

DEPARTMENT OF NATURAL RESOURCES
WILDLIFE DIVISION
ENDANGERED AND THREATENED SPECIES

Filed with the Secretary of State on April 9, 2009.

These rules become effective immediately upon filing with the Secretary of State unless adopted under sections 33, 44, or 45a(6) of 1969 PA 306. 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 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 obliquata perobliqua</i> (Conrad)	White catspaw
<i>Epioblasma torulosa rangiana</i> (Rafinesque) [<i>Dysnomia torulosa rangiana</i> (Lea)]	Northern riffleshell
<i>Epioblasma triquetra</i> (Rafinesque) [<i>Dysnomia triquetra</i> (Rafinesque)]	Snuffbox
<i>Ligumia nasuta</i> (Say)	Eastern pondmussel
<i>Ligumia recta</i> (Lamarck)	Black sandshell
<i>Obliquaria reflexa</i> Rafinesque	Threehorn wartyback
<i>Obovaria olivaria</i> (Rafinesque)	Hickorynut
<i>Obovaria subrotunda</i> (Rafinesque)	Round hickorynut
<i>Pleurobema clava</i> (Lamarck)	Clubshell
<i>Simpsonaias ambigua</i> (Say) [<i>Simpsoniconcha ambigua</i> (Say)]	Salamander mussel
<i>Toxolasma lividus</i> (Rafinesque) [<i>Carunculina glans</i> (Lea)]	Purple lilliput
<i>Toxolasma parvus</i> (Barnes)	Lilliput
<i>Villosa fabalis</i> (Lea)	Rayed bean

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

<i>Alasmidonta viridis</i> (Rafinesque)	Slippershell
<i>Cyclonaias tuberculata</i> (Rafinesque)	Purple wartyback
<i>Lampsilis fasciola</i> Rafinesque	Wavyrayed lampmussel
<i>Potamilus ohioensis</i> (Rafinesque)	Pink papershell
<i>Pyganodon subgibbosa</i> <i>Anodonta subgibbosa</i> (Anthony)	Lake floater
<i>Truncilla donaciformis</i> (Lea)	Fawnsfoot

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

<i>Catinella protracta</i> Franzen	A land snail (no common name)
<i>Gastrocopta holzingeri</i> (Sterki)	Lamda snaggletooth

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<i>Guppya sterkii</i> (Dall)	Sterki's granule
<i>Planorbella multivolvis</i> (Case) [<i>Helisoma multivolvis</i>]	Acorn ramshorn
<i>Planorbella smithi</i> (F. C. Baker)	An aquatic snail (no common name)
<i>Stagnicola contracta</i> (Currier) [<i>Lymanaea contracta</i>]	Deepwater pondsnail
<i>Stagnicola petoskeyensis</i> (Walker)	Petoskey pondsnail
<i>Vallonia gracilicosta albula</i> Sterki	A land snail (no common name)
<i>Vertigo hubrichti</i> Pilsbry	Hubricht's vertigo
<i>Vertigo modesta modesta</i> (Say)	A land snail (no common name)
<i>Vertigo modesta parietalis</i> (Ancey)	A land snail (no common name)
<i>Vertigo morsei</i> Sterki	A land snail (no common name)
<i>Vertigo nylanderi</i> Sterki	Deep-throat vertigo

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

<i>Catinella exile</i> (Leonard)	Pleistocene catinella
<i>Catinella gelida</i> (F. C. Baker)	A land snail (no common name)
<i>Euchemotrema hubrichti</i> (Pilsbry)	Carinate pillsnail
<i>Euconulus alderi</i> (Gray)	A land snail (no common name)
<i>Fossaria cyclostoma</i> (Walker)	Bugle fossaria
<i>Hendersonia occulta</i> (Say)	Cherrystone drop
<i>Mesodon elevatus</i> (Say)	Proud globe
<i>Pallifera fosteri</i> F. C. Baker	Foster mantleslug
<i>Physella parkeri</i> (Currier)	Broadshoulder physa
<i>Vertigo bollesiana</i> (E. S. Morse)	Delicate vertigo

R 299.1022 Insects.

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

<i>Brychius hungerfordi</i> Spangler	Hungerford's crawling water beetle
<i>Catocala amestris</i> Strecker	Three-staff underwing
<i>Neonympha mitchellii mitchellii</i> French	Mitchell's satyr
<i>Schinia indiana</i> (Smith)	Phlox moth
<i>Schinia lucens</i> (Morrison)	Leadplant moth
<i>Somatochlora hineana</i> Williamson	Hine's emerald dragonfly
<i>Speyeria idalia</i> (Drury)	Regal fritillary

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

<i>Dryobius sexnotatus</i> Linsley	Six-banded longhorn beetle
<i>Erynnis persius persius</i> Scudder	Persius dusky wing
<i>Euphyes dukesi</i> (Lindsey)	Dukes' skipper
<i>Flexamia huroni</i> Bess and Hamilton	Huron River leafhopper
<i>Hesperia ottoe</i> Edwards	Ottoe skipper
<i>Incisalia henrici</i> (Grote and Robinson)	Henry's elfin
<i>Incisalia irus</i> Godart	Frosted elfin
<i>Lycaeides idas nabokovi</i> Masters	Northern blue
<i>Lycaeides melissa samuelis</i> Nabakov	Karner blue
<i>Oarisma powesheik</i> (Parker)	Powesheik skipperling

Ophiogomphus howei Bromley
Papaipema silphii Bird
Tachopteryx thoreyi (Hagen)
Trimerotropis huroniana E. M. Walker

Pygmy snaketail
 Silphium borer moth
 Grey petaltail
 Lake Huron locust

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

Nicrophorus americanus Olivier

American burying beetle

R 299.1023 Fishes.

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

Clinostomus elongatus (Kirtland)
Erimyzon claviformis (Girard)
Notropis anogenus Forbes
Notropis photogenis (Cope)
Noturus stigmosus Taylor
Opsopoeodus emiliae Hay
Percina copelandi (Jordan)
Percina shumardi (Girard)
Phoxinus erythrogaster (Rafinesque)

Redside dace
 Western creek chubsucker
 Pugnose shiner
 Silver shiner
 Northern madtom
 Pugnose minnow
 Channel darter
 River darter
 Southern redbelly dace

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

Acipenser fulvescens Rafinesque
Ammocrypta pellucida (Putnam)
Coregonus artedii Lesueur
Coregonus bartletti (Koelz)
Coregonus hubbsi (Koelz)
Coregonus zenithicus (Jordan and Evermann)
Hiodon tergisus Lesueur
Moxostoma carinatum (Cope)
Sander canadensis (Smith)

Lake sturgeon
 Eastern sand darter
 Cisco
 Siskiwit lake cisco
 Ives lake cisco
 Shortjaw cisco
 Mooneye
 River redhorse
 Sauger

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

Coregonus nigripinnis (Gill)
Coregonus reighardi (Koelz)
Notropis amblops (Rafinesque)
Notropis chalybaeus (Cope)
Notropis texanus (Girard)
Polyodon spathula (Walbaum)
Thymallus arcticus (Richardson)

Blackfin cisco
 Shortnose cisco
 Bigeye chub
 Ironcolor shiner
 Weed shiner
 Paddlefish
 Arctic grayling

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

Coregonus johanna (Wagner)
Sander glaucus (Hubbs)

Deepwater cisco
 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> (Gravenhorst)	Marbled salamander
<i>Ambystoma texanum</i> (Matthews)	Smallmouth salamander

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

<i>Acris crepitans blanchardi</i> (Harper)	Blanchard's cricket frog
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R 299.1025 Reptiles.

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

<i>Clonophis kirtlandii</i> (Kennicott)	Kirtland's snake
<i>Nerodia erythrogaster neglecta</i> (Conant)	Copperbelly water snake

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

<i>Aspidoscelis sexlineata</i> (Linnaeus)	Six-lined racerunner
<i>Clemmys guttata</i>	Spotted turtle
<i>Pantherophis gloydi</i> Conant (= <i>Elaphe vulpina gloydi</i>)	Eastern fox snake

R 299.1026 Birds.

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

<i>Ammodramus henslowii</i> (Audubon)	Henslow's sparrow
<i>Asio flammeus</i> (Pontoppidan)	Short-eared owl
<i>Charadrius melodus</i> Ord	Piping plover
<i>Dendroica discolor</i> (Vieillot)	Prairie warbler
<i>Dendroica kirtlandii</i> (Baird)	Kirtland's warbler
<i>Falco peregrinus</i> Tunstall	Peregrine falcon
<i>Lanius ludovicianus migrans</i> (Palmer)	Migrant loggerhead shrike
<i>Rallus elegans</i> Audubon	King rail
<i>Tyto alba</i> (Scopoli)	Barn owl

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

<i>Asio otis</i> (Linnaeus)	Long-eared owl
<i>Buteo lineatus</i> (Gmelin)	Red-shouldered hawk
<i>Corturnicops noveboracensis</i> (Gmelin)	Yellow rail
<i>Cygnus buccinator</i> Richardson	Trumpeter swan
<i>Dendroica cerulea</i> (Wilson)	Cerulean warbler
<i>Dendroica dominica</i> (Linnaeus)	Yellow-throated warbler
<i>Falco columbarius</i> (Linnaeus)	Merlin
<i>Gallinula chloropus</i> (Linnaeus)	Common moorhen
<i>Gavia immer</i> (Brunnich)	Common loon
<i>Ixobrychus exilis</i> (Gmelin)	Least bittern
<i>Seiurus motacilla</i> (Vieillot)	Louisiana waterthrush
<i>Sterna caspia</i> Pallas	Caspian tern
<i>Sterna forsteri</i> Nuttall	Forster's tern
<i>Sterna hirundo</i> Linnaeus	Common tern

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

Chondestes grammacus (Say) Lark sparrow

R 299.1027 Mammals.

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

Felis concolor Linnaeus Cougar
Lynx canadensis Kerr Lynx
Microtus ochrogaster (Wagner) Prairie vole
Myotis sodalis Miller and Allen Indiana bat

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

Cryptotis parva (Say) Least shrew
Nycticeius humeralis (Rafinesque) Evening bat
Sorex fumeus Miller Smoky shrew

R 299.1028 Plants.

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

Agalinas gattingeri Small [*Gerardia gattingeri* Small] Gattinger's gerardia
Agalinas skinneriana (A. Wood) Britton [*Gerardia skinneriana* A. Wood] Skinner's gerardia
Amerorchis rotundifolia (Pursh) Hultén Small round-leaved orchis
Androsace occidentalis Pursh Rock-jasmine
Antennaria rosea Greene Rosy pussytoes
Aristida tuberculosa Nutt. Beach three-awned grass
Arnica cordifolia Hooker Heart-leaved arnica
Arnica lonchophylla Greene Longleaf arnica
Asclepias ovalifolia Dcne. Dwarf milkweed
Asplenium ruta-muraria L. Wall-rue
Asplenium scolopendrium L. var. *americana* (Fernald) Kartesz & Ghandi [*Phyllitis scolopendrium* var. *americanum* Fern.] Hart's-tongue fern
Baptisia leucophaea Nutt. Cream wild indigo
Besseyia bullii (Eaton) Rydb. Kitten-tails
Botrychium acuminatum W. H. Wagner Moonwort
Bouteloua curtipendula (Michaux) Torrey Side-oats grama grass
Carex crus-corvi Kuntze Raven's-foot sedge
Carex heleonastes Ehrh. Hudson Bay sedge
Carex nigra (L.) Reichard Black sedge
Carex platyphylla Carey Broad-leaved sedge
Carex straminea Willd. Straw sedge
Castanea dentata (Marsh.) Borkh. American chestnut
Chamaerhodos nuttallii Fern. Rock-rose
Chasmanthium latifolium (Michx.) Yates [*Uniola latifolia* Michaux] Wild oats
Chelone obliqua L. Purple turtlehead

<i>Dasistoma macrophylla</i> (Nutt.) Raf.	Mullein-foxglove
<i>Dichanthelium polyanthes</i> (Schult.) Mohlenbr	Round-seed panic-grass
<i>Dodecatheon meadia</i> L.	Shooting star
<i>Draba glabella</i> Pursh.	Smooth whitlow grass
<i>Eleocharis atropurpurea</i> (Retz.) Kunth	Purple spike rush
<i>Eleocharis microcarpa</i> Torrey	Small-fruited spike-rush
<i>Eleocharis nitida</i> Fern.	Slender spike rush
<i>Eleocharis parvula</i> (R. & S.) Link	Dwarf spike-rush
<i>Echinodorus tenellus</i> (Mart.) Buchenau	Dwarf burhead
<i>Galium kamtschaticum</i> Schultes & J. H. Schultes	Bedstraw
<i>Gentiana flavida</i> A. Gray [<i>G. alba</i> Muhl.]	White gentian
<i>Gentiana puberulenta</i> J. Pringle [<i>G. puberula</i> Michaux]	Downy gentian
<i>Gillenia trifoliata</i> (Muhl.) Baill. [(L.) Moench.]	Bowman's root
<i>Gymnocarpium jessoense</i> (Koidz.) Koidz.	Northern oak fern
<i>Hedysarum alpinum</i> L.	Alpine sainfoin
<i>Hymenoxys herbacea</i> (Greene) Cusick [<i>Hymenoxys acaulis</i> var. <i>glabra</i> (Gray) Parker]	Lakeside daisy
<i>Hypericum sphaerocarpum</i> Michaux	Round-fruited St. John's-wort
<i>Isoetes engelmannii</i> A. Braun	Engelmann's quillwort
<i>Lygodium palmatum</i> (Bernh.) Sw.	Climbing fern
<i>Mertensia virginica</i> Pers. (L.)	Virginia bluebells
<i>Mimulus michiganensis</i> (Pennell) Posto & Prather	Michigan monkey flower
<i>Nuphar pumila</i> (Timm) DC. [<i>N. microphylla</i> (Pers.) Fern.]	Small yellow pond lily
<i>Nymphaea leibergii</i> Morong	Pygmy water lily
<i>Ophioglossum vulgatum</i> L. [<i>Ophioglossum pycnostichum</i> (Fern.) Löve & Löve]	Southeastern adder's-tongue
<i>Opuntia fragilis</i> (Nutt.) Haw.	Fragile prickly pear
<i>Penstemon gracilis</i> Nutt.	Slender beard tongue
<i>Phlox ovata</i> L. (<i>P. latifolia</i> Michx.)	Wideflower phlox
<i>Plantago cordata</i> Lam.	Heart-leaved plantain
<i>Platanthera ciliaris</i> (L.) Lindley [<i>Habenaria ciliaris</i> (L.) R. Br.]	Orange- or yellow-fringed orchid
<i>Platanthera leucophaea</i> (Nutt.) Lindley [<i>Habenaria leucophaea</i> (Nutt.) A. Gray]	Prairie white-fringed orchid
<i>Poa canbyi</i> (Scribner) Piper	Canby's bluegrass
<i>Populus heterophylla</i> L.	Swamp or Black cottonwood
<i>Potamogeton pulcher</i> Tuckerman	Spotted pondweed
<i>Prosartes hookeri</i> Torr.	Fairy bells
<i>Proserpinaca pectinata</i> Lam.	Mermaid-weed
<i>Rhynchospora (Psilocarya) nitens</i> (Vahl) A. Gray	Short-beak beak-rush
<i>Rhynchospora recognita</i> (Gale) Kral	Globe beak-rush
<i>Rubus acaulis</i> Michaux	Dwarf raspberry
<i>Ruellia strepens</i> L.	Smooth ruellia
<i>Rumex occidentalis</i> S. Wats	Western dock
<i>Sanguisorba canadensis</i> L.	Canadian burnet

<i>Schoenoplectus americanus</i> (Pers.) Schinz & R. Keller	Three-square bulrush
<i>Scleria pauciflora</i> Willd.	Few-flowered nut rush
<i>Scutellaria nervosa</i> Pursh	Skullcap
<i>Silene virginica</i> L.	Fire pink
<i>Solidago bicolor</i> L.	White goldenrod
<i>Sporobolus clandestinus</i> (Biehler) Hitch.	Dropseed
<i>Stellaria crassifolia</i> Ehrh.	Fleshy stitchwort
<i>Subularia aquatica</i> L.	Awlwort
<i>Tipularia discolor</i> (Pursh) Nutt.	Cranefly orchid
<i>Trillium undulatum</i> Willd.	Painted trillium
<i>Utricularia inflata</i> Walter [<i>U. radiata</i> Small]	Floating bladderwort
<i>Vaccinium vitis-idaea</i> L.	Mountain cranberry
<i>Viola epipsila</i> Ledeb.	Northern marsh violet
<i>Woodsia alpina</i> (Bolton) S. F. Gray	Northern woodsia
(2) The following plant species are included on the state list of threatened species:	
<i>Agoseris glauca</i> (Pursh) Raf.	Prairie or pale agoseris
<i>Agrimonia rostellata</i> Wallr.	Beaked agrimony
<i>Allium schoenoprasum</i> L. (native variety)	Chives
<i>Arabis perstellata</i> E. L. Braun	Rock cress
<i>Aristida longespica</i> Poiret	Three-awned grass
<i>Aristolochia serpentaria</i> L.	Virginia snakeroot
<i>Armoracia lacustris</i> (A. Gray) Al-Shehbaz & V. Bates[<i>Armoracia aquatica</i> (Eaton Wiegand)]	Lake cress
<i>Artemisia ludoviciana</i> Nutt.	Western mugwort
<i>Asclepias hirtella</i> (Pennell) Woodson	Tall green milkweed
<i>Asclepias purpurascens</i> L.	Purple milkweed
<i>Asclepias sullivantii</i> Engelm.	Sullivant's milkweed
<i>Asplenium rhizophyllum</i> L. [<i>Camptosorus rhizophyllum</i> (L.) Link]	Walking fern
<i>Aster drummondii</i> Lindl	Drummond's aster
<i>Aster furcatus</i> Burgess	Forked aster
<i>Aster modestus</i> Lindley	Great northern aster
<i>Aster sericeus</i> Vent.	Western silvery aster
<i>Astragalus canadensis</i> L.	Canadian milk vetch
<i>Bartonia paniculata</i> (Michaux) Muhl.	Panicled screwstem
<i>Beckmannia syzigachne</i> (Steudel) Fern.	Slough grass
<i>Berula erecta</i> (Nutt.) Fern. [<i>Berula pusilla</i> (Nutt.) Fern.]	Cut-leaved water parsnip
<i>Botrychium campestre</i> W. H. Wagner	Prairie Moonwort or Dunewort
<i>Botrychium hesperium</i> (Maxon & Clausen) W. H. Wagner & Lellinger	Western moonwort
<i>Botrychium mormo</i> W. H. Wagner	Goblin moonwort
<i>Botrychium spathulatum</i> W. H. Wagner	Spatulate moonwort
<i>Braya humilis</i> (C. A. Meyer) Robinson	Low northern rock cress
<i>Bromus pumpellianus</i> Scribner	Pumpelly's brome grass
<i>Calamagrostis lacustris</i> (Kearney) Nash	Northern reedgrass
<i>Calamagrostis stricta</i> (Timm) Koeler	Narrow-leaved reedgrass

<i>Callitriche heterophylla</i> Pursh	Large water starwort
<i>Caltha natans</i> Pallas ex Georgi	Floating marsh marigold
<i>Calypso bulbosa</i> (L.) Oakes	Calypso or fairy-slipper
<i>Camassia scilloides</i> (Raf.) Cory	Wild hyacinth
<i>Carex albolutescens</i> Schw.	Sedge
<i>Carex assiniboinensis</i> W. Boott	Assiniboia sedge
<i>Carex atratiformis</i> Britton	Sedge
<i>Carex conjuncta</i> F. Boott.	Sedge
<i>Carex lupuliformis</i> Dewey	False hop sedge
<i>Carex media</i> R. Br.	Sedge
<i>Carex novae-angliae</i> Schwein.	New England sedge
<i>Carex oligocarpa</i> Willd.	Eastern few-fruited sedge
<i>Carex rossii</i> Boott	Ross's sedge
<i>Carex scirpoidea</i> Michaux	Bulrush sedge
<i>Carex seorsa</i> Howe	Sedge
<i>Carex tinctoria</i> Fern.	Sedge
<i>Carex typhina</i> Michaux	Cattail sedge
<i>Castilleja septentrionalis</i> Lindley	Pale Indian paintbrush
<i>Ceanothus sanguineus</i> Pursh	Wild lilac
<i>Cerastium brachypodium</i> (Engelm. ex A. Gray) B.L. Rob.	Shortstalk chickweed
<i>Cirsium pitcheri</i> (Eaton) Torrey & A. Gray	Pitcher's thistle
<i>Collinsia parviflora</i> Lindley	Small blue-eyed Mary
<i>Coreopsis palmate</i> Nutt.	Prairie coreopsis
<i>Corydalis flavula</i> (Raf.) DC.	Yellow fumewort
<i>Cryptogramma acrostichoides</i> R. Br.	American rock-brake
<i>Cypripedium candidum</i> Willd.	White lady slipper
<i>Cystopteris tennesseensis</i> Shaver	Tennessee bladder fern
<i>Dalibarda repens</i> L.	False violet
<i>Dennstaedtia punctilobula</i> (Michx.) T. Moore	Hay-scented fern
<i>Dentaria maxima</i> Nutt.	Large toothwort
<i>Diarrhena obovata</i> (Gleason) Brandenburg	Beak grass
<i>Dichanthelium leibergii</i> (Vasey) Freckmann	Leiberg's panic grass
<i>Draba cana</i> Rydb.	Ashy whitlow grass
<i>Draba incana</i> L.	Twisted whitlow grass
<i>Draba reptans</i> (Lam.) Fern.	Creeping whitlow grass
<i>Dryopteris celsa</i> (W. Palmer) Small	Small log fern
<i>Eleocharis compressa</i> Sulliv.	Flattened spike rush
<i>Eleocharis tricostata</i> Torrey	Three-ribbed spike rush
<i>Empetrum nigrum</i> L.	Black crowberry
<i>Erigeron acris</i> L.	Fleabane
<i>Erigeron hyssopifolius</i> Michaux	Hyssop-leaved fleabane
<i>Eryngium yuccifolium</i> Michaux	Rattlesnake-master or button snakeroot
<i>Eupatorium fistulosum</i> Barratt	Hollow-stemmed Joe-pye weed

<i>Eupatorium sessilifolium</i> L.	Upland boneset
<i>Euphorbia commutata</i> Engelm.	Tinted spurge
<i>Euphrasia hudsoniana</i> Fernald & Weigand	Eyebright
<i>Euphrasia nemorosa</i> (Pers.) Wallr.	Eyebright
<i>Festuca scabrella</i> Torrey [<i>F. altaica</i> Trin.]	Rough fescue
<i>Filipendula rubra</i> (Hill) Robinson	Queen-of-the-prairie
<i>Fraxinus profunda</i> (Bush) Bush [<i>F. tomentosa</i> F. Michaux]	Pumpkin ash
<i>Fuirena pumila</i> (Torr.) Spreng.	Umbrella-grass
<i>Galearis spectabilis</i> (L.) Raf.	Showy orchis
<i>Gentiana linearis</i> Froel.	Narrow-leaved gentian
<i>Gentianella quinquefolia</i> (L.) Small	Stiff gentian
<i>Geum triflorum</i> Pursh	Prairie smoke
<i>Glyceria melicaria</i> (Michx.) C.E. Hubb.	Slender manna grass
<i>Gnaphalium sylvaticum</i> L.	Woodland everlasting
<i>Gratiola aurea</i> Pursh [<i>G. lutea</i> Raf.]	Hedge-hyssop
<i>Gratiola virginiana</i> L.	Annual hedge hyssop
<i>Gymnocarpium robertianum</i> (Hoffman) Newman	Limestone oak fern
<i>Helianthus mollis</i> Lam.	Downy sunflower
<i>Hieracium paniculatum</i> L.	Panicled hawkweed
<i>Hydrastis canadensis</i> L.	Goldenseal
<i>Hypericum adpressum</i> Raf. ex W. Bart.	Creeping St. John's-wort
<i>Ipomoea pandurata</i> (L.) G. F. W. Meyer	Wild potato vine or man-of-the-earth
<i>Iris lacustris</i> Nutt.	Dwarf lake iris
<i>Isotria verticillata</i> (Willd.) Raf.	Whorled pogonia
<i>Juncus brachycarpus</i> Engelm.	Short-fruited rush
<i>Juncus militaris</i> Bigelow	Bayonet rush
<i>Juncus scirpoides</i> Lam.	Scirpus-like rush
<i>Juncus stygius</i> L.	Moor rush
<i>Juncus vaseyi</i> Engelm.	Vasey's rush
<i>Justicia americana</i> (L.) Vahl	Water willow
<i>Lactuca floridana</i> (L.) Gaertner	Woodland lettuce
<i>Lechea pulchella</i> Raf. [<i>Lechea leggettii</i> Britton & Hollick]	Leggett's pinweed
<i>Linum virginianum</i> L.	Virginia flax
<i>Lonicera involucrata</i> (Richardson) Banks	Black twinberry
<i>Ludwigia sphaerocarpa</i> Ell.	Globe-fruited seedbox
<i>Luzula parviflora</i> (Ehrh.) Desv.	Small-flowered wood rush
<i>Lycopodiella margaritae</i> J. G. Bruce, W. H. Wagner, & Beitel	Clubmoss
<i>Lycopus virginicus</i> L.	Virginia water-horehound
<i>Moehringia macrophylla</i> (Hook.) Fenzl	Big-leaf sandwort
<i>Morus rubra</i> L.	Red mulberry
<i>Muhlenbergia richardsonis</i> (Trin.) Rydb.	Mat muhly
<i>Myrica pensylvanica</i> Mirbel	Northern bayberry
<i>Myriophyllum farwellii</i> Morong	Farwell's water milfoil
<i>Nelumbo lutea</i> (Willd.) Pers. [<i>Nelumbo pentapetala</i> (Walter) Fern.]	American lotus

<i>Oplopanax horridus</i> (Smith) Miq.	Devil's club
<i>Orobanche fasciculata</i> Nutt.	Broomrape
<i>Oryzopsis canadensis</i> (Poiret) Torrey	Canada rice grass
<i>Osmorhiza depauperata</i> Phil.	Sweet Cicely
<i>Panax quinquefolius</i> L.	Ginseng
<i>Panicum longifolium</i> Torrey	Panic grass
<i>Panicum philadelphicum</i> Bernh. Ex Trin.	Philadelphia panic-grass
<i>Panicum verrucosum</i> Muhl.	Warty panic grass
<i>Parnassia palustris</i> L.	Marsh grass-of-parnassus
<i>Pellaea atropurpurea</i> (L.) Link.	Purple cliff brake
<i>Penstemon calycosus</i> Small	Beard tongue
<i>Petasites sagittatus</i> (Pursh) A. Gray	Sweet coltsfoot
<i>Phacelia franklinii</i> (R. Br.) A. Gray	Franklin's phacelia
<i>Phlox maculata</i> L.	Wild sweet William
<i>Poa alpina</i> L.	Alpine bluegrass
<i>Poa paludigena</i> Fern. & Wieg.	Bog bluegrass
<i>Polemonium reptans</i> L.	Jacob's ladder
<i>Polygonum careyi</i> Olney	Carey's smartweed
<i>Polygonum viviparum</i> L.	Alpine bistort
<i>Polymnia uvedalia</i> L.	Yellow-flowered leafcup
<i>Potamogeton bicupulatus</i> Fern. [<i>Potamogeton capillaceus</i> Poiret]	Waterthread pondweed
<i>Potamogeton hillii</i> Morong	Hill's pondweed
<i>Potamogeton vaseyi</i> Robins	Vasey's pondweed
<i>Potentilla paradoxa</i> Nutt.	Sand cinquefoil
<i>Potentilla pensylvanica</i> L.	Prairie cinquefoil
<i>Prenanthes crepidinea</i> Michx.	Nodding rattlesnake-root
<i>Prosartes trachycarpa</i> S. Watson	Northern fairy bells
<i>Pterospora andromedea</i> Nutt.	Pine-drops
<i>Pycnanthemum muticum</i> (Michx.) Pers.	Mountain mint
<i>Pycnanthemum pilosum</i> Nutt.	Hairy mountain mint
<i>Ranunculus ambigens</i> Watson	Spearwort
<i>Ranunculus cymbalaria</i> Pursh	Seaside crowfoot
<i>Ranunculus lapponicus</i> L.	Lapland buttercup
<i>Ranunculus macounii</i> Britton	Macoun's buttercup
<i>Ranunculus rhomboideus</i> Goldie	Prairie buttercup
<i>Rhexia mariana</i> L.	Maryland meadow beauty
<i>Rhynchospora scirpoides</i> (Torr.) A. Gray	Bald-rush
<i>Ruellia humilis</i> Nutt.	Hairy wild petunia
<i>Ruppia maritima</i> L.	Widgeon grass
<i>Sabatia angularis</i> (L.) Pursh	Rosepink
<i>Sagina nodosa</i> (L.) Fenzl	Pearlwort
<i>Sagittaria montevidensis</i> Cham. & Schlecht.	Arrowhead
<i>Salix planifolia</i> Pursh	Tea-leaved willow
<i>Sarracenia purpurea</i> f. <i>heterophylla</i> (Eaton) Fern.	Yellow pitcher plant

<i>Saxifraga paniculata</i> Miller [S. aizoön Jacq.]	Encrusted saxifrage
<i>Saxifraga tricuspidata</i> Rottb.	Prickly saxifrage
<i>Schoenoplectus hallii</i> (A. Gray) S.G. Sm.	Hall's bulrush
<i>Scleria reticularis</i> Michaux	Netted nut rush
<i>Scutellaria ovata</i> Hill	Forest skullcap
<i>Scutellaria parvula</i> Michaux [sensu lato]	Small skullcap
<i>Senecio indecorus</i> Greene	Northern ragwort
<i>Silene nivea</i> (Nutt.) Muhl. ex Otth	Evening campion
<i>Silene stellata</i> (L.) Aiton f.	Starry campion
<i>Silphium integrifolium</i> Michaux	Rosinweed
<i>Silphium laciniatum</i> L.	Compass plant
<i>Silphium perfoliatum</i> L.	Cup plant
<i>Sisyrinchium atlanticum</i> Bickn.	Atlantic blue-eyed-grass
<i>Solidago houghtonii</i> A. Gray	Houghton's goldenrod
<i>Solidago missouriensis</i> Nutt.	Missouri goldenrod
<i>Spiranthes ovalis</i> Lindley	Lesser ladies'-tresses
<i>Tanacetum huronense</i> Nutt.	Lake Huron tansy
<i>Tofieldia pusilla</i> (Michaux) Pers.	False asphodel
<i>Trichostema brachiatum</i> L. [<i>Isanthus brachiatus</i> (L.) BSP.]	False pennyroyal
<i>Trichostema dichotomum</i> L.	Bastard pennyroyal
<i>Trillium nivale</i> Riddell	Snow trillium
<i>Trillium recurvatum</i> Beck	Prairie trillium
<i>Trillium sessile</i> L.	Toadshade
<i>Triphora trianthophora</i> (Sw.) Rydb.	Nodding pogonia or three birds orchid
<i>Utricularia subulata</i> L.	Bladderwort
<i>Vaccinium cespitosum</i> Michaux	Dwarf bilberry
<i>Vaccinium uliginosum</i> L.	Alpine blueberry
<i>Valeriana edulis</i> var. <i>ciliata</i> (T. & G.) Cronquest	Edible valerian
<i>Valerianella chenopodiifolia</i> (Pursh) DC.	Goosefoot corn salad
<i>Valerianella umbilicata</i> (Sull.) A. W. Wood	Corn salad
<i>Viburnum edule</i> (Michx.) Raf.	Squashberry or mooseberry
<i>Viola novae-angliae</i> House	New England violet
<i>Viola pedatifida</i> G. Don	Prairie birdfoot violet
<i>Vitis vulpina</i> L.	Frost grape
<i>Wisteria frutescens</i> (L.) Poiret	Wisteria
<i>Wolffia papulifera</i> Thompson [<i>W. brasiliensis</i> Weddell]	Watermeal
<i>Woodsia obtusa</i> (Sprengel) Torrey	Blunt-lobed woodsia
<i>Zizania aquatica</i> var. <i>aquatica</i> L.	Wild rice
<i>Zizia aptera</i> (A. Gray) Fern.	Prairie golden alexanders
(3) This rule does not apply to cultivated plants.	
(4) The following species of plants are thought to be extirpated in Michigan, but will be listed automatically as threatened if rediscovered in the state:	
<i>Agropyron spicatum</i> (Pursh) Scribner & J. G. Smith	Bluebunch wheatgrass
<i>Aristida dichotoma</i> Michaux	Three-awned grass

<i>Buchnera americana</i> L.	Bluehearts
<i>Carex decomposita</i> Muhl.	Log sedge
<i>Carex gravida</i> Bailey	Sedge
<i>Carex haydenii</i> Dewey	Hayden's sedge
<i>Cerastium velutinum</i> Raf.	Field chickweed
<i>Commelina erecta</i> L.	Slender dayflower
<i>Cyperus acuminatus</i> Torrey & Hooker	Cyperus, Nut grass
<i>Dalea purpurea</i> Vent. [<i>Petalostemon purpurem</i> (Vent.) Rydb.]	Purple prairie clover
<i>Digitaria filiformis</i> (L.) Koeler	Slender finger grass
<i>Diphasiastrum (Lycopodium) alpinum</i> (L.) Holub	Alpine clubmoss
<i>Echinacea purpurea</i> (L.) Moench.	Purple coneflower
<i>Eleocharis geniculata</i> (L.) Roem & Schult.	Spike-rush
<i>Eleocharis radicans</i> (Poir.) Kunth	Spike rush
<i>Equisetum telmateia</i> Ehrh.	Giant horsetail
<i>Fimbristylis puberula</i> (Michaux) Vahl	Chestnut sedge
<i>Gentiana saponaria</i> L.	Soapwort gentian
<i>Glyceria acutiflora</i> Torrey	Manna grass
<i>Hedyotis nigricans</i> (Lam.) Fosb.	Hedyotis
<i>Helianthus microcephalus</i> Torrey & Gray	Small wood sunflower
<i>Hibiscus laevis</i> All.	Smooth rose-mallow
<i>Houstonia caerulea</i> L.	Azure bluet
<i>Isotria medeoloides</i> (Pursh) Raf.	Smaller whorled pogonia
<i>Lactuca pulchella</i> (Pursh) A. Gray	Blue lettuce
<i>Lechea minor</i> L.	Least pinweed
<i>Lemna valdiviana</i> Phil.	Pale duckweed
<i>Lespedeza procumbens</i> Michaux	Trailing bush clover
<i>Liatris punctata</i> Hooker	Dotted blazing star
<i>Liatris squarrosa</i> (L.) Michx.	Plains blazing star
<i>Lithospermum incisum</i> Lehm.	Narrow-leaved puccoon
<i>Lysimachia hybrida</i> Michaux	Swamp candles
<i>Mikania scandens</i> (L.) Willd.	Mikania
<i>Mimulus alatus</i> Aiton	Winged monkey flower
<i>Muhlenbergia cuspidata</i> (Hooker) Rydb.	Plains muhly
<i>Onosmodium molle</i> Michx.	Marbleweed
<i>Oxalis violacea</i> L.	Violet wood sorrel
<i>Paronychia fastigiata</i> (Raf.) Fern.	Low-forked chickweed
<i>Phaseolus polystachios</i> (L.) BSP.	Wild bean
<i>Phleum alpinum</i> L.	Mountain timothy
<i>Phlox bifida</i> Beck	Cleft phlox
<i>Polygala incarnata</i> L.	Pink milkwort
<i>Polytaenia nuttallii</i> DC.	Prairie parsley
<i>Prosartes maculata</i> (Buckley) A. Gray	Nodding mandarin
<i>Rudbeckia subtomentosa</i> Pursh	Sweet coneflower
<i>Scutellaria incana</i> Biehler	Skullcap

<i>Scutellaria ovata</i> Hill	Forest skullcap
<i>Senecio congestus</i> (R. Br.) DC.	Marsh fleabane
<i>Sisyrinchium fuscatum</i> E.P. Bicknell	Farwell's blue-eyed grass
<i>Sisyrinchium hastile</i> Bickn.	Blue-eyed grass
<i>Tomanthera auriculata</i> (Michaux) Raf. [<i>Agalinas auriculata</i> (Michaux) S. F. Blake]	Eared foxglove
<i>Tradescantia bracteata</i> Small.	Long-bracted spiderwort
<i>Woodwardia areolata</i> (L.) T. Moore	Netted chain fern