Eleocharis equisetoides</i>	Horsetail Spike Rush	SH	G4		
<i>Eleocharis lanceolata</i>	Lance-like Spike Rush	S1	G4G5		
<i>Eleocharis wolfii</i>	Wolf's Spike Rush	S3	G3?		
<i>Elodea canadensis</i>	Broad Waterweed	SU	G5		
<i>Elymus diversiglumis</i>	Wild Rye	SH	G3?Q		
<i>Epifagus virginiana</i>	Beech Drops	S2	G5		
<i>Epilobium leptophyllum</i>	Willow Herb	S1	G5		
<i>Eragrostis glomerata</i>	A Love Grass	S1	G3G5		
<i>Eragrostis reptans</i>	Creeping Love Grass	S1	G5		
<i>Erianthus giganteus</i>	Plume Grass	S1	G5		
<i>Erianthus strictus</i>	Narrow Plumegrass	SH	G5		
<i>Eriogonum longifolium</i> var. <i>longifolium</i>	Umbrella Plant	S2	G4T4		
<i>Erysimum capitatum</i> var. <i>capitatum</i>	Western Wallflower	S3?	G5T5		
<i>Euonymus americanus</i>	Strawberry Bush	S2	G5		
<i>Eupatorium maculatum</i>	Spotted Joe-pye Weed	S1	G5		
<i>Eupatorium rotundifolium</i> var. <i>scabridum</i>	A Thoroughwort	S1?	G5TNR		
<i>Eupatorium semiserratum</i>	A Thoroughwort	S1S2	G5		
<i>Festuca sororia</i>	A Fescue	SH	G4		
<i>Filipendula rubra</i>	Queen of the Prairie	S2	G4G5		
<i>Fimbristylis littoralis</i> var. <i>littoralis</i>	A Fimbristylis	S1?	G3G5TNR		
<i>Fimbristylis miliacea</i>	A Fimbristylis	SRF	G5		
<i>Floerkea proserpinacoides</i>	False Mermaid	SU	G5		
<i>Fragaria vesca</i> var. <i>americana</i>	Woodland Strawberry	S1	G5T5		
<i>Fuirena simplex</i> var. <i>aristulata</i>	An Umbrella Grass	S2?	G5TNR		
<i>Gaillardia aestivalis</i> var. <i>flavovirens</i>	A Blanket Flower	SH	G5TNR		
<i>Galium boreale</i> ssp. <i>septentrionale</i>	Northern Bedstraw	S2	G5TNR		
<i>Gaura coccinea</i> var. <i>coccinea</i>	Scarlet Gaura	S1	G5TNR		
<i>Gaylussacia baccata</i>	Black Huckleberry	S1	G5		
<i>Gentiana andrewsii</i> var. <i>andrewsii</i>	Closed Gentian	S1	G5?T5?		
<i>Geocarpon minimum</i>	Geocarpon	S2	G2	E	T
<i>Geum virginianum</i>	Pale Avens	S1	G5		
<i>Gillenia trifoliata</i>	Indian Physic	SH	G4G5		
<i>Glyceria acutiflora</i>	Sharp-scaled Manna Grass	S3	G5		
<i>Glycyrrhiza lepidota</i> var. <i>lepidota</i>	Wild Licorice	SH	G5TNR		
<i>Gratiola viscidula</i>	Hedge Hyssop	S1	G4G5		
<i>Hedyotis bosci</i>	A Bluet	S1	G5		
<i>Hedyotis uniflora</i>	Clustered Bluets	S1	G5		
<i>Helenium virginicum</i>	Virginia Sneezeweed	S1	G2	E	T
<i>Helianthemum canadense</i>	A Rockrose	SU	G5		
<i>Helianthus angustifolius</i>	Swamp Sunflower	S2	G5		
<i>Heliotropium curassavicum</i>	Seaside Heliotrope	S1	G5		

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<i>Heterotheca canescens</i>	Hoary Golden Aster	SH	G5?		
<i>Heuchera parviflora</i> var. <i>parviflora</i>	Little Leaved Alum Root	S1	G4T4		
<i>Hottonia inflata</i>	Featherfoil	S2	G4		
<i>Hydrocotyle verticillata</i> var. <i>verticil</i>	Water Pennywort	S1	G5T5		
<i>Hydrolea ovata</i>	Ovate Fiddleleaf	S2	G5		
<i>Hypericum adpressum</i>	Creeping St. John's-wort	S1	G2G3		
<i>Hypericum canadense</i>	Canadian St. John's-wort	SRF	G5		
<i>Hypericum densiflorum</i>	Bushy St. John's-wort	SRF	G5		
<i>Hypericum lobocarpum</i>	A St. John's Wort	SH	G4Q		
<i>Hypericum majus</i>	Greater St. John's-wort	SH	G5		
<i>Hypericum pyramidatum</i>	Great St. John's-wort	S1	G4		
<i>Ilex verticillata</i> var. <i>padifolia</i>	Winterberry	S3	G5TNR		
<i>Isolepis molestus</i>	Gulf Coast Bulrush	SH	G4?		
<i>Isotria medeoloides</i>	Small Whorled Pogonia	SH	G2	E	T
<i>Isotria verticillata</i>	Large Whorled Pogonia	S1S2	G5		
<i>Iva xanthifolia</i>	A Marsh Elder	S1	G5		
<i>Juncus alpinoarticulatus</i>	Richardson Rush	SH	G5		
<i>Juncus balticus</i> var. <i>littoralis</i>	Baltic Rush	S1	G5T5		
<i>Juncus brachyphyllus</i>	Small-headed Rush	SH	G5		
<i>Juncus bufonius</i> var. <i>bufonius</i>	Toad Rush	S1	G5T5		
<i>Juncus canadensis</i> var. <i>canadensis</i>	Canada Rush	S1	G5T5		
<i>Juncus debilis</i>	Weak Rush	S1	G5		
<i>Juncus nodosus</i>	Knotted Rush	SH	G5		
<i>Juncus validus</i>	A Rush	S1	G5		
<i>Justicia ovata</i>	A Water Willow	S2	G5		
<i>Lactuca hirsuta</i>	Hairy Lettuce	SU	G5?		
<i>Lactuca ludoviciana</i>	Western Lettuce	SH	G4G5		
<i>Lactuca tatarica</i> ssp. <i>pulchella</i>	Blue Lettuce	S1	G5T5		
<i>Lathyrus pusillus</i>	A Wild Pea	SH	G5?		
<i>Lechea racemulosa</i>	Illinois Pinweed	SH	G5		
<i>Leitneria floridana</i>	Corkwood	S2	G3		
<i>Lemna obscura</i>	A Duckweed	SU	G5		
<i>Lemna trisulca</i>	Star Duckweed	S2	G5		
<i>Lemna turionifera</i>	A Duckweed	SH	G5		
<i>Lesquerella filiformis</i>	Missouri Bladder-pod	S3	G3	E	E
<i>Liatris punctata</i> var. <i>nebraskana</i>	A Blazing Star	S3	G5T3T5		
<i>Liatris scariosa</i> var. <i>nieuwlandii</i>	A Blazing Star	S2	G5?T3T5		
<i>Liatris spicata</i>	Button Snakeroot	SX	G5		
<i>Lilium philadelphicum</i> var. <i>andinum</i>	Prairie Lily	S1	G5T4T5		
<i>Lilium superbum</i>	Turk's Cap Lily	S1	G5		
<i>Limnobia spongia</i>	American Frogbit	S2	G4		
<i>Limnosciadium pinnatum</i>	Pinnate Dogshade	S1	G5?		
<i>Limosella aquatica</i>	Mudwort	SH	G5		
<i>Lindera melissifolium</i>	Pondberry	S1	G2	E	E
<i>Liparis loeselii</i>	Loesel's Twayblade	S2	G5		
<i>Lipocarpha aristulata</i>	Lipocarpha	SU	G5?		
<i>Lipocarpha drummondii</i>	A Lipocarpha	SH	G4G5		
<i>Lobelia puberula</i> var. <i>mineolana</i>	Downy Lobelia	SH	G5TNR		
<i>Lomatium foeniculaceum</i> ssp. <i>foeniculac</i>	Hairy Parsley	S1S3	G5T5		

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<i>Ludwigia leptocarpa</i>	Primrose Willow	S2	G5		
<i>Ludwigia microcarpa</i>	A False Loosestrife	S2	G5		
<i>Ludwigia repens</i>	A False Loosestrife	SU	G5		
<i>Lycopus asper</i>	Bugle Weed	SH	G5		
<i>Lygodesmia juncea</i>	Skeleton Plant	S3	G5		
<i>Lyonia mariana</i>	Stagger Bush	SH	G5		
<i>Lysimachia thyrsoiflora</i>	Tufted Loosestrife	S1	G5		
<i>Malus angustifolia</i>	Narrow-leaved Wild Crab	S1	G5?		
<i>Malvastrum hispidum</i>	Yellow False Mallow	S3	G3G5		
<i>Marshallia caespitosa</i> var. <i>caespitosa</i>	Barbara's Buttons	S3	G4T4		
<i>Marshallia caespitosa</i> var. <i>signata</i>	Barbara's Buttons	S1	G4T4		
<i>Matelea obliqua</i>	Climbing Milkweed	SR	G4?		
<i>Mecardonia acuminata</i>	Water Hyssop	S1	G5		
<i>Medeola virginiana</i>	Indian Cucumber-root	SH	G5		
<i>Menyanthes trifoliata</i> var. <i>minor</i>	Bogbean	S1	G5TNR		
<i>Microseris cuspidata</i>	Prairie Dandelion	S2	G5		
<i>Mimulus glabratus</i> var. <i>fremontii</i>	Roundleaf Monkey Flower	SH	G5T5		
<i>Mitreola petiolata</i>	Miterwort	S1	G5		
<i>Monarda clinopodia</i>	A Horsemint	SH	G5		
<i>Monarda punctata</i> var. <i>occidentalis</i>	Dotted Monarda	S2	G5T4T5		
<i>Monarda punctata</i> var. <i>villicaulis</i>	Horsemint	S2	G5TNR		
<i>Najas flexilis</i>	A Naiad	S1S2	G5		
<i>Najas gracillima</i>	Thread-like Naiad	S2	G5?		
<i>Nemastylis geminiflora</i>	Prairie Iris	S2	G4		
<i>Neviusia alabamensis</i>	Snow Wreath	SH	G2		
<i>Nyssa biflora</i>	Swamp Black Gum	SH	G5		
<i>Obolaria virginica</i>	Virginia Pennywort	S2	G5		
<i>Oenothera clelandii</i>	Evening Primrose	S2	G3G5		
<i>Oenothera fruticosa</i> ssp. <i>fruticosa</i>	Shrubby Sundrops	S1	G5T5		
<i>Oenothera fruticosa</i> ssp. <i>glauca</i>	Shrubby Sundrops	SH	G5T5		
<i>Oenothera perennis</i>	Small Sundrops	S1	G5		
<i>Oenothera rhombipetala</i>	An Evening Primrose	S1S2	G4G5		
<i>Oenothera triloba</i>	Stemless Evening Primrose	S2	G4		
<i>Opuntia macrorhiza</i>	Low Prickly Pear	S2	G5		
<i>Opuntia polyacantha</i> var. <i>polyacantha</i>	Starvation Cactus	SX	G5T5		
<i>Orobanche ludoviciana</i>	A Broomrape	S1	G5		
<i>Orobanche multiflora</i>	A Broomrape	S1	G5		
<i>Oryzopsis racemosa</i>	Black-seeded Mountain Rice	S1	G5		
<i>Oxytropis lambertii</i>	Locoweed	S2	G5		
<i>Panicum acuminatum</i> var. <i>longiligulatum</i>	A Panic Grass	SRF	G5T4T5		
<i>Panicum dichotomum</i> var. <i>mattamuskeeten</i>	A Panic Grass	SH	G5TNR		
<i>Panicum dichotomum</i> var. <i>nitidum</i>	A Panic Grass	S1	G5TNR		
<i>Panicum dichotomum</i> var. <i>yadkinense</i>	A Panic Grass	S1	G5T3T4Q		
<i>Panicum hians</i>	Gaping Panic Grass	S3	G5		
<i>Panicum leibergii</i>	A Panic Grass	SU	G5		
<i>Panicum portoricense</i>	A Panic Grass	S1	G5T5		
<i>Panicum sabulorum</i>	Hemlock Witchgrass	SRF	G5		
<i>Panicum verrucosum</i>	Warty Panicgrass	S1	G4		

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<i>Paronychia virginica</i> var. <i>scoparia</i>	Virginia Whitlow Wort	S1	G4T4Q		
<i>Paspalum bifidum</i>	Pitchfork Paspalum	S1	G5		
<i>Paspalum dissectum</i>	Mudbank Paspalum	SH	G4?		
<i>Paspalum setaceum</i> var. <i>setaceum</i>	Slender Paspalum	S1	G5T5		
<i>Pediomelum argophyllum</i>	Silvery Psoralea	S2	G5		
<i>Peltandra virginica</i>	Arrow Arum	S2	G5		
<i>Penstemon cobaea</i> var. <i>cobaea</i>	A Beard-tongue	S1	G4TNR		
<i>Penstemon grandiflorus</i>	Large Beard-tongue	S1	G5?		
<i>Perideridia americana</i>	Eastern Eulophus	SU	G4		
<i>Philadelphus pubescens</i> var. <i>verrucosus</i>	Mock Orange	S1	G5?TU		
<i>Phlox amplifolia</i>	Large-leaved Phlox	S3?	G3G5		
<i>Phlox bifida</i> ssp. <i>stellaria</i>	Bifid Phlox	S1	G5?T3		
<i>Phlox carolina</i> ssp. <i>angusta</i>	Carolina Phlox	SH	G5?TNR		
<i>Phlox carolina</i> ssp. <i>carolina</i>	Carolina Phlox	S1	G5?T3T5Q		
<i>Phlox maculata</i> ssp. <i>pyramidalis</i>	Wild Sweet William	S2	G5T4T5		
<i>Phyla nodiflora</i>	Fog Fruit	SH	G5		
<i>Phyllanthus polygonoides</i>	Knotweed Leaf-flower	S1	G5		
<i>Physostegia intermedia</i>	A False Dragonhead	S1	G5		
<i>Plantago patagonica</i>	Woolly Plantain	S2	G5		
<i>Platanthera ciliaris</i>	Yellow-fringed Orchid	S1	G5		
<i>Platanthera clavellata</i>	Green Wood Orchid	S2	G5		
<i>Platanthera flava</i> var. <i>flava</i>	Pale Green Orchid	S2	G4T4?Q		
<i>Platanthera flava</i> var. <i>herbiola</i>	Northern Rein Orchid	S2	G4T4Q		
<i>Platanthera leucophaea</i>	Eastern Prairie Fringed Orchid	SH	G2	E	T
<i>Platanthera praeclara</i>	Western Prairie Fringed Orchid	S1	G2	E	T
<i>Platanthera psycodes</i>	Small Purple-fringed Orchid	SX	G5		
<i>Pluchea foetida</i>	Marsh Fleabane	SH	G5		
<i>Poa interior</i>	Inland Bluegrass	S1	G5		
<i>Pogonia ophioglossoides</i>	Snake-mouth Orchid	S1	G5		
<i>Polygonella americana</i>	Jointweed	S2	G5		
<i>Polygonum amphibium</i> var. <i>stipulaceum</i>	Water Smartweed	S1	G5T5		
<i>Polygonum arifolium</i>	Halberd-leaved Tear Thumb	S1	G5		
<i>Polygonum densiflorum</i>	Dense-flower Smartweed	S1	G5		
<i>Polygonum prolificum</i>	Bushy Knotweed	SRF	G4G5		
<i>Polygonum punctatum</i> var. <i>majus</i>	Dotted Smartweed	SU	G4G5		
<i>Polymnia laevigata</i>	Smooth Leaf-cup	SX	G3		
<i>Polypremum procumbens</i>	Juniper-leaf	S2	G5		
<i>Populus grandidentata</i>	Big-toothed Aspen	S1	G5		
<i>Populus tremuloides</i> var. <i>tremuloides</i>	Quaking Aspen	S2	G5TNR		
<i>Potamogeton epihydrus</i>	Nuttall Pondweed	SH	G5		
<i>Potamogeton pulcher</i>	Spotted Pondweed	S2S3	G5		
<i>Potamogeton pusillus</i> var. <i>pusillus</i>	Slender Pondweed	S1	G5T5		
<i>Potentilla nicolletii</i>	Bushy Cinquefoil	SH	GNR		
<i>Prenanthes racemosa</i>	Rattlesnake Root	SH	G5		
<i>Prionopsis ciliata</i>	A Goldenweed	S1	G4G5		
<i>Ptilimnium capillaceum</i>	Mock Bishop's Weed	SH	G5		
<i>Pycnanthemum muticum</i>	Blunt Mountain Mint	S2	G5		
<i>Pycnanthemum torrei</i>	Torrey Mountain Mint	SH	G2		
<i>Quercus ellipsoidalis</i>	Northern Pin Oak	S1	G4		
<i>Quercus nigra</i>	Water Oak	S2	G5		

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<i>Quercus prinoides</i>	Dwarf Chinquapin Oak	S3?	G5		
<i>Quercus stellata</i> var. <i>margaretta</i>	Sand Post Oak	SH	G5		
<i>Quercus texana</i>	Nuttall's Oak	S2	G4G5		
<i>Ranunculus cymbalaria</i>	Seaside Crowfoot	SH	G5		
<i>Rhynchosia difformis</i>	Double-formed Snoutbean	S1	G5?		
<i>Rhynchospora harveyi</i>	Harvey's Beak-rush	S1	G4		
<i>Rhynchospora macrostachya</i>	Horned Rush	S1	G4		
<i>Ribes americanum</i>	Gooseberry	S1	G5		
<i>Rosa blanda</i>	Smooth Rose	S1	G5		
<i>Rosa virginiana</i>	A Rose	SU	G5		
<i>Rubus missouricus</i>	Prickly Groundberry	SH	GHQ		
<i>Rubus strigosus</i>	Red Raspberry	SH	G5		
<i>Rudbeckia grandiflora</i> var. <i>grandiflora</i>	Rough Coneflower	S1	G5TNR		
<i>Rumex orbiculatus</i>	Water Dock	SRF	G5		
<i>Ruppia maritima</i>	Ditch Grass	S1	G5		
<i>Sabatia brachiata</i>	Marsh Pink	S1	G5?		
<i>Sacciolepis striata</i>	American Cupscale	S1	G5		
<i>Sagittaria ambigua</i>	Kansas Arrowhead	S1	G2?		
<i>Sagittaria platyphylla</i>	Ovate-leaved Arrowhead	SH	G5		
<i>Salix discolor</i>	Pussy Willow	S1	G5		
<i>Salix eriocephala</i> var. <i>famelica</i>	Diamond Willow	SU	G5TNR		
<i>Salix petiolaris</i>	Meadow Willow	S1	G5		
<i>Sambucus canadensis</i> var. <i>laciniata</i>	Elderberry	S1	G5TNRQ		
<i>Sambucus racemosa</i> ssp. <i>pubens</i>	Red-berried Elderberry	S1	G5T4T5		
<i>Sanicula smallii</i>	Black Snakeroot	SH	G5		
<i>Sapindus drummondii</i>	Soapberry	S2	G5T5		
<i>Schoenoplectus americanus</i>	Olney's Bulrush	SH	G5		
<i>Schoenoplectus californicus</i>	Giant Bulrush	S1	G5		
<i>Schoenoplectus deltarum</i>	Delta Bulrush	SH	G3G4		
<i>Schoenoplectus etuberculatus</i>	Canby's Bulrush	S1	G3G4		
<i>Schoenoplectus hallii</i>	Hall's Bulrush	S1	G2		
<i>Schoenoplectus purshianus</i>	Weakstalk Bulrush	S1	G4G5		
<i>Schoenoplectus saximontanus</i>	A Bulrush	S1	G5		
<i>Schoenoplectus subterminalis</i>	Swaying Rush	S1	G4G5		
<i>Schoenoplectus torreyi</i>	Torrey's Bulrush	SH	G5?		
<i>Scirpus divaricatus</i>	A Bulrush	SH	G5		
<i>Scirpus pallidus</i>	Pale Bulrush	S2	G5		
<i>Scirpus pedicellatus</i>	A Bulrush	SH	G4		
<i>Scleria reticularis</i> var. <i>pubescens</i>	Muhlenberg's Nut-rush	S1	G5		
<i>Scrophularia lanceolata</i>	Early Figwort	SH	G5		
<i>Scutellaria elliptica</i> var. <i>hirsuta</i>	Hairy Skullcap	S1	G5TNR		
<i>Scutellaria galericulata</i>	Marsh Skullcap	S1	G5		
<i>Scutellaria montana</i>	Large-flowered Skullcap	SRF	G2		T
<i>Senecio tomentosus</i>	Hairy Groundsel	SH	G4G5		
<i>Sida elliotii</i>	Elliott Sida	S1	G4G5		
<i>Sisyrinchium atlanticum</i>	Eastern Blue-eyed Grass	S2	G5		
<i>Smilax illinoensis</i>	Carrion Flower	S2S3	G4?		
<i>Solidago riddellii</i>	Riddell's Goldenrod	S2	G5		
<i>Spermolepis divaricata</i>	Rough-fruit Spermolepis	S1	G5		
<i>Sphenopholis pensylvanica</i>	Swamp Oats	SH	G4		

SCIENTIFIC NAME	COMMON NAME	SRANK	GRANK	STATE STATUS	FEDERAL STATUS
<i>Spiraea alba</i>	Meadow-sweet	S1	G5		
<i>Spiraea tomentosa</i>	Hardhack	S1	G5		
<i>Sporobolus airoides</i>	Alkali Sacaton	S1	G5		
<i>Stachys aspera</i>	Hedge Nettle	SH	G5T4?		
<i>Stenosiphon linifolius</i>	Stenosiphon	S2	G5		
<i>Stylisma pickeringii</i> var. <i>pattersonii</i>	A Stylisma	S1	G4T4		
<i>Styrax grandifolius</i>	Bigleaf Snowbell	SRF	G5		
<i>Sullivantia sullivantii</i>	Sullivantia	S2	G4		
<i>Symphoricarpos occidentalis</i>	Wolfberry	S1	G5		
<i>Thalia dealbata</i>	Water Canna	S2	G4		
<i>Thelesperma filifolium</i> var. <i>filifolium</i>	Thelesperma	S2	G4G5TNR		
<i>Tipularia discolor</i>	Crane-fly Orchid	S1	G4G5		
<i>Torreyochloa pallida</i>	Pale Manna Grass	S1	G5?		
<i>Tradescantia ozarkana</i>	Ozark Spiderwort	S2	G3		
<i>Tragia ramosa</i>	A Noseburn	S2	G5		
<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	G5TNR		
<i>Tridens muticus</i> var. <i>elongatus</i>	Slim Tridens	SH	G5TNR		
<i>Tridens oklahomensis</i>	Oklahoma Fluff Grass	HYB	GNR		
<i>Trifolium carolinianum</i>	Carolina Clover	SH	G5		
<i>Trifolium stoloniferum</i>	Running Buffalo Clover	S1	G3	E	E
<i>Trillium nivale</i>	Snow Trillium	S3?	G4		
<i>Trillium pusillum</i> var. <i>ozarkanum</i>	Ozark Wake Robin	S2	G3T3		
<i>Triodanis holzingeri</i>	A Venus' Looking Glass	SH	G4		
<i>Triodanis lamprosperma</i>	A Venus' Looking Glass Yellow-flowered Horse	S2	G5?		
<i>Triosteum angustifolium</i> var. <i>eamesii</i>	Gentian	S1	G5TNRQ		
<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		
<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 dentatum</i> var. <i>deamii</i>	Southern Arrow-wood	S1	G5T4T5Q		
<i>Viburnum lentago</i>	Nannyberry	SH	G5		
<i>Viburnum ozarkense</i>	Ozark Arrow Wood	S2S3	GNR		
<i>Viburnum recognitum</i>	Northern Arrow-wood	S1	G5		
<i>Vicia ludoviciana</i> var. <i>ludoviciana</i>	Louisiana Vetch	SH	G5TNR		
<i>Vicia minutiflora</i>	Pygmy-flowered Vetch	SH	G5		
<i>Viola macloskeyi</i> ssp. <i>pallens</i>	Smooth White Violet	S2	G5T5		
<i>Vitis rotundifolia</i>	Muscadine	S1	G5		
<i>Waldsteinia fragarioides</i> ssp. <i>fragario</i>	Barren Strawberry	S2	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		

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<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>	White Camas	S2	G5		
<i>Zigadenus nuttallii</i>	Death Camas	S1	G5		
<i>Zizania palustris</i> var. <i>interior</i>	Interior Wild Rice	SH	G4G5T4T5		
FLATWORMS					
<i>Macrocotyla glandulosa</i>	Pink Planarian	S1	G1G3		
<i>Macrocotyla lewisi</i>	Lewis' Cave Planarian	S1	G1G2		
<i>Sphalloplana evaginata</i>	Perryville Cave Planarian	S1	G1G2		
<i>Sphalloplana hubrichti</i>	Hubricht's Cave Planarian	S1	G3G4		
MOLLUSKS					
<i>Alasmidonta marginata</i>	Elktoe	S2?	G4		
<i>Amnicola stygia</i>	Stygian Cavesnail	S1	G1		
<i>Anodonta suborbiculata</i>	Flat Floater	S2	G5		
<i>Anodontoides 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>Cumberlandia monodonta</i>	Spectaclecase	S3	G2G3		
<i>Cyprogenia aberti</i>	Western Fanshell	S1S2	G2		
<i>Elliptio crassidens</i>	Elephantear	S1	G5	E	
<i>Epioblasma florentina curtisii</i>	Curtis Pearlymussel	S1	G1T1	E	E
<i>Epioblasma triquetra</i>	Snuffbox	S1	G3	E	
<i>Euconulus fulvus</i>	Brown Hive	SU	G4G5		
<i>Fontigens aldrichi</i>	Ozark Springsnail	S4	G3G4		
<i>Fontigens antroecetes</i>	Enigmatic Cavesnail	S2	G2		
<i>Fontigens proserpina</i>	Proserpine Cavesnail	S1	G1		
<i>Fusconaia ebena</i>	Ebonyshell	S1?	G4G5	E	
<i>Gastrocopta rogersensis</i>	A Snaggletooth Snail	SU	G2		
<i>Hendersonia occulta</i>	Cherrystone Snail	S3	G4		
<i>Lampsilis abrupta</i>	Pink Mucket	S2	G2	E	E
<i>Lampsilis higginsii</i>	Higgins Eye	SA	G1	E	E
<i>Lampsilis rafinesqueana</i>	Neosho Mucket	S2	G2		C
<i>Lampsilis reeviana reeviana</i>	Arkansas Brokenray	S2?	G3T1T2		
<i>Leptodea leptodon</i>	Scaleshell	S1S2	G1	E	E
<i>Leptoxis arkansensis</i>	Arkansas Mudalia	SU	G1		
<i>Ligumia recta</i>	Black Sandshell	S1S2	G5		
<i>Linisa texasiana</i>	Texas Liptooh	SU	GNR		
<i>Millerelix deltoidea</i>	A Snail	SU	GNR		
<i>Obovaria jacksoniana</i>	Southern Hickorynut	S1	G1G2		
<i>Obovaria olivaria</i>	Hickorynut	S2S3	G4		
<i>Plectomerus dombeyanus</i>	Bankclimber	S3	G4		
<i>Plethobasus cyphus</i>	Sheepnose	S1	G3	E	
<i>Pleurocera alveare</i>	Rough Hornsnail	S1S3	G3G4		
<i>Potamilus capax</i>	Fat Pocketbook	S1	G1	E	E
<i>Ptychobranhus occidentalis</i>	Ouachita Kidneyshell	S2S3	G3G4		

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<i>Pyrgulopsis ozarkensis</i>	Ozark Pyrg	SU	G1		
<i>Quadrula cylindrica cylindrica</i>	Rabbitsfoot	S1	G3T3		
<i>Quadrula fragosa</i>	Winged Mapleleaf	SX	G1	E	E
<i>Quadrula nodulata</i>	Wartyback	S3	G4		
<i>Simpsonaias ambigua</i>	Salamander Mussel	S1?	G3		
<i>Somatogyrus rosewateri</i>	Chert Pebblesnail	S1S3	G1		
<i>Stagnicola elodes</i>	Marsh Pondsnailed	S3?	G5		
<i>Toxolasma lividus</i>	Purple Lilliput	S2	G2		
<i>Toxolasma texasiensis</i>	Texas Lilliput	S3	G4		
<i>Ventridens brittsi</i>	Western Dome	SU	GNR		
<i>Ventridens demissus</i>	Perforate Dome	SU	G4G5		
<i>Vertigo gouldi</i>	Variable Vertigo	SU	G4G5		
<i>Vertigo meramecensis</i>	Bluff Vertigo	SU	G2		
<i>Vertigo oscariana</i>	Capital Vertigo	SU	G4		
<i>Xolotrema denotatum</i>	Black Velvet Wedge Snail	SU	G5		

ARACHNIDS

<i>Apochthonius mysterius</i>	Mystery Cave Pseudoscorpion	S1	G1G2		
<i>Apochthonius typhlus</i>	Stone County Cave Pseudoscorpion	S1	G1G2		
<i>Hesperochernes occidentalis</i>	A Troglolitic Pseudoscorpion	S3	G4G5		
<i>Mundochthonius cavernicolus</i>	Cavernicolous Pseudoscorpion	SU	G3G4		
<i>Phanetta subterranea</i>	Subterranean Cave Spider	S1	G4		
<i>Porrhomma cavernicola</i>	Cavernicolous Porrhomma Spider	S2	G4G5		

CRUSTACEANS

<i>Allocrangonyx hubrichti</i>	Hubricht's Long-tailed Amphipod	S3	G1		
<i>Bactrurus brachycaudus</i>	Short-tailed Groundwater Amphipod	S4	G3G4		
<i>Bactrurus hubrichti</i>	Sword-tail Cave Amphipod	S1	G3G4		
<i>Bactrurus pseudomucronatus</i>	False Sword-tailed Cave Amphipod	S2	G1G3		
<i>Caecidotea antricola</i>	Cave Isopod	S4	G3G4		
<i>Caecidotea dimorpha</i>	An Isopod	S1S3	G1G3		
<i>Caecidotea fustis</i>	Fustis Cave Isopod	S2	G3		
<i>Caecidotea salemensis</i>	Salem Cave Isopod	S2	G3G4		
<i>Caecidotea serrata</i>	Serrated Cave Isopod	S1	G1G2		
<i>Caecidotea stiladactyla</i>	Slender-fingered Cave Isopod	S1	G2G3		
<i>Caecidotea stygia</i>	Stygian Cave Isopod	S1	G4G5		
<i>Cambarellus puer</i>	Cajun Dwarf Crayfish	S3?	G4G5		
<i>Cambarellus shufeldtii</i>	Shufeldt's Dwarf Crayfish	S3?	G5		
<i>Cambarus aculabrum</i>	Cave Crayfish	SP	G1		
<i>Cambarus hubrichti</i>	Salem Cave Crayfish	S3	G2		
<i>Cambarus setosus</i>	Bristly Cave Crayfish	S3	G2		
<i>Cyclops clandestinus</i>	Clandestine Groundwater Copepod	S1S3	GNR		
<i>Fallicambarus fodiens</i>	Digger Crayfish	S2S3	G5		
<i>Faxonella clypeata</i>	Shield Crayfish	S2S3	G5		
<i>Lirceus megapodus</i>	An Isopod	SU	GNR		
<i>Macrobrachium ohione</i>	Freshwater Shrimp	S1	G4		

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<i>Orconectes eupunctus</i>	Coldwater Crayfish	S3	G2		
<i>Orconectes harrisonii</i>	Belted Crayfish	S3	G3		
<i>Orconectes lancifer</i>	Shrimp Crayfish	S1S2	G5		
<i>Orconectes marchandi</i>	Mammoth Spring Crayfish	S1S2	G2		
<i>Orconectes meeki</i>	Meek's Crayfish	S1	G4		
<i>Orconectes peruncus</i>	Big Creek Crayfish	S2	G2		
<i>Orconectes quadruncus</i>	St. Francis River Crayfish	S2	G2		
<i>Orconectes stygocaneyi</i>	Caney Mountain Cave Crayfish	S1S2	G1		
<i>Orconectes williamsi</i>	Williams' Crayfish	S1?	G2		
<i>Procambarus viaeviridis</i>	Vernal Crayfish	S3?	G5		
<i>Stygobromus barri</i>	Barr's Groundwater Amphipod	S1S3	G2G3		
<i>Stygobromus clantoni</i>	Clanton's Groundwater Amphipod	S1S3	G2G4		
<i>Stygobromus heteropodus</i>	Pickle Springs Amphipod	SX	G1G3		
<i>Stygobromus onondagaensis</i>	Onondaga Cave Amphipod	S3?	G1		
<i>Stygobromus ozarkensis</i>	Ozark Cave Amphipod	S3?	G3G4		
<i>Stygobromus subtilis</i>	Subtle Groundwater Amphipod	S1S3	G2G3		
<i>Triops longicaudatus</i>	Tadpole Shrimp	SU	G5		
MILLIPEDES					
<i>Chaetaspis aleyorum</i>	Aleys' Cave Millipede	S1	GNR		
<i>Scoterpes dendropus</i>	Scoterpes Cave Millipede	SU	GNR		
<i>Tingupa pallida</i>	Tingupa Cave Millipede	S4	G3G4		
<i>Zosteractis interminata</i>	Zosteractis Cave Millipede	SU	G3G4		
INSECTS					
<i>Acroneuria ozarkensis</i>	Ozark Stone	S2	G2		
<i>Agapetus artesus</i>	Artesian Agapetus Caddisfly	S3	GNR		
<i>Allocaupnia pygmaea</i>	Pygmy Snowfly	S3	G5		
<i>Alloperla hamata</i>	Barbed Sallfly	S3	G4		
<i>Alloperla leonarda</i>	Truncate Sallfly	S3	G4		
<i>Amblytropidia mysteca</i>	A Glade Grasshopper	SU	G5		
<i>Anax longipes</i>	Comet Darner	S3	G5		
<i>Andrena beameri</i>	An Andrenid Bee	S3	GNR		
<i>Arrhopalites clarus</i>	Clarus Cave Springtail	S3	G2G4		
<i>Attaneuria ruralis</i>	Giant Stone	S3	G4		
<i>Baetisca obesa</i>	A Mayfly	S3	G5		
<i>Calephelis borealis</i>	Northern Metalmark Carolina Leaf Roller Camel	S2S3	G3G4		
<i>Camptonotus carolinensis</i>	Cricket	SU	GNR		
<i>Catocala marmorata</i>	Marbled Underwing Moth	S3	G3G4		
<i>Catocala pretiosa texarkana</i>	Precious Underwing Moth	S3?	G4T4		
<i>Chalybion zimmermanni zimmermanni</i>	A Blue Mud Dauber	SU	GNRTNR		
<i>Cicindela circumpecta johnsonii</i>	Saline Spring Tiger Beetle	S2S3	G5T5		
<i>Conocephalus saltans</i>	Prairie Meadow Katydid	S3	GNR		
<i>Euphyes dukesi</i>	Duke's Skipper	S1?	G3		
<i>Formica creightoni</i>	Creighton's Slavemaking Ant	S3	GNR		
<i>Formica fossiceps</i>	An Ant	SU	GNR		
<i>Formica montana</i>	Prairie Mound Ant	S3	GNR		

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<i>Formica querquetulana</i>	An Ant	S3	GNR		
<i>Glyphopsyche missouri</i>	Missouri Glyphopsyche Caddisfly	S1	G1		
<i>Gomphus ozarkensis</i>	Ozark Clubtail	S3	G4		
<i>Gomphus ventricosus</i>	Skillet Clubtail	SU	G3		
<i>Gryllotalpa major</i>	Prairie Mole Cricket	S3	G3		
<i>Hesperia ottoe</i>	Ottoe Skipper	S2S3	G3G4		
<i>Hydroperla fugitans</i>	Austin Springfly	S3	G3		
<i>Hydropsyche piatrix</i>	A Net-spinning Caddisfly	S4	GNR		
<i>Hypoconera opacior</i>	An Ant	SU	GNR		
<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>Leptyma marginicollis</i>	Cattail Toothpick Grasshopper	S2S3	G5		
<i>Leucotrichia pictipes</i>	A Micro Caddisfly	S3	GNR		
<i>Lordithon niger</i>	Black Lordithon Rove Beetle	SH	GU		
<i>Lytrosis permagnaria</i>	Geometrid Moth	SU	G3G4		
<i>Macromia pacifica</i>	Gilded River Cruiser	S3	G4		
<i>Melanoplus fasciatus</i>	Huckleberry Grasshopper	S3	G5		
<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	G4T4		
<i>Melanoplus viridipes viridipes</i>	Green-legged Grasshopper	S3	G4T4		
<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>Neoconocephalus bivocatus</i>	Two-voiced Conehead Katydid	S3	GNR		
<i>Neoconocephalus exiliscanorus</i>	Slightly-musical Conehead Katydid	S3	GNR		
<i>Neoconocephalus lyristes</i>	Bog Conehead Katydid	S3	GNR		
<i>Neoconocephalus retusus</i>	Round-tipped Conehead Katydid	S4?	GNR		
<i>Neoperla carlsoni</i>	Spiny Stone	S3?	G4		
<i>Neotrichia kitae</i>	Kite's Neotrichian Caddisfly	SU	GU		
<i>Neotridactylus apicalis</i>	Larger Pygmy Grasshopper	SU	GNR		
<i>Nicrophorus americanus</i>	American Burying Beetle	SH	G2G3	E	E
<i>Ochrotrichia contorta</i>	Contorted Ochrotrichian Micro Cadd	SU	GNR		
<i>Oecleus chrisjohni</i>	A Cixiid Planthopper	SU	GNR		
<i>Oncopodura hoffi</i>	Hoff's Cave Springtail	S1S3	G1G2		
<i>Ophiogomphus westfalli</i>	Westfall's Snaketail	S3	G3		
<i>Pardalophora saussurei</i>	A Glade Grasshopper	S3	G5		
<i>Paroxya hoosieri</i>	Hoosier Grasshopper	S1	G5		
<i>Pentacora signoreti</i>	A Shore Bug	S1	GNR		
<i>Phoetaliotes nebrascensis</i>	Large-headed Grasshopper	S3	G5		
<i>Phrixocnemis truculentus</i>	Truculent Camel Cricket	SU	GNR		
<i>Phyllobrotica lengi</i>	A Leaf Beetle	SU	GNR		
<i>Phyllobrotica nigratarsus</i>	A Leaf Beetle	SU	GNR		
<i>Phyllobrotica physostegiae</i>	A Leaf Beetle	S4?	GNR		
<i>Ponera exotica</i>	An Ant	S3	GNR		
<i>Prostoia similis</i>	Longhorn Forestfly	S3	G5		
<i>Pseudosinella espana</i>	Espana Cave Springtail	S3	G3		

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<i>Psinidia fenestralis</i>	Sand Grasshopper	S2S3	G5		
<i>Satyrodes appalachia leeuwi</i>	Appalachian Eyed Brown	S2S3	G4T4		
<i>Serratella frisoni</i>	Frison's Seratellan Mayfly	S2	G3		
<i>Sinella avita</i>	Avita Cave Springtail	SU	G4G5		
<i>Sinella barri</i>	Barr's Cave Springtail	SU	G5		
<i>Somatochlora hineana</i>	Hine's Emerald	S1	G2G3	E	E
<i>Somatochlora ozarkensis</i>	Ozark Emerald	S2S3	G3		
<i>Speyeria diana</i>	Diana Fritillary	SU	G3		
<i>Speyeria idalia</i>	Regal Fritillary	S3	G3		
<i>Stenonema bednariki</i>	A Heptageniid Mayfly	S3	G3		
<i>Stethophyma celatum</i>	Sedge Grasshopper	S3	G4		
<i>Stylurus notatus</i>	Elusive Clubtail	S2S3	G3		
<i>Tachopteryx thoreyi</i>	Gray Petaltail	S3	G4		
<i>Tettigidea armata</i>	Spined Grouse Locust	S2S3	G5		
<i>Tomocerus missus</i>	Missus Cave Springtail	SU	G4G5		
<i>Trimerotropis maritima</i>	Seaside Grasshopper	SH	G5		
<i>Xenochalepus potomaca</i>	A Leaf Beetle	SU	GNR		
<i>Xenotrechus condei</i>	Northern Xenotrechus Cave Beetle	S1	G1G2		
<i>Xenotrechus denticollis</i>	Southern Xenotrechus Cave Beetle	S1	G1G2		

FISH

<i>Acipenser fulvescens</i>	Lake Sturgeon	S1	G3G4	E	
<i>Alosa alabamae</i>	Alabama Shad	S2	G3		
<i>Amblyopsis rosae</i>	Ozark Cavefish	S2	G2G3	E	T
<i>Ameiurus nebulosus</i>	Brown Bullhead	S3?	G5		
<i>Ammocrypta clara</i>	Western Sand Darter	S2S3	G3		
<i>Carpionodes velifer</i>	Highfin Carpsucker	S2	G4G5		
<i>Centrarchus macropterus</i>	Flier	S3	G5		
<i>Cottus sp</i>	Grotto Sculpin	S2	G1Q		C
<i>Crystallaria asprella</i>	Crystal Darter	S1	G3	E	
<i>Cycleptus elongatus</i>	Blue Sucker	S3	G3G4		
<i>Cyprinella camura</i>	Bluntnose Shiner	S2S3	G5		
<i>Erimyzon sucetta</i>	Lake Chubsucker	S2	G5		
<i>Etheostoma cragini</i>	Arkansas Darter	S3	G3		C
<i>Etheostoma euzonum erizonum</i>	Current River Saddled Darter	S3	G3G4		
<i>Etheostoma euzonum euzonum</i>	Arkansas Saddled Darter	S2	G3G4		
<i>Etheostoma fusiforme</i>	Swamp Darter	S1	G5	E	
<i>Etheostoma histrio</i>	Harlequin Darter	S2	G5	E	
<i>Etheostoma microperca</i>	Least Darter	S2	G5		
<i>Etheostoma nianguae</i>	Niangua Darter	S2	G2	E	T
<i>Etheostoma parvipinne</i>	Goldstripe Darter	S1	G4G5	E	
<i>Etheostoma vivax</i>	Scaly Sand Darter	S3	G5		
<i>Etheostoma whipplei</i>	Redfin Darter	S1	G4	E	
<i>Forbesichthys agassizi</i>	Spring Cavefish	S1	G4G5	E	
<i>Fundulus chrysotus</i>	Golden Topminnow	S1	G5		
<i>Fundulus dispar</i>	Starhead Topminnow	S2	G4		
<i>Fundulus sciadicus</i>	Plains Topminnow	S3	G4		
<i>Fundulus zebrinus</i>	Plains Killifish	S2	G5		

SCIENTIFIC NAME	COMMON NAME	SRANK	GRANK	STATE STATUS	FEDERAL STATUS
<i>Hiodon tergisus</i>	Mooneye	S3	G5		
<i>Hybognathus argyritis</i>	Western Silvery Minnow	S2	G4		
<i>Hybognathus hankinsoni</i>	Brassy Minnow	S3	G5		
<i>Hybognathus hayi</i>	Cypress Minnow	S1	G5	E	
<i>Hybognathus nuchalis</i>	Mississippi Silvery Minnow	S3S4	G5		
<i>Hybognathus placitus</i>	Plains Minnow	S2	G4		
<i>Ichthyomyzon gagei</i>	Southern Brook Lamprey	S2S3	G5		
<i>Lampetra appendix</i>	American Brook Lamprey	S2	G4		
<i>Lepisosteus spatula</i>	Alligator Gar	SU	G3G4		
<i>Lepomis marginatus</i>	Dollar Sunfish	SU	G5		
<i>Lepomis symmetricus</i>	Bantam Sunfish	S2	G5		
<i>Macrhybopsis gelida</i>	Sturgeon Chub	S3	G3		
<i>Macrhybopsis meeki</i>	Sicklefin Chub	S3	G3		
<i>Macrhybopsis storeriana</i>	Silver Chub	S3	G5		
<i>Mugil cephalus</i>	Striped Mullet	SA	G5		
<i>Notropis amnis</i>	Pallid Shiner	SX	G4		
<i>Notropis buchanaui</i>	Ghost Shiner	S2	G5		
<i>Notropis chalybaeus</i>	Ironcolor Shiner	S1	G4		
<i>Notropis heterolepis</i>	Blacknose Shiner	S2	G4		
<i>Notropis maculatus</i>	Taillight Shiner	S1	G5	E	
<i>Notropis ozarcanus</i>	Ozark Shiner	S2	G3		
<i>Notropis sabinae</i>	Sabine Shiner	S1	G3	E	
<i>Notropis texanus</i>	Weed Shiner	S3	G5		
<i>Notropis topeka</i>	Topeka Shiner	S1	G3	E	E
<i>Noturus eleutherus</i>	Mountain Madtom	S1S2	G4	E	
<i>Noturus flavater</i>	Checkered Madtom	S3S4	G3G4		
<i>Noturus placidus</i>	Neosho Madtom	S2	G2	E	T
<i>Opsopoeodus emiliae</i>	Pugnose Minnow	S4	G5		
<i>Percina copelandi</i>	Channel Darter	S3	G4		
<i>Percina cymatotaenia</i>	Bluestripe Darter	S2	G2		
<i>Percina nasuta</i>	Longnose Darter	S1	G3	E	
<i>Percina shumardi</i>	River Darter	S3	G5		
<i>Percina uranidea</i>	Stargazing Darter	S2	G3		
<i>Percopsis omiscomaycus</i>	Trout-perch	S1?	G5		
<i>Pimephales tenellus parviceps</i>	Eastern Slim Minnow	S2S3	G4T2T3		
<i>Pimephales tenellus tenellus</i>	Western Slim Minnow	S3	G4T4		
<i>Platygobio gracilis</i>	Flathead Chub	S1	G5	E	
<i>Polyodon spathula</i>	Paddlefish	S3	G4		
<i>Scaphirhynchus albus</i>	Pallid Sturgeon	S1	G1	E	E
<i>Typhlichthys subterraneus</i>	Southern Cavefish	S2S3	G4		
<i>Umbra limi</i>	Central Mudminnow	S1	G5	E	
AMPHIBIANS					
<i>Ambystoma annulatum</i>	Ringed Salamander	S3	G4		
<i>Ambystoma talpoideum</i>	Mole Salamander	S2	G5		
<i>Ambystoma tigrinum tigrinum</i>	Eastern Tiger Salamander	SU	G5T5		
<i>Amphiuma tridactylum</i>	Three-toed Amphiuma	S2	G5		

SCIENTIFIC NAME	COMMON NAME	SRANK	GRANK	STATE STATUS	FEDERAL STATUS
<i>Bufo cognatus</i>	Great Plains Toad	SU	G5		
<i>Cryptobranchus alleganiensis alleganiensis</i>	Eastern Hellbender	S1	G3G4T3T4	E	
<i>Cryptobranchus alleganiensis bishopi</i>	Ozark Hellbender	S1	G3G4T3Q	E	C
<i>Hemidactylum scutatatum</i>	Four-toed Salamander	S4	G5		
<i>Necturus maculosus louisianensis</i>	Red River Mudpuppy	SU	G5T4		
<i>Necturus maculosus maculosus</i>	Common Mudpuppy	SU	G5T5		
<i>Pseudacris streckeri illinoensis</i>	Illinois Chorus Frog	S2	G5T3		
<i>Rana areolata circulosa</i>	Northern Crawfish Frog	S3	G4T4		
<i>Rana pipiens</i>	Northern Leopard Frog	S2	G5		
<i>Rana sylvatica</i>	Wood Frog	S3	G5		
<i>Scaphiopus holbrookii holbrookii</i>	Eastern Spadefoot	S2	G5T5		
<i>Typhlotriton spelaeus</i>	Grotto Salamander	S2S3	G4		

REPTILES

<i>Cemophora coccinea copei</i>	Northern Scarlet Snake	S2S3	G5T5		
<i>Crotaphytus collaris collaris</i>	Eastern Collared Lizard	S4	G5		
<i>Deirochelys reticularia miaria</i>	Western Chicken Turtle	S1	G5T5	E	
<i>Elaphe vulpina vulpina</i>	Western Fox Snake	S1	G5T5	E	
<i>Emydoidea blandingii</i>	Blanding's Turtle	S1	G4	E	
<i>Eumeces obsoletus</i>	Great Plains Skink	S2	G5		
<i>Eumeces septentrionalis obtusirostris</i>	Southern Prairie Skink	S3	G5T5		
<i>Eumeces septentrionalis septentrionalis</i>	Northern Prairie Skink	S3	G5T5		
<i>Farancia abacura reinwardtii</i>	Western Mud Snake	S2	G5T5		
<i>Heterodon nasicus gloydi</i>	Dusty Hognose Snake	SX	G5T3T4Q		
<i>Heterodon nasicus nasicus</i>	Plains Hognose Snake	SX	G5T5		
<i>Kinosternon flavescens flavescens</i>	Yellow Mud Turtle	S1	G5T5	E	
<i>Kinosternon flavescens spooneri</i>	Illinois Mud Turtle	S1	G5T1Q	E	
<i>Liochlorophis vernalis</i>	Smooth Green Snake	SX	G5		
<i>Macrochelys temminckii</i>	Alligator Snapping Turtle	S2	G3G4		
<i>Nerodia cyclopion</i>	Mississippi Green Water Snake	SX	G5	E	
<i>Phrynosoma cornutum</i>	Texas Horned Lizard	S2	G4G5		
<i>Sistrurus catenatus catenatus</i>	Eastern Massasauga	S1	G3G4T3T4	E	C

BIRDS

<i>Accipiter cooperii</i>	Cooper's Hawk	S3	G5		
<i>Accipiter striatus</i>	Sharp-shinned Hawk	S2	G5		
<i>Aimophila aestivalis</i>	Bachman's Sparrow	S1	G3	E	
<i>Ammodramus henslowii</i>	Henslow's Sparrow	S2	G4		
<i>Anhinga anhinga</i>	Anhinga	SX	G5		
<i>Ardea alba</i>	Great Egret	S3	G5		
<i>Asio flammeus</i>	Short-eared Owl	S2	G5		
<i>Asio otus</i>	Long-eared Owl	SU	G5		
<i>Bartramia longicauda</i>	Upland Sandpiper	S3	G5		
<i>Bonasa umbellus</i>	Ruffed Grouse	SU	G5		
<i>Botaurus lentiginosus</i>	American Bittern	S1	G4	E	
<i>Buteo lineatus</i>	Red-shouldered Hawk	S3	G5		

SCIENTIFIC NAME	COMMON NAME	SRANK	GRANK	STATE STATUS	FEDERAL STATUS
<i>Buteo swainsoni</i>	Swainson's Hawk	S2	G5		
<i>Campephilus principalis</i>	Ivory-billed Woodpecker	SX	GH		E
<i>Certhia americana</i>	Brown Creeper	SU	G5		
<i>Chlidonias niger</i>	Black Tern	SX	G4		
<i>Circus cyaneus</i>	Northern Harrier	S1S2	G5	E	
<i>Cistothorus palustris</i>	Marsh Wren	S2	G5		
<i>Conuropsis carolinensis</i>	Carolina Parakeet	SX	GX		
<i>Coragyps atratus</i>	Black Vulture	S3	G5		
<i>Corvus corax</i>	Common Raven	SX	G5		
<i>Cygnus buccinator</i>	Trumpeter Swan	SX	G4		
<i>Dendroica cerulea</i>	Cerulean Warbler	S2S3	G4		
<i>Dendroica pensylvanica</i>	Chestnut-sided Warbler	S3	G5		
<i>Ectopistes migratorius</i>	Passenger Pigeon	SX	GX		
<i>Egretta caerulea</i>	Little Blue Heron	S2	G5		
<i>Egretta thula</i>	Snowy Egret	S1	G5	E	
<i>Elanoides forficatus</i>	Swallow-tailed Kite	SX	G5		
<i>Falco peregrinus</i>	Peregrine Falcon	S1	G4	E	
<i>Gallinula chloropus</i>	Common Moorhen	S2	G5		
<i>Geococcyx californianus</i>	Greater Roadrunner	S3	G5		
<i>Haliaeetus leucocephalus</i>	Bald Eagle	S2	G4	E	T
<i>Ictinia mississippiensis</i>	Mississippi Kite	S2	G5		
<i>Ixobrychus exilis</i>	Least Bittern	S2	G5		
<i>Lanius ludovicianus</i>	Loggerhead Shrike	S1S2	G4		
<i>Laterallus jamaicensis</i>	Black Rail	S1	G4		
<i>Limnothlypis swainsonii</i>	Swainson's Warbler	S1	G4	E	
<i>Nycticorax nycticorax</i>	Black-crowned Night-heron	S2	G5		
<i>Pandion haliaetus</i>	Osprey	S3	G5		
<i>Passerina ciris</i>	Painted Bunting	S3	G5		
<i>Picoides borealis</i>	Red-cockaded Woodpecker	SX	G3		E
<i>Podilymbus podiceps</i>	Pied-billed Grebe	S2	G5		
<i>Porzana carolina</i>	Sora	S2	G5		
<i>Rallus elegans</i>	King Rail	S1	G4G5	E	
<i>Rallus limicola</i>	Virginia Rail	S2?	G5		
<i>Sitta pusilla</i>	Brown-headed Nuthatch	SX	G5		
<i>Sterna antillarum athalassos</i>	Interior Least Tern	S1	G4T2Q	E	E
<i>Tympanuchus cupido</i>	Greater Prairie-chicken	S1	G4	E	
<i>Tyto alba</i>	Barn Owl	S2	G5	E	
<i>Vermivora bachmanii</i>	Bachman's Warbler	SX	GH		E
<i>Vireo bellii</i>	Bell's Vireo	S3	G5		
<i>Xanthocephalus xanthocephalus</i>	Yellow-headed Blackbird	S3	G5		

MAMMALS

<i>Bos bison</i>	American Bison	SX	G4		
<i>Canis lupus</i>	Gray Wolf	SX	G4		T
<i>Canis rufus</i>	Red Wolf	SX	G1		E
<i>Cervus elaphus</i>	Wapiti	SX	G5		
<i>Corynorhinus rafinesquii</i>	Rafinesque's Big-eared Bat	SU	G3G4		
<i>Corynorhinus townsendii ingens</i>	Ozark Big-eared Bat	SX	G4T1	E	E

SCIENTIFIC NAME	COMMON NAME	SRANK	GRANK	STATE STATUS	FEDERAL STATUS
<i>Lepus californicus</i>	Black-tailed Jackrabbit	S1	G5	E	
<i>Lepus townsendii</i>	White-tailed Jackrabbit	SX	G5		
<i>Mustela frenata</i>	Long-tailed Weasel	S2	G5		
<i>Mustela nivalis</i>	Least Weasel	S4	G5		
<i>Myotis austroriparius</i>	Southeastern Bat	SU	G3G4		
<i>Myotis grisescens</i>	Gray Bat	S3	G3	E	E
<i>Myotis leibii</i>	Eastern Small-footed Myotis	SU	G3		
<i>Myotis septentrionalis</i>	Northern Myotis	S3	G4		
<i>Myotis sodalis</i>	Indiana Bat	S1	G2	E	E
<i>Ochrotomys nuttalli</i>	Golden Mouse	S3?	G5		
<i>Oryzomys palustris</i>	Rice Rat	SU	G5		
<i>Perognathus flavescens</i>	Plains Pocket Mouse	S2	G5		
<i>Peromyscus gossypinus</i>	Cotton Mouse	S2	G5		
<i>Puma concolor</i>	Mountain Lion	SU	G5	E	
<i>Reithrodontomys montanus</i>	Plains Harvest Mouse	S2	G5		
<i>Spermophilus franklinii</i>	Franklin's Ground Squirrel	S2S3	G5		
<i>Spilogale putorius interrupta</i>	Plains Spotted Skunk	S1	G5T4	E	
<i>Sylvilagus aquaticus</i>	Swamp Rabbit	S2	G5		
<i>Ursus americanus</i>	Black Bear	S3	G5		

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FOR MORE INFORMATION

The Missouri Department of Conservation collects and manages information on the location and status of species of conservation concern throughout the state. The 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 write or call:

Endangered Species Coordinator
Missouri Department of Conservation
P.O. Box 180
Jefferson City, MO 65102
(573) 751-4115

If you are requesting information about the location of any element on this checklist for the purposes of environmental review, please write:

Policy Coordination
Missouri Department of Conservation
P.O. Box 180
Jefferson City, MO 65102

PLANTS OF CONSERVATION CONCERN REPORTING FORM

Instructions: Complete ONE form per visit per (source) location.

ELEMENT IDENTIFICATION and LOCATION	
Scientific name: _____	Common name: _____
Identification problems: Y N Explain: _____	
If surveying known site, was species relocated? Y N	
Photograph/slide taken? Y N Where has photo/slide been deposited? _____	
Specimen collected? Y N Collector, Collection #, and Repository: _____	
Survey site name: _____	
Directions to the survey site (include landmarks, roads, towns, distances, compass directions): _____ _____ _____	
County(ies): _____	
USGS Quadrangle names: _____	
Twp _____	Rng _____ Sec _____ ¼ sec _____
If using a GPS unit, please collect data in NAD83, zone 15; if unfeasible, indicate: NAD _____ zone _____	
UTM: Northing (Y) _____	OR: Latitude _____
Easting (X) _____	Longitude _____
Explanation of possible GPS unit inaccuracy: _____ _____	

TOPOGRAPHIC MAP (mandatory) Attach a copy of the topographic map or DOQ (no county maps, please!) with the species' location marked. Please identify *who* marked the map (i.e., observer, transcriber, updater, or Heritage Biologist).

Use the following guidelines to draw the source's location on the map as precisely as possible. Note: Heritage mappers will digitize exactly what is drawn on your map.

- Use a fine tip pen to mark a pen point or thin solid line identifying the source location. If the element occurrence or source boundary follows the edge of a lake, stream, road or other feature, draw the boundary precisely on the edge of the feature.
- Disjunct patches of the same element occurrence should be represented as individual source features; each source feature should be drawn (and a reporting form completed for each) as separate polygons. Label each source with a unique site name.
- If you are not certain you can draw the observed area's exact location, draw a boundary line inclusive of the entire area where you are certain the source was observed. Draw as small an area as you can while still being certain it contains the actual location of the observed element. Where possible, use features on the map such as roads, streams, contour lines, etc., to delineate this area. For example, draw a line along the stretch of trail where the EO was observed.

Locational Uncertainty: How accurate is your depiction of the source's location on the map?
Is the mapped location within 6m (20ft) of its actual location on the ground? Y N
If NO: The mapped location is accurate to within _____ m or _____ ft or _____ mi of the actual location.

Representational Accuracy (RA): Approximately how much of the mapped area is actually occupied by the element?
For example, a plant EO occurring in closely spaced patches that is mapped as a single polygon encompassing a one acre area, while the plant of interest actually occupies only 20% of this total area, would have an RA of Low (<=20%).
 ___ Unknown ___ Low (>0%, <=20%) ___ Medium (>20%, <=80%) ___ High (>80%, <=95%) ___ Very High (>95%)

Confidence Extent: Are you confident that the observed area represents the full extent of occupied habitat for the Element at that location? Y N ? (Y=confident that full extent is known; N= confident that full extent is not known; ?= uncertainty whether full extent is known). **Comments:** _____

SURVEY INFORMATION	
Surveyors (principle surveyor first; include first and last name): _____	
Phone #: (____) ____ - ____	E-mail address: _____
Address: _____	
Survey Date: _____ - ____ - ____ (yyyy-mm-dd)	Time: From: _____ AM or PM (circle) to: _____ AM or PM (circle)
Last Observed: _____ - ____ - ____ (yyyy-mm-dd)	First Observed: _____ - ____ - ____ (yyyy-mm-dd)
Weather Conditions: _____	

ELEMENT OCCURRENCE DATA

Abundance:

Actual number (individuals, clumps, or colonies) observed: _____

Estimated number(s) and basis for estimate: _____

Area of Occupancy (fill in one): _____meters² _____acres _____miles² **Type of measurement:** ___Precise or ___Estimate

Condition (plants sterile, in bud, flower or fruit, evidence of disease or predation): _____

Associated plant and/or animal species within observed area: _____

General Description (habitat): Describe the physical setting/context surrounding the EO, including a list of adjacent communities and surrounding land use. _____

Landscape Context: Describe the degree of fragmentation and connectivity, species composition, biological structure, ecological processes, and abiotic factors in the surrounding area. _____

Exotics present? Y N Describe their impact: _____

CONSERVATION INFORMATION

Name of Managed Area(s): A) _____ B) _____ C) _____

Is EO completely within boundaries of Managed Area(s)? Yes or Partially (*Y or P*) A) _____ B) _____ C) _____

Public Owner(s): _____

Private Owner(s): _____

Owner Comments (include address/phone number): _____

Management Comments (e.g., exotics, burn needed, hydrology, adjacent land use, cumulative effects, etc.): _____

Current/Potential Threats and Protection Comments (e.g. logging, grazing, legal actions/strategies needed to secure protection for the site): _____

Monitoring and Research Needs: _____

Additional Comments: _____

Form transcribed by (first and last name): _____ **Date:** _____

Form completed by (BCD Updater) (first and last name): _____ **Date:** _____

Thank you for your assistance in helping maintain the Missouri Natural Heritage Program.

Return to: Resource Science Division – Heritage Zoologist
 Missouri Department of Conservation
 1110 S. College Ave., Columbia, Missouri 65201
 573-882-9909

ANIMALS OF CONSERVATION CONCERN REPORTING FORM

Instructions: Complete ONE form per visit per (source) location.

ELEMENT IDENTIFICATION and LOCATION			
Scientific name: _____		Common name: _____	
Identification problems: Y N Explain: _____			
Photograph/slide taken? Y N Where has photo/slide been deposited? _____			
Specimen collected? Y N Collector, collection #, and repository: _____			
Survey site name: _____			
Directions to the survey site (include landmarks, roads, towns, distances, compass directions): _____			
County(ies): _____			
USGS Quadrangle names: _____			
Twp _____	Rng _____	Sec _____	¼ sec _____
If using a GPS unit, please collect data in NAD83, zone 15: if unfeasible, indicate: NAD _____ zone _____			
UTM: Northing (Y) _____		OR: Latitude _____	
Easting (X) _____		Longitude _____	
Explanation of possible GPS unit inaccuracy: _____			

TOPOGRAPHIC MAP (mandatory): Attach a copy of the topographic map or DOQ (no county maps, please!) with the species' location marked. Please identify *who* marked the map (i.e., observer, transcriber, updater, or Heritage Biologist). Use the following guidelines to draw the source's location on the map as precisely as possible. Note: Heritage mappers will digitize exactly what is drawn on your map.

- Use a fine tip pen to mark a pen point or thin solid line identifying the source location. If the element occurrence or source boundary follows the edge of a lake, stream, road or other feature, draw the boundary precisely on the edge of the feature
- Disjunct patches of the same element occurrence should be represented as individual source features; each source feature should be drawn (and a reporting form completed for each) as separate polygons. Label each source with a unique site name.
- If you are not certain you can draw the observed area's exact location, draw a boundary line inclusive of the entire area where you are certain the source was observed. Draw as small an area as you can while still being certain it contains the actual location of the observed element. Where possible, use features on the map such as roads, streams, contour lines, etc., to delineate this area. For example, draw a line along the stretch of trail where the EO was observed.

Locational Uncertainty: How accurate is your depiction of the source's location on the map?

Is the mapped location within 6m (20ft) of its actual location on the ground? Y N

If NO: The marked location is accurate to within _____ m or _____ ft or _____ mi of the actual location.

Representational Accuracy (RA): Approximately how much of the mapped area is actually occupied by the element?

For example, a single animal occurring somewhere within a one acre swampy area (EO mapped to the boundaries of the swamp), would have an RA of Low (<=20%).

___ Unknown ___ Low (>0%, <=20%) ___ Medium (>20%, <=80%) ___ High (>80%, <=95%) ___ Very High (>95%)

Confidence Extent: Are you confident that the observed area represents the full extent of occupied habitat for the Element at that location? Y N ? (Y=confident that full extent is known; N= confident that full extent is not known; ?= uncertainty whether full extent is known). **Comments:** _____

SURVEY INFORMATION	
Surveyors (principle surveyor first; include first and last name): _____	
Phone #: (____) ____ - ____	E-mail address: _____
Address: _____	
Source Feature (Descriptor) Name: _____	
Source Feature Locator(s) (i.e. UTM, site location ID, distance from known points, etc): _____	
Location Use Class (BCD Eotype) (e.g., breeding site, migratory stopover, hibernaculum, etc.): _____	
Survey Date: ____ - ____ - ____ (yyyy-mm-dd)	Time: From: _____ AM or PM (circle) to: _____ AM or PM (circle)
Last Observed: ____ - ____ - ____ (yyyy-mm-dd)	First Observed: ____ - ____ - ____ (yyyy-mm-dd)
Weather Conditions: _____	
Additional survey work needed? Y N If yes, explain: _____	

ELEMENT OCCURRENCE DATA
Sampling methodology (briefly describe traps, seining, call count, etc.): _____

Sampling effort (e.g., # seine haul, # traps, search/hour, etc): _____

External Measurements: _____
Abundance:
Actual number (number of adults, juveniles, dens, etc.) observed: _____
Estimated number(s) and basis for estimate: _____
Population density (if practical): number: _____ per areal unit: _____ (i.e. meters², etc)
Area of Occupancy (fill in one): _____ meters² _____ acres _____ miles² **Type of measurement:** _____ Precise or _____ Estimate
Is associated qualitative/quantitative data available (age, sex, mass, etc.)? Y N **If "Yes", where is it located:** _____

Condition (evidence of reproduction or disease/predation/injury): _____

Associated plant and/or animal species within observed area: _____

General Description (habitat): Describe the physical setting/context surrounding the EO, including a list of adjacent communities and surrounding land use. _____

Landscape Context: Describe the degree of fragmentation and connectivity, species composition, biological structure, ecological processes, and abiotic factors in the surrounding area. _____

Exotics present? Y N **Describe their impact:** _____

TOPOGRAPHY:
Moisture: inundated _____ saturated (wet-mesic) _____ moist (mesic) _____ dry-mesic _____ dry _____
Light: open _____ partial _____ filtered _____ shade _____
Position: crest _____ upper slope _____ mid slope _____ lower slope _____ bottom _____
Aspect: N _____ NE _____ E _____ NW _____ S _____ SE _____ W _____ SW _____
Slope: flat _____ 0-10 _____ 10-35 _____ 35+ _____ vertical _____

CONSERVATION INFORMATION
Name of Managed Area(s): A) _____ B) _____ C) _____
Is EO completely within boundaries of Managed Area(s)? Yes or Partially (*Y or P*) A) _____ B) _____ C) _____
Public Owner(s): _____
Private Owner(s): _____
Owner Comments (include address/phone number): _____

Management Comments (e.g., exotics, burn needed, hydrology, adjacent land use, cumulative effects, etc.): _____

Current/potential Threats and Protection Comments (e.g. logging, grazing, legal actions/strategies needed to secure protection for the site): _____

Monitoring and Research Needs : _____

Additional Comments: _____

Form transcribed by (first and last name): _____ **Date:** _____
Form completed by (BCD Updater) (first and last name): _____ **Date:** _____

Thank you for your assistance in helping maintain the Missouri Natural Heritage Program.

Return to: Resource Science Division – Heritage Zoologist
 Missouri Department of Conservation
 1110 S. College Ave.
 Columbia, Missouri 65201
 573-882-9909

TERRESTRIAL NATURAL COMMUNITY REPORTING FORM

Instructions: Complete ONE form per visit per (source) location.

ELEMENT IDENTIFICATION and LOCATION	
Scientific name: _____	
Identification problems: Y N If "Yes", explain: _____	
Photograph/slide taken? Y N Where has photo/slide been deposited? _____	
Survey site name: _____	
Directions to the survey site (include landmarks, roads, towns, distances, compass directions): _____	
County(ies): _____	
USGS Quadrangle names: _____	
Twp _____	Rng _____ Sec _____ ¼ sec _____
If using a GPS unit, please collect data in NAD83, zone 15; if unfeasible, indicate: NAD _____ zone _____	
UTM: Northing (Y) _____	OR: Latitude _____
Easting (X) _____	Longitude _____
Explanation of possible GPS unit inaccuracy: _____	

<p>TOPOGRAPHIC MAP (mandatory) Attach a copy of the topographic map or DOQ (no county maps, please!) with the natural community location marked. Please identify <i>who</i> marked the map (i.e., observer, transcriber, updater, or Heritage Biologist).</p> <p>Use the following guidelines to draw the source's location on the map <u>as precisely as possible</u>. Note: Heritage mappers will digitize <u>exactly</u> what is drawn on your map.</p> <ul style="list-style-type: none"> • Use a fine tip pen to mark a pen point or thin solid line identifying the source location. If the element occurrence or source boundary follows the edge of a lake, stream, road or other feature, draw the boundary <u>precisely on the edge</u> of the feature. • Disjunct patches of the same element occurrence should be represented as individual source features; each source feature should be drawn (and a reporting form completed for each) as separate polygons. Label each source with a unique site name. • If you are not certain you can draw the observed area's <u>exact</u> location, draw a boundary line inclusive of the entire area where you are certain the source was observed. Draw as small an area as you can while still being certain it contains the actual location of the observed element. Where possible, use features on the map such as roads, streams, contour lines, etc., to delineate this area. <p>Locational Uncertainty: How accurate is your depiction of the source's location on the map? Is the mapped location within 6m (20ft) of its actual location on the ground? Y N If NO: The mapped location is accurate to within _____ m or _____ ft or _____ mi of the actual location.</p> <p>Representational Accuracy (RA): Approximately how much of the mapped area is actually occupied by the element? For example, a glade EO occurring in closely spaced patches that is mapped as a single polygon encompassing a ten acre area, while the natural community of interest <u>actually occupies</u> only 20% of this total area, would have an RA of Low (<=20%). ___ Unknown ___ Low (>0%, <=20%) ___ Medium (>20%, <=80%) ___ High (>80%, <=95%) ___ Very High (>95%)</p> <p>Confidence Extent: Are you confident that the observed area represents the full extent of occupied habitat for the Element at that location? Y N ? (Y=confident that full extent is known; N= confident that full extent is <u>not</u> known; ?= uncertainty whether full extent is known). Comments: _____</p> <p>_____</p>

SURVEY INFORMATION	
Surveyors (principle surveyor first; include first and last name): _____	
Phone #: (____) ____ - ____	E-mail address: _____
Address: _____	
Source Feature Name (Descriptor): _____	
Source Feature Locator(s) (i.e. UTM, site location ID, distance from known points, etc): _____	
Survey Date: ____ - ____ - ____ (yyyy-mm-dd) Time: From: _____ AM or PM (circle) to: _____ AM or PM (circle)	
Last Observed: ____ - ____ - ____ (yyyy-mm-dd) First Observed: ____ - ____ - ____ (yyyy-mm-dd)	
Weather Conditions: _____	

ELEMENT OCCURRENCE DATA

Is associated qualitative/quantitative data available? Y N **If "Yes", where is it located:** _____

Method used (circle): Ocular estimate Quantitative transect or plot

Condition: (Quality of biotic and abiotic factors/processes w/in the EO, such as stand maturity, species composition, stability of substrate, water quality, etc.). **Comments:** _____

Size: Area: _____ acres **Length:** _____ (incl. unit of measure) **Width:** _____ (incl. unit of measure)

Community significance (circle one): Significant Exceptional Notable

General Description: Describe the physical setting/context of the EO, including a list of adjacent communities and surrounding land use.

Landscape Context: (Quality of biotic and abiotic factors/processes surrounding the EO, such as structure, extent, condition, fragmentation, hydrologic manipulation, etc.). **Comments:** _____

Species Composition: Indicate the **Stratum** that each species inhabits (e.g., tree, shrub, herb, non-vascular, other), **Lifeform** (e.g., herb – forb, graminoid, fern, etc.), and the **Percent Cover**. _____

Exotics present? Y N **Describe their impact:** _____

Natural and Anthropogenic Disturbances: _____

TOPOGRAPHY:

Position: ridge _____ upper slope _____ mid slope _____ lower slope _____ bottom _____

Aspect: N _____ NE _____ E _____ NW _____ S _____ SE _____ W _____ SW _____

Slope: flat _____ 0-10 _____ 10-35 _____ 35+ _____ vertical _____

Geology Comments (substrate): _____

Soil Type (s): _____

CONSERVATION INFORMATION

Name of Managed Area(s): A) _____ B) _____ C) _____

Is EO completely within boundaries of Managed Area(s)? Yes or Partially (*Y or P*) A) _____ B) _____ C) _____

Public Owner(s): _____

Private Owner(s): _____

Owner Comments (include address/phone number): _____

Management Comments (e.g., exotics, burn needed, hydrology, adjacent land use, cumulative effects, etc. Include urgency.):

Current/potential Threats and Protection Comments (e.g. logging, grazing, legal actions/strategies needed to secure protection for the site): _____

Monitoring and Research Needs : _____

Additional Comments: _____

Form transcribed by (complete name): _____ **Date:** _____

Form completed by (BCD Updater) (first and last name): _____ **Date:** _____

Thank you for your assistance in helping maintain the Missouri Natural Heritage Program.

Return to: Resource Science Division – Heritage Zoologist
Missouri Department of Conservation
1110 S. College Ave., Columbia, Missouri 65201
573-882-9909