

How Species of Greatest Conservation Need are Identified

The following text is an explanation of the process for determining Indiana's Species of Greatest Conservation Need (Table 5-1). There are differences in definitions for similar terms when considering vascular plants and wildlife, which stem from definitions written into Indiana Code.

The definition of endangered and wildlife in the state of Indiana and its implications

The definition of endangered is defined in Indiana Code in two ways:

1) Under the Indiana Nongame and Endangered Species Conservation Act, endangered species are defined by [Indiana Code 14-22-34-1](#), "Any species or subspecies of wildlife whose prospects of survival or recruitment within Indiana are in jeopardy or are likely within the foreseeable future to become so due to any of the following factors:

1. The destruction, drastic modification, or severe curtailment of the habitat of the wildlife.
2. The overutilization of the wildlife for scientific, commercial, or sporting purposes.
3. The effect on the wildlife of disease, pollution, or predation.
4. Other natural or man-made factors affecting the prospect of survival or recruitment within Indiana.
5. Any combination of the factors described in subdivisions one through four."

2) "A native plant species classified by the division of nature preserves as endangered or threatened" ([Indiana Code 14-9-2-5\(a\)](#)).

The process for listing a species as endangered or threatened in the state of Indiana hinges on the definition of wildlife. [Indiana Code 14-22-34-6\(1\)](#) defines wildlife as "any wild mammal, bird, reptile, amphibian, fish, mollusk, crustacean, or other wild animal." Because plants are not listed in the definition of wildlife in Indiana Code, a difference in the procedure by which wildlife and plants gain a state listing status is followed in the state. Listing plants requires a nonrule policy change while listing most wildlife requires an administrative rule policy change.

Plant listing occurs through nonrule policy procedures

The [Indiana Code 14-9-2-5\(a\)](#) statute does not contain any listing criteria or guidelines, nor does it direct the Indiana DNR or Division of Nature Preserves to establish procedures or criteria. The Division of Nature Preserves along with the Indiana Heritage Data Center (INHDC) developed criteria (outlined [below](#)) for listing plants as extirpated, endangered, or threatened within the state, and in alignment with standards under NatureServe. Initial lists of plants were presented in the literature (Bacone & Hedge, 1979) (Bacone, Hedge, & Crovello, 1980) (Aldrich, Bacone, & Homoya, 1985). Division of Nature Preserves along with INHDC have conducted subsequent reviews and revisions consistent with these published protocols.

Because there is no Indiana state plant protection law, any listing is advisory. Annually, the Division of Nature Preserves submits a listing of plants to be reviewed and approved as a nonrule policy. This plant list is submitted in conjunction with the Division of Fish and Wildlife. The listing is submitted to the Division of Hearings which posts the materials for public view prior to the Natural Resources Commission (NRC) meeting. NRC meetings are open to the public providing the opportunity to receive public comments. Public comments received are reviewed. Comments may be included in writing to an administrative law judge and/or by direct testimony to the NRC, the legal body with authority to adopt Department of Natural Resources (DNR) administrative rule or through NRC website at: <http://www.in.gov/nrc/>.

If the comment concerns a specific status assessment for a species, then a new status assessment is undertaken with further data collection, habitat assessment, and threat assessment. The status is either confirmed or changed and included with the next nonrule policy review. The Natural Resources Commission confirms the listings recommended by the Division of Nature Preserves and the listings are published in the Indiana Register under Nonrule Policy Documents.

Plant listing designations

Biological assessments are completed by DNR staff and other experts in the field throughout the species' ranges. The factors that contribute to the assessment can vary among species due to the differing life histories and predicted future trajectories.

Designations for species include:

1. Endangered: A plant species believed to be native to Indiana with five or fewer occurrences in the state or that is otherwise currently at the brink of extinction.
 - a. Federally Endangered or Threatened status; or
 - b. Surveys have been completed throughout the state for the past 50 years to determine number of occurrences which is currently five or fewer; or
 - c. More than five occurrences but the species is at the brink of extinction due to:
 - i. Low population size or disjunct populations.
 - ii. Declining trend in population size/fecundity.
 - iii. Trends in habitat loss.
2. Threatened: A plant species believed to be native to Indiana with six to 20 occurrences in the state; or that is of conservation concern, or that is otherwise likely to become endangered within the foreseeable future.
 - a. Federally Threatened status, or
 - b. Surveys have been completed throughout the state for the past 50 years to determine number of occurrences, which is currently six to 20, or
 - c. More than 20 occurrences but the species is at risk of becoming endangered due to:
 - i. Declining trend in occurrences/fecundity.
 - ii. Trends in habitat loss; or
 - iii. More than 20 occurrences but the species is of conservation concern due to its exclusive occurrences in rare plant communities.

Most wildlife listing occurs through administrative rule process

The exception to the administrative rule process outlined below is wildlife species designated as special concern. This term is not defined in Indiana Code, therefore, it follows the same nonrule policy process as the plant listing described [above](#). Species are generally listed as special concern because experts suspect the species' population is declining or their distribution is shrinking, the species has undergone a recent change in federal or state status, or the species may simply be difficult to survey. Special concern status raises the survey and monitoring priority of these species and stimulates encounter reports from the scientific community, but these species have no official legal protection.

Prior to 2022, the SGCN list was composed of amphibians, reptiles, birds, mammals, fish, mollusks, and crustaceans (inclusive of the Indiana definition of "wildlife") which are federally endangered, threatened, or candidate species and Indiana's list of endangered species and

species of special concern. Any wildlife species appearing on the U.S. list of endangered and threatened wildlife are state endangered (Table 5-1). Additionally, any federally threatened species that occur in Indiana are also state-endangered. Any species or subspecies deemed vulnerable enough to require the protection of the state Endangered Species Act (ESA) is considered endangered.

Recommendations to define a wildlife species as state-endangered or change its status on the list of Species of Greatest Conservation Need, originates in a Technical Advisory Committee (TAC). The DFW has established five TACs, one for each major taxon: Mammals, Birds, Amphibians and Reptiles, Fish, and Mollusk and Crustacean. Each committee is comprised of the chair and one to nine additional members, primarily from Indiana colleges and universities, with experience in Indiana relative to the taxon covered by that committee. Each TAC has one DFW staff member assigned based on their position as a species expert within the division. The TACs previously considered only resident wildlife and bird species breeding in Indiana but have recently made an effort to consider the needs of migratory species as well.

For a given species, a TAC makes a listing recommendation based on the consideration of several factors, including overall population size, comparison of current distribution relative to historic distribution, threats to the species, and the status of closely related taxa or other species occupying a similar niche. The experts in each TAC use their best professional judgment, experience, and applicable publications and reports to determine if the prospect for a given species' survival in Indiana is in jeopardy. The TACs tend to be conservative: when there is insufficient data upon which to make a definitive determination, the committees recommend protection for a species facing significant risk. This precaution provides the maximum protection of Indiana law and elevates the monitoring and research priority of that species. The status of all SGCN are reviewed annually by the TACs, and additions and deletions are recommended. Species are removed from this list when their prospects for survival in the state are known to be secure.

State-endangered wildlife species are added or removed from the Species of Greatest Conservation Need list through the administrative rule process at least every two years. Once the Technical Advisory Committee provides recommendations to add or remove an Indiana state-endangered species, there is a one-month period for public comment both in person and through an online system, followed by a month-long period to allow DNR to review rule changes. DNR then presents suggested rule changes to the Fish and Wildlife Conservation Council (FWCC), followed by a 4-month review process after which the rules are presented to the Advisory Council. After 1 month, the rule package is then presented to the Natural Resources Commission (NRC) for preliminary adoption. Once the NRC has preliminarily adopted the rule package, there are 6 months to hold public hearings before the final adoption of a rule change by the NRC.

Table 5-1. Current federal and state status of Indiana's SGCN as of November 1, 2022.

FE= Federally endangered; FT=Federally threatened; SE=State endangered; ST=State threatened; SC=Special concern; SRE=Native species reintroduced to the state

Taxa	Group	Scientific Name	Common Name	Status
Amphibians	Aquatic Salamanders	<i>Cryptobranchus alleganiensis</i>	Hellbender	SE
Amphibians	Aquatic Salamanders	<i>Necturus maculosus</i>	Common Mudpuppy	SC
Amphibians	Salamanders	<i>Ambystoma laterale</i>	Blue-spotted Salamander	SC
Amphibians	Salamanders	<i>Ambystoma talpoideum</i>	Mole Salamander	SE
Amphibians	Salamanders	<i>Ambystoma barbouri</i>	Streamside Salamander	SC
Amphibians	Salamanders	<i>Hemidactylium scutatum</i>	Four-toed Salamander	SC
Amphibians	Salamanders	<i>Pseudotriton ruber</i>	Red Salamander	SE
Amphibians	Salamanders	<i>Aneides aeneus</i>	Green Salamander	SE
Amphibians	Frogs	<i>Acris blanchardi</i>	Blanchard's Cricket Frog	SC
Amphibians	Frogs	<i>Lithobates areolatus</i>	Crawfish Frog	SE
Amphibians	Frogs	<i>Lithobates blairi</i>	Plains Leopard Frog	SE
Amphibians	Frogs	<i>Pseudacris maculata</i>	Boreal Chorus Frog	SC
Birds	Waterfowl	<i>Cygnus buccinator</i>	Trumpeter Swan	SE
Birds	Quail and Grouse	<i>Colinus virginianus</i>	Northern Bobwhite	SC
Birds	Quail and Grouse	<i>Bonasa umbellus</i>	Ruffed Grouse	SE
Birds	Cuckoos	<i>Coccyzus erythrophthalmus</i>	Black-billed Cuckoo	SC
Birds	Nightjars	<i>Chordeiles minor</i>	Common Nighthawk	SC
Birds	Nightjars	<i>Antrostomus vociferus</i>	Eastern Whip-poor-will	SC
Birds	Rails	<i>Laterallus jamaicensis</i>	Black Rail	FT/SE
Birds	Rails	<i>Rallus elegans</i>	King Rail	SE

Taxa	Group	Scientific Name	Common Name	Status
Birds	Rails	<i>Rallus limicola</i>	Virginia Rail	SE
Birds	Rails	<i>Gallinula galeata</i>	Common Gallinule	SE
Birds	Cranes	<i>Antigone canadensis</i>	Sandhill Crane	SC
Birds	Cranes	<i>Grus americana</i>	Whooping Crane	FE/SE
Birds	Shorebirds	<i>Pluvialis dominica</i>	American Golden-plover	SC
Birds	Shorebirds	<i>Limosa haemastica</i>	Hudsonian Godwit	SC
Birds	Shorebirds	<i>Charadrius melodus</i>	Piping Plover	FE/SE
Birds	Shorebirds	<i>Bartramia longicauda</i>	Upland Sandpiper	SE
Birds	Shorebirds	<i>Arenaria interpres</i>	Ruddy Turnstone	SC
Birds	Shorebirds	<i>Calidris canutus rufa</i>	Rufa Red Knot	FT/SE
Birds	Shorebirds	<i>Calidris subruficollis</i>	Buff-breasted Sandpiper	SC
Birds	Shorebirds	<i>Limnodromus griseus</i>	Short-billed Dowitcher	SC
Birds	Shorebirds	<i>Scolopax minor</i>	American Woodcock	SC
Birds	Shorebirds	<i>Tringa solitaria</i>	Solitary Sandpiper	SC
Birds	Shorebirds	<i>Tringa melanoleuca</i>	Greater Yellowlegs	SC
Birds	Shorebirds	<i>Phalaropus tricolor</i>	Wilson's Phalarope	SC
Birds	Terns	<i>Sternula antillarum athalassos</i>	Least Tern	SE
Birds	Terns	<i>Chlidonias niger</i>	Black Tern	SE
Birds	Hérons, Egrets, and Bitterns	<i>Botaurus lentiginosus</i>	American Bittern	SE
Birds	Hérons, Egrets, and Bitterns	<i>Ixobrychus exilis</i>	Least Bittern	SE
Birds	Hérons, Egrets, and Bitterns	<i>Ardea alba</i>	Great Egret	SC
Birds	Hérons, Egrets, and Bitterns	<i>Nycticorax nycticorax</i>	Black-crowned Night-heron	SE
Birds	Hérons, Egrets, and Bitterns	<i>Nyctanassa violacea</i>	Yellow-crowned Night-heron	SE
Birds	Raptors	<i>Pandion haliaetus</i>	Osprey	SC
Birds	Raptors	<i>Ictinia mississippiensis</i>	Mississippi Kite	SC
Birds	Raptors	<i>Circus hudsonius</i>	Northern Harrier	SE

Taxa	Group	Scientific Name	Common Name	Status
Birds	Raptors	<i>Accipiter striatus</i>	Sharp-shinned Hawk	SC
Birds	Raptors	<i>Buteo platypterus</i>	Broad-winged Hawk	SC
Birds	Raptors	<i>Tyto alba</i>	Barn Owl	SE
Birds	Raptors	<i>Asio flammeus</i>	Short-eared Owl	SE
Birds	Raptors	<i>Asio otus</i>	Long-eared Owl	SC
Birds	Raptors	<i>Falco peregrinus</i>	Peregrine Falcon	SC
Birds	Songbirds	<i>Lanius ludovicianus</i>	Loggerhead Shrike	SE
Birds	Songbirds	<i>Cistothorus platensis</i>	Sedge Wren	SE
Birds	Songbirds	<i>Cistothorus palustris</i>	Marsh Wren	SE
Birds	Songbirds	<i>Ammodramus savannarum</i>	Grasshopper Sparrow	SC
Birds	Songbirds	<i>Ammodramus henslowii</i>	Henslow's Sparrow	SE
Birds	Songbirds	<i>Xanthocephalus xanthocephalus</i>	Yellow-headed Blackbird	SE
Birds	Songbirds	<i>Sturnella neglecta</i>	Western Meadowlark	SC
Birds	Songbirds	<i>Helmitheros vermivorum</i>	Worm-eating Warbler	SC
Birds	Songbirds	<i>Vermivora chrysoptera</i>	Golden-winged Warbler	SE
Birds	Songbirds	<i>Mniotilta varia</i>	Black-and-white Warbler	SC
Birds	Songbirds	<i>Setophaga citrina</i>	Hooded Warbler	SC
Birds	Songbirds	<i>Setophaga kirtlandii</i>	Kirtland's Warbler	SE
Birds	Songbirds	<i>Setophaga cerulea</i>	Cerulean Warbler	SE

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Taxa	Group	Scientific Name	Common Name	Status
Fish	Lampreys	<i>Ichthyomyzon fossor</i>	Northern Brook Lamprey	SC
Fish	Sturgeons	<i>Acipenser fulvescens</i>	Lake Sturgeon	SE
Fish	Gars	<i>Atractosteus spatula</i>	Alligator Gar	?
Fish	Freshwater Eels	<i>Anguilla rostrata</i>	American Eel	SC
Fish	Minnnows	<i>Clinostomus elongatus</i>	Redside Dace	SE
Fish	Minnnows	<i>Hybopsis amnis</i>	Pallid Shiner	SE
Fish	Minnnows	<i>Notropis anogenus</i>	Pugnose Shiner	SC
Fish	Minnnows	<i>Notropis dorsalis</i>	Bigmouth Shiner	SC
Fish	Minnnows	<i>Rhinichthys cataractae</i>	Longnose Dace	SC
Fish	North American Catfishes	<i>Noturus stigmosus</i>	Northern Madtom	SC
Fish	Trouts and Salmon	<i>Coregonus artedii</i>	Cisco	SE
Fish	Suckers	<i>Moxostoma valenciennesi</i>	Greater Redhorse	SE
Fish	Cavefishes	<i>Amblyopsis hoosieri</i>	Hoosier Cavefish	SE
Fish	Sunfish	<i>Lepomis symmetricus</i>	Bantam Sunfish	SE
Fish	Perches	<i>Etheostoma variatum</i>	Variagate Darter	SE
Fish	Perches	<i>Percina copelandi</i>	Channel Darter	SE
Fish	Perches	<i>Percina evides</i>	Gilt Darter	SE
Fish	Trout-perches	<i>Percopsis omiscomaycus</i>	Trout-perch	SC
Fish	Sculpins	<i>Cottus cognatus</i>	Slimy Sculpin	SC
Fish	Pygmy Sunfishes	<i>Elassoma zonatum</i>	Banded Pygmy Sunfish	SC
Fish	Perches and Darters	<i>Ammocrypta clara</i>	Western Sand Darter	SE
Fish	Perches and Darters	<i>Etheostoma maculatum</i>	Spotted Darter	SC

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Taxa	Group	Scientific Name	Common Name	Status
Mammals	Shrews and Moles	<i>Sorex fumeus</i>	Smoky Shrew	SC
Mammals	Shrews and Moles	<i>Sorex hoyi</i>	American Pygmy Shrew	SC
Mammals	Shrews and Moles	<i>Condylura cristata</i>	Star-nosed Mole	SC
Mammals	Bats	<i>Myotis austroriparius</i>	Southeastern Myotis	SC
Mammals	Bats	<i>Myotis grisescens</i>	Gray Myotis	FE/SE
Mammals	Bats	<i>Myotis lucifugus</i>	Little Brown Myotis	SE
Mammals	Bats	<i>Myotis leibii</i>	Eastern Small-footed Myotis	SC
Mammals	Bats	<i>Myotis septentrionalis</i>	Northern Long-eared Myotis	FT/SE
Mammals	Bats	<i>Myotis sodalis</i>	Indiana Myotis	FE/SE
Mammals	Bats	<i>Lasiorycteris noctivagans</i>	Silver-haired Bat	SC
Mammals	Bats	<i>Perimyotis subflavus</i>	Tricolored Bat	SE
Mammals	Bats	<i>Nycticeius humeralis</i>	Evening Bat	SE
Mammals	Bats	<i>Lasiurus borealis</i>	Eastern Red Bat	SC
Mammals	Bats	<i>Lasiurus cinereus</i>	Hoary Bat	SC
Mammals	Bats	<i>Corynorhinus rafinesquii</i>	Rafinesque's Big-eared Bat	SC
Mammals	Rabbits	<i>Sylvilagus aquaticus</i>	Swamp Rabbit	SE
Mammals	Rodents	<i>Spermophilus franklinii</i>	Franklin's Ground Squirrel	SE
Mammals	Rodents	<i>Geomys bursarius</i>	Plains Pocket Gopher	SC
Mammals	Rodents	<i>Neotoma magister</i>	Allegheny Woodrat	SE
Mammals	Bears	<i>Ursus americanus</i>	American Black Bear	SC
Mammals	Mustelids	<i>Mustela nivalis</i>	Least Weasel	SC
Mammals	Mustelids	<i>Taxidea taxus</i>	American Badger	SC

Taxa	Group	Scientific Name	Common Name	Status
Mollusks	Mussels	<i>Alasmidonta viridis</i>	Slippershell Mussel	SC
Mollusks	Mussels	<i>Cyprogenia stegaria</i>	Fanshell	FE/SE
Mollusks	Mussels	<i>Elliptio crassidens</i>	Elephantear	SC
Mollusks	Mussels	<i>Epioblasma perobliqua</i>	White Catspaw	FE/SE
Mollusks	Mussels	<i>Epioblasma rangiana</i>	Northern Riffleshell	FE/SE
Mollusks	Mussels	<i>Epioblasma triquetra</i>	Snuffbox	FE/SE
Mollusks	Mussels	<i>Euryntia dilatata</i>	Spike	SC
Mollusks	Mussels	<i>Lampsilis fasciola</i>	Wavyrayed Lampmussel	SC
Mollusks	Mussels	<i>Lampsilis ovata</i>	Pocketbook	SC
Mollusks	Mussels	<i>Ligumia recta</i>	Black Sandshell	SC
Mollusks	Mussels	<i>Obovaria subrotunda</i>	Round Hickorynut	SE
Mollusks	Mussels	<i>Plethobasus cyphus</i>	Sheepnose	FE/SE
Mollusks	Mussels	<i>Pleurobema clava</i>	Clubshell	FE/SE
Mollusks	Mussels	<i>Pleurobema cordatum</i>	Ohio Pigtoe	SC
Mollusks	Mussels	<i>Pleurobema plenum</i>	Rough Pigtoe	FE/SE
Mollusks	Mussels	<i>Potamilus capax</i>	Fat Pocketbook	FE/SE
Mollusks	Mussels	<i>Ptychobranchus fasciolaris</i>	Kidneyshell	SC
Mollusks	Mussels	<i>Theliderma cylindrica</i>	Rabbitsfoot	FT/SE
Mollusks	Mussels	<i>Reginaia ebenus</i>	Ebonyshell	SC
Mollusks	Mussels	<i>Simpsonaias ambigua</i>	Salamander Mussel	SC
Mollusks	Mussels	<i>Toxolasma lividum</i>	Purple Lilliput	SC
Mollusks	Mussels	<i>Toxolasma texasiense</i>	Texas Lilliput	SC
Mollusks	Mussels	<i>Paetulunio fabalis</i>	Rayed Bean	FE/SE
Mollusks	Mussels	<i>Cambarunio iris</i>	Rainbow	SC
Mollusks	Mussels	<i>Villosa lienosa</i>	Little Spectaclecase	SC
Mollusks	Snails	<i>Campeloma decisum</i>	Pointed Campeloma	SC
Mollusks	Snails	<i>Lymnaea stagnalis</i>	Swamp Lymnaea	SC

Taxa	Group	Scientific Name	Common Name	Status
Reptiles	Turtles	<i>Macrochelys temminckii</i>	Alligator Snapping Turtle	SE
Reptiles	Turtles	<i>Kinosternon subrubrum</i>	Eastern Mud Turtle	SE
Reptiles	Turtles	<i>Clemmys guttata</i>	Spotted Turtle	SE
Reptiles	Turtles	<i>Emydoidea blandingii</i>	Blanding's Turtle	SE
Reptiles	Turtles	<i>Terrapene carolina</i>	Eastern Box Turtle	SC
Reptiles	Turtles	<i>Terrapene ornata</i>	Ornate Box Turtle	SE
Reptiles	Turtles	<i>Pseudemys concinna</i>	River Cooter	SE
Reptiles	Turtles	<i>Graptemys pseudogeographica</i>	False Map Turtle	SC
Reptiles	Snakes	<i>Thamnophis butleri</i>	Butler's Gartersnake	SE
Reptiles	Snakes	<i>Thamnophis radix</i>	Plains Gartersnake	SC
Reptiles	Snakes	<i>Thamnophis proximus</i>	Western Ribbonsnake	SC
Reptiles	Snakes	<i>Nerodia erythrogaster neglecta</i>	Copper-bellied Watersnake	FT/SE
Reptiles	Snakes	<i>Clonophis kirtlandii</i>	Kirtland's Snake	SE
Reptiles	Snakes	<i>Opheodrys aestivus</i>	Rough Greensnake	SC
Reptiles	Snakes	<i>Opheodrys vernalis</i>	Smooth Greensnake	SE
Reptiles	Snakes	<i>Cemophora coccinea</i>	Scarletsnake	SE
Reptiles	Snakes	<i>Tantilla coronata</i>	Southeastern Crowned Snake	SE
Reptiles	Snakes	<i>Thamnophis radix</i>	Plains Gartersnake	SC
Reptiles	Snakes	<i>Thamnophis proximus</i>	Western Ribbonsnake	SC
Reptiles	Snakes	<i>Farancia abacura</i>	Red-bellied Mudsnake	SC
Reptiles	Snakes	<i>Agkistrodon piscivorus</i>	Cottonmouth	SE
Reptiles	Snakes	<i>Sistrurus catenatus</i>	Eastern Massasauga	FT/SE
Reptiles	Snakes	<i>Crotalus horridus</i>	Timber Rattlesnake	SE

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Taxa	Group	Scientific Name	Common Name	Status
Vascular Plants	fern	<i>Asplenium bradleyi</i>	Bradley's spleenwort	SE
Vascular Plants	fern	<i>Asplenium montanum</i>	mountain spleenwort	SE
Vascular Plants	fern	<i>Asplenium resiliens</i>	black-stem spleenwort	ST
Vascular Plants	fern	<i>Asplenium ruta-muraria</i>	wallrue spleenwort	ST
Vascular Plants	fern	<i>Azolla caroliniana</i>	Carolina mosquito-fern	ST
Vascular Plants	fern	<i>Botrychium matricariifolium</i>	chamomile grape-fern	ST
Vascular Plants	fern	<i>Botrychium simplex</i>	least grape-fern	SE
Vascular Plants	fern	<i>Crepidomanes intricatum</i>	weft fern	SE
Vascular Plants	fern	<i>Dendrolycopodium dendroideum</i>	treelike clubmoss	SE
Vascular Plants	fern	<i>Dendrolycopodium hickeyi</i>	Hickey's clubmoss	ST
Vascular Plants	fern	<i>Diphasiastrum tristachyum</i>	deep-root clubmoss	ST
Vascular Plants	fern	<i>Dryopteris celsa</i>	log fern	SE
Vascular Plants	fern	<i>Dryopteris clintoniana</i>	Clinton's woodfern	SE
Vascular Plants	fern	<i>Equisetum sylvaticum</i>	woodland horsetail	SE
Vascular Plants	fern	<i>Equisetum variegatum</i> var. <i>variegatum</i>	variegated horsetail	SE
Vascular Plants	fern	<i>Isoetes engelmannii</i>	Appalachian quillwort	SE
Vascular Plants	fern	<i>Isoetes melanopoda</i>	blackfoot quillwort	ST
Vascular Plants	fern	<i>Lycopodiella inundata</i>	northern bog clubmoss	SE
Vascular Plants	fern	<i>Lycopodiella subappressa</i>	northern appressed bog clubmoss	SE
Vascular Plants	fern	<i>Lygodium palmatum</i>	climbing fern	SE
Vascular Plants	fern	<i>Matteuccia struthiopteris</i>	ostrich fern	ST
Vascular Plants	fern	<i>Myriopteris lanosa</i>	hairy lipfern	ST
Vascular Plants	fern	<i>Ophioglossum engelmannii</i>	limestone adder's-tongue	ST
Vascular Plants	fern	<i>Ophioglossum pusillum</i>	northern adder's-tongue	ST
Vascular Plants	fern	<i>Selaginella rupestris</i>	ledge spike-moss	SE
Vascular Plants	fern	<i>Vandenboschia boschiana</i>	filmy fern	SE
Vascular Plants	fern	<i>Vittaria appalachiana</i>	Appalachian vittaria	ST
Vascular Plants	fern	<i>Woodwardia areolata</i>	netted chainfern	ST
Vascular Plants	forb	<i>Aconitum uncinatum</i>	blue monkshood	SE
Vascular Plants	forb	<i>Actaea rubifolia</i>	Appalachian bugbane	SE
Vascular Plants	forb	<i>Actaea rubra</i> ssp. <i>rubra</i>	red baneberry	ST
Vascular Plants	forb	<i>Agalinis auriculata</i>	earleaf foxglove	ST
Vascular Plants	forb	<i>Agalinis gattingeri</i>	roundstem foxglove	ST
Vascular Plants	forb	<i>Agalinis skinneriana</i>	pale false foxglove	ST

Taxa	Group	Scientific Name	Common Name	Status
Vascular Plants	forb	<i>Androsace occidentalis</i>	western rockjasmine	ST
Vascular Plants	forb	<i>Anticlea elegans</i> var. <i>glaucus</i>	white camas	ST
Vascular Plants	forb	<i>Arabis patens</i>	spreading rockcress	SE
Vascular Plants	forb	<i>Asclepias meadii</i>	Mead's milkweed	SRE
Vascular Plants	forb	<i>Asclepias viridis</i>	green milkweed	SE
Vascular Plants	forb	<i>Astragalus tennesseensis</i>	Tennessee milk-vetch	SRE
Vascular Plants	forb	<i>Bacopa rotundifolia</i>	roundleaf water-hyssop	ST
Vascular Plants	forb	<i>Baptisia australis</i>	wild false indigo	ST
Vascular Plants	forb	<i>Besseyia bullii</i>	kitten tails	SE
Vascular Plants	forb	<i>Bidens beckii</i>	Beck's water-marigold	SE
Vascular Plants	forb	<i>Boechera stricta</i>	Drummond's rockcress	SE
Vascular Plants	forb	<i>Borodinia missouriensis</i>	green rock cress	SE
Vascular Plants	forb	<i>Buchnera americana</i>	bluehearts	SE
Vascular Plants	forb	<i>Calla palustris</i>	wild calla	SE
Vascular Plants	forb	<i>Callirhoe triangulata</i>	clustered poppy-mallow	SE
Vascular Plants	forb	<i>Calylophus serrulatus</i>	yellow sundrops	SE
Vascular Plants	forb	<i>Camassia angusta</i>	wild hyacinth	SE
Vascular Plants	forb	<i>Capnoides sempervirens</i>	pale corydalis	SE
Vascular Plants	forb	<i>Cardamine dentata</i>	cuckoo flower	ST
Vascular Plants	forb	<i>Cardamine dissecta</i>	divided toothwort	SE
Vascular Plants	forb	<i>Caulophyllum giganteum</i>	giant blue cohosh	SE
Vascular Plants	forb	<i>Chaerophyllum shortii</i>	wild chervil	ST
Vascular Plants	forb	<i>Chamaelirium luteum</i>	devil's-bit	SE
Vascular Plants	forb	<i>Chamaenerion angustifolium</i> ssp. <i>circumvagum</i>	fireweed	SE
Vascular Plants	forb	<i>Chimaphila umbellata</i> ssp. <i>cisatlantica</i>	pipsissewa	SE
Vascular Plants	forb	<i>Chrysosplenium americanum</i>	American golden-saxifrage	ST
Vascular Plants	forb	<i>Cirsium carolinianum</i>	Carolina thistle	ST
Vascular Plants	forb	<i>Cirsium hillii</i>	Hill's thistle	SE
Vascular Plants	forb	<i>Cirsium pitcheri</i>	dune thistle	SE
Vascular Plants	forb	<i>Clinopodium arkansanum</i>	calamint	ST
Vascular Plants	forb	<i>Clintonia borealis</i>	Clinton's lily	SE
Vascular Plants	forb	<i>Conioselinum chinense</i>	hemlock parsley	SE
Vascular Plants	forb	<i>Coptis trifolia</i> var. <i>groenlandica</i>	goldthread	ST

Taxa	Group	Scientific Name	Common Name	Status
Vascular Plants	forb	<i>Cornus canadensis</i>	bunchberry	SE
Vascular Plants	forb	<i>Croton michauxii</i> var. <i>elliptica</i>	elliptical rushfoil	SE
Vascular Plants	forb	<i>Cypripedium acaule</i>	pink lady's-slipper	SE
Vascular Plants	forb	<i>Cypripedium candidum</i>	small white lady's-slipper	ST
Vascular Plants	forb	<i>Cypripedium parviflorum</i> var. <i>makasin</i>	small yellow lady's-slipper	ST
Vascular Plants	forb	<i>Cypripedium reginae</i>	showy lady's-slipper	ST
Vascular Plants	forb	<i>Dactylorhiza viridis</i>	long-bract green orchid	SE
Vascular Plants	forb	<i>Dicliptera brachiata</i>	wild mudwort	SE
Vascular Plants	forb	<i>Didiplis diandra</i>	water-purslane	SE
Vascular Plants	forb	<i>Dodecatheon frenchii</i>	French's shootingstar	ST
Vascular Plants	forb	<i>Drosera intermedia</i>	spoon-leaved sundew	ST
Vascular Plants	forb	<i>Echinacea simulata</i>	wavyleaf purple coneflower	SE
Vascular Plants	forb	<i>Echinodorus berteroi</i>	tall bur-head	SE
Vascular Plants	forb	<i>Echinodorus cordifolius</i>	creeping bur-head	SE
Vascular Plants	forb	<i>Epigaea repens</i>	trailing arbutus	ST
Vascular Plants	forb	<i>Eriocaulon aquaticum</i>	pipewort	SE
Vascular Plants	forb	<i>Erysimum capitatum</i>	prairie-rocket wallflower	SE
Vascular Plants	forb	<i>Eupatorium album</i>	white thoroughwort	ST
Vascular Plants	forb	<i>Euphorbia polygonifolia</i>	seaside spurge	ST
Vascular Plants	forb	<i>Euploca tenella</i>	slender heliotrope	ST
Vascular Plants	forb	<i>Eurybia furcata</i>	forked aster	ST
Vascular Plants	forb	<i>Eurybia schreberi</i>	Schreber's aster	SE
Vascular Plants	forb	<i>Fleischmannia incarnata</i>	pink thoroughwort	ST
Vascular Plants	forb	<i>Fragaria vesca</i> var. <i>americana</i>	woodland strawberry	SE
Vascular Plants	forb	<i>Galium labradoricum</i>	bog bedstraw	ST
Vascular Plants	forb	<i>Gaura filipes</i>	slender-stalked gaura	SE
Vascular Plants	forb	<i>Gentiana alba</i>	yellow gentian	ST
Vascular Plants	forb	<i>Gentiana puberulenta</i>	downy gentian	SE
Vascular Plants	forb	<i>Gentiana villosa</i>	striped gentian	SE
Vascular Plants	forb	<i>Geranium bicknellii</i>	Bicknell's northern cranesbill	SE
Vascular Plants	forb	<i>Geranium robertianum</i>	herb-Robert	ST
Vascular Plants	forb	<i>Geum aleppicum</i>	yellow avens	ST
Vascular Plants	forb	<i>Geum fragarioides</i>	barren strawberry	ST
Vascular Plants	forb	<i>Geum rivale</i>	purple avens	SE
Vascular Plants	forb	<i>Helenium virginicum</i>	Virginia sneezeweed	SE

Taxa	Group	Scientific Name	Common Name	Status
Vascular Plants	forb	<i>Helianthus angustifolius</i>	swamp sunflower	SE
Vascular Plants	forb	<i>Heterotheca camporum</i> <i>var. camporum</i>	hairy golden-aster	ST
Vascular Plants	forb	<i>Hexalectris spicata</i>	crested coralroot	ST
Vascular Plants	forb	<i>Hibiscus moscheutos</i> <i>ssp. lasiocarpus</i>	hairy-fruited hibiscus	SE
Vascular Plants	forb	<i>Hottonia inflata</i>	featherfoil	ST
Vascular Plants	forb	<i>Hydrocotyle americana</i>	American water-pennywort	SE
Vascular Plants	forb	<i>Hylotelephium telephioides</i>	Allegheny stonecrop	ST
Vascular Plants	forb	<i>Hymenopappus scabiosaeus</i>	Carolina woollywhite	SE
Vascular Plants	forb	<i>Hypericum adpressum</i>	creeping St. John's-wort	SE
Vascular Plants	forb	<i>Hypericum dolabriforme</i>	straggling St. John's-wort	ST
Vascular Plants	forb	<i>Hypericum gymnanthum</i>	clasping-leaved St. John's-wort	SE
Vascular Plants	forb	<i>Hypericum pyramidatum</i>	great St. John's-wort	ST
Vascular Plants	forb	<i>Hypericum virgatum</i>	coppery St. John's-wort	ST
Vascular Plants	forb	<i>Iresine rhizomatosa</i>	eastern bloodleaf	ST
Vascular Plants	forb	<i>Lactuca hirsuta</i>	hairy lettuce	ST
Vascular Plants	forb	<i>Leavenworthia uniflora</i>	Michaux's leavenworthia	SE
Vascular Plants	forb	<i>Lechea racemulosa</i>	Illinois pinweed	SE
Vascular Plants	forb	<i>Lemna gibba</i>	inflated duckweed	SE
Vascular Plants	forb	<i>Lemna minuta</i>	least duckweed	SE
Vascular Plants	forb	<i>Lemna valdiviana</i>	pale duckweed	SE
Vascular Plants	forb	<i>Liatris pycnostachya</i>	cattail gay-feather	SE
Vascular Plants	forb	<i>Ligusticum canadense</i>	nondo lovage	SE
Vascular Plants	forb	<i>Lilium canadense</i>	Canada lily	ST
Vascular Plants	forb	<i>Lilium superbum</i>	Turk's cap lily	ST
Vascular Plants	forb	<i>Limnobium spongia</i>	American frog's-bit	SE
Vascular Plants	forb	<i>Linum intercursum</i>	sandplain flax	SE
Vascular Plants	forb	<i>Linum sulcatum</i>	grooved yellow flax	ST
Vascular Plants	forb	<i>Lithospermum incisum</i>	narrow-leaved puccoon	SE
Vascular Plants	forb	<i>Lithospermum parviflorum</i>	shaggy false-gromwell	SE
Vascular Plants	forb	<i>Ludwigia glandulosa</i>	cylindric-fruited seedbox	ST
Vascular Plants	forb	<i>Ludwigia sphaerocarpa</i>	globe-fruited false-loosestrife	SE
Vascular Plants	forb	<i>Lycopus amplexans</i>	sessile-leaved bugleweed	SE
Vascular Plants	forb	<i>Malaxis unifolia</i>	green adder's-mouth	SE

Taxa	Group	Scientific Name	Common Name	Status
Vascular Plants	forb	<i>Mecardonia acuminata</i>	striped hedge hyssop	SE
Vascular Plants	forb	<i>Melampyrum lineare</i>	American cow-wheat	SE
Vascular Plants	forb	<i>Micranthes forbesii</i>	Forbe's saxifrage	SE
Vascular Plants	forb	<i>Minuartia michauxii</i> var. <i>michauxii</i>	Michaux's stitchwort	ST
Vascular Plants	forb	<i>Minuartia patula</i>	Pitcher's stitchwort	SE
Vascular Plants	forb	<i>Monarda bradburiana</i>	eastern bee-balm	SE
Vascular Plants	forb	<i>Myosotis laxa</i>	smaller forget-me-not	ST
Vascular Plants	forb	<i>Myriophyllum pinnatum</i>	cutleaf water-milfoil	SE
Vascular Plants	forb	<i>Myriophyllum tenellum</i>	slender water-milfoil	SE
Vascular Plants	forb	<i>Myriophyllum verticillatum</i>	whorled water-milfoil	ST
Vascular Plants	forb	<i>Najas gracillima</i>	thread-like naiad	ST
Vascular Plants	forb	<i>Napaea dioica</i>	glade mallow	ST
Vascular Plants	forb	<i>Nothoscordum bivalve</i>	crow-poison	ST
Vascular Plants	forb	<i>Oenothera perennis</i>	small sundrops	ST
Vascular Plants	forb	<i>Oligoneuron album</i>	prairie goldenrod	ST
Vascular Plants	forb	<i>Orobanche fasciculata</i>	clustered broomrape	SE
Vascular Plants	forb	<i>Orobanche riparia</i>	bottomland broomrape	SE
Vascular Plants	forb	<i>Pachysandra procumbens</i>	Allegheny spurge	SE
Vascular Plants	forb	<i>Penstemon canescens</i>	gray beardtongue	SE
Vascular Plants	forb	<i>Penstemon deamii</i>	Deam's beardtongue	SE
Vascular Plants	forb	<i>Penstemon tubaeflorus</i>	tube penstemon	SE
Vascular Plants	forb	<i>Perideridia americana</i>	eastern eulophus	SE
Vascular Plants	forb	<i>Persicaria careyi</i>	Carey's smartweed	ST
Vascular Plants	forb	<i>Persicaria opelousana</i>	northeastern smartweed	ST
Vascular Plants	forb	<i>Persicaria robustior</i>	stout smartweed	SE
Vascular Plants	forb	<i>Persicaria setacea</i>	swamp smartweed	SE
Vascular Plants	forb	<i>Phacelia covillei</i>	buttercup scorpionweed	SE
Vascular Plants	forb	<i>Phacelia ranunculacea</i>	blue scorpionweed	SE
Vascular Plants	forb	<i>Phemeranthus rugospermus</i>	prairie fame-flower	SE
Vascular Plants	forb	<i>Phlox amplifolia</i>	large-leaved phlox	ST
Vascular Plants	forb	<i>Phlox bifida</i> ssp. <i>stellaria</i>	cleft phlox	SE
Vascular Plants	forb	<i>Phlox ovata</i>	mountain phlox	SE
Vascular Plants	forb	<i>Phlox pilosa</i> ssp. <i>deamii</i>	Deam's phlox	SE
Vascular Plants	forb	<i>Physaria globosa</i>	Short's bladderpod	SE
Vascular Plants	forb	<i>Plantago cordata</i>	heart-leaved plantain	SE

Taxa	Group	Scientific Name	Common Name	Status
Vascular Plants	forb	<i>Platanthera aquilonis</i>	leafy northern green orchid	ST
Vascular Plants	forb	<i>Platanthera ciliaris</i>	yellow-fringe orchid	SE
Vascular Plants	forb	<i>Platanthera flava</i> var. <i>flava</i>	southern rein orchid	SE
Vascular Plants	forb	<i>Platanthera leucophaea</i>	eastern prairie white-fringed orchid	SE
Vascular Plants	forb	<i>Platanthera psycodes</i>	small purple-fringe orchid	ST
Vascular Plants	forb	<i>Polygala incarnata</i>	pink milkwort	SE
Vascular Plants	forb	<i>Polygala paucifolia</i>	gay-wing milkwort	SE
Vascular Plants	forb	<i>Polygonum articulatum</i>	eastern jointweed	ST
Vascular Plants	forb	<i>Polytaenia nuttallii</i>	prairie parsley	SE
Vascular Plants	forb	<i>Potamogeton bicupulatus</i>	snail-seed pondweed	SE
Vascular Plants	forb	<i>Potamogeton epihydrus</i>	Nuttall pondweed	SE
Vascular Plants	forb	<i>Potamogeton friesii</i>	Fries' pondweed	SE
Vascular Plants	forb	<i>Potamogeton oakesianus</i>	Oakes' pondweed	SE
Vascular Plants	forb	<i>Potamogeton praelongus</i>	white-stem pondweed	ST
Vascular Plants	forb	<i>Potamogeton pulcher</i>	spotted pondweed	ST
Vascular Plants	forb	<i>Potamogeton richardsonii</i>	redhead grass	ST
Vascular Plants	forb	<i>Potamogeton robbinsii</i>	flatleaf pondweed	ST
Vascular Plants	forb	<i>Potamogeton strictifolius</i>	straight-leaf pondweed	ST
Vascular Plants	forb	<i>Potamogeton vaseyi</i>	Vasey's pondweed	SE
Vascular Plants	forb	<i>Potentilla anserina</i>	silverweed	ST
Vascular Plants	forb	<i>Prenanthes aspera</i>	rough rattlesnake-root	ST
Vascular Plants	forb	<i>Pycnanthemum verticillatum</i> var. <i>verticillatum</i>	whorled mountain mint	SE
Vascular Plants	forb	<i>Pyrola americana</i>	American wintergreen	ST
Vascular Plants	forb	<i>Pyrola asarifolia</i>	pink wintergreen	SE
Vascular Plants	forb	<i>Ranunculus harveyi</i>	Harvey's buttercup	SE
Vascular Plants	forb	<i>Ranunculus laxicaulis</i>	Mississippi buttercup	SE
Vascular Plants	forb	<i>Ranunculus pusillus</i>	Pursh's buttercup	SE
Vascular Plants	forb	<i>Rhexia mariana</i> var. <i>mariana</i>	Maryland meadow beauty	ST
Vascular Plants	forb	<i>Rorippa aquatica</i>	lake cress	SE
Vascular Plants	forb	<i>Rudbeckia fulgida</i> var. <i>umbrosa</i>	coneflower	SE
Vascular Plants	forb	<i>Sagittaria australis</i>	longbeak arrowhead	ST
Vascular Plants	forb	<i>Sanguisorba canadensis</i>	Canada burnet	SE
Vascular Plants	forb	<i>Sanicula smallii</i>	Small's snakeroot	ST
Vascular Plants	forb	<i>Scheuchzeria palustris</i> ssp. <i>americana</i>	American scheuchzeria	SE

Taxa	Group	Scientific Name	Common Name	Status
Vascular Plants	forb	<i>Scutellaria parvula</i> var. <i>parvula</i>	small skullcap	SE
Vascular Plants	forb	<i>Scutellaria saxatilis</i>	rock skullcap	SE
Vascular Plants	forb	<i>Sida hermaphrodita</i>	Virginia mallow	SE
Vascular Plants	forb	<i>Silene ovata</i>	ovate catchfly	SE
Vascular Plants	forb	<i>Silene regia</i>	royal catchfly	SE
Vascular Plants	forb	<i>Sisyrinchium montanum</i>	strict blue-eyed-grass	SE
Vascular Plants	forb	<i>Solidago buckleyi</i>	Buckley's goldenrod	SE
Vascular Plants	forb	<i>Solidago shortii</i>	Short's goldenrod	SE
Vascular Plants	forb	<i>Solidago simplex</i> var. <i>gillmanii</i>	sticky goldenrod	ST
Vascular Plants	forb	<i>Solidago squarrosa</i>	stout-ragged goldenrod	SE
Vascular Plants	forb	<i>Sparganium androcladum</i>	branching bur-reed	ST
Vascular Plants	forb	<i>Spigelia marilandica</i>	woodland pinkroot	SE
Vascular Plants	forb	<i>Spiranthes arcisepala</i>	Appalachian ladies'-tresses	SE
Vascular Plants	forb	<i>Spiranthes lucida</i>	shining ladies'-tresses	ST
Vascular Plants	forb	<i>Spiranthes magnicamporum</i>	Great Plains ladies'-tresses	SE
Vascular Plants	forb	<i>Spiranthes ochroleuca</i>	yellow nodding ladies'-tresses	ST
Vascular Plants	forb	<i>Spiranthes romanzoffiana</i>	hooded ladies'-tresses	SE
Vascular Plants	forb	<i>Stenanthium gramineum</i>	eastern featherbells	ST
Vascular Plants	forb	<i>Stenaria nigricans</i>	narrowleaf summer bluets	ST
Vascular Plants	forb	<i>Stuckenia filiformis</i> ssp. <i>occidentalis</i>	slender pondweed	SE
Vascular Plants	forb	<i>Sullivantia sullivantii</i>	Sullivantia	ST
Vascular Plants	forb	<i>Symphotrichum boreale</i>	rushlike aster	ST
Vascular Plants	forb	<i>Symphotrichum oblongifolium</i>	aromatic aster	ST
Vascular Plants	forb	<i>Symphotrichum sericeum</i>	western silvery aster	ST
Vascular Plants	forb	<i>Thalictrum pubescens</i>	tall meadowrue	ST
Vascular Plants	forb	<i>Triantha glutinosa</i>	false asphodel	ST
Vascular Plants	forb	<i>Trifolium reflexum</i> var. <i>glabrum</i>	buffalo clover	SE
Vascular Plants	forb	<i>Trifolium stoloniferum</i>	running buffalo clover	SE
Vascular Plants	forb	<i>Triglochin palustris</i>	marsh arrow-grass	ST
Vascular Plants	forb	<i>Trillium cernuum</i> var. <i>macranthum</i>	nodding trillium	SE
Vascular Plants	forb	<i>Utricularia cornuta</i>	horned bladderwort	SE
Vascular Plants	forb	<i>Utricularia geminiscapa</i>	hidden-fruited bladderwort	SE
Vascular Plants	forb	<i>Utricularia minor</i>	lesser bladderwort	ST

Taxa	Group	Scientific Name	Common Name	Status
Vascular Plants	forb	<i>Utricularia purpurea</i>	purple bladderwort	ST
Vascular Plants	forb	<i>Utricularia radiata</i>	small swollen bladderwort	SE
Vascular Plants	forb	<i>Utricularia resupinata</i>	northeastern bladderwort	SE
Vascular Plants	forb	<i>Utricularia subulata</i>	zigzag bladderwort	ST
Vascular Plants	forb	<i>Uvularia perfoliata</i>	bellwort	SE
Vascular Plants	forb	<i>Valeriana edulis</i> var. <i>ciliata</i>	hairy valerian	SE
Vascular Plants	forb	<i>Valeriana uliginosa</i>	marsh valerian	SE
Vascular Plants	forb	<i>Veratrum virginicum</i>	Virginia bunchflower	SE
Vascular Plants	forb	<i>Verbesina occidentalis</i>	yellow crownbeard	SE
Vascular Plants	forb	<i>Viola baxteri</i>	Baxter's violet	SE
Vascular Plants	forb	<i>Viola egglestonii</i>	Eggleston's violet	SE
Vascular Plants	forb	<i>Viola hirsutula</i>	southern wood violet	SE
Vascular Plants	forb	<i>Viola pedatifida</i>	prairie violet	ST
Vascular Plants	forb	<i>Viola primulifolia</i>	primrose-leaf violet	ST
Vascular Plants	forb	<i>Wolffiella gladiata</i>	sword bogmat	SE
Vascular Plants	forb	<i>Xyris difformis</i>	Carolina yellow-eyed grass	ST
Vascular Plants	grass	<i>Aristida tuberculosa</i>	seabeach needlegrass	ST
Vascular Plants	grass	<i>Brachyelytrum aristosum</i>	northern shorthusk	SE
Vascular Plants	grass	<i>Calamagrostis porteri</i> ssp. <i>insperata</i>	reed bent grass	SE
Vascular Plants	grass	<i>Calamagrostis porteri</i> ssp. <i>porteri</i>	Porter's reedgrass	SE
Vascular Plants	grass	<i>Coleataenia longifolia</i> ssp. <i>longifolia</i>	long-leaved panic-grass	SE
Vascular Plants	grass	<i>Danthonia compressa</i>	flattened oatgrass	SE
Vascular Plants	grass	<i>Deschampsia cespitosa</i>	tufted hairgrass	ST
Vascular Plants	grass	<i>Dichanthelium bicknellii</i>	panic-grass	SE
Vascular Plants	grass	<i>Dichanthelium boreale</i>	northern witchgrass	ST
Vascular Plants	grass	<i>Dichanthelium commonsianum</i>	Commons' panic-grass	SE
Vascular Plants	grass	<i>Dichanthelium deamii</i>	Deam's panic-grass	SE
Vascular Plants	grass	<i>Dichanthelium leibergii</i>	Leiberg's witchgrass	ST
Vascular Plants	grass	<i>Dichanthelium lucidum</i>	shining panic-grass	SE
Vascular Plants	grass	<i>Dichanthelium ovale</i>	egg-leaf witchgrass	ST
Vascular Plants	grass	<i>Dichanthelium scoparium</i>	broom panic-grass	SE
Vascular Plants	grass	<i>Dichanthelium subvillosum</i>	panic-grass	SE
Vascular Plants	grass	<i>Dichanthelium wilcoxianum</i>	blood witchgrass	ST
Vascular Plants	grass	<i>Dichanthelium yadkinense</i>	Yadkin panic-grass	SE

Taxa	Group	Scientific Name	Common Name	Status
Vascular Plants	grass	<i>Digitaria filiformis</i>	slender crabgrass	ST
Vascular Plants	grass	<i>Festuca paradoxa</i>	cluster fescue	ST
Vascular Plants	grass	<i>Glyceria acutiflora</i>	sharp-scaled manna-grass	SE
Vascular Plants	grass	<i>Glyceria borealis</i>	small floating manna-grass	SE
Vascular Plants	grass	<i>Glyceria grandis</i>	American manna-grass	SE
Vascular Plants	grass	<i>Leptochloa panicoides</i>	Amazon sprangle-top	SE
Vascular Plants	grass	<i>Melica nitens</i>	three-flower melic grass	SE
Vascular Plants	grass	<i>Milium effusum</i>	tall millet-grass	ST
Vascular Plants	grass	<i>Muhlenbergia capillaris</i>	long-awn hairgrass	SE
Vascular Plants	grass	<i>Muhlenbergia cuspidata</i>	plains muhly	SE
Vascular Plants	grass	<i>Oryzopsis asperifolia</i>	white-grained mountain-ricegrass	SE
Vascular Plants	grass	<i>Panicum tuckermanii</i>	Tuckerman's panic-grass	ST
Vascular Plants	grass	<i>Panicum verrucosum</i>	warty panic-grass	ST
Vascular Plants	grass	<i>Patis racemosa</i>	black-fruit mountain-ricegrass	ST
Vascular Plants	grass	<i>Piptatheropsis pungens</i>	slender mountain-ricegrass	SE
Vascular Plants	grass	<i>Piptochaetium avenaceum</i>	blackseed needlegrass	ST
Vascular Plants	grass	<i>Poa paludigena</i>	bog bluegrass	ST
Vascular Plants	grass	<i>Poa wolfii</i>	Wolf's bluegrass	ST
Vascular Plants	grass	<i>Schizachne purpurascens</i>	purple oat	SE
Vascular Plants	rush	<i>Juncus articulatus</i>	jointed rush	ST
Vascular Plants	rush	<i>Juncus militaris</i>	bayonet rush	SE
Vascular Plants	rush	<i>Juncus nodatus</i>	stout rush	ST
Vascular Plants	rush	<i>Juncus pelocarpus</i>	brown-fruited rush	SE
Vascular Plants	rush	<i>Juncus scirpoides</i>	scirpus-like rush	ST
Vascular Plants	rush	<i>Juncus secundus</i>	Secund's rush	SE
Vascular Plants	rush	<i>Luzula acuminata</i> var. <i>acuminata</i>	hairy woodrush	SE
Vascular Plants	sedge	<i>Carex alopecoidea</i>	foxtail sedge	SE
Vascular Plants	sedge	<i>Carex arctata</i>	black sedge	ST
Vascular Plants	sedge	<i>Carex atherodes</i>	awned sedge	SE
Vascular Plants	sedge	<i>Carex atlantica</i> ssp. <i>atlantica</i>	Atlantic sedge	SE
Vascular Plants	sedge	<i>Carex atlantica</i> ssp. <i>capillacea</i>	Howe's sedge	SE
Vascular Plants	sedge	<i>Carex aurea</i>	golden-fruited sedge	ST
Vascular Plants	sedge	<i>Carex aureolensis</i>	land of gold sedge	SE
Vascular Plants	sedge	<i>Carex brunnescens</i>	brownish sedge	ST

Taxa	Group	Scientific Name	Common Name	Status
Vascular Plants	sedge	<i>Carex bushii</i>	Bush's sedge	ST
Vascular Plants	sedge	<i>Carex castanea</i>	chestnut colored sedge	SE
Vascular Plants	sedge	<i>Carex chordorrhiza</i>	creeping sedge	SE
Vascular Plants	sedge	<i>Carex conoidea</i>	prairie gray sedge	ST
Vascular Plants	sedge	<i>Carex crawei</i>	Crawe's sedge	ST
Vascular Plants	sedge	<i>Carex cumulata</i>	clustered sedge	SE
Vascular Plants	sedge	<i>Carex decomposita</i>	cypress-knee sedge	ST
Vascular Plants	sedge	<i>Carex disperma</i>	softleaf sedge	SE
Vascular Plants	sedge	<i>Carex eburnea</i>	ebony sedge	ST
Vascular Plants	sedge	<i>Carex echinata</i>	little prickly sedge	SE
Vascular Plants	sedge	<i>Carex flava</i>	yellow sedge	ST
Vascular Plants	sedge	<i>Carex folliculata</i>	long sedge	ST
Vascular Plants	sedge	<i>Carex garberi</i>	elk sedge	SE
Vascular Plants	sedge	<i>Carex gigantea</i>	large sedge	SE
Vascular Plants	sedge	<i>Carex gravida</i>	heavy sedge	SE
Vascular Plants	sedge	<i>Carex leptonevia</i>	finely-nerved sedge	SE
Vascular Plants	sedge	<i>Carex limosa</i>	mud sedge	SE
Vascular Plants	sedge	<i>Carex livida</i>	livid sedge	SE
Vascular Plants	sedge	<i>Carex lupuliformis</i>	false hop sedge	ST
Vascular Plants	sedge	<i>Carex oklahomensis</i>	Oklahoma sedge	SE
Vascular Plants	sedge	<i>Carex projecta</i>	necklace sedge	SE
Vascular Plants	sedge	<i>Carex pseudocyperus</i>	cyperus-like sedge	SE
Vascular Plants	sedge	<i>Carex retrorsa</i>	retorse sedge	SE
Vascular Plants	sedge	<i>Carex richardsonii</i>	Richardson's sedge	ST
Vascular Plants	sedge	<i>Carex scabrata</i>	rough sedge	SE
Vascular Plants	sedge	<i>Carex seorsa</i>	weak stellate sedge	ST
Vascular Plants	sedge	<i>Carex socialis</i>	social sedge	ST
Vascular Plants	sedge	<i>Carex straminea</i>	straw sedge	ST
Vascular Plants	sedge	<i>Carex timida</i>	timid sedge	SE
Vascular Plants	sedge	<i>Carex viridistellata</i>	green star sedge	SE
Vascular Plants	sedge	<i>Cyperus dentatus</i>	toothed sedge	SE
Vascular Plants	sedge	<i>Cyperus houghtonii</i>	Houghton's nutsedge	SE
Vascular Plants	sedge	<i>Cyperus pseudovegetus</i>	green flatsedge	ST
Vascular Plants	sedge	<i>Eleocharis atropurpurea</i>	purple spikerush	SE
Vascular Plants	sedge	<i>Eleocharis bifida</i>	glades spikerush	SE
Vascular Plants	sedge	<i>Eleocharis equisetoides</i>	horse-tail spikerush	SE
Vascular Plants	sedge	<i>Eleocharis geniculata</i>	capitate spike-rush	ST

Taxa	Group	Scientific Name	Common Name	Status
Vascular Plants	sedge	<i>Eleocharis melanocarpa</i>	black-fruited spike-rush	ST
Vascular Plants	sedge	<i>Eleocharis microcarpa</i>	small-fruited spike-rush	SE
Vascular Plants	sedge	<i>Eleocharis robbinsii</i>	Robbins' spike-rush	ST
Vascular Plants	sedge	<i>Eleocharis wolfii</i>	Wolf's spike-rush	ST
Vascular Plants	sedge	<i>Eriophorum angustifolium</i>	narrow-leaved cotton-grass	ST
Vascular Plants	sedge	<i>Eriophorum gracile</i>	slender cotton-grass	ST
Vascular Plants	sedge	<i>Eriophorum tenellum</i>	rough cotton-grass	SE
Vascular Plants	sedge	<i>Eriophorum viridicarinatum</i>	green-keeled cotton-grass	ST
Vascular Plants	sedge	<i>Fimbristylis annua</i>	annual fimbry	SE
Vascular Plants	sedge	<i>Fimbristylis puberula</i>	Carolina fimbry	SE
Vascular Plants	sedge	<i>Fuirena pumila</i>	dwarf umbrella-sedge	ST
Vascular Plants	sedge	<i>Lipocarpa drummondii</i>	Drummond's hemicarpha	SE
Vascular Plants	sedge	<i>Rhynchospora corniculata</i>	short-bristle hornedrush	ST
Vascular Plants	sedge	<i>Rhynchospora macrostachya</i>	tall beaked-rush	ST
Vascular Plants	sedge	<i>Rhynchospora nitens</i>	short-beaked bald-rush	SE
Vascular Plants	sedge	<i>Rhynchospora recognita</i>	globe beaked-rush	SE
Vascular Plants	sedge	<i>Rhynchospora scirpoides</i>	long-beaked baldrush	ST
Vascular Plants	sedge	<i>Schoenoplectiella hallii</i>	Hall's bulrush	SE
Vascular Plants	sedge	<i>Schoenoplectiella purshiana</i>	weakstalk bulrush	ST
Vascular Plants	sedge	<i>Schoenoplectiella smithii</i>	Smith's Bulrush	ST
Vascular Plants	sedge	<i>Schoenoplectus subterminalis</i>	water bulrush	ST
Vascular Plants	sedge	<i>Schoenoplectus torreyi</i>	Torrey's Bulrush	SE
Vascular Plants	sedge	<i>Scirpus expansus</i>	bulrush	SE
Vascular Plants	sedge	<i>Scleria muehlenbergii</i>	Muehlenberg's nutrush	SE
Vascular Plants	sedge	<i>Scleria reticularis</i>	reticulated nutrush	ST
Vascular Plants	shrub	<i>Amelanchier humilis</i>	running serviceberry	SE
Vascular Plants	shrub	<i>Andromeda glaucophylla</i>	bog rosemary	ST
Vascular Plants	shrub	<i>Aralia hispida</i>	bristly sarsaparilla	SE
Vascular Plants	shrub	<i>Arctostaphylos uva-ursi</i>	bearberry	ST
Vascular Plants	shrub	<i>Berberis canadensis</i>	American barberry	SE
Vascular Plants	shrub	<i>Ceanothus herbaceus</i>	prairie redroot	SE
Vascular Plants	shrub	<i>Cornus amomum ssp. amomum</i>	silky dogwood	SE
Vascular Plants	shrub	<i>Cornus rugosa</i>	roundleaf dogwood	ST
Vascular Plants	shrub	<i>Hudsonia tomentosa</i>	sand-heather	ST

Taxa	Group	Scientific Name	Common Name	Status
Vascular Plants	shrub	<i>Hypericum swinkianum</i>	Swink's St. John's-wort	SE
Vascular Plants	shrub	<i>Ilex mucronata</i>	mountain holly	ST
Vascular Plants	shrub	<i>Itea virginica</i>	Virginia willow	SE
Vascular Plants	shrub	<i>Juniperus communis var. depressa</i>	ground juniper	ST
Vascular Plants	shrub	<i>Kalmia latifolia</i>	mountain laurel	ST
Vascular Plants	shrub	<i>Lonicera canadensis</i>	American fly-honeysuckle	SE
Vascular Plants	shrub	<i>Quercus prinoides</i>	dwarf chinquapin oak	SE
Vascular Plants	shrub	<i>Rhus aromatica var. arenaria</i>	beach sumac	ST
Vascular Plants	shrub	<i>Rubus odoratus</i>	purple flowering raspberry	ST
Vascular Plants	shrub	<i>Rubus setosus</i>	small bristleberry	SE
Vascular Plants	shrub	<i>Salix cordata</i>	heartleaf willow	SE
Vascular Plants	shrub	<i>Salix serissima</i>	autumn willow	ST
Vascular Plants	shrub	<i>Sideroxylon lycioides</i>	buckthorn bumelia	SE
Vascular Plants	shrub	<i>Styrax americanus</i>	American snowbell	ST
Vascular Plants	shrub	<i>Styrax grandifolius</i>	large-leaf snowbell	SE
Vascular Plants	shrub	<i>Taxus canadensis</i>	American yew	SE
Vascular Plants	shrub	<i>Vaccinium macrocarpon</i>	large cranberry	ST
Vascular Plants	shrub	<i>Vaccinium myrtilloides</i>	velvetleaf blueberry	SE
Vascular Plants	shrub	<i>Vaccinium oxycoccos</i>	small cranberry	ST
Vascular Plants	shrub	<i>Viburnum cassinoides</i>	northern wild-raisin	SE
Vascular Plants	shrub	<i>Viburnum molle</i>	softleaf arrow-wood	ST
Vascular Plants	shrub	<i>Viburnum opulus var. americanum</i>	highbush-cranberry	SE
Vascular Plants	tree	<i>Betula papyrifera</i>	paper birch	ST
Vascular Plants	tree	<i>Carya pallida</i>	sand hickory	SE
Vascular Plants	tree	<i>Castanea dentata</i>	American chestnut	SE
Vascular Plants	tree	<i>Catalpa speciosa</i>	northern catalpa	ST
Vascular Plants	tree	<i>Cladrastis kentukea</i>	yellowwood	SE
Vascular Plants	tree	<i>Crataegus chrysocarpa</i>	fireberry hawthorn	SE
Vascular Plants	tree	<i>Crataegus coccinea var. coccinea</i>	scarlet hawthorn	ST
Vascular Plants	tree	<i>Crataegus intricata</i>	Copenhagen hawthorn	ST
Vascular Plants	tree	<i>Crataegus iracunda</i>	Illinois hawthorn	SE
Vascular Plants	tree	<i>Crataegus succulenta var. succulenta</i>	fleshy hawthorn	ST
Vascular Plants	tree	<i>Crataegus viridis var. viridis</i>	green hawthorn	ST
Vascular Plants	tree	<i>Gleditsia aquatica</i>	water-locust	SE
Vascular Plants	tree	<i>Juglans cinerea</i>	butternut	ST

Taxa	Group	Scientific Name	Common Name	Status
Vascular Plants	tree	<i>Larix laricina</i>	tamarack	ST
Vascular Plants	tree	<i>Magnolia acuminata</i>	cucumber magnolia	SE
Vascular Plants	tree	<i>Magnolia tripetala</i>	umbrella magnolia	SE
Vascular Plants	tree	<i>Oxydendrum arboreum</i>	sourwood	ST
Vascular Plants	tree	<i>Pinus banksiana</i>	jack pine	ST
Vascular Plants	tree	<i>Pinus strobus</i>	eastern white pine	ST
Vascular Plants	tree	<i>Populus balsamifera</i>	balsam poplar	SE
Vascular Plants	tree	<i>Prunus pensylvanica</i>	fire cherry	ST
Vascular Plants	tree	<i>Taxodium distichum var. distichum</i>	bald cypress	ST
Vascular Plants	tree	<i>Thuja occidentalis</i>	northern white cedar	SE
Vascular Plants	vine	<i>Calycocarpum lyonii</i>	cup-seed	ST
Vascular Plants	vine	<i>Clematis pitcheri</i>	Pitcher's leather-flower	ST
Vascular Plants	vine	<i>Cuscuta cuspidata</i>	cuspid dodder	SE
Vascular Plants	vine	<i>Cuscuta indecora</i>	pretty dodder	SE
Vascular Plants	vine	<i>Gonolobus suberosus</i>	angular-fruited milkvine	ST
Vascular Plants	vine	<i>Lathyrus japonicus</i>	beach peavine	SE
Vascular Plants	vine	<i>Lathyrus ochroleucus</i>	pale vetchling peavine	SE
Vascular Plants	vine	<i>Lathyrus venosus</i>	smooth veiny pea	SE
Vascular Plants	vine	<i>Matelea obliqua</i>	angle pod	ST
Vascular Plants	vine	<i>Melothria pendula</i>	creeping cucumber	ST
Vascular Plants	vine	<i>Mikania scandens</i>	climbing hempweed	SE
Vascular Plants	vine	<i>Thyrsanthella difformis</i>	climbing dogbane	ST
Vascular Plants	vine	<i>Vitis palmata</i>	catbird grape	ST
Vascular Plants	vine	<i>Vitis rupestris</i>	sand grape	SE
Vascular Plants	vine	<i>Wisteria frutescens</i>	American wisteria	ST

FE= Federally endangered; FT=Federally threatened; SE=State endangered; ST=State threatened; SC=Special concern; SRE=Native species reintroduced to the state

Changes to the SGCN List

In order to conserve SGCN and the broader array of wildlife in Indiana, the DFW uses all the tools of a modern scientific management program, including surveys and monitoring, research, population and habitat management, education, land acquisition, and regulation. By virtue of being rare or occupying remote or inaccessible habitats, scientific information is limited for many SGCN, and some continue to go undetected. SGCN lists are subject to change as more knowledge about the species distribution and abundance becomes available. The following changes have occurred to the SGCN list since the 2005 Comprehensive Wildlife Strategy was published:

Table 5-2. Changes to the status of Indiana's wildlife, fish, and mollusk SGCN since 2005.

Level	Direction	Change	Species
Federal	Elevated	No Status › FT	Eastern Massasauga
			Rabbitsfoot
		No Status › FT	Rufa Red Knot ¹
			Northern Long-eared Myotis
		No Status › FE	Snuffbox
		FT › FE	Rufa Red Knot ¹
		FC › FE	Sheepnose Rayed Bean
	Delisted	FE › extirpated	Tuberclad blossom
		FT › No Status	Bald Eagle
FE › No Status		Least Tern	

Level	Direction	Change	Species
State	Downlisted	SC › No Status	River Otter Bobcat Eastern Spadefoot Northern Leopard Frog Red-shouldered Hawk Longnose Sucker Ohio River Muskellunge Lake Whitefish Cypress Darter Tippecanoe Darter Bald Eagle Ellipse
		SE › SC	Osprey Bald Eagle Peregrine Falcon Southeastern Myotis Four-toed Salamander Red-bellied Mudsake Northern Brook Lamprey
	Elevated	No Status › SC	Ruddy Turnstone ² Buff-breasted Sandpiper ² Short-billed Dowitcher ² Wilson's Phalarope ² American Golden-plover ² Greater Yellowlegs ² Solitary Sandpiper ² Eastern Small-footed Myotis Blanchard's Cricket Frog Streamside Salamander Eastern Box Turtle Plains Gartersnake Rufa Red Knot ¹ Ruffed Grouse Northern Bobwhite American Woodcock American Eel American Black Bear Hudsonian Godwit Long-eared Owl Grasshopper Sparrow Black-billed Cuckoo Slippershell Mussel

		Elephantear Spike Pocketbook Black Sandshell Ebonyshell Rainbow Texas lilliput False Map Turtle
	No Status › SE	Mole Salamander
	SC › SE	Northern Long-eared Myotis Little Brown Myotis Tricolored Bat Cerulean Warbler Plains Leopard Frog Round Hickorynut Rayed Bean Rufa Red Knot ¹ Cisco Western Sand Darter Ruffed Grouse
Delisted	SE › SX	Tubercled Blossom Longsolid Pink Mucket White Wartyback Orangefoot Pimpleback Pyramid Pigtoe Snuffbox

¹Elevated in 2014 to FT/SC and in 2018 to FE/SE

²A suite of migratory bird species were listed as special concern to represent the needs of migratory species throughout the state.

In the Species Survey, technical experts were prompted to give their recommendations for additions to or deletions from the SGCN list, along with reasoning or data to support their recommendations. Many thorough responses were received, and all responses will be passed to the TACs for consideration in their next review of the SGCN list. For the full text of responses to these survey questions, see Appendix O.

Distribution of SGCN Across Planning Region and Habitats Assists with Setting Regional Priorities

The distribution of the current 595 SGCN by SWAP Planning region is uneven (Figure 5-1a). Some of the unevenness can be accounted for by the following factors: the degree to which an area has been sampled for SGCN, the amount of land with unique habitat types that has been conserved within each planning region, the diversity of habitats in the planning region, and the size of the planning region itself. While it is true that one species' distribution can overlap multiple planning regions, and thus be counted twice in Figure 5-1a, this summary can be a useful starting point for future conservation planning efforts by SWAP planning regions. No singular SWAP region stands out across all taxa for containing the highest number of listed species records. Often, there were multiple regions that tied for the number of listed species records. In the upcoming 2025 revision, we will consider how to better capture and represent the unique assemblages of species represented in each SWAP planning region. Chapter VI includes descriptions and maps of Indiana's SWAP planning regions; Appendices H-L includes additional information on distribution of SGCN across planning regions, except for vascular plants.

The distribution of SGCN across habitat types is also uneven (Figure 5-1b). Forests have at least one record of 79% of the species on the SGCN list, followed by 60% of SGCN species recorded in wetlands. This distribution also likely reflects the relative proportion of each habitat type within the state and the proportion of unique subhabitat types within this very coarse habitat type definition. The distribution of SGCN across habitat types is likely a more informative way of understanding the future conservation needs in Indiana. For example, 47% of SGCN species have been documented as occurring on agricultural lands and given the significant proportion of the state in this habitat type, further investigation may reveal conservation possibility for the species that use this habitat type across Indiana. This analysis suggests that incorporating vascular plants and habitats into a more complete community-based understanding of the distribution of SGCN may be a fruitful approach for future conservation planning efforts. A complete list of distribution of SGCN across habitat and subhabitat types, with the exception of vascular plants, can be found in Appendix G and a complete list of habitat and subhabitat definitions can be found in Appendix D.

The distribution of SGCN plants across planning regions and habitat types throughout the state is illustrated in Figures 5-1a and 5-1b. Associating SGCN plants with their respective habitat types is useful in promoting and informing management and conservation of rare habitats. In addition, understanding where rare plant species occur throughout the state allows planning regions to take plants into consideration when shaping regional priorities.

The Division of Nature Preserves and the INHDC conduct surveys of many SGCN plants on a continual basis and the results of these monitoring efforts will inform future management and conservation planning decisions. INHDC

strives to survey each SGCN occurrence record at least every 20 years, if not more frequently. Incorporating the information gathered from these surveys and the addition of plant SGCN to the State Wildlife Action Plan will facilitate a wider perspective of wildlife conservation.

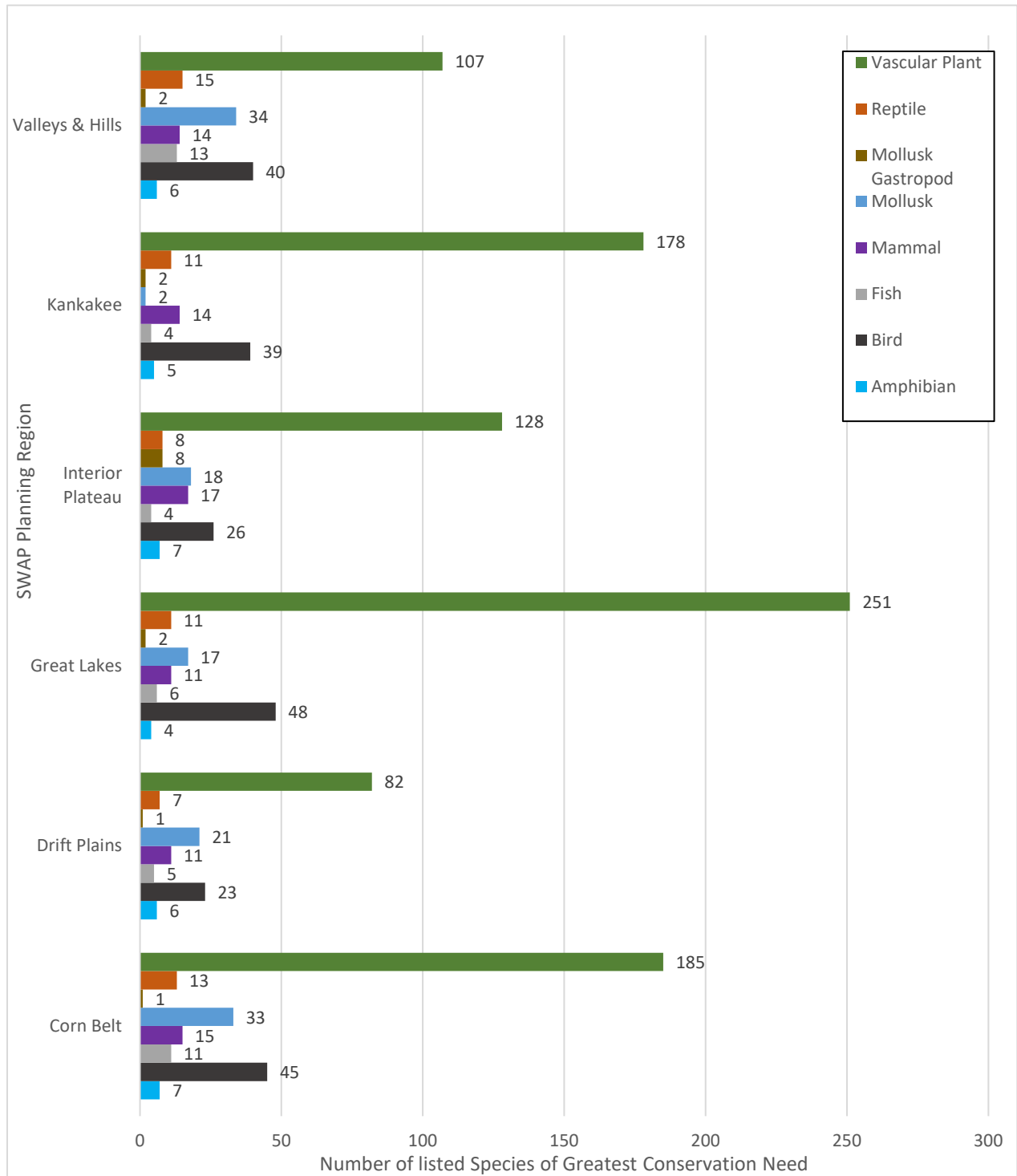


Figure 5-1a Summary of listed SGCN by SWAP Planning Region

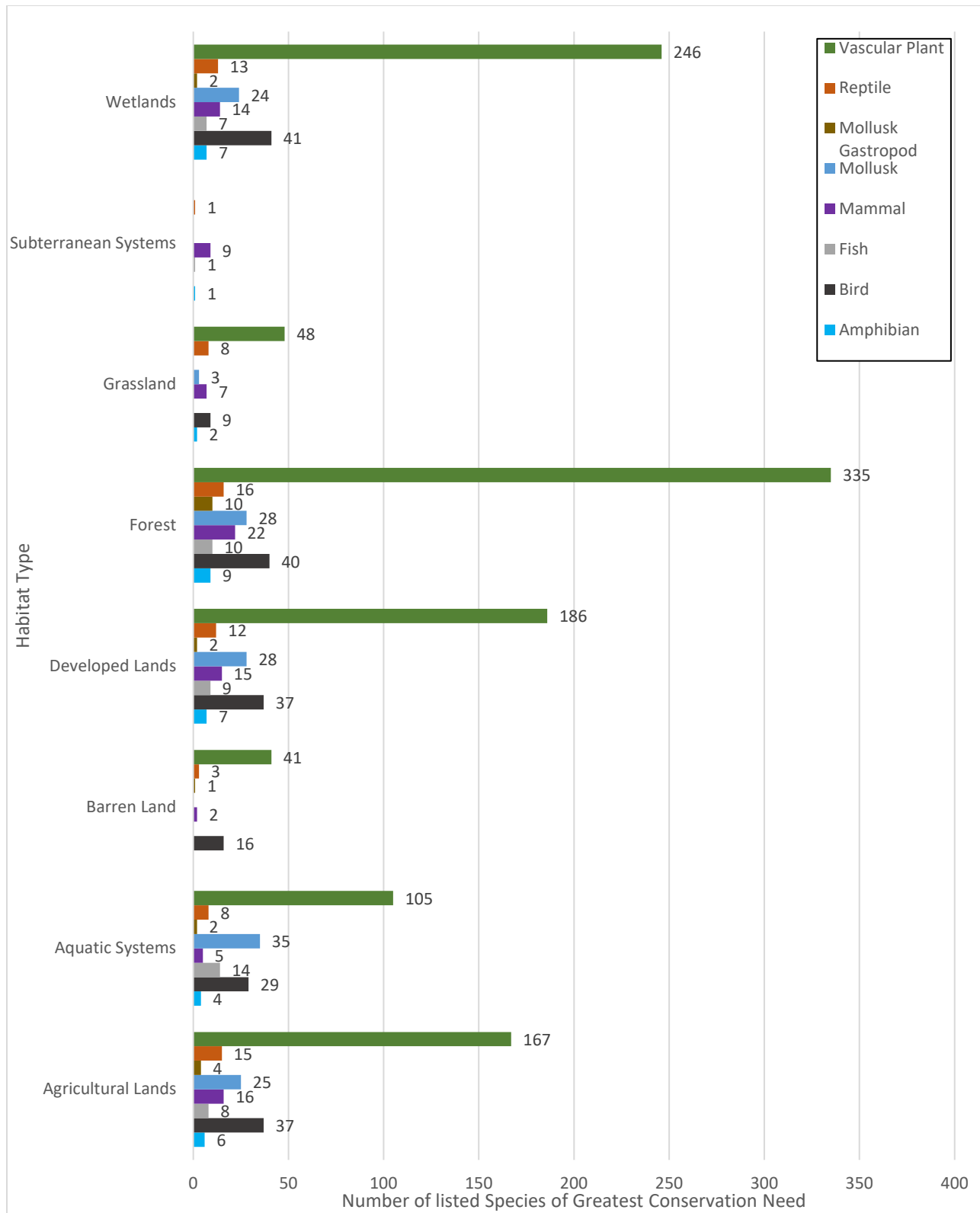


Figure 5-1b Summary of Listed SGCN by Habitat Type