



STATE OF MICHIGAN  
JOCELYN BENSON, SECRETARY OF STATE  
DEPARTMENT OF STATE  
LANSING

March 20, 2023

**NOTICE OF FILING**

**ADMINISTRATIVE RULES**

To: Secretary of the Senate  
Clerk of the House of Representatives  
Joint Committee on Administrative Rules  
Michigan Office of Administrative Hearings and Rules (Administrative Rule #2022-011-NR)  
Legislative Service Bureau (Secretary of State Filing #23-03-01)  
Department of Natural Resources

In accordance with the requirements of Section 46 of Act No. 306 of the Public Acts of 1969, being MCL 24.246, and paragraph 16 of Executive Order 1995-6, this is to advise you that the Michigan Office of Administrative Hearings and Rules filed Administrative Rule #2022-011-NR (Secretary of State Filing #23-03-01) on this date at 11:39 A.M. for the Department of Natural Resources entitled, "Endangered and Threatened Species."

These rules take effect immediately upon filing with the Secretary of State unless adopted under section 33, 44, or 45a(9) of the administrative procedures act of 1969, 1969 PA 306, MCL 24.233, 24.244, or 24.245a. Rules adopted under these sections become effective 7 days after filing with the Secretary of State.

Sincerely,

Jocelyn Benson  
Secretary of State

A handwritten signature in black ink that reads "Lashana Threlkeld / CSC".

Lashana Threlkeld, Departmental Supervisor  
Office of the Great Seal

Enclosure



GRETCHEN WHITMER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS  
LANSING  
MICHIGAN OFFICE OF ADMINISTRATIVE HEARINGS AND RULES  
SUZANNE SONNEBORN  
EXECUTIVE DIRECTOR

ORLENE HAWKS  
DIRECTOR

March 20, 2023

The Honorable Jocelyn Benson  
Secretary of State  
Office of the Great Seal  
Richard H. Austin Building – 1<sup>st</sup> Floor  
430 W. Allegan  
Lansing, MI 48909

Dear Secretary Benson:

Re: Administrative Rules – Michigan Office of Administrative Hearings and Rules  
Administrative Rules #: 2022-11 NR

The Michigan Office of Administrative Hearings and Rules received administrative rules, dated June 9, 2022 for the Department of Natural Resources “**Endangered and Threatened Species**”. We are transmitting these rules to you pursuant to the requirements of Section 46 of Act No. 306 of the Public Acts of 1969, being MCL 24.246, and paragraph 16 of Executive Order 1995-6.

Sincerely, 

Michigan Office of Administrative Hearings and Rules



STATE OF MICHIGAN

GRETCHEN WHITMER  
GOVERNOR

DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS

ORLENE HAWKS  
DIRECTOR

## LEGAL CERTIFICATION OF RULES

I certify that I have examined the attached administrative rules, dated June 9, 2022, in which the Department of Natural Resources proposes to modify a portion of the Michigan Administrative Code entitled “**Endangered and Threatened Species**” by:

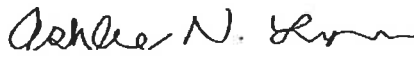
- ◆ Amending R 299.1021, R 299.1022, R 299.1023, R 299.1024, R 299.1025, R 299.1026, R 299.1027, and R 299.1028.

The Legislative Service Bureau has approved the proposed rules as to form, classification, and arrangement.

I approve the rules as to legality pursuant to the Administrative Procedures Act, MCL 24.201 *et seq.* and Executive Order No. 2019-6. In certifying the rules as to legality, I have determined that they are within the scope of the authority of the agency, do not violate constitutional rights, and are in conformity with the requirements of the Administrative Procedures Act.

Dated: November 1, 2022

Michigan Office of Administrative Hearings and Rules

By: 

Ashlee N. Lynn,  
Attorney



Since 1941

**Legal Division**

**Kevin H. Studebaker, Director**

CERTIFICATE OF APPROVAL

On behalf of the Legislative Service Bureau, and as required by section 45 of the Administrative Procedures Act of 1969, 1969 PA 306, MCL 24.245, I have examined the proposed rules of the Department of Natural Resources dated June 9, 2022, amending R 299.1021, R 299.1022, R 299.1023, R 299.1024, R 299.1025, R 299.1026, R 299.1027, and R 299.1028 of the Department's rules entitled "Endangered and Threatened Species." I approve the rules as to form, classification, and arrangement.

Dated: November 1, 2022

LEGISLATIVE SERVICE BUREAU

By \_\_\_\_\_

Rachel M. Hughart,  
Legal Counsel

## CERTIFICATE OF ADOPTION

By authority conferred on the department of natural resources by part 365 of 451 PA 1994, MCL 324.36503, Administrative Rules R 299.1021, R 299.1022, R 299.1023, R 299.1024, R 299.1025, R 299.1026, R 299.1027, and R 299.1028 of the Michigan Administrative Code are amended.

Adopted by: Shannon Lott  
Shannon Lott, Acting Director

1/18/2023  
Date

DEPARTMENT OF NATURAL RESOURCES

WILDLIFE DIVISION

ENDANGERED AND THREATENED SPECIES

Filed with the secretary of state on March 20, 2023

These rules take effect immediately upon filing with the secretary of state unless adopted under section 33, 44, or 45a(9) of the administrative procedures act of 1969, 1969 PA 306, MCL 24.233, 24.244, or 24.245a. Rules adopted under these sections become effective 7 days after filing with the secretary of state.

(By authority conferred on the department of natural resources by section 36503 of the natural resources and environmental protection act, 1994 PA 451, MCL 324.36503)

R 299.1021, R 299.1022, R 299.1023, R 299.1024, R 299.1025, R 299.1026, R 299.1027, and R 299.1028 of the Michigan Administrative Code are amended, as follows:

R 299.1021 Mollusks.

Rule 1. (1) The following mollusk species of class Pelecypoda (mussels) are included on the state list of endangered species:

<i>Epioblasma perobliqua</i>	White catspaw
<i>Epioblasma rangiana</i>	Northern riffleshell
<i>Epioblasma triquetra</i>	Snuffbox
<i>Obliquaria reflexa</i>	Threehorn wartyback
<i>Obovaria olivaria</i>	Hickorynut
<i>Obovaria subrotunda</i>	Round hickorynut
<i>Paetulunio fabalis</i>	Rayed bean
<i>Pleurobema clava</i>	Clubshell
<i>Sagittunio nasutus</i>	Eastern pondmussel
<i>Simpsonaias ambigua</i>	Salamander mussel
<i>Toxolasma lividus</i>	Purple lilliput
<i>Toxolasma parvum</i>	Lilliput
<i>Truncilla donaciformis</i>	Fawnsfoot

(2) The following mollusk species of class Pelecypoda (mussels) are included on the state list of threatened species:

<i>Alasmidonta viridis</i>	Slippershell
<i>Cyclonaias tuberculata</i>	Purple wartyback
<i>Lampsilis fasciola</i>	Wavyrayed lampmussel
<i>Ligumia recta</i>	Black sandshell

(3) The following mollusk species of class Pelecypoda (mussels) are thought to be extirpated in this state, but will be listed automatically as endangered if rediscovered in the state:

<i>Leptodea leptodon</i>	Scaleshell
<i>Potamilus ohiensis</i>	Pink papershell

(4) The following mollusk species of class Gastropoda (snails) are included on the state list of endangered species:

<i>Catinella protracta</i>	A land snail (no common name)
<i>Gastrocopta holzingeri</i>	Lamda snaggletooth
<i>Guppya sterkii</i>	Sterki's granule
<i>Planorbella multivolvis</i>	Acorn ramshorn
<i>Vallonia gracilicosta albula</i>	A land snail (no common name)
<i>Vertigo hubrichti</i>	Hubricht's vertigo
<i>Vertigo modesta modesta</i>	A land snail (no common name)
<i>Vertigo modesta parietalis</i>	A land snail (no common name)
<i>Vertigo morsei</i>	Six-whorl vertigo
<i>Vertigo nylanderi</i>	Deep-throat vertigo

(5) The following mollusk species of class Gastropoda (snails) are included on the state list of threatened species:

<i>Catinella exile</i>	Pleistocene catinella
<i>Catinella gelida</i>	A land snail (no common name)
<i>Euchemotrema hubrichti</i>	Carinate pillsnail
<i>Euconulus alderi</i>	A land snail (no common name)
<i>Hendersonia occulta</i>	Cherrystone drop
<i>Mesodon elevatus</i>	Proud globe
<i>Pallifera fosteri</i>	Foster mantleslug
<i>Vertigo bollesiana</i>	Delicate vertigo

R 299.1022 Insects.

Rule 2. (1) The following insect species are included on the state list of endangered species:

<i>Bombus affinis</i>	Rusty-patched bumble bee
<i>Bombus pensylvanicus</i>	American bumble bee
<i>Brychius hungerfordi</i>	Hungerford's crawling water beetle
<i>Calephelis muticum</i>	Swamp metalmark
<i>Catocala amestris</i>	Three-staff underwing
<i>Fitchiella robertsonii</i>	Robertson's flightless planthopper

<i>Flexamia huroni</i>	Huron River leafhopper
<i>Hesperia ottoe</i>	Ottoe skipper
<i>Neonympha mitchellii mitchellii</i>	Mitchell's satyr
<i>Oarisma poweshiek</i>	Poweshiek skipperling
<i>Schinia indiana</i>	Phlox moth
<i>Schinia lucens</i>	Leadplant moth
<i>Somatochlora hineana</i>	Hine's emerald dragonfly
<i>Stylurus plagiatus</i>	Russet-tipped clubtail
<i>Tachopteryx thoreyi</i>	Gray petaltail

(2) The following insect species are included on the state list of threatened species:

<i>Callophrys irus</i>	Frosted elfin
<i>Cordulegaster erronea</i>	Tiger spiketail
<i>Dryobius sexnotatus</i>	Six-banded longhorn beetle
<i>Erynnis persius persius</i>	Persius dusky wing
<i>Euphyes dukesi</i>	Dukes' skipper
<i>Flexamia reflexa</i>	Leafhopper
<i>Lycaeides melissa samuelis</i>	Karner blue
<i>Macromia alleghaniensis</i>	Alleghany river cruiser
<i>Ophiogomphus howei</i>	Pygmy snaketail
<i>Papaipema sciata</i>	Culvers root borer
<i>Papaipema silphii</i>	Silphium borer moth
<i>Plebejus idas nabokovi</i>	Nabokov's blue
<i>Pyrgus wyandot</i>	Grizzled skipper
<i>Stylurus notatus</i>	Elusive clubtail
<i>Trimerotropis huroniana</i>	Lake Huron locust

(3) The following insect species are thought to be extirpated in this state, but will be listed automatically as threatened if rediscovered in the state:

<i>Chlosyne gorgone</i>	Gorgone checkerspot
<i>Nicrophorus americanus</i>	American burying beetle
<i>Polygonia gracilis</i>	Hoary comma
<i>Speyeria idalia</i>	Regal fritillary

#### R 299.1023 Fishes.

Rule 3. (1) The following fish species are included on the state list of endangered species:

<i>Chrosomus erythrogaster</i>	Southern redbelly dace
<i>Clinostomus elongatus</i>	Redside dace
<i>Coregonus zenithicus</i>	Shortjaw cisco
<i>Erimyzon oblongus</i>	Western creek chubsucker
<i>Hiodon tergisus</i>	Mooneye
<i>Notropis anogenus</i>	Pugnose shiner
<i>Notropis photogenis</i>	Silver shiner
<i>Noturus stigmosus</i>	Northern madtom
<i>Opsopoeodus emiliae</i>	Pugnose minnow



<i>Percina copelandi</i>	Channel darter
<i>Percina shumardi</i>	River darter
<i>Sander canadensis</i>	Sauger

(2) The following fish species are included on the state list of threatened species:

<i>Acipenser fulvescens</i>	Lake sturgeon
<i>Ammocrypta pellucida</i>	Eastern sand darter
<i>Coregonus artedi</i>	Cisco
<i>Coregonus bartlettii</i>	Siskiwit lake cisco
<i>Coregonus hubbsi</i>	Ives lake cisco
<i>Etheostoma spectabile</i>	Orangethroat darter
<i>Macrhybopsis storeriana</i>	Silver chub
<i>Moxostoma carinatum</i>	River redhorse
<i>Notropis dorsalis</i>	Bigmouth shiner
<i>Noturus miurus</i>	Brindled madtom

(3) The following fish species are thought to be extirpated in this state, but will be listed automatically as threatened if rediscovered in the state:

<i>Coregonus nigripinnis</i>	Blackfin cisco
<i>Coregonus reighardi</i>	Shortnose cisco
<i>Hybopsis amblops [Notropis amblops]</i>	Bigeye chub
<i>Notropis chalybaeus</i>	Ironcolor shiner
<i>Notropis texanus</i>	Weed shiner
<i>Polyodon spathula</i>	Paddlefish
<i>Thymallus arcticus</i>	Arctic grayling

(4) The following fish species are thought to be extinct, but will be listed automatically as extirpated if rediscovered outside this state and listed automatically as threatened if rediscovered within this state:

<i>Coregonus johannae</i>	Deepwater cisco
<i>Sander vitreus glaucus</i>	Blue pike

#### R 299.1024 Amphibians.

Rule 4. (1) The following amphibian species are included on the state list of endangered species:

<i>Ambystoma opacum</i>	Marbled salamander
<i>Ambystoma texanum</i>	Small-mouthed salamander or Smallmouth salamander
<i>Siren intermedia nettingi</i>	Western lesser siren

(2) The following amphibian species is included on the state list of threatened species:

<i>Acris crepitans blanchardii [Acris blanchardii]</i>	Blanchard's cricket frog
--	--------------------------

#### R 299.1025 Reptiles.

Rule 5. (1) The following reptile species are included on the state list of endangered species:

<i>Clonophis kirtlandii</i>	Kirtland's snake
-----------------------------	------------------

*Nerodia erythrogaster neglecta*

Copper-bellied water snake  
or Copperbelly water snake

(2) The following reptile species are included on the state list of threatened species:

*Aspidoscelis sexlineatus* [*Aspidoscelis sexlineata*]

Six-lined racerunner

*Clemmys guttata*

Spotted turtle

*Glyptemys insculpta*

Wood turtle

*Pantherophis gloydi*

Eastern fox snake

*Sistrurus catenatus*

Eastern massasauga  
rattlesnake

*Terrapene carolina* [*Terrapene carolina carolina*]

Eastern box turtle

R 299.1026 Birds.

Rule 6. (1) The following bird species are included on the state list of endangered species:

*Asio flammeus*

Short-eared owl

*Asio otus*

Long-eared owl

*Centronyx henslowii* [*Ammodramus henslowii*]

Henslow's sparrow

*Charadrius melodus*

Piping plover

*Lanius ludovicianus migrans*

Migrant loggerhead shrike

*Rallus elegans*

King rail

*Tyto alba*

Barn owl

(2) The following bird species are included on the state list of threatened species:

*Accipiter gentilis*

Northern goshawk

*Antrostomus vociferus*

Eastern whip-poor-will

*Bartramia longicauda*

Upland sandpiper

*Canachites canadensis*

Spruce grouse

*Chlidonias niger*

Black tern

*Coccothraustes vespertinus*

Evening grosbeak

*Corturnicops noveboracensis*

Yellow rail

*Falco peregrinus*

Peregrine falcon

*Gallinula galeata*

Common gallinule

*Gavia immer*

Common loon

*Hydroprogne caspia*

Caspian tern

*Ixobrychus exilis*

Least bittern

*Parkesia motacilla* (Vieillot)

Louisiana waterthrush

*Setophaga cerulea*

Cerulean warbler

*Setophaga kirtlandii*

Kirtland's warbler

*Sterna forsteri*

Forster's tern

*Sterna hirundo*

Common tern

*Vermivora chrysoptera*

Golden-winged warbler

R 299.1027 Mammals.

Rule 7. (1) The following mammal species are included on the state list of endangered species:

*Felis concolor*

Cougar

*Lynx canadensis*  
*Microtus ochrogaster*  
*Myotis sodalis*

Lynx  
 Prairie vole  
 Indiana bat

(2) The following mammal species are included on the state list of threatened species:

*Cryptotis parva*  
*Myotis lucifugus*  
*Myotis septentrionalis*  
*Nycticeius humeralis*  
*Perimyotis subflavus*

Least shrew  
 Little brown bat  
 Northern long-eared bat  
 Evening bat  
 Eastern pipistrelle or  
 Tricolored bat

R 299.1028 Plants.

Rule 8. (1) The following plant species are included on the state list of endangered species:

*Agalinis gattingeri*  
*Agalinis skinneriana*  
*Amerorchis rotundifolia* [*Orchis rotundifolia*]  
*Aristida tuberculosa*  
*Arnica cordifolia* [*Arnica whitneyi*]  
*Arnica lonchophylla*  
*Asclepias ovalifolia*  
*Asplenium ruta-muraria*  
*Asplenium scolopendrium* var. *americanum* [*Phyllitis scolopendrium* var. *americana*]  
*Baptisia leucophaea*  
*Besseyia bullii*  
*Botrychium mormo*  
*Bouteloua curtipendula*  
*Caltha natans*  
*Carex crus-corvi*  
*Carex heleonastes*  
*Carex nigra*  
*Carex platyphylla*  
*Carex straminea*  
*Carex tinctoria*  
*Castanea dentata*  
*Chamaerhodos nuttallii* var. *keweenawensis* [*Chamaerhodos erecta*]  
*Chelone obliqua*  
*Coreopsis palmata*  
*Dennstaedtia punctilobula*  
*Dichanthelium polyanthes* [*Panicum polyanthes*]  
*Draba cana*  
*Draba glabella*  
*Draba incana*  
*Echinodorus tenellus* [*Echinodorus parvulus*]

Gattinger's gerardia  
 Skinner's gerardia  
 Small round-leaved orchis  
 Beach three-awned grass  
 Heart-leaved arnica  
 Longleaf arnica  
 Dwarf milkweed  
 Wall-rue  
 Hart's-tongue fern  
  
 Cream wild indigo  
 Kitten-tails  
 Goblin moonwort  
 Side-oats grama grass  
 Floating marsh marigold  
 Raven's-foot sedge  
 Hudson Bay sedge  
 Black sedge  
 Broad-leaved sedge  
 Straw sedge  
 Sedge  
 American chestnut  
 Rock-rose  
  
 Purple turtlehead  
 Prairie coreopsis  
 Hay-scented fern  
 Round-seed panic-grass  
 Ashy whitlow grass  
 Smooth whitlow grass  
 Twisted whitlow grass  
 Dwarf burhead

<i>Eleocharis atropurpurea</i>	Purple spike rush
<i>Eleocharis microcarpa</i>	Small-fruited spike-rush
<i>Eleocharis nitida</i>	Slender spike rush
<i>Eleocharis parvula</i>	Dwarf spike-rush
<i>Eleocharis radicans</i>	Spike rush
<i>Eryngium yuccifolium</i>	Rattlesnake-master or Button snakeroot
<i>Galium kamtschaticum</i>	Bedstraw
<i>Gentiana alba</i>	White gentian
<i>Gentiana puberulenta</i> [ <i>Gentiana puberula</i> ]	Downy gentian
<i>Glyceria acutiflora</i>	Manna grass
<i>Gymnocarpium jessoense</i>	Northern oak fern
<i>Hedysarum alpinum</i>	Alpine sainfoin
<i>Huperzia appressa</i>	Mountain fir moss
<i>Hypericum adpressum</i>	Creeping St. John's-wort
<i>Hypericum sphaerocarpum</i>	Round-fruited St. John's- wort
<i>Isoetes engelmannii</i>	Engelmann's quillwort
<i>Juncus stygius</i>	Moor rush
<i>Ludwigia sphaerocarpa</i>	Globe-fruited seedbox
<i>Lygodium palmatum</i>	Climbing fern
<i>Mikania scandens</i>	Mikania or Climbing hempweed
<i>Mimulus michiganensis</i> [ <i>Mimulus glabratus</i> var. <i>michiganensis</i> ]	Michigan monkey flower
<i>Nuphar microphylla</i>	Small yellow pond lily
<i>Nymphaea leibergii</i> [ <i>Nymphaea tetragona</i> ]	Pygmy water lily
<i>Ophioglossum vulgatum</i> [ <i>Ophioglossum pycnostichum</i> ]	Southeastern adder's- tongue
<i>Opuntia fragilis</i>	Fragile prickly pear
<i>Panicum philadelphicum</i>	Philadelphia panic-grass
<i>Penstemon gracilis</i>	Slender beard tongue
<i>Phlox ovata</i> [ <i>Phlox latifolia</i> ]	Widflower phlox
<i>Plantago cordata</i>	Heart-leaved plantain
<i>Platanthera ciliaris</i> [ <i>Habenaria ciliaris</i> ]	Orange- or yellow-fringed orchid
<i>Platanthera leucophaea</i> [ <i>Habenaria leucophaea</i> ]	Prairie white-fringed orchid
<i>Poa secunda</i>	Canby's bluegrass
<i>Populus heterophylla</i>	Swamp cottonwood
<i>Primula meadia</i>	Shooting star
<i>Proserpinaca pectinata</i>	Mermaid-weed
<i>Rhynchospora nitens</i> [ <i>Psilocarya nitens</i> ]	Short-beak beak-rush
<i>Rhynchospora recognita</i> [ <i>Rhynchospora globularis</i> ]	Globe beak-rush
<i>Ruellia strepens</i>	Smooth ruellia
<i>Rumex occidentalis</i>	Western dock
<i>Sanguisorba canadensis</i>	Canadian burnet
<i>Schoenoplectus americanus</i> [ <i>Scirpus olneyi</i> ]	Three-square bulrush

<i>Scleria pauciflora</i>	Few-flowered nut rush
<i>Scutellaria nervosa</i>	Skullcap
<i>Silene virginica</i>	Fire pink
<i>Silphium laciniatum</i>	Compass plant
<i>Solidago bicolor</i>	White goldenrod
<i>Solidago vossii</i>	Voss's goldenrod
<i>Sporobolus clandestinus</i>	Dropseed
<i>Stellaria crassifolia</i>	Fleshy stitchwort
<i>Subularia aquatica</i>	Awlwort
<i>Tetranneuris herbacea</i>	Lakeside daisy
<i>Tipularia discolor</i>	Cranefly orchid
<i>Trillium undulatum</i>	Painted trillium
<i>Utricularia inflata</i> [ <i>Utricularia radiata</i> ]	Floating bladderwort
<i>Vaccinium vitis-idaea</i>	Mountain cranberry
<i>Valerianella chenopodiifolia</i>	Goosefoot corn salad
<i>Valerianella umbilicata</i>	Corn salad
<i>Viola pedatifida</i>	Prairie birdfoot violet
<i>Woodsia alpina</i>	Northern woodsia

(2) The following plant species are included on the state list of threatened species:

<i>Adlumia fungosa</i>	Climbing fumitory
<i>Agoseris glauca</i>	Prairie or pale agoseris
<i>Allium schoenoprasum</i> [ <i>Allium schoenoprasum</i> var. <i>sibiricum</i> ]	Chives
<i>Aronia arbutifolia</i>	Red-fruited chokeberry
<i>Artemisia ludoviciana</i>	Western mugwort
<i>Artemisia serrata</i>	Sawtooth wormwood
<i>Asclepias hirtella</i>	Tall green milkweed
<i>Asclepias purpurascens</i>	Purple milkweed
<i>Asclepias sullivantii</i>	Sullivant's milkweed
<i>Asplenium rhizophyllum</i> [ <i>Camptosorus rhizophyllum</i> ]	Walking fern
<i>Baptisia lactea</i>	White false indigo
<i>Bartonia paniculata</i>	Panicled screwstem
<i>Beckmannia syzigachne</i>	Slough grass
<i>Bistorta vivipara</i>	Alpine bistort
<i>Boechera dentata</i>	Rock cress
<i>Boechera missouriensis</i>	Missouri rock cress
<i>Botrychium campestre</i>	Prairie Moonwort
<i>Botrychium michiganense</i> [ <i>Botrychium hesperium</i> ]	Michigan moonwort or Western moonwort
<i>Botrychium spathulatum</i>	Spatulate moonwort
<i>Bromus pumpellianus</i>	Pumpelly's brome grass
<i>Calamagrostis stricta</i> ssp. <i>stricta</i>	Narrow-leaved reedgrass
<i>Callitriche heterophylla</i>	Large water starwort
<i>Calypso bulbosa</i>	Calypso or fairy-slipper
<i>Camassia scilloides</i>	Wild hyacinth

<i>Canadanthus modestus</i>	Great northern aster
<i>Carex albolutescens</i>	Greenish-white sedge
<i>Carex assiniboinensis</i>	Assiniboia sedge
<i>Carex atratiformis</i>	Sedge
<i>Carex conjuncta</i>	Sedge
<i>Carex festucacea</i>	Fescue sedge
<i>Carex inops</i>	Sun sedge
<i>Carex lupuliformis</i>	False hop sedge
<i>Carex media</i>	Sedge
<i>Carex novae-angliae</i>	New England sedge
<i>Carex oligocarpa</i>	Eastern few-fruited sedge
<i>Carex rossii</i>	Ross's sedge
<i>Carex scirpoidea</i>	Bulrush sedge
<i>Carex seorsa</i>	Weak stellate sedge
<i>Carex typhina</i>	Cattail sedge
<i>Carex viridistellata</i>	Greenstar sedge
<i>Castilleja septentrionalis</i>	Pale Indian paintbrush
<i>Ceanothus sanguineus</i>	Wild lilac
<i>Cerastium brachypodum</i>	Shortstalk chickweed
<i>Cirsium pitcheri</i>	Pitcher's thistle
<i>Collinsia verna</i>	Blue-eyed-Mary
<i>Coptidium lapponicum</i>	Lapland buttercup
<i>Corydalis flavula</i>	Yellow fumewort
<i>Cryptogramma acrostichoides</i>	American rock-brake
<i>Cypripedium candidum</i>	White lady slipper
<i>Dalibarda repens</i>	False violet
<i>Dasistoma macrophylla</i>	Mullein-foxglove
<i>Dichanthelium leibergii</i> [ <i>Panicum leibergii</i> ]	Leiberg's panic grass
<i>Draba reptans</i>	Creeping whitlow grass
<i>Dryopteris celsa</i>	Small log fern
<i>Eleocharis compressa</i>	Flattened spike rush
<i>Eleocharis tricostata</i>	Three-ribbed spike rush
<i>Empetrum nigrum</i>	Black crowberry
<i>Endodeca serpentaria</i>	Virginia snakeroot
<i>Erigeron hyssopifolius</i>	Hyssop-leaved fleabane
<i>Eriophorum russeolum</i>	Bog cotton
<i>Eupatorium sessilifolium</i>	Upland boneset
<i>Euphorbia commutata</i>	Tinted spurge
<i>Euphrasia hudsoniana</i>	Hudson Bay eyebright
<i>Euphrasia nemorosa</i> [ <i>Euphrasia arctica</i> ]	Common eyebright
<i>Eurybia furcata</i> [ <i>Aster furcatus</i> ]	Forked aster
<i>Eutrochium fistulosum</i>	Hollow-stemmed Joe-pye weed
<i>Filipendula rubra</i>	Queen-of-the-prairie
<i>Fraxinus profunda</i> [ <i>Fraxinus tomentosa</i> ]	Pumpkin ash
<i>Fuirena pumila</i>	Umbrella-grass

<i>Galearis spectabilis</i> [ <i>Orchis spectabilis</i> ]	Showy orchis
<i>Gentiana linearis</i>	Narrow-leaved gentian
<i>Gentianella quinquefolia</i>	Stiff gentian
<i>Geum triflorum</i>	Prairie smoke
<i>Geum virginianum</i>	Pale avens
<i>Glyceria melicaria</i>	Slender manna grass
<i>Gratiola aurea</i> [ <i>Gratiola lutea</i> ]	Hedge-hyssop
<i>Gratiola virginiana</i>	Annual hedge hyssop
<i>Gymnocarpium robertianum</i>	Limestone oak fern
<i>Helianthus mollis</i>	Downy sunflower
<i>Hieracium paniculatum</i>	Panicled hawkweed
<i>Houstonia caerulea</i>	Azure bluet
<i>Hydrastis canadensis</i>	Goldenseal
<i>Ipomoea pandurata</i>	Wild sweet potato or Man-of-the-earth
<i>Iris lacustris</i>	Dwarf lake iris
<i>Isotria verticillata</i>	Whorled pogonia
<i>Juncus brachycarpus</i>	Short-fruited rush
<i>Juncus militaris</i>	Bayonet rush
<i>Juncus scirpoides</i>	Scirpus-like rush
<i>Juncus vaseyi</i>	Vasey's rush
<i>Justicia americana</i>	Water willow
<i>Lactuca floridana</i>	Woodland lettuce
<i>Lechea minor</i>	Least pinweed
<i>Lechea pulchella</i>	Leggett's pinweed
<i>Linum virginianum</i>	Virginia flax
<i>Lonicera involucrata</i>	Black twinberry
<i>Luzula parviflora</i>	Small-flowered wood rush
<i>Lycopodiella margueritae</i> [ <i>Lycopodiella appressa</i> ]	Northern prostrate clubmoss
<i>Mertensia virginica</i>	Virginia bluebells
<i>Mimulus alatus</i>	Winged monkey flower
<i>Minuartia dawsonensis</i>	Rock sandwort
<i>Moehringia macrophylla</i> [ <i>Arenaria macrophylla</i> ]	Big-leaf sandwort
<i>Monarda clinopodia</i>	White bergamot
<i>Morus rubra</i>	Red mulberry
<i>Muhlenbergia richardsonis</i>	Mat muhly
<i>Myrica pensylvanica</i>	Northern bayberry
<i>Omalothea sylvatica</i>	Woodland everlasting
<i>Oplopanax horridus</i>	Devil's club
<i>Orobanche fasciculata</i>	Broomrape
<i>Osmorhiza depauperata</i> [ <i>Osmorhiza obtusa</i> ]	Sweet Cicely
<i>Packera indecora</i>	Northern ragwort
<i>Packera insulae-regalis</i>	Ragwort
<i>Panax quinquefolius</i>	Ginseng
<i>Panicum longifolium</i> [ <i>Panicum rigidulum</i> var. <i>pubescens</i> ]	Panic grass

<i>Panicum verrucosum</i>	Warty panic grass
<i>Parnassia palustris</i>	Marsh grass-of-parnassus
<i>Pellaea atropurpurea</i>	Purple cliff brake
<i>Penstemon calycosus</i>	Beard tongue
<i>Persicaria careyi</i>	Carey's smartweed
<i>Persicaria robustior</i>	Stout smartweed
<i>Petasites sagittatus</i> [ <i>Petasites frigidus</i> var. <i>sagittatus</i> ]	Sweet coltsfoot
<i>Phacelia franklinii</i>	Franklin's phacelia
<i>Phlox maculata</i>	Wild sweet William
<i>Piptatheropsis canadensis</i>	Canada rice grass
<i>Platanthera macrophylla</i>	Large round-leaved orchid
<i>Poa alpina</i>	Alpine bluegrass
<i>Polemonium reptans</i>	Jacob's ladder
<i>Potamogeton bicipulatus</i> [ <i>Potamogeton capillaceus</i> ]	Waterthread pondweed
<i>Potamogeton hillii</i>	Hill's pondweed
<i>Potamogeton pulcher</i>	Spotted pondweed
<i>Potamogeton vaseyi</i>	Vasey's pondweed
<i>Potentilla litoralis</i>	Prairie cinquefoil
<i>Potentilla supina</i>	Sand cinquefoil
<i>Prenanthes crepidinea</i>	Nodding rattlesnake-root
<i>Prosartes hookeri</i>	Fairy bells
<i>Prosartes trachycarpa</i> [ <i>Disporum trachycarpum</i> ]	Northern fairy bells
<i>Pterospora andromedea</i>	Pine-drops
<i>Pycnanthemum muticum</i>	Mountain mint
<i>Pycnanthemum pilosum</i>	Hairy mountain mint
<i>Ranunculus macounii</i>	Macoun's buttercup
<i>Ranunculus rhomboideus</i>	Prairie buttercup
<i>Rhexia mariana</i> [ <i>Rhexia mariana</i> var. <i>mariana</i> ]	Maryland meadow beauty
<i>Rubus acaulis</i> [ <i>Rubus arcticus</i> ssp. <i>acaulis</i> ]	Dwarf raspberry
<i>Ruellia humilis</i>	Hairy wild petunia
<i>Ruppia cirrhosa</i>	Widgeon grass
<i>Sabatia angularis</i>	Rosepink
<i>Sagina nodosa</i>	Pearlwort
<i>Sagittaria montevidensis</i> [ <i>Sagittaria calycina</i> , <i>Lophotocarpus calycinus</i> ]	Arrowhead
<i>Salix pellita</i>	Satiny willow
<i>Salix planifolia</i>	Tea-leaved willow
<i>Saxifraga paniculata</i>	Encrusted saxifrage
<i>Saxifraga tricuspidata</i>	Prickly saxifrage
<i>Schoenoplectiella hallii</i>	Hall's bulrush
<i>Scleria reticularis</i>	Netted nut rush
<i>Scutellaria ovata</i>	Forest skullcap
<i>Scutellaria parvula</i>	Small skullcap
<i>Silene nivea</i>	Evening campion
<i>Silene stellata</i>	Starry campion
<i>Silphium integrifolium</i>	Rosinweed



<i>Silphium perfoliatum</i>	Cup plant
<i>Sisyrinchium atlanticum</i>	Atlantic blue-eyed-grass
<i>Sisyrinchium strictum</i>	Blue-eyed-grass
<i>Smallanthus uvedalia</i>	Yellow-flowered leafcup
<i>Solidago houghtonii</i>	Houghton's goldenrod
<i>Symphyotrichum drummondii</i>	Drummond's aster
<i>Symphyotrichum sericeum</i>	Western silvery aster
<i>Tofieldia pusilla</i>	False asphodel
<i>Tradescantia virginiana</i>	Virginia spiderwort
<i>Trichostema brachiatum</i> [ <i>Isanthus brachiatus</i> ]	False pennyroyal
<i>Trichostema dichotomum</i>	Bastard pennyroyal
<i>Trillium nivale</i>	Snow trillium
<i>Trillium sessile</i>	Toadshade
<i>Triphora trianthophora</i>	Nodding pogonia or Three birds orchid
<i>Utricularia ochroleuca</i>	Northern bladderwort
<i>Utricularia subulata</i>	Bladderwort
<i>Vaccinium cespitosum</i>	Dwarf bilberry
<i>Vaccinium uliginosum</i>	Alpine blueberry
<i>Valeriana edulis</i> var. <i>ciliata</i> [ <i>Valeriana ciliata</i> ]	Edible valerian
<i>Viburnum edule</i>	Squashberry or Mooseberry
<i>Viola novae-angliae</i>	New England violet
<i>Viola rotundifolia</i>	Round-leaved violet
<i>Wisteria frutescens</i>	Wisteria
<i>Wolffiella gladiata</i>	Florida mudmidget
<i>Woodsia obtusa</i>	Blunt-lobed woodsia
<i>Zizania aquatica</i>	Wild rice
<i>Zizia aptera</i>	Prairie golden alexanders

(3) This rule does not apply to cultivated plants.

(4) The following species of plants are thought to be extirpated in this state, but will be listed automatically as threatened if rediscovered in the state:

<i>Agalinis auriculata</i>	Eared foxglove
<i>Androsace occidentalis</i>	Rock-jasmine
<i>Antennaria rosea</i>	Rosy pussytoes
<i>Braya humilis</i>	Low northern rock cress
<i>Buchnera americana</i>	Bluehearts
<i>Carex decomposita</i>	Log sedge
<i>Carex gravida</i>	Heavy sedge
<i>Carex haydenii</i>	Hayden's sedge
<i>Carex praticola</i>	Meadow sedge
<i>Cerastium velutinum</i>	Field chickweed
<i>Chasmanthium latifolium</i>	Wild oats
<i>Commelina erecta</i>	Slender dayflower
<i>Cyperus acuminatus</i>	Cyperus, Nut grass

<i>Dalea purpurea</i> [ <i>Petalostemon purpureum</i> ]	Purple prairie clover
<i>Dichanthelium microcarpon</i>	Small-fruited panic grass
<i>Digitaria filiformis</i>	Slender finger grass
<i>Diphasiastrum alpinum</i> [ <i>Lycopodium alpinum</i> ]	Alpine clubmoss
<i>Echinacea purpurea</i>	Purple coneflower
<i>Eleocharis geniculata</i>	Slender spike-rush
<i>Equisetum telmateia</i>	Giant horsetail
<i>Erigeron acris</i>	Fleabane
<i>Fimbristylis puberula</i>	Chestnut sedge
<i>Gentiana saponaria</i>	Soapwort gentian
<i>Gillenia trifoliata</i>	Bowman's root
<i>Halerpestes cymbalaria</i>	Seaside crowfoot
<i>Helianthus microcephalus</i>	Small wood sunflower
<i>Hibiscus laevis</i> [ <i>Hibiscus militaris</i> ]	Smooth rose-mallow
<i>Isotria medeoloides</i>	Smaller whorled pogonia
<i>Lechea stricta</i>	Bushy pinweed
<i>Lemna valdiviana</i>	Pale duckweed
<i>Lespedeza procumbens</i>	Trailing bush clover
<i>Liatris punctata</i>	Dotted blazing star
<i>Liatris squarrosa</i>	Plains blazing star
<i>Lithospermum incisum</i>	Narrow-leaved puccoon
<i>Lithospermum molle</i>	Marbleweed
<i>Lysimachia hybrida</i>	Swamp candles
<i>Malus ioensis</i>	Prairie crab
<i>Muhlenbergia cuspidata</i>	Plains muhly
<i>Mulgedium pulchellum</i>	Blue lettuce
<i>Oxalis violacea</i>	Violet wood sorrel
<i>Paronychia fastigiata</i>	Low-forked chickweed
<i>Penstemon pallidus</i>	Pale beard-tongue
<i>Phaseolus polystachios</i>	Wild bean
<i>Phleum alpinum</i>	Mountain timothy
<i>Phlox bifida</i>	Cleft phlox
<i>Poa autumnalis</i>	Bluegrass
<i>Polygala incarnata</i>	Pink milkwort
<i>Polytaenia nuttallii</i>	Prairie parsley
<i>Prosartes maculata</i> [ <i>Disporum maculatum</i> ]	Nodding mandarin
<i>Pseudoroegneria spicata</i>	Bluebunch wheatgrass
<i>Ranunculus ambigens</i>	Spearwort
<i>Rudbeckia subtomentosa</i>	Sweet coneflower
<i>Sagittaria brevirostra</i>	Short-beaked arrowhead
<i>Scutellaria incana</i>	Skullcap
<i>Sisyrinchium fuscatum</i> [ <i>Sisyrinchium farwellii</i> ]	Farwell's blue-eyed-grass
<i>Solidago missouriensis</i>	Missouri goldenrod
<i>Stenaria nigricans</i>	Hedyotis
<i>Tephrosieris palustris</i> [ <i>Senecio congestus</i> ]	Marsh fleabane
<i>Tradescantia bracteata</i>	Long-bracted spiderwort

*Viola epipsila*  
*Woodwardia areolata*

Northern marsh violet  
Netted chain-fern

FILED WITH SECRETARY OF STATE

ON 3/20/23 AT 11:39 A.M.