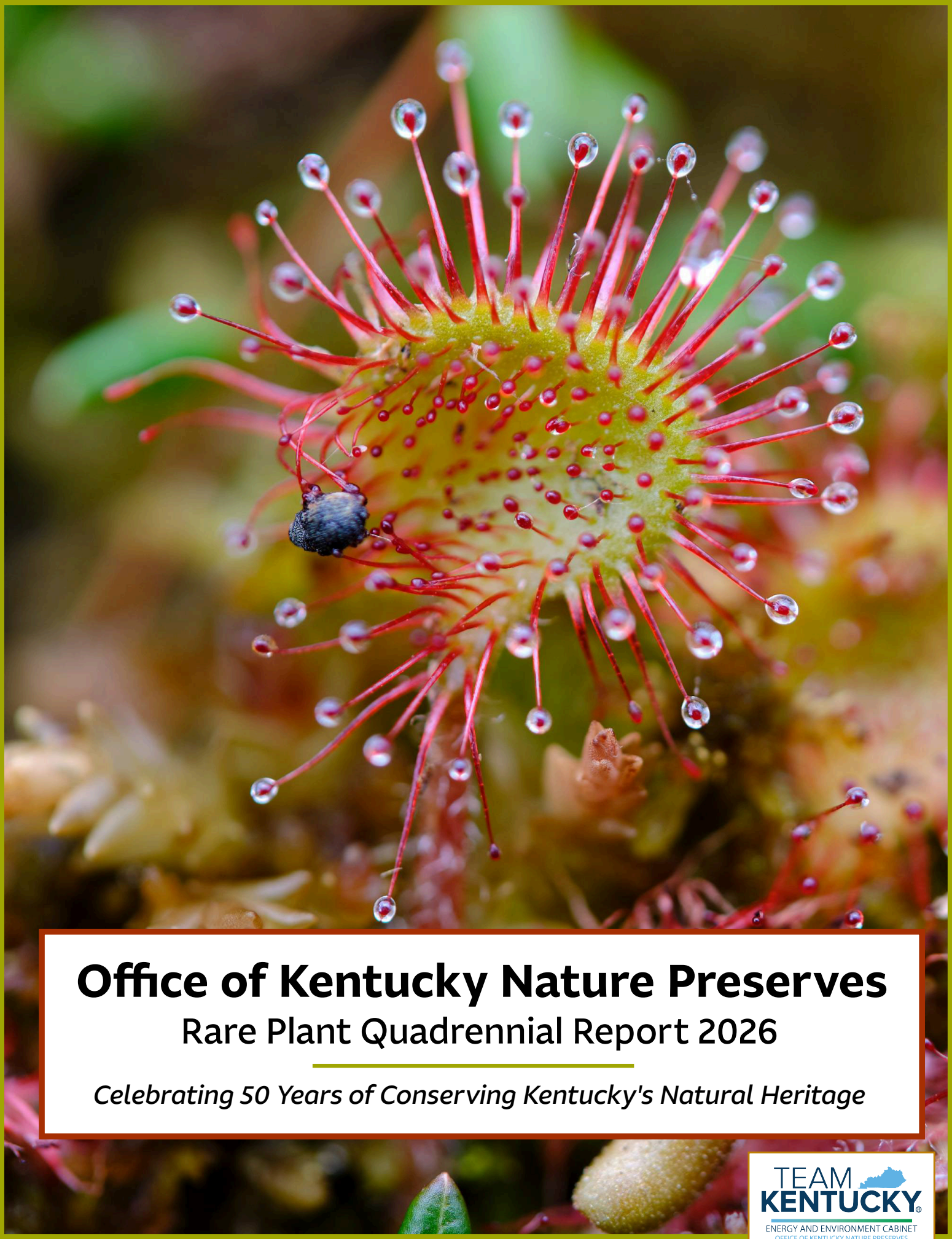


# Office of Kentucky Nature Preserves

## Rare Plant Quadrennial Report 2026

*Celebrating 50 Years of Conserving Kentucky's Natural Heritage*

TEAM KENTUCKY®
ENERGY AND ENVIRONMENT CABINET
OFFICE OF KENTUCKY NATURE PRESERVES

# TABLE OF CONTENTS


**Office of Kentucky Nature Preserves**.....1
**Kentucky Rare Plant Status and Assessment**.....2
- Importance of Plant Conservation.....2
- Overview of Kentucky's Plant Diversity.....2
- OKNP is the Threatened and Endangered Plant Authority in Kentucky.....3
- Assessing the Conservation Status of Kentucky Plants.....3
- 2026 Kentucky Rare Plant List.....5
- Botanical Discoveries and Significant Updates.....6
- Kentucky State Wildlife Action Plan (SWAP).....7
- Rare Plant and Natural Community Database.....8
- Ex Situ Conservation and Plant Translocations.....9

**From Assessment to Recovery: Conservation Highlights**.....10
- Rare Plant Recovery.....10
- White Fringeless Orchid.....10
- Kentucky Clover.....11
- Globe Bladderpod.....11
- Short's Goldenrod.....12

**State-wide Inventory, Monitoring, and Natural Communities**.....13
- Natural Areas Inventory and Rare Plant Monitoring.....13
- Natural Community Classification.....14
- Species of Commercial Concern and Forest Biodiversity.....16
- Roadside Pollinator Habitat Conservation.....17

**Partnerships Supporting Rare Plant Conservation**.....18
- Endangered Species Act Section 6.....18
- Successful Recovery and Delisting.....18
- Current Federally Listed Plant Recovery Projects.....18
- State-wide and Regional Plant Conservation Networks.....19

**Public Information and Botanical Engagement**.....20
- Annual Kentucky Botanical Symposium.....20
- iNaturalist.....20
- Reports and Publications.....20
- Media Coverage.....20
- Scientific Publications.....20

**OKNP Staff**.....21
**Conservation Collaboration Acknowledgment**.....25
**Rare Plant List**.....26
**Appendix I: Rare Plant List**.....27

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TEAM KENTUCKY®

ENERGY AND ENVIRONMENT CABINET

OFFICE OF KENTUCKY NATURE PRESERVES

Kentucky Heritage Land Conservation Fund




**This report is submitted to the Governor and the General Assembly as directed by KRS 146 relating to the Rare Plant Recognition Act.**

# Kentucky Rare Plant Status and Assessment

***Importance of Plant Conservation***

***Plants form the foundation of life on Earth. They support food webs, regulate climate, protect soil and water, and provide the habitats on which wildlife depends. Plants are also essential to people, providing food, medicine, materials, and many of the natural places that define our landscapes. Yet plants are increasingly threatened by habitat loss, altered disturbance regimes, invasive species, excessive herbivory, and other pressures. Roughly one-third of plant species globally are considered rare, threatened, or endangered, and Kentucky faces many of the same challenges.***

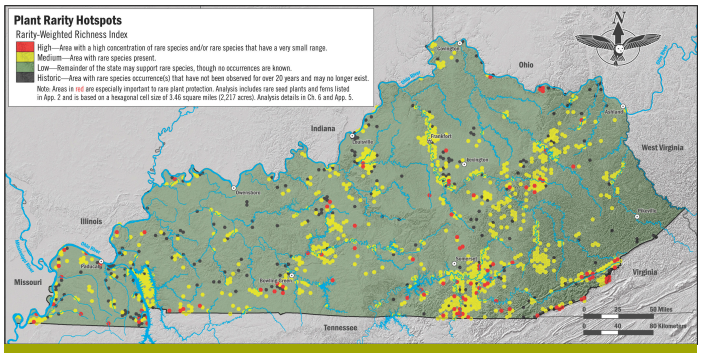
***The Office of Kentucky Nature Preserves (OKNP) works to identify and track Kentucky's rarest plants, understand the threats they face, and take conservation action to prevent further decline and extinction. On our natural areas, this includes protecting habitat, restoring natural disturbance processes, controlling invasive species, and using long-term monitoring to guide management.***

## Overview of Kentucky's Plant Diversity

Kentucky has 3,002 vascular plant species and lesser taxa documented in the state; approximately 73% (2,178 species) are native plants and 27% (824 species) are non-native or naturalized. Kentucky also has 587 non-vascular plants of mosses, liverworts, and hornworts. Kentucky's geographic position on the continent contains portions of the Appalachian Plateau, Interior Low Plateaus, and Coastal Plain Physiographic Provinces. This diverse physiography allows multiple floristic influences to overlap, yielding a plethora of plant life.

Kentucky contains several exceptional botanical hotspots from east to west like the high elevations of the Cumberland Mountains, the gorges of the Cumberland Plateau, the Kentucky River Palisades, the shaley slopes of the Knobs, grasslands of the Highland Rim and Shawnee Hills, and swamps of the Jackson Purchase.

Kentucky is home to nine federally listed plants and at least 94 globally rare plants. Most plants of conservation concern found in the state are "edge of range" species that may hold unique genetic makeup, but more globally rare plants also occur here as well like narrow and regional endemics. Endemic plants are those that occur within a limited geographic range and it is common for multiple endemic species regionally or ecologically co-occur. Kentucky's areas of endemism occur mainly in the dolomite glades and forests of the Kentucky River in the bluegrass, the Appalachian Plateau, and woodlands of the eastern Knobs, and grasslands of the Pennyroyal Plain, though investigations are always seeking undiscovered hotspots.




**Map of Kentucky's plant rarity hotspots**

# Kentucky Rare Plant Status and Assessment

## OKNP is the Threatened and Endangered Plant Authority in Kentucky

*Kentucky Rare Plant Recognition Act. KRS 146.600*

The Kentucky Energy and Environment Cabinet, through OKNP, is the listing authority for plants. The ability to legally list plants as threatened or endangered is derived from the Rare Plant Recognition Act of 1994.

The General Assembly finds and declares that it is the policy of the Commonwealth to recognize endangered and threatened species of plants for human enjoyment, for scientific purposes, and to ensure their perpetuation as viable components of their ecosystems for the benefit of the people of Kentucky.

## Assessing the Conservation Status of Kentucky Plants

OKNP is the clearinghouse for native plant information in Kentucky and has created the only plant conservation program in Kentucky state government. The primary function of this program is to legally recognize threatened and endangered plants and ensure their perpetuation as viable components of their ecosystems. In order to fulfill these obligations, OKNP's plant conservation program maintains a rare plant database that tracks populations of threatened and endangered plants, along with plants belonging to lower-priority conservation statuses (special concern, commercially exploited, watch list, historic, and extirpated) that may become threatened or endangered in the near future, though watch list plants are excluded from the rare plant list. The rare plant list then serves as the backbone of plant conservation prioritization.

We publish the state rare plant list every 4 years in accordance with the Act, which allows for constant revision as new data and new scientific understanding become available. The two main sources of influence for the rare plant list are professional expertise and data. OKNP botanical experts rely heavily on collaboration with partners across the state in academia, state and federal agencies, land trusts, and non-profits to help in the assessments of conservation statuses and ranks for plants. A committee of experts, including several OKNP botanists, participated in the 2026 Rare Plant Committee, which reviewed conservation statuses and ranks for the vascular plants of Kentucky.

The rare plant database serves as the primary data source for the assessments, but we also consult additional resources like plant specimens, online plant atlases, and other publicly available biodiversity data. This collective dataset is then analyzed using NatureServe's core methodology, a scientifically and empirically based method for rare species data collection and analysis. It calls for consideration of 11 weighted factors across four categories:

1) **Rarity** (area of occupancy, range extent, population size, number of occurrences, number of occurrences with good viability, environmental specificity)

2) **Threats** (overall threat impact, intrinsic vulnerability)

3) **Trends** (long term and short term)

4) **Other** (number of protected and managed occurrences).

These factors help calculate a conservation rank, which is a NatureServe standardized five point scale of conservation priority use across the NatureServe Network. Definitions of conservation ranks very closely match definitions of conservation statuses recognized by OKNP, so calculating ranks greatly informs the status recognition of plants as endangered, threatened, or other statuses. Table 1 defines each conservation status.

# Kentucky Rare Plant Status and Assessment

## Assessing the Conservation Status of Kentucky Plants (cont.)

| Table 1. OKNP Definition of Kentucky Conservation Status | |
|---|---|
| **Kentucky Conservation Status** | **Definition** |
| Endangered (E) | A taxon or natural community in danger of extirpation and/or extinction throughout all or a significant part of its range in Kentucky (generally 5 or less populations or up to 10-15 populations with significant declines, threats, or a small total population). |
| Threatened (T) | A taxon or natural community likely to become endangered within the foreseeable future throughout all or a significant part of its range in Kentucky (generally 10-20 populations or up to 30 population with significant declines, threats or a small total population). |
| Special Concern (S) | A taxon or natural community that should be monitored because (1) it exists in a limited geographic area in Kentucky, (2) it may be-come threatened or endangered due to modification or destruction of habitat, (3) certain characteristics or requirements make it especially vulnerable to specific pressures, (4) experienced re-searchers have identified other factors that may jeopardize it, or (5) it is thought to be rare or declining in Kentucky but insufficient information exists for assignment to the threatened or endangered status categories (generally 20-100 populations). |
| Commercially Exploited (CE) | A commercially harvested taxon that is declining substantially due to harvesting practices, especially unsustainable harvest and poaching. |
| Watch List (W) | A taxon likely to become special concern within the foreseeable future throughout all or a significant part of its range in Kentucky. It is also used for plants that appear to be endangered, threatened, or special concern, but have ongoing taxonomic issues or lack sufficient data to recognize them with a higher conservation status. Though tracked by OKNP, these plants are excluded from the rare plant list. |
| Historic (H) | A taxon or natural community that has not been reliably reported in Kentucky in 20 or more years but is not considered extinct or extirpated--see next designation. |
| Extirpated (X) | A taxon for which habitat loss has been pervasive and/or concert-ed efforts by knowledgeable biologists to collect or observe specimens within appropriate habitat have failed. Extinct species are those that have been eliminated throughout their entire range and extirpated species are those that have been eliminated from a jurisdiction (i.e., nation or state/province). |

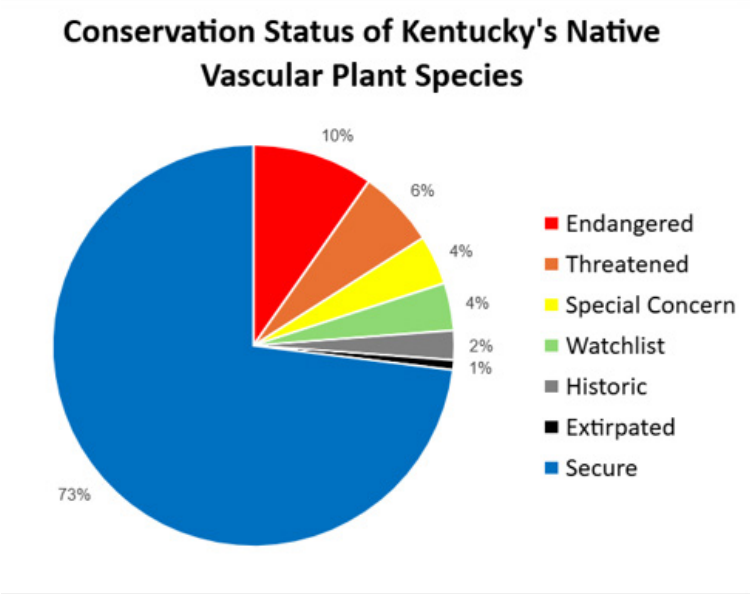
# Kentucky Rare Plant Status and Assessment

## 2026 Kentucky Rare Plant List

In 2026, we revised our rare plant list for Kentucky. It can be accessed on our website and is attached in Appendix I. This list includes vascular and non-vascular plants and is arranged according to those groups including endangered, threatened, special concern, commercially exploited, historic and extirpated plants. Table 2 summarizes the resulting number of taxa within each conservation status for Kentucky with 246 endangered species and 161 threatened species across all plant groups.

Plant taxonomy and nomenclature of vascular plants of Kentucky were comprehensively updated in the rare plant database and rare plant list, but are subject to continued revision with emerging scientific understanding. Currently, we track 211 state endangered vascular plants and 135 state threatened vascular plants, along with an additional 239 vascular plants of conservation concern, including 88 special concern (including 2 commercially exploited), 83 watch list, 51 historic, and 17 extirpated. Non-vascular plants consist of 35 endangered and 26 threatened taxa along with an additional 22 species of conservation concern, including 15 special concern, 5 watch list, and 2 historic.

A total of 20 taxa were added as endangered




### Conservation Status of Kentucky's Plants

with 4 historic taxa being discovered as extant, 2 new state records added, 14 taxa elevated from threatened or lower statuses. A total of 13 taxa were added as threatened with 9 of those downlisted from endangered and 4 elevated from special concern or non-listed. A total of 17 taxa were added as special concern with 3 downlisted from threatened and 14 elevated from watchlist or non-listed. A total of 8 taxa were added as historic with 4 not seen in over 20 years and 4 based on recently emerged old specimens from online databases. A total of 12 taxa were removed from the rare plant list with four misidentified taxa falsely reported in the past and 7 determined to be more abundant and no longer in need of concern.

**Table 2: Summary of the Conservation Status of Kentucky Plants**

| Taxonomic Group | Total Number of Native Taxa in KY | Kentucky Status | | | | | | | U.S. Status | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Secure | E | T | S | W | H | X | E | T |
| Vascular Plants | 2,166 | 1,581 | 211 | 135 | 88 | 83 | 51 | 47 | 4 | 5 |
| Non-Vascular Plants | 587 | 504 | 35 | 26 | 15 | 5 | 2 | 0 | 0 | 0 |

# Kentucky Rare Plant Status and Assessment

## Botanical Discoveries and Significant Updates

### State Records - Roundleaf Sundew and Wolf's Spikerush




**Roundleaf Sundew (*Drosera rotundifolia*)**

In 2023, OKNP botanists discovered the first known population of the Roundleaf Sundew (*Drosera rotundifolia*) in Kentucky. It was found in a remote gorge in the Cumberland Plateau on a sunny, wet cliff above a stream clinging to small, moss-covered cracks in the sandstone bedrock. This exciting find documents the third species of this carnivorous genus and is remarkable for being a southern extension of the species' otherwise northern range.

In 2026, OKNP botanists discovered a population of Wolf's Spikerush (*Eleocharis wolfii*) for the first time in Kentucky. This globally uncommon and conservative grass-like plant of wet grasslands of eastern North America was documented for the first time from high quality wet oak flatwoods of western Kentucky.

### New Records of Historic and Globally Rare Species



**Woolly Sedge (*Carex pellita*)**
Rediscovered after 50 years
Photo: Devin Rodgers



**Cow-parsnip (*Heracleum lanatum*)**
Rediscovered after 27 years
Photo: Vanessa Voelker



**Pale Umbrella-wort (*Mirabilis albida*)**
Rediscovered after 40 years
Photo: Vanessa Voelker



**Marsh-bellflower (*Palustricodon aparinoides*)**
Rediscovered after 40 years
Photo: Vanessa Voelker



**Pale False Foxglove (*Agalinis skinneriana*)**
Rediscovered after 30 years
Photo: Devin Rodgers



**Allegheny vine (*Adlumia fungosa*)**
Rediscovered after 40 years
Photo: Devin Rodgers



**Appalachian Bugbane (*Actaea rubifolia*)**
Two new populations, one a 120+ mile range extension to the east
Photo: Devin Rodgers



**White Fringeless Orchid (*Platanthera integrilabia*)**
New population of Globally Rare Taxa
Photo: Tara Littlefield



**Globe Bladderpod (*Physaria globosa*)**
New population of Globally Rare Taxa
Photo: Thomas Barnes



**Rockcastle aster (*Eurybia saxicastellii*)**
New record for Cumberland River and new record for Marsh Creek
Photo: Thomas Barnes

# Kentucky Rare Plant Status and Assessment

## Kentucky State Wildlife Action Plan (SWAP)

***Kentucky's state wildlife action plan summarizes the status of our state's more vulnerable wildlife and plant species and the condition of habitat on which they depend. It is a blueprint to drive conservation priorities and decision-making, developed by partners and approved by the U.S. Fish and Wildlife Service. Action plans are adaptive: regularly reviewed and updated to keep current with emerging issues.***

***During the 2023 SWAP revision, species specialists identified 527 species of greatest conservation need , including freshwater mussels, fishes, crayfish, songbirds, reptiles, turtles, amphibians, mammals, insects, and for the very first time, plants.***

## Plant Conservation and SWAP

Since 2005, Kentucky's SWAP has guided and informed strategic habitat acquisition, cooperative habitat restoration projects, species reintroductions, defined service areas for stream and wetland mitigation, and informed research and status assessments. State conservation partners have used Kentucky's SWAP to leverage grant monies to fund activities such as:

- Land Acquisition
- Site Protection
- Habitat Enhancement and Restoration
- Status Assessments
- Disease Surveillance
- Data Management
- Site Management
- Surveys and Monitoring
- Research
- Captive Propagation
- Species Reintroduction

The addition of rare plants to Kentucky's SWAP is an important step forward for plant conservation in the Commonwealth. It more fully integrates plants into statewide conservation planning and creates new opportunities to coordinate funding, habitat management, research, and recovery efforts across agencies and partners. Including plants alongside wildlife also recognizes that many of Kentucky's rarest species depend on the same high-quality natural communities and conservation landscapes.

To view plant species added to SWAP, go to Appendix I at the end of this report.

Visit **fw.ky.gov/kyswap** to learn more.




**Kentucky Lady's Slipper (*Cypripedium kentuckiense*)**




**Limestone Fameflower (*Phemeranthus calcaricus*)**




**Sweet Pinesap (*Monotropsis odorata*)**



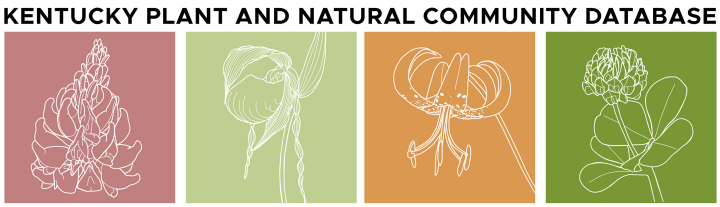

**Royal Catchfly (*Silene regia*)**

# Kentucky Rare Plant Status and Assessment

## Rare Plant and Natural Community Database

***Developed by the OKNP, this free online database provides information on plants (currently only rare plants) and all natural communities known for Kentucky. OKNP designates Endangered and Threatened plant species for Kentucky, is the Section 6 cooperator for plants listed as Endangered or Threatened by the U.S. Endangered Species Act, maintains a list of plants that grow naturally in the wild in Kentucky along with their conservation ranks as a member of the NatureServe Network, and maintains a classification of the natural communities for Kentucky. To fulfill these and other statutory obligations, OKNP maintains the Kentucky Natural Heritage Database with information on species and ecosystems along with a geodatabase of their locations and viability using the most accurate, updated, and available scientific data and knowledge.***

## New and Improved Website for Rare Plant and Natural Community Database




OKNP has released an update to our free online database of all of Kentucky's rare plant species and all natural communities that occur in the state.

Users can access comprehensive information on the state's natural communities and rare plants, such as

- Official lists of all the state's natural communities, rare plants, federally listed plants, state endangered and threatened plants, globally rare plants, globally rare natural communities, non-native invasive plants and Kentucky's current flora
- Global, federal, and state conservation statuses
- Species and natural community physical descriptions that include photography, duration, growth habit and phenology
- Distribution data that includes range maps, global ranges and natural regions
- Ecology and conservation information such as habitat, associated natural communities, associated pollinators, wetland indicator status, coefficient of conservatism, seed storage, propagation notes and management considerations

The Rare Plant and Natural Community Database has made searching for information easier than ever. Search for rare plants and natural communities using the following filters

- Scientific name
- Common Name
- Plant Family (Plant only)
- Classification
- County
- Natural Region
- Growth Habit (Plant only)
- Ecological Guild
- State Status
- State Rank
- Federal Status
- Global Rank

Visit **eppcapp.ky.gov/nprareplants** to access the database

# Kentucky Rare Plant Status and Assessment

## Ex-situ Conservation and Plant Translocations

***OKNP works closely with several conservation partners on ex situ conservation strategies that provide further insurance to protect some of the rarest members of Kentucky's botanical heritage. Collaborative activities include seed banking, genetic research, rare plant propagation, and translocation of rare plant populations. Translocation includes introductions, re-introductions, and augmentation (adding or moving plant seeds of propagules within or near an existing population).***

## Growing Role of Translocations in Kentucky

The purpose of translocations is to take a more active step towards recovery by establishing or bolstering existing plant populations and attempting to rescue those slated for destruction or extirpation. Recent efforts include a mix of these goals, but seek to establish healthy populations on high-quality habitat on protected natural areas. Plants like Kentucky Cover, Wood Lily, Canby's Mountain Lover, Prairie Gentian include utilizing plugs or seeds from plants grown in greenhouses or labs by partners before planting while others simply involve moving seed. Since 2022, OKNP has completed 88 translocations for 11 of species across the Commonwealth. To organize and streamline this program, OKNP created a geospatial Translocation Database to organize a rapidly growing ex situ program and better monitor the results.



**Spoonleaf Sundew (*Drosera intermedia*)**
State Endangered
Photo: Thomas Barnes



**Prairie Gentian (*Gentiana puberulenta*)**
State Endangered
Photo: Eric Hunt



**Canby's Mountain Lover (*Paxistima canbyii*)**
Globally Threatened, State Endangered
Photo: Thomas Barnes



**White Fringeless Orchid (*Platanthera integrilabia*)**
Federally Threatened, Globally Threatened, State Endangered
Photo: Thomas Barnes



**Kentucky Clover (*Trifolium kentuckiense*)**
Globally Endangered, State Endangered
Photo: Devin Rodgers



**Running Buffalo Clover (*Trifolium stoloniferum*)**
Previously Federally Endangered, Global Special Concern, State Threatened
Photo: Joe Lacefield



**Wood Lily (*Lilium philadelphicum var. philadelphicum*)**
State Endangered
Photo: Kendall McDonald



**Kentucky Glade Cress (*Leavenworthia exigua var. laciniata*)**
Federally Threatened, Globally Endangered, State Endangered
Photo: Thomas Barnes

# From Assessment to Recovery: Conservation Highlights

## Rare Plant Recovery

***OKNP is Kentucky's botanical authority and has a responsibility to conserve and recover the state's most vulnerable plant species.***

***"The General Assembly finds and declares that it is the policy of the Commonwealth to recognize endangered and threatened species of plants for human enjoyment, for scientific purposes, and to ensure their perpetuation as viable components of their ecosystems for the benefit of the people of Kentucky."***

***Kentucky Rare Plant Recognition Act. KRS 146.600***

## White Fringeless Orchid

White Fringeless Orchid (*Platanthera integrilabia*, WFO) is a federally threatened plant in Kentucky that serves as a flagship species for wetland and pine barren restoration, as well as rare plant recovery efforts across the state. OKNP has been working on the monitoring, management, research, protection, and recovery of this rare orchid since the 1990s.

OKNP conducts annual monitoring of populations on private and public lands, surveys for new populations, collaborates with partners on seed banking, propagation, and mycorrhizal research, supports hydrological research and habitat restoration, manages populations on state and federal lands, and works to protect privately owned populations through land acquisition and other conservation actions. During this reporting period, management has included canopy reduction, invasive species control, installation of debris dams to improve wetland hydrology, development of best management practices, and continued long-term demographic and habitat monitoring. Following a 2025 tornado that heavily impacted one of Kentucky's WFO preserves, OKNP has also been monitoring the orchid's response and implementing post-tornado restoration to protect wetland habitat and guide long-term recovery. In 2025, OKNP and partners also conducted a WFO introduction, expanding recovery efforts toward establishing additional populations and increasing the species' resiliency in Kentucky.



**White Fringeless Orchid (*Platanthera integrilabia*)**

OKNP has also coordinated research on pollinators, insect ecology, genetics, and mycorrhizal symbionts. Long-term research and monitoring have demonstrated that canopy reduction, debris dams, and invasive species management can improve habitat and increase orchid flowering. OKNP botanists and entomologists have documented several WFO pollinators through direct and camera observations, including the White-lined Sphinx Moth (*Hyles lineata*), Pandora Sphinx Moth (*Eumorpha pandorus*), Pawpaw Sphinx Moth (*Dolba hyloeus*), Snowberry Clearwing Moth (*Hemaris diffinis*), and Northern Cloudywing Skipper (*Thorybes pylades*). These management, research, and recovery efforts are helping guide conservation of WFO across its southeastern U.S. range, with the ultimate goal of species recovery and delisting.

# From Assessment to Recovery: Conservation Highlights

## Kentucky Clover

The globally rare Kentucky Clover (*Trifolium kentuckiense*) was first discovered in 2010 and is only known from two privately owned limestone sites in central Kentucky. Despite annual monitoring and management by OKNP and KDFWR, Kentucky Clover vanished from these sites not long after it was described. Fortunately, seed collection and propagation efforts were successful due to collaborative efforts with the Cincinnati Zoo CREWs plant program and other partners. Since 2022, three batches of propagated Kentucky Clovers were transplanted in high quality limestone woodlands. Through ongoing management, propagation, and transplantation, OKNP is working to establish a viable population in the wild.



**Kentucky Clover (*Trifolium kentuckiense*) seedings grown by Cincinnati Zoo CREWs plant program that were planted at high-quality habitats in the Bluegrass**

## Globe Bladderpod

The federally endangered Globe Bladderpod (*Physaria globosa*) is endemic to Kentucky, Indiana, and Tennessee where it grows on open, dry, limestone cliffs and woodlands above streams, creeks, and rivers. In Kentucky, the Globe Bladderpod populations are centered around the Kentucky River Palisades and the rocky hills throughout Frankfort. Unfortunately, this species has experienced significant historical declines across its range, including Kentucky, where only 22% of historically known populations still exist today.



**Globe Bladderpod (*Physaria globosa*)**

Excessive shading due to forest succession and competition from non-native invasive plant species like bush honeysuckles (*Lonicera* spp.) are two of the main threats to the Globe Bladderpod in Kentucky and have contributed significantly to the population loss.

For over ten years, OKNP has partnered with the City of Frankfort Parks and Recreation Department on an introduction and restoration project that has established a new population of the plant. Seed translocations are paired with mid-story thinning and removing invasive shrubs to restore open, natural habitat this rare plant prefers. This success is being used as a model for three new introduction and restoration projects on protected natural areas in the Palisades.

In 2023 OKNP resumed habitat restoration on a limestone woodland on a State Nature Preserve with Globe Bladderpod. Successive years of mid- and understory thinning, invasive species removal, and a prescribed burn in 2024 led to significant increases in Globe Bladderpod and were the highest number of flowering plants ever observed at the site. Future work will expand the restoration area and use seed from the site to make the population more evenly spread across the habitat.

These ongoing efforts hope to establish 2-3 additional viable populations while still working on additional recovery goals to achieve downlisting in the coming decades.

# From Assessment to Recovery: Conservation Highlights

## Short's Goldenrod




**Short's Goldenrod (Solidago shortii)**

Short's goldenrod (*Solidago shortii*) is a globally rare (G1) and federally endangered species that historically occurred on rocky, open habitats along the buffalo trace that spanned across the Bluegrass region, but now is only found in the Blue Licks Battlefield State Resort Park area. Kentucky Heritage Land Conservation Fund (KHLCF) sites play a significant role in the protection of Kentucky's Short's goldenrod, with approximately half of our known populations occurring on KHLCF lands.

The major ongoing threats to Short's Goldenrod include competition with non-native invasive species and habitat degradation; therefore management strategies for these populations include invasive species eradication and prescribed fire to maintain open conditions. OKNP conducts yearly surveys on long term monitoring plots to ensure that the populations are healthy and responding positively to these management strategies.

Historically, this plant's habitat was maintained open through bison trampling. With the loss of bison from the landscape, OKNP utilizes prescribed fire to keep trees and shrubs in a suspended state of low cover. Prescribed burns are implemented on a rotating schedule across six burn units ranging from four to 90 acres. March 2025 burns conducted in woodlands and post-oak barrens habitats achieved significant understory shrub reduction while promoting native forb and graminoid growth. Population trend monitoring for Short's goldenrod across four burn units confirms positive growth trends for both total vegetative stems and flowering stems, supporting a continued use of prescribed fire to manage this rare plant species.

Additionally, the roadsides in the Blue Licks area and beyond were surveyed for new or existing populations as a part of the Roadside Pollinator Habitat Project with Kentucky Transportation Cabinet. No new populations were discovered, but several natural and introduced populations surveyed were found to be stable or increasing, indicating that the species is on track for recovery.

Excitingly, several new occurrences emerged following mastication (forestry mulching) on an OKNP site recently acquired from The Nature Conservancy. Restoration efforts on that property hope to uncover a larger population from the seedbank in the upcoming years.



**Prescribed fire at Bluelicks State Park and State Nature Preserve**

# State-wide Inventory, Monitoring, and Natural Communities

## Natural Areas Inventory and Rare Plant Monitoring

***Immediately after the creation of the Kentucky State Nature Preserves Commission (now OKNP), the informal Kentucky Natural Areas Inventory (NAI) program sought to catalogue the most important natural areas in Kentucky. This approach was a county by county inventory that provided the critical baseline data to prioritize targets for land acquisition to establish a system of State Nature Preserves. Though we no longer use the county level approach, we still monitor some of the same species populations and natural areas identified in that inventory. Further, we still utilize the same approach of using a complex mix of geology, soil, topography, aerial imagery, LIDAR, and biodiversity datasets to explore new natural areas and endlessly improve conservation goals. There is an endless need to know what we have and how it is doing at the population, species, ecosystem, landscape, region, state, national, and global levels. That data then informs strategy and action.***

### Monitoring and Exploring Natural Areas

With 10,659 occurrences across 580 tracked plant species and 93 terrestrial natural communities, across 4400 known natural areas and 786 conservation sites, monitoring can be an overwhelming duty before even thinking about exploring new natural areas. Therefore, we set priorities:

- Regularly monitor the rarest species and natural communities (federally-listed, globally rare G1-G3, state endangered and threatened.)
- Monitor occurrences with the oldest last observed date.
- Monitor known natural areas with high concentrations of rare species.
- Explore natural areas with the highest likelihood of the rarest species and natural communities.

This approach has helped down-list, de-list, and recover species and ecosystems. It has led to the discovery of new natural areas, some of which became State Nature Preserves or other protected lands by our partners in conservation. It has led to the discovery of species entirely new to science or species not formerly known to Kentucky. However, this approach has also documented declines and disappearances of species, natural communities, and natural areas. Habitat loss, invasive species, and changes to natural disturbance regime are constant and growing threats to plants in Kentucky.




**Newly described limestone riverscour grassland.**




**Barbed Rattlesnake-root (*Nabalus barbatus*).**




**Suspected undescribed species of Vervain (*Glandularia sp*) from Cumberland Co.**

# State-wide Inventory, Monitoring, and Natural Communities

## Natural Community Classification

***One of OKNP's main functions is to help protect the most important natural communities in Kentucky. Kentucky's rich biological diversity is expressed by the variety and variability of the natural communities in the state. Natural communities are distinct assemblages of plants, animals and other organisms that tend to be repeated across the landscape where similar environmental conditions occur. OKNP recognizes almost 100 different natural community types in the Commonwealth.***

## Updates to Kentucky Natural Community Classification

OKNP botanists and ecologists have worked closely with NatureServe and the U.S. National Vegetation Classification to establish a standardized list of Kentucky's natural communities. In 2025, the classification was revised and expanded with comprehensive standardization of community names and the addition of twelve community types. Astrick (*) indicates a natural community has been added since 2022.

**Terrestrial Natural Communities**

*Forested Communities*

- Acidic Mesophytic Forest
- Acidic Sub-xeric Forest
- Acidic Xeric Forest/Woodland
- Appalachian Hemlock Forest
- Appalachian Mesophytic Forest
- Appalachian Sub-xeric Acidic Forest
- Appalachian Sub-xeric Pine - Oak Forest
- Appalachian White Pine - Hemlock Forest
- Bluegrass Deep Soil Mesophytic Cane Forest
- Calcareous Mesophytic Forest
- Calcareous Sub-xeric Forest
- Calcareous Xeric Forest/Woodland
- Coastal Plain Mesophytic Loess Bluff Forest
- Cumberland Highlands Mesophytic Forest
- Cumberland Mts Calcareous Mesophytic Forest
- Cumberland Mts Hemlock - Yellow Birch Forest
- *Cumberland Mts Sub-xeric Oak - Fern Forest
- Cumberland Plateau Heath Shrubland
- Cumberland Plateau Xeric Forest/Woodland
- *Interior Low Plateau Hemlock Forest
- Xeric Virginia Pine Forest/Woodland

**Terrestrial Natural Communities (cont.)**

*Outcrop, Cliff and Rockhouse Communities*

- Acidic Sparse Cliff/Outcrop
- Bluegrass Xeric Ledge/Cliff Woodland
- Calcareous Sparse Cliff/Outcrop
- Cumberland Mountains Limestone Xeric Ledge/Cliff Woodland
- Cumberland Mountains Sandstone Outcrop
- Cumberland Plateau Wet Cliff/Rockhouse
- *Cumberland River Calcareous Shale Forest/Woodland
- Eastern Highland Rim Xeric Northern White-cedar Ledge/Cliff Woodland
- Eastern Knobs Limestone Xeric Ledge/Cliff Woodland

*Prairie, Barrens, Glade and Savanna Communities*

- *Bluegrass Limestone Barrens
- Bluegrass Savanna
- Cumberland Mountains Pitch Pine Barrens
- Cumberland Plateau Sandstone Glade
- *Cumberland Plateau Sandstone Prairie
- Cumberland Plateau Shortleaf Pine Savanna
- Interior Low Plateau Post Oak Savanna
- Interior Low Plateau Sandstone Barrens
- Interior Low Plateau Sandstone Prairie
- Kentucky Knobs Shale Barrens
- Kentucky Knobs Siltstone Barrens
- Limestone Flatrock Glade
- Limestone Slope Glade
- Limestone/Dolomite Prairie
- Outer Bluegrass Calcareous Shale Prairie
- Outer Bluegrass Dolomite Glade
- Shale Glade
- Shawnee Hills Sandstone Glade
- Tallgrass Prairie

# State-wide Inventory, Monitoring, and Natural Communities

## Updates to Kentucky Natural Community Classification (cont.)

**Wetland Natural Communities**

*Forested Communities*

- Appalachian Mesophytic Terrace Forest
- Appalachian Small River Floodplain Forest
- Bald-cypress - Water Tupelo Swamp
- Bluegrass Sinkhole/Depression Forest
- Bottomland Hardwood Forest
- Cumberland Plateau Wet Flatwoods
- Eastern Highland Rim Xero-hydric Flatwoods
- Interior Low Plateau Sinkhole/Depression Forest
- Large River Ridge/Terrace Forest
- Riparian Forest
- Small Stream Scour Forest
- Western Kentucky Xero-hydric Flatwoods
- *Wet Bottomland Hardwood Forest
- Wet Flatwoods

*Marsh, Shrub Swamp and Sinkhole Communities*

- *Appalachian Beaver Pond Marsh
- Bottomland Marsh
- Buttonbush Shrub Swamp
- Cumberland Plateau Upland Depression Marsh
- Interior Low Plateau Buttonbush Sinkhole/Depression Shrub Swamp
- Sinkhole/Depression Marsh

*Seep, Bog and Wet Meadow Communities*

- *Bluegrass Limestone Cliff Seep
- Calcareous Seep
- Coastal Plain Forested Acid Seep
- Cumberland Mountains Acid Bog
- Cumberland Mountains Acid Seep
- Cumberland Plateau Forested Acid Seep
- *Cumberland Plateau Open Acid Seep
- Cumberland River Limestone Cliff Seep
- *Eastern Highland Rim Calcareous Seep
- Eastern Highland Rim Xero-hydric Meadow
- Interior Low Plateau Acid Seep
- Western Kentucky Wet Prairie

*Riverine Communities*

- *Cumberland Escarpment Limestone Riverscour
- Cumberland Plateau Sandstone Riverscour
- *Floodplain Canebrake
- Gravel/Cobble Bar
- *Limestone Riverscour
- Mud Flat
- Ohio River Limestone Riverscour
- Sand Bar
- *Sandstone Riverscour




**Cumberland Escarpment Limestone Riverscour**




**Wet Bottomland Hardwood Forest**




**Bluegrass Limestone Cliff Seep**




**Appalachian Beaver Pond Marsh**

# State-wide Inventory, Monitoring, and Natural Communities

## Species of Commercial Concern and Forest Biodiversity

***Since 2019, OKNP botanists and ecologists have been conducting surveys in forested natural communities across the state for the Kentucky Forest Biodiversity Assessment Program (KFBAP). This long term monitoring program assesses the biodiversity of Kentucky's forested landscapes, surveying 20% of counties per year in order to have a complete state inventory within 5 years. Seven years of the program have been completed, resulting in the documentation and mapping of high quality natural communities, discovery of new populations of several species of listed plants, and a better understanding of the effects of natural and human disturbance on Kentucky's forests.***

## American Ginseng 5-year Statewide Assessment Results Overview

American Ginseng (*Panax quinquefolius*) harvest in Kentucky is a long-standing part of the state's heritage and economy, going back to the days of the early pioneers. Kentucky is the leading exporter of wild ginseng, with the trade generating $4 to $8 million annually for the Commonwealth. Unfortunately, over harvest of wild ginseng and destruction of its forested habitats continue to threaten this economically important plant.

Despite having a large range with many occurrences, NatureServe determined American ginseng to be Globally Vulnerable (G3) to extinction in 2005. A G3 species is at moderate risk of extinction or elimination due to a fairly restricted range, relatively few populations or occurrences, recent and widespread declines, threats, or other factors.

As a part of the 2018 Kentucky Rare Plant List revision, American ginseng was added to the state rare plant list as S-CE (Special concern-commercially exploited). Though the plant is widespread in Kentucky, over 75% of known populations are at an elevated risk of extirpation from ongoing threats.

To ensure legal harvest is sustainable for future generations, the Kentucky Department of Agriculture works with OKNP on the Kentucky Forest Biodiversity Assessment Program (KFBAP), which monitors over 200 wild ginseng populations and associated forested communities. The results of this program directly effect the future limitations and/or expansions of Kentucky ginseng harvest at a county level. Additionally, this long-term monitoring program assesses the biodiversity of Kentucky's forested landscapes, resulting in the documentation and mapping of high-quality natural communities, discovery of new populations of state listed plants, and a better understanding of the effects of natural and human disturbance on Kentucky's forests.




**American Ginseng (*Panax quinquefolius*) in it's mature 4-prong stage**

# State-wide Inventory, Monitoring, and Natural Communities

## Roadside Pollinator Habitat Conservation

***Roadsides are increasingly recognized by ecologists and land managers for their significant conservation value. Roadsides can provide important habitat for many pollinating insects, including charismatic species like the monarch butterfly and the federally endangered rusty patched bumble bee. In addition to pollinator habitat, roadsides can support native grassland communities that include rare plant species.***

### Roadside Pollinator Habitat Program

In partnership with the Kentucky Transportation Cabinet (KYTC), OKNP botanists completed a state-wide inventory of roadside rights-of-way (ROW) along Kentucky's state maintained roads to identify and document high-quality pollinator habitat and native grassland communities. Our surveys included grassland quality assessments and a pollinator habitat scorecard, developed by the Monarch Joint Venture, which provided a numerical score for potential pollinator habitat. These tools helped us quantify and prioritize roadsides for conservation action.

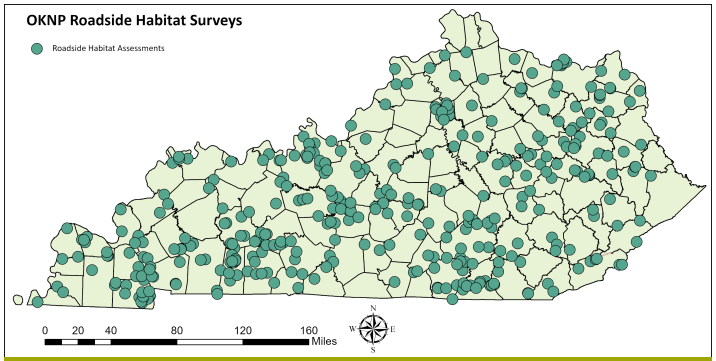
Over 5 years (2020-2024), OKNP successfully surveyed over 31,000 miles of road. Surveyors evaluated roadside habitat at 374 locations throughout Kentucky. Of the evaluated sites, a total of 283 were determined to have significant conservation value and were designated as Roadside Conservation Areas (RCAs) for the protection of pollinator habitat, rare plants, and native plant communities. These RCAs include over 440 acres of ROW habitat throughout the state.

OKNP documented 258 rare plant populations, including 93 different species on the state rare plant list, growing in ROW that KYTC manages. This includes three plant species that are listed as threatened or endangered under the federal Endangered Species Act: Globe Bladderpod (*Physaria globosa*), Kentucky Gladecress (*Leavenworthia exigua var. laciniata*), and Short's Goldenrod (*Solidago shortii*).

Many of these sites support globally rare plants including Appalachian rosinweed (*Silphium wasiotense*), Cutleaf Meadow-Parsnip (*Thaspium pinnatifidum*), Eastern Prairie Blue Wild Indigo (*Baptisia aberrans*), Eggert's Sunflower (*Helianthus eggertii*), Royal Catchfly (*Silene regia*), Running Buffalo Clover (*Trifolium stoloniferum*), Stone Mountainmint (*Pycnanthemum curvipes*), Svenson's Wildrye (*Elymus svensonii*), Tansy rosinweed (*Silphium pinnatifidum*) and water Stitchwort (*Sabulina fontanalis*).

In line with the goals outlined in the Kentucky Pollinator Protection Plan (2019), this information is shared with our partners and used to develop best management practices to management of these important habitats.

A comprehensive project report is available for download from the OKNP website, and a public version of the project GIS dataset will be available in 2027.




**Habitat evaluations were conducted at 374 locations across Kentucky**

# Partnerships Supporting Rare Plant Conservation

## Endangered Species Act Section 6

***Since 1985, OKNP has had a cooperative agreement with the United States Fish and Wildlife Service (USFWS) to serve as the official partner for monitoring and managing federally listed and at risk plants in Kentucky under Section 6 of the U.S. Endangered Species Act. Currently, we work on over 16 federally listed, eligible unlisted, and delisted, globally rare plants through this agreement. Section 6 provides a critical framework for coordinating federal and state plant conservation efforts, allowing Kentucky to address species needs before populations decline further and to carry recovery actions from monitoring through habitat management and long-term protection.***

***We work closely with USFWS and partners to meet recovery goals and implement conservation action that truly protects those species as well as assess possible additions to the federal list. Often times targeted conservation work on globally rare plants that are not yet federally listed can prevent the need for additional federal listings.***

## Successful Recovery and Delisting

Since 2005, OKNP and its partners have helped recover four plants formerly listed as federally endangered or threatened: Running Buffalo Clover (*Trifolium stoloniferum*), White-haired Goldenrod (*Solidago albopilosa*), Cumberland Sandwort (*Mononeuria cumberlandensis*), and Eggert's Sunflower (*Helianthus eggertii*). These recoveries represent decades of monitoring, habitat management, research, and coordination to ensure populations remain secure after delisting.

## Current Federally Listed Plant Recovery Projects

OKNP works with USFWS and conservation partners to implement recovery actions for federally listed and at-risk plants through population monitoring, habitat management, research, and ex situ conservation. These efforts are guided by species recovery plans and the best available information on population status and threats

- Price's Potato Bean (*Apios priceana*), Federally Threatened
- Kentucky Gladecress (*Leavenworthia exigua var. laciniata*), Federally Threatened




*Price's Potato Bean (Apios priceana)*

- Short's Goldenrod (*Solidago shortii*), Federally Endangered
- Globe Bladderpod (*Physaria globosa)*, Federally Endangered
- Braun's Rockcress (Borodinia perstellata), Federally Endangered
- White Fringeless Orchid (*Platanthera integrilabia*), Federally Threatened
- Cumberland False Rosemary (Conradina verticillata), Federally Threatened
- Large-flowered Barbara's buttons (*Marshallia grandiflora*), Eligible Unlisted
- Virginia spiraea (*Spiraea virginiana*), Federally Threatened

# Partnerships Supporting Rare Plant Conservation

## State-wide and Regional Plant Conservation Networks

***Rare plant conservation is collaborative by nature. Kentucky's rare plants cross property boundaries, agency jurisdictions, and state lines, and their conservation depends on strong partnerships at the state, regional, and national levels. OKNP works with federal and state agencies, universities, botanical gardens, conservation organizations, land trusts, local governments, private landowners, and botanical experts to share information, coordinate surveys and monitoring, restore habitat, conserve seed and genetic material, and advance recovery of rare plants.***

## OKNP Partnerships

These partnerships greatly expand what we are able to accomplish. Through networks such as the Plant Conservation Alliance, Center for Plant Conservation, Southeastern Plant Conservation Alliance, and regional species recovery teams and working groups, Kentucky contributes to conservation efforts that extend beyond the Commonwealth. These collaborations provide access to expertise, research, training, propagation and seed-banking resources, and opportunities to coordinate conservation across a species' entire range.

At the state level, partnerships allow us to connect rare plant inventory and monitoring with land protection and management. Working together, we have discovered new populations and species, protected rare plant sites, restored natural communities, expanded seed banking and propagation, and returned rare plants to protected landscapes.



**Kentucky Clover planting team with OKNP, Cincinnati Zoo, and local Frankfort government staff.**

**Federal**
- U.S. Fish and Wildlife Service
- U.S. Forest Service
- National Park Service

**State**
- Kentucky Department of Agriculture
- Kentucky Dept. of Fish & Wildlife Resources
- Kentucky Transportation Cabinet
- Kentucky State Parks

**Research & Botanical**
- University of Kentucky
- Cincinnati Zoo & Botanical Garden
- Atlanta Botanical Garden
- Missouri Botanical Garden
- Various universities

**Conservation Networks**
- Center for Plant Conservation
- Southeastern Plant Conservation Alliance
- Kentucky Native Plant Society

**Land & Conservation Partners**
- Kentucky Natural Lands Trust
- Local governments
- Private landowners
- Utilities
- NGOs

# Public Information and Botanical Engagement

## Botanical Outreach

***One of OKNP's statutory duties is to promote understanding and appreciation of the aesthetic, cultural, scientific and spiritual values of our unpolluted and unspoiled environment. OKNP staff participates in many outreach events, hosts educational opportunities, publishes reports, and collaborates with local media to reach as many Kentuckians as possible.***

## Annual Kentucky Botanical Symposium

OKNP partners with the Kentucky Native Plant Society (KNPS) to co-host the annual Kentucky Botanical Symposium each winter. The goal of the symposium is to bring together professionals, community scientists, academics, researchers, gardeners, native plant enthusiasts and students to learn about what is going on in the world of Kentucky botany and beyond. Kentucky Botanical Symposium presentations can be viewed on the Kentucky Native Plant Society YouTube Channel.

## iNaturalist

The botanical community on iNaturalist.org has been growing steadily in Kentucky for the last few years, and numerous rare plants have documented by community scientists on this platform. Observations made on iNaturalist have provided OKNP with important data such as confirmation of extant rare plant populations, relocation of historic plant records, as well as significant range extensions and new county records. Visit iNaturalist.org and join an OKNP project to contribute to the understanding of Kentucky's plant species and beyond.

## Reports and Publications

OKNP provides a variety of public facing reports and publications on Kentucky's common and rare species on our website. Visit eec.ky.gov/Nature-Preserves to access agency reports, species and community reports, and more.

## Media Coverage

**National Public Radio**

*Threatened orchids were returning to southern Kentucky, then the 2025 tornado hit*

**Kentucky Educational Television (KET)**

*In Search of the Round Leaved Sundew | McCreary County, KY | Kentucky Life*

## Scientific Publications

Littlefield, T.R., Hoy, C., & Barton, C. (2026). Effects of headwater wetland restoration on the demography, fecundity, and ecology of the U.S. federally threatened white fringeless orchid (*Platanthera integrilabia*). Biodiversity and Conservation, 35, 21. https://doi.org/10.1007/s10531-025-03217-4

Littlefield, T.R., Kosieniak, S., & Zettler, L.W. (2026). Functional redundancy in invertebrate pollinator–predator networks supports conservation of a threatened North American orchid. Biodiversity and Conservation, 35, 30. https://doi.org/10.1007/s10531-025-03225-4

# Office of Kentucky Nature Preserves Staff

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**Quinn Towery**
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**Sandra Elliott**
**Cumberland Plateau Preserves Manager**




**Lance Hostetler**
**Southeast Preserves Manager**

**Not Pictured**

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Ryan Fortenberry, Previous Cumberland Plateau Preserve Manager
Kyle Napier, Previous Southeast Preserve Manger
Boyd Hopkins, NA Technician
Megan Retz, NA Technician
Carey Burford, Temp
Elizabeth Huges, NA Technician
Cassidy Keeling, NA Technician
Kenneth Mills, NA Tech
Garrett Gallion, NA Tech

# Conservation Collaboration Acknowledgment

***Office of Kentucky Nature Preserves would like to thank all of our conservation partners mentioned in this report. Without these collaborations, OKNP could not continue to expand and improve upon its mission to conserve Kentucky's natural heritage.***

# Rare Plant List

This section contains the 2026 Kentucky Rare Plant List of vascular and nonvascular plants that are endangered, threatened, special concern, commercially exploited, historic or extirpated. Each species contains a scientific name, common name, state status, SWAP status, state rank, global rank, and U.S. Status. The list is arranged alphabetically by scientific name in each status within each plant group. The SWAP status indicates whether a taxon is a Species of Greatest Conservation Need (SGCN) in the 2023 Kentucky State Wildlife Action Plan. State ranks and global ranks use a NatureServe-standardized five point scale of conservation priority. State ranks, assigned by OKNP, are included because they were reviewed and updated during the process of revising the conservation statuses, which informed decisions about designating Kentucky's threatened and endangered taxa. Lastly, the ranks are another important metric for communicating about conservation priority among conservation professionals locally, regionally, and nationally. The U.S. status indicates whether a taxon is listed as threatened or endangered by U.S. Fish and Wildlife Service under the U.S. Endangered Species Act, but also indicates "delisted" taxa and "eligible unlisted" taxa.

**Table 3. State Ranks Definitions as Defined by NatureServe**

| Conservation Rank* | Definition |
|---|---|
| S1 | Critically Imperiled— At very high risk of extirpation in the jurisdiction due to very restricted range, very few populations or occurrences, very steep declines, severe threats, or other factors. |
| S2 | Imperiled— At high risk of extirpation in the jurisdiction due to restricted range, few populations or occurrences, steep declines, severe threats, or other factors. |
| S3 | Vulnerable— At moderate risk of extirpation in the jurisdiction due to a fairly restricted range, relatively few populations or occurrences, recent and widespread declines, threats, or other factors. |
| S4 | Apparently Secure— At a fairly low risk of extirpation in the jurisdiction due to an extensive range and/or many populations or occurrences, but with possible cause for some concern as a result of local recent declines, threats, or other factors. |
| S5 | Secure— At very low or no risk of extirpation in the jurisdiction due to a very extensive range, abundant populations or occurrences, with little to no concern from declines or threats. |

*Ranks can also be a range indicating uncertainty between two statuses and are written as S#S#. A "?" qualifier may also be used to indicate uncertainty about a rank. Historic (SH) and extirpated (SX) rank definitions were excluded because they closely match the definitions of Kentucky status under those names.

# Rare Plant List

| Table 4. Global Ranks Definitions as Defined by NatureServe | |
|---|---|
| **G Rank** | **Definition** |
| G1 | **Critically Imperiled** — At very high risk of extinction or elimination due to very restricted range, very few populations or occurrences, very steep declines, very severe threats, or other factors. |
| G2 | **Imperiled** — At high risk of extinction or elimination due to restricted range, few populations or occurrences, steep declines, severe threats, or other factors. |
| G3 | **Vulnerable** — At moderate risk of extinction or elimination due to a fairly restricted range, relatively few populations or occurrences, recent and widespread declines, threats, or other factors. |
| G4 | **Apparently Secure** — At fairly low risk of extinction or elimination due to an extensive range and/or many populations or occurrences, but with possible cause for some concern as a result of local recent declines, threats, or other factors. |
| G5 | **Secure** — At very low risk of extinction or elimination due to a very extensive range, abundant populations or occurrences, and little to no concern from declines or threats |
| GX | **Presumed Extinct** — Not located despite intensive searches and virtually no likelihood of rediscovery. |
| GH | **Possibly Extinct** — Known from only historical occurrences but still some hope of rediscovery. Examples of evidence include (1) that a species has not been documented in approximately 20-40 years despite some searching and/or some evidence of significant habitat loss or degradation; (2) that a species has been searched for unsuccessfully, but not thoroughly enough to presume that it is extinct or eliminated throughout its range. |
| G#G# | **Range Rank** — A numeric range rank (e.g., G2G3, G1G3) is used to indicate uncertainty about the exact status of a taxon or ecosystem type. Ranges cannot skip more than two ranks (e.g., GU should be used rather than G1G4). |
| GU | **Unrankable** — Currently unrankable due to lack of information or due to substantially conflicting information about status or trends. NOTE: Whenever possible (when the range of uncertainty is three consecutive ranks or less), a range rank (e.g., G2G3) should be used to delineate the limits (range) of uncertainty. |
| GNR | **Unranked** — Global rank not yet assessed. |
| GNA | **Not Applicable** — A conservation status rank is not applicable because the species or ecosystem is not a suitable target for conservation activities. A global conservation status rank may be not applicable for several reasons, related to its relevance as a conservation target. For species, typically the species is a hybrid without conservation value, or of domestic origin. |
| T# | I**nfraspecific Taxon (trinomial)** - The status of infraspecific taxa (subspecies or varieties) are indicated by a "T-rank" following the species' global rank. Rules for assigning T-ranks follow the same principles outlined above. For example, the global rank of a critically imperiled subspecies of an otherwise widespread and common species would be G5T1. A T subrank cannot imply the subspecies or variety is more abundant than the species, for example, a G1T2 subrank should not occur. A vertebrate animal population (e.g., listed under the U.S. Endangered Species Act or assigned candidate status) may be tracked as an infraspecific taxon and given a T rank; in such cases a Q is used after the T-rank to denote the taxon's informal taxonomic status |

| Appendix I: Rare Plant List | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Plant Type** | **Scientific Name** | **Common Name** | **State Status** | **SWAP Status** | **State Rank** | **Global Rank** | **U.S. Status** |
| Vascular | *Acer spicatum* | Mountain Maple | Endangered | | S1S2 | G5 | |
| Vascular | *Aconitum uncinatum* | Blue Monkshood | Endangered | | S1S2 | G4 | |
| Vascular | *Adlumia fungosa* | Allegheny-vine | Endangered | | S1 | G4 | |
| Vascular | *Agalinis auriculata* | Earleaf False Foxglove | Endangered | SGCN | S1 | G3 | |
| Vascular | *Agalinis decemloba* | Ten-lobed False Foxglove | Endangered | SGCN | S1 | G3G4 | |
| Vascular | *Agalinis skinneriana* | Pale False Foxglove | Endangered | | S1 | G3G4 | |
| Vascular | *Agrimonia gryposepala* | Tall Hairy Groovebur | Endangered | | S1 | G5 | |
| Vascular | *Amelanchier sanguinea* | Roundleaf Serviceberry | Endangered | | S1 | G5 | |
| Vascular | *Amelanchier spicata* | Running Serviceberry | Endangered | | S1 | G5 | |
| Vascular | *Amianthium muscitoxicum* | Fly Poison | Endangered | | S1 | G4G5 | |
| Vascular | *Angelica triquinata* | Filmy Angelica | Endangered | | S1S2 | G4 | |
| Vascular | *Apios priceana* | Price's Potato-bean | Endangered | SGCN | S1 | G3 | Threatened |
| Vascular | *Arabidopsis lyrata ssp. lyrata* | Lyre-leaf Rockcress | Endangered | | S1S2 | G5T5 | |
| Vascular | *Arabis adpressipilis* | Hairy Rockcress | Endangered | | S1 | G5T4 | |
| Vascular | *Arabis patens* | Spreading Rockcress | Endangered | SGCN | S1 | G3 | |
| Vascular | *Baptisia aberrans* | Eastern Prairie Blue Wild Indigo | Endangered | SGCN | S1 | G2 | |
| Vascular | *Berberis canadensis* | American Barberry | Endangered | SGCN | S1 | G3G4 | |
| Vascular | *Bolboschoenus fluviatilis* | River Bulrush | Endangered | | S1S2 | G5 | |
| Vascular | *Botrychium angustisegmentum* | Triangle Grape-fern | Endangered | | S1 | G5T4T5 | |
| Vascular | *Botrychium matricariifolium* | Matricary Grape-fern | Endangered | | S1 | G5 | |
| Vascular | *Boykinia aconitifolia* | Brook Saxifrage | Endangered | | S1S2 | G4 | |
| Vascular | *Calamagrostis insperata* | Bent Reedgrass | Endangered | | S1S2 | G4T3 | |
| Vascular | *Calamovilfa arcuata* | Cumberland Sandgrass | Endangered | SGCN | S1 | G2G3 | |
| Vascular | *Callicarpa americana* | American Beautyberry | Endangered | | S1 | G5 | |

| Appendix I: Rare Plant List | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Plant Type** | **Scientific Name** | **Common Name** | **State Status** | **SWAP Status** | **State Rank** | **Global Rank** | **U.S. Status** |
| Vascular | *Calopogon tuberosus var. tuberosus* | Grass-pink | Endangered | | S1 | G5T5 | |
| Vascular | *Carex abscondita* | Southern Leafy Wood Sedge | Endangered | | S1? | G5 | |
| Vascular | *Carex buxbaumii* | Brown Bog Sedge | Endangered | | S1 | G5 | |
| Vascular | *Carex fraseriana* | Fraser's Sedge | Endangered | | S1 | G4 | |
| Vascular | *Carex howei* | Prickly Bog Sedge | Endangered | | S1S2 | G5T5 | |
| Vascular | *Carex joorii* | Cypress-swamp Sedge | Endangered | | S1S2 | G4G5 | |
| Vascular | *Carex oblita* | Southern Dark Green Sedge | Endangered | | S1 | G4T4 | |
| Vascular | *Carex ouachitana* | Ouachita Sedge | Endangered | | S1 | G4 | |
| Vascular | *Carex pellita* | Woolly Sedge | Endangered | | S1 | G5 | |
| Vascular | *Carex reniformis* | Reniform Sedge | Endangered | | S1 | G4? | |
| Vascular | *Carex roanensis* | Roan Mountain Sedge | Endangered | SGCN | S1 | G3 | |
| Vascular | *Carex straminea* | Straw Sedge | Endangered | | S1 | G4 | |
| Vascular | *Castanea dentata* | American Chestnut | Endangered | | S1 | G3 | |
| Vascular | *Cayaponia quinqueloba* | Five-lobe Cucumber | Endangered | | S1 | G4 | |
| Vascular | *Ceanothus herbaceus* | Prairie Redroot | Endangered | | S1 | G5 | |
| Vascular | *Cerastium velutinum var. velutinum* | Starry Grasswort | Endangered | | S1S2 | G4?T4? | |
| Vascular | *Chamaebuxus paucifolia* | Gaywings | Endangered | | S1 | G5 | |
| Vascular | *Chrysogonum repens* | Green-and-gold | Endangered | | S1 | G5TNR | |
| Vascular | *Cladium mariscoides* | Smooth Sawgrass | Endangered | | S1 | G5 | |
| Vascular | *Collinsonia verticillata* | Whorled Horse-balm | Endangered | SGCN | S1 | G3G4 | |
| Vascular | *Comptonia peregrina* | Sweet-fern | Endangered | | S1 | G5 | |
| Vascular | *Conradina verticillata* | Cumberland Rosemary | Endangered | SGCN | S1 | G3 | Threatened |
| Vascular | *Convallaria pseudomajalis* | American Lily-of-the-valley | Endangered | | S1 | G4? | |
| Vascular | *Corallorhiza maculata var. maculata* | Spotted Coralroot | Endangered | | S1 | G5T5 | |

| Appendix I: Rare Plant List | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Plant Type** | **Scientific Name** | **Common Name** | **State Status** | **SWAP Status** | **State Rank** | **Global Rank** | **U.S. Status** |
| Vascular | *Corispermum americanum* | American Bugweed | Endangered | | S1? | G5? | |
| Vascular | *Crataegus marshallii* | Parsley Hawthorn | Endangered | | S1 | G5 | |
| Vascular | *Crataegus spathulata* | Little Hip Hawthorn | Endangered | | S1 | G5 | |
| Vascular | *Crocanthemum canadense* | Canada Frostweed | Endangered | | S1 | G5 | |
| Vascular | *Cycloloma atriplicifolium* | Winged Pigweed | Endangered | | S1? | G5 | |
| Vascular | *Cypripedium candidum* | Small White Lady's-slipper | Endangered | | S1 | G3G4 | |
| Vascular | *Cypripedium kentuckiense* | Kentucky Lady's-slipper | Endangered | SGCN | S1S2 | G3 | |
| Vascular | *Deschampsia cespitosa* | Tufted Hairgrass | Endangered | | S1 | G5 | |
| Vascular | *Desmodium ochroleucum* | Cream Tick-trefoil | Endangered | SGCN | S1 | G2G3 | |
| Vascular | *Dichanthelium annulum* | Ringed Rosette Grass | Endangered | | S1 | G3 | |
| Vascular | *Didiplis diandra* | Water-purslane | Endangered | | S1S2 | G3G4 | |
| Vascular | *Drosera brevifolia* | Dwarf Sundew | Endangered | | S1 | G5 | |
| Vascular | *Drosera intermedia* | Spoon-leaved Sundew | Endangered | | S1 | G5 | |
| Vascular | *Drosera rotundifolia* | Roundleaf Sundew | Endangered | | S1 | G5 | |
| Vascular | *Eleocharis tuberculosa* | Large-tubercled Spikerush | Endangered | | S1 | G5 | |
| Vascular | *Eleocharis wolfii* | Wolf's Spikerush | Endangered | | S1 | G4 | |
| Vascular | *Erigeron allisonii* | Limestone Prairie Fleabane | Endangered | | S1 | G5T3 | |
| Vascular | *Eriophorum virginicum* | Tawny Cotton-grass | Endangered | | S1 | G5 | |
| Vascular | *Eryngium mississippiense* | Blue-flower Coyote-thistle | Endangered | | S1 | G4 | |
| Vascular | *Erysimum capitatum var. capitatum* | Western Wallflower | Endangered | | S1 | G5TNR | |
| Vascular | *Eubotrys recurvus* | Red-twig Doghobble | Endangered | | S1 | G4G5 | |
| Vascular | *Eurybia radula* | Rough-leaved Aster | Endangered | | S1 | G5 | |
| Vascular | *Fimbristylis annua* | Annual Fimbristylis | Endangered | | S1 | G5 | |
| Vascular | *Fothergilla major* | Mountain Witch-alder | Endangered | | S1? | G3 | |
| Vascular | *Gaylussacia ursina* | Bear huckleberry | Endangered | | S1 | G4 | |

| Appendix I: Rare Plant List | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Plant Type** | **Scientific Name** | **Common Name** | **State Status** | **SWAP Status** | **State Rank** | **Global Rank** | **U.S. Status** |
| Vascular | *Gentiana andrewsii var. andrewsii* | Closed Gentian | Endangered | | S1? | G5T4 | |
| Vascular | *Gentiana puberulenta* | Prairie Gentian | Endangered | | S1 | G4G5 | |
| Vascular | *Glandularia canadensis* | Rose Mock-vervain | Endangered | SGCN | S1 | G5 | |
| Vascular | *Glyceria acutiflora* | Sharp-scaled Manna-grass | Endangered | | S1S2 | G5 | |
| Vascular | *Goodyera repens* | Lesser Rattlesnake-plantain | Endangered | | S1 | G5 | |
| Vascular | *Gratiola floridana* | Florida hedge hyssop | Endangered | | S1 | G4 | |
| Vascular | *Gratiola quartermaniae* | Quarterman's Hedge-hyssop | Endangered | SGCN | S1 | G3 | |
| Vascular | *Gymnopogon brevifolius* | Shortleaf Skeleton-grass | Endangered | | S1 | G5 | |
| Vascular | *Helanthium tenellum* | Dwarf Burhead | Endangered | | S1 | G5? | |
| Vascular | *Helianthus silphioides* | Silphium Sunflower | Endangered | | S1 | G4 | |
| Vascular | *Heracleum maximum* | Cow-parsnip | Endangered | | S1 | G5 | |
| Vascular | *Hexastylis contracta* | Southern Heartleaf | Endangered | SGCN | S1S2 | G3 | |
| Vascular | *Houstonia serpyllifolia* | Michaux's Bluets | Endangered | | S1 | G4? | |
| Vascular | *Hydrocotyle americana* | American Water-pennywort | Endangered | | S1 | G5 | |
| Vascular | *Hydrocotyle verticillata* | Whorled Marsh-pennywort | Endangered | | S1 | G5 | |
| Vascular | *Hydrolea ovata* | Ovate Fiddleleaf | Endangered | | S1 | G5 | |
| Vascular | *Hydrophyllum virginianum var. atranthum* | Appalachian Waterleaf | Endangered | | S1S2 | G5TNR | |
| Vascular | *Hydrophyllum virginianum var. virginianum* | Eastern Waterleaf | Endangered | | S1 | G5T5 | |
| Vascular | *Hylotelephium telephioides* | Allegheny Stonecrop | Endangered | | S1 | G4 | |
| Vascular | *Hypericum gymnanthum* | Claspingleaf St. John's-wort | Endangered | | S1 | G4 | |
| Vascular | *Iris fulva* | Copper Iris | Endangered | | S1 | G5 | |
| Vascular | *Isoetes butleri* | Butler's Quillwort | Endangered | | S1 | G4 | |
| Vascular | *Isoetes melanopoda ssp. melanopoda* | Blackfoot Quillwort | Endangered | | S1 | G5TNR | |

| Appendix I: Rare Plant List | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Plant Type** | **Scientific Name** | **Common Name** | **State Status** | **SWAP Status** | **State Rank** | **Global Rank** | **U.S. Status** |
| Vascular | *Juniperus communis var. depressa* | Ground Juniper | Endangered | | S1 | G5T5 | |
| Vascular | *Koeleria macrantha* | Prairie Junegrass | Endangered | | S1 | G5 | |
| Vascular | *Krigia occidentalis* | Western Dwarf Dandelion | Endangered | | S1 | G5 | |
| Vascular | *Lathyrus palustris* | Vetchling Peavine | Endangered | | S1 | G5 | |
| Vascular | *Leavenworthia exigua var. laciniata* | Kentucky Gladecress | Endangered | SGCN | S1S2 | G4T1T2 | Threatened |
| Vascular | *Lespedeza angustifolia* | Narrowleaf Bush-clover | Endangered | | S1 | G4 | |
| Vascular | *Lespedeza stuevei* | Tall Bush-clover | Endangered | | S1 | G4? | |
| Vascular | *Liatris cylindracea* | Slender Blazingstar | Endangered | | S2 | G5 | |
| Vascular | *Lilium philadelphicum var. philadelphicum* | Wood Lily | Endangered | | S1S2 | G5T4T5 | |
| Vascular | *Lithospermum bejariense* | Western False Gromwell | Endangered | | S1 | G4G5T3 | |
| Vascular | *Lobelia gattingeri* | Gattinger's Lobelia | Endangered | | S1 | G4G5T4 | |
| Vascular | *Lonicera dioica var. orientalis* | Wild Honeysuckle | Endangered | | S1 | G5TNRQ | |
| Vascular | *Ludwigia hirtella* | Rafinesque's Seedbox | Endangered | | S1 | G5 | |
| Vascular | *Lycopodiella appressa* | Southern Bog Clubmoss | Endangered | | S1 | G5 | |
| Vascular | *Lycopodiella inundata* | Northern Bog Clubmoss | Endangered | | S1 | G5 | |
| Vascular | *Lycopodium clavatum* | Running Pine | Endangered | | S1 | G5 | |
| Vascular | *Lysimachia borealis* | Northern Starflower | Endangered | | S1 | G5 | |
| Vascular | *Lysimachia radicans* | Trailing Loosestrife | Endangered | | S1 | G4G5 | |
| Vascular | *Lysimachia terrestris* | Swamp Candles | Endangered | | S1 | G5 | |
| Vascular | *Maianthemum stellatum* | Starflower False Solomon's-seal | Endangered | | S1 | G5 | |
| Vascular | *Marshallia pulchra* | Barbara's Buttons | Endangered | SGCN | S1 | G3 | Eligible Unlisted |

| Appendix I: Rare Plant List | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Plant Type** | **Scientific Name** | **Common Name** | **State Status** | **SWAP Status** | **State Rank** | **Global Rank** | **U.S. Status** |
| Vascular | *Melampyrum lineare var. pectinatum* | American Cow-wheat | Endangered | | S1 | G5T5 | |
| Vascular | *Melanthium virginicum* | Virginia Bunchflower | Endangered | | S1 | G5 | |
| Vascular | *Micranthes micranthidifolia* | Lettuce-leaf Saxifrage | Endangered | | S1 | G5 | |
| Vascular | *Mirabilis albida* | Pale Umbrella-wort | Endangered | | S1 | G5 | |
| Vascular | *Mononeuria cumberlandensis* | Cumberland Sandwort | Endangered | SGCN | S1 | G3 | Delisted |
| Vascular | *Muhlenbergia bushii* | Bush's Muhly | Endangered | | S1S2 | G5 | |
| Vascular | *Myriopteris gracilis* | Fee's Lipfern | Endangered | | S1 | G5 | |
| Vascular | *Nabalus asper* | Rough Rattlesnake-root | Endangered | | S1 | G4? | |
| Vascular | *Nabalus barbatus* | Barbed Rattlesnake-root | Endangered | SGCN | S1 | G3 | |
| Vascular | *Nabalus racemosus* | Glaucous Rattlesnake-root | Endangered | | S1 | G5 | |
| Vascular | *Neottia bifolia* | Southern Twayblade | Endangered | | S1 | G5 | |
| Vascular | *Nestronia umbellula* | Conjurer's-nut | Endangered | | S1 | G4 | |
| Vascular | *Oenothera linifolia* | Thread-leaf Sundrops | Endangered | | S1S2 | G5 | |
| Vascular | *Opuntia humifusa* | Eastern Prickly-pear | Endangered | | S1S2 | G5 | |
| Vascular | *Palustricodon aparinoides var. aparinoides* | Marsh Bellflower | Endangered | | S1 | G5TNR | |
| Vascular | *Parnassia asarifolia* | Kidneyleaf Grass-of-parnassus | Endangered | SGCN | S1 | G4 | |
| Vascular | *Parnassia grandifolia* | Large-leaved Grass-of-parnassus | Endangered | | S1 | G3G4 | |
| Vascular | *Paronychia argyrocoma* | Silverling | Endangered | | S1 | G4 | |
| Vascular | *Paxistima canbyi* | Canby's Mountain-lover | Endangered | SGCN | S1 | G2? | |
| Vascular | *Pediomelum tenuiflorum* | Few-flowered Scurf-pea | Endangered | | S1 | G5 | |
| Vascular | *Phemeranthus calcaricus* | Limestone Fameflower | Endangered | SGCN | S1 | G3 | |
| Vascular | *Physaria globosa* | Globe Bladderpod | Endangered | SGCN | S1 | G2 | Endangered |
| Vascular | *Platanthera cristata* | Yellow-crested Orchid | Endangered | | S1 | G5 | |
| Vascular | *Platanthera integrilabia* | White Fringeless Orchid | Endangered | SGCN | S1 | G2 | Threatened |

| Appendix I: Rare Plant List | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Plant Type** | **Scientific Name** | **Common Name** | **State Status** | **SWAP Status** | **State Rank** | **Global Rank** | **U.S. Status** |
| Vascular | *Platanthera psycodes* | Small Purple-fringed Orchid | Endangered | | S1 | G5 | |
| Vascular | *Poa languida* | Drooping Bluegrass | Endangered | | S1S2 | G5T4Q | |
| Vascular | *Poa wolfii* | Wolf's bluegrass | Endangered | | S1 | G4 | |
| Vascular | *Pogonia ophioglossoides* | Rose Pogonia | Endangered | | S1 | G5 | |
| Vascular | *Polymnia laevigata* | Tennessee Leafcup | Endangered | SGCN | S1S2 | G3 | |
| Vascular | *Potamogeton amplifolius* | Large-leaf Pondweed | Endangered | | S1 | G5 | |
| Vascular | *Potamogeton epihydrus* | Nuttall Pondweed | Endangered | | S1 | G5 | |
| Vascular | *Potamogeton tennesseensis* | Tennessee Pondweed | Endangered | SGCN | S1 | G2G3 | Eligible Unlisted |
| Vascular | *Ptilimnium costatum* | Eastern Mock Bishop's-weed | Endangered | | S1 | G4 | |
| Vascular | *Pycnanthemum curvipes* | Stone Mountainmint | Endangered | | S1 | G3 | |
| Vascular | *Pycnanthemum muticum* | Blunt Mountainmint | Endangered | | S1 | G5 | |
| Vascular | *Rhododendron canescens* | Hoary Azalea | Endangered | | S1 | G5 | |
| Vascular | *Rhynchosia tomentosa* | Hairy Snoutbean | Endangered | | S1S2 | G5 | |
| Vascular | *Rhynchospora gracilenta* | Slender Beaksedge | Endangered | | S1? | G5 | |
| Vascular | *Rhynchospora macrostachya* | Tall Beaked-rush | Endangered | | S1 | G4 | |
| Vascular | *Ribes americanum* | Eastern Black Currant | Endangered | | S1 | G5 | |
| Vascular | *Rubus canadensis* | Smooth Blackberry | Endangered | | S1 | G5 | |
| Vascular | *Rudbeckia alismifolia* | Rough Coneflower | Endangered | | S1 | G5TNR | |
| Vascular | *Rudbeckia subtomentosa* | Sweet Coneflower | Endangered | | S1 | G5 | |
| Vascular | *Ruellia pedunculata* | Stalked Wild-petuna | Endangered | | S1 | G5 | |
| Vascular | *Sabatia brachiata* | Narrow-leaf Pink | Endangered | | S1 | G5? | |
| Vascular | *Sabatia campanulata* | Slender Marsh Pink | Endangered | | S1 | G4 | |
| Vascular | *Sabatia quadrangula* | Four Angled Rose Gentian | Endangered | | S1 | G4G5 | |
| Vascular | *Sabulina fontinalis* | Water Stitchwort | Endangered | SGCN | S1S2 | G3 | |
| Vascular | *Sagittaria platyphylla* | Delta Arrowhead | Endangered | | S1 | G5 | |

| Appendix I: Rare Plant List | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Plant Type** | **Scientific Name** | **Common Name** | **State Status** | **SWAP Status** | **State Rank** | **Global Rank** | **U.S. Status** |
| Vascular | *Sagittaria rigida* | Sessile-fruited Arrowhead | Endangered | | S1 | G5 | |
| Vascular | *Salvia urticifolia* | Nettle-leaf Sage | Endangered | | S1 | G4 | |
| Vascular | *Sambucus racemosa var. pubens* | Red Elderberry | Endangered | | S1S2 | G5T5 | |
| Vascular | *Sanguisorba canadensis* | Canada Burnet | Endangered | | S1 | G5 | |
| Vascular | *Schisandra glabra* | Bay Starvine | Endangered | SGCN | S1 | G3 | |
| Vascular | *Schoenoplectiella hallii* | Hall's Bulrush | Endangered | SGCN | S1 | G3 | |
| Vascular | *Scirpus expansus* | Woodland Beakrush | Endangered | | S1S2 | G4 | |
| Vascular | *Senega mariana* | Maryland Milkwort | Endangered | | S1 | G5 | |
| Vascular | *Silene nivea* | Snowy Campion | Endangered | | S1 | G4? | |
| Vascular | *Silene ovata* | Ovate Catchfly | Endangered | SGCN | S1 | G3 | |
| Vascular | *Silene regia* | Royal Catchfly | Endangered | SGCN | S1 | G3 | |
| Vascular | *Solidago austrina* | Southern Bog Goldenrod | Endangered | | S1 | GNR | |
| Vascular | *Solidago shortii* | Short's Goldenrod | Endangered | SGCN | S1 | G1G2 | Endangered |
| Vascular | *Sparganium eurycarpum var. eurycarpum* | Large Bur-reed | Endangered | | S1 | G5T5 | |
| Vascular | *Sphenopholis pensylvanica* | Swamp Wedgescale | Endangered | | S1 | G4 | |
| Vascular | *Spiraea alba* | Narrow-leaved Meadow-sweet | Endangered | | S1 | G5T5 | |
| Vascular | *Spiraea virginiana* | Virginia Spiraea | Endangered | SGCN | S1 | G2? | Threatened |
| Vascular | *Sporobolus heterolepis* | Northern Dropseed | Endangered | | S1 | G5 | |
| Vascular | *Stachys aspera* | Rough-leaved Hedge-nettle | Endangered | | S1 | G4? | |
| Vascular | *Streptopus lanceolatus var. lanceolatus* | Rosy Twisted-stalk | Endangered | | S1 | G5T5 | |
| Vascular | *Styrax grandifolius* | Bigleaf Snowbell | Endangered | | S1S2 | G5 | |
| Vascular | *Symphoricarpos albus var. albus* | Snowberry | Endangered | | S1 | G5T5 | |
| Vascular | *Tephrosia spicata* | Spiked Hoary-pea | Endangered | | S1S2 | G4G5 | |

| Appendix I: Rare Plant List | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Plant Type** | **Scientific Name** | **Common Name** | **State Status** | **SWAP Status** | **State Rank** | **Global Rank** | **U.S. Status** |
| Vascular | *Thermopsis mollis* | Soft-haired Thermopsis | Endangered | SGCN | S1 | G3G4 | |
| Vascular | *Thermopsis villosa* | Aaron's-rod | Endangered | | S1? | G3? | |
| Vascular | *Tomostima cuneifolia* | Wedge-leaf Whitlow-grass | Endangered | | S1 | G5 | |
| Vascular | *Toxicodendron vernix* | Poison Sumac | Endangered | | S1 | G5 | |
| Vascular | *Tragia urticifolia* | Nettle-leaf Noseburn | Endangered | | S1 | G5 | |
| Vascular | *Trichophorum planifolium* | Bashful Bulrush | Endangered | | S1 | G4 | |
| Vascular | *Trichostema setaceum* | Narrowleaved Bluecurls | Endangered | | S1 | G5 | |
| Vascular | *Trifolium kentuckiense* | Kentucky Clover | Endangered | SGCN | S1 | G1 | |
| Vascular | *Trifolium reflexum* | Buffalo Clover | Endangered | SGCN | S1S2 | G3G4 | |
| Vascular | *Trillium nivale* | Snow Trillium | Endangered | | S1 | G4 | |
| Vascular | *Trillium pusillum var. ozarkanum* | Ozark Least Trillium | Endangered | | S1 | G4T3 | |
| Vascular | *Trillium stamineum* | Twisted Trillium | Endangered | | S1 | G4 | |
| Vascular | *Triplasis purpurea var. purpurea* | Purple Sandgrass | Endangered | | S1 | G5T5 | |
| Vascular | *Utricularia macrorhiza* | Greater Bladderwort | Endangered | | S1 | G5 | |
| Vascular | *Uvularia puberula* | Mountain Bellwort | Endangered | | S1 | G5 | |
| Vascular | *Vaccinium erythrocarpum* | Southern Mountain Cranberry | Endangered | | S1 | G5 | |
| Vascular | *Viburnum lantanoides* | Alderleaved Viburnum | Endangered | | S1 | G5 | |
| Vascular | *Viburnum nudum* | Possumhaw | Endangered | | S1 | G5T5 | |
| Vascular | *Vicia minutiflora* | Smallflower Vetch | Endangered | | S1 | G5 | |
| Vascular | *Viola tripartita* | Three-parted Violet | Endangered | | S1 | G3 | |
| Vascular | *Woodsia appalachiana* | Appalachian Woodsia | Endangered | | S1 | G4 | |
| Vascular | *Xyris difformis* | Carolina Yellow-eyed-grass | Endangered | | S1 | G5 | |
| Vascular | *Actaea rubifolia* | Appalachian Bugbane | Threatened | SGCN | S2 | G3 | |
| Vascular | *Adiantum capillus-veneris* | Southern Maidenhair-fern | Threatened | | S2S3 | G5 | |
| Vascular | *Aesculus pavia var. pavia* | Red Buckeye | Threatened | | S2 | G5T5 | |

| Appendix I: Rare Plant List | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Plant Type** | **Scientific Name** | **Common Name** | **State Status** | **SWAP Status** | **State Rank** | **Global Rank** | **U.S. Status** |
| Vascular | *Allium stellatum* | Prairie Onion | Threatened | | S1 | G5 | |
| Vascular | *Aralia nudicaulis* | Wild Sarsaparilla | Threatened | | S2S3 | G5 | |
| Vascular | *Arisaema quinatum* | Southern Jack-in-the-pulpit | Threatened | | S2 | G5T5? | |
| Vascular | *Asclepias hirtella* | Prairie milkweed | Threatened | | S2 | G5 | |
| Vascular | *Astragalus canadensis var. canadensis* | Canadian Milk-vetch | Threatened | | S2 | G5T5 | |
| Vascular | *Avenella flexuosa* | Crinkled Hairgrass | Threatened | | S2 | G5 | |
| Vascular | *Baptisia leucophaea var. leucophaea* | Cream Wild Indigo | Threatened | | S2 | G4G5T4 T5 | |
| Vascular | *Baptisia tinctoria* | Yellow Wild Indigo | Threatened | | S1S2 | G5 | |
| Vascular | *Bartonia virginica* | Yellow Screwstem | Threatened | | S2 | G5 | |
| Vascular | *Berchemia scandens* | Supple-Jack | Threatened | | S1S2 | G5 | |
| Vascular | *Borodinia perstellata* | Braun's Rockcress | Threatened | SGCN | S2 | G2 | Endangered |
| Vascular | *Buchnera americana* | Bluehearts | Threatened | | S2 | G4? | |
| Vascular | *Cabomba caroliniana* | Carolina Fanwort | Threatened | | S2 | G5 | |
| Vascular | *Calamagrostis porteri* | Porter's Reedgrass | Threatened | | S2S3 | G4T4 | |
| Vascular | *Carex aestivalis* | Summer Sedge | Threatened | | S2 | G4 | |
| Vascular | *Carex alata* | Broadwing Sedge | Threatened | | S1S2 | G5? | |
| Vascular | *Carex appalachica* | Appalachian Sedge | Threatened | | S2 | G5? | |
| Vascular | *Carex crebriflora* | Coastal Plain Sedge | Threatened | | S2 | G4 | |
| Vascular | *Carex decomposita* | Epiphytic Sedge | Threatened | SGCN | S2 | G3G4 | |
| Vascular | *Carex gigantea* | Large Sedge | Threatened | | S2S3 | G4 | |
| Vascular | *Carex juniperorum* | Juniper Sedge | Threatened | SGCN | S2 | G3 | |
| Vascular | *Carex leptonervia* | Finely-nerved Sedge | Threatened | | S2 | G5 | |
| Vascular | *Carex longii* | Greenish-white Sedge | Threatened | | S2 | G5 | |
| Vascular | *Carex seorsa* | Weak Stellate Sedge | Threatened | | S2 | G5? | |
| Vascular | *Carex timida* | Timid Sedge | Threatened | SGCN | S2 | G2G4 | |

| Appendix I: Rare Plant List | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Plant Type** | **Scientific Name** | **Common Name** | **State Status** | **SWAP Status** | **State Rank** | **Global Rank** | **U.S. Status** |
| Vascular | *Carya aquatica* | Water Hickory | Threatened | | S2S3 | G5 | |
| Vascular | *Castanea pumila* | Allegheny Chinkapin | Threatened | | S2 | G5? | |
| Vascular | *Castilleja coccinea* | Scarlet Indian Paintbrush | Threatened | | S2 | G5 | |
| Vascular | *Centrosema virginianum* | Coastal Butterfly-pea | Threatened | | S1? | G5 | |
| Vascular | *Ceratophyllum echinatum* | Prickly Hornwort | Threatened | | S2? | G4 | |
| Vascular | *Chrysosplenium americanum* | American Golden-saxifrage | Threatened | | S2 | G5 | |
| Vascular | *Clematis catesbyana* | Satin-curls | Threatened | | S2 | G5 | |
| Vascular | *Clematis crispa* | Blue Jasmine Leather-flower | Threatened | | S2 | G5 | |
| Vascular | *Clematis glaucophylla* | White-leaved Leather-flower | Threatened | | S2 | G4? | |
| Vascular | *Clematis versicolor* | Pale Leatherflower | Threatened | | S2S3 | G5 | |
| Vascular | *Cypripedium parviflorum var. parviflorum* | Small Yellow Lady's-slipper | Threatened | | S2 | G5T5? | |
| Vascular | *Dalea candida* | White Prairie-clover | Threatened | | S2 | G5 | |
| Vascular | *Dalea purpurea* | Purple Prairie-clover | Threatened | | S2 | G5 | |
| Vascular | *Delphinium carolinianum ssp. calciphilum* | Carolina Larkspur | Threatened | | S1S2 | G5T2T4 | |
| Vascular | *Dichanthelium lucidum* | Shining Rosette Grass | Threatened | | S1? | G4 | |
| Vascular | *Echinochloa walteri* | Walter's Barnyard Grass | Threatened | | S1S2 | G5 | |
| Vascular | *Echinodorus berteroi* | Burhead | Threatened | | S2 | G5 | |
| Vascular | *Edrastima uniflora* | Clustered Bluets | Threatened | | S2? | G5 | |
| Vascular | *Elodea nuttallii* | Western Waterweed | Threatened | | S2 | G5 | |
| Vascular | *Elymus svensonii* | Svenson's Wildrye | Threatened | | S2S3 | G3 | |
| Vascular | *Eurybia hemispherica* | Tennessee Aster | Threatened | | S2 | G4 | |
| Vascular | *Eurybia saxicastelli* | Rockcastle Aster | Threatened | SGCN | S2 | G3 | |
| Vascular | *Fimbristylis puberula var. puberula* | Hairy Fimbristylis | Threatened | | S2 | G5T5 | |
| Vascular | *Fuirena simplex var. aristulata* | Western Umbrella Sedge | Threatened | | S1 | G5T4 | |

| Appendix I: Rare Plant List | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Plant Type** | **Scientific Name** | **Common Name** | **State Status** | **SWAP Status** | **State Rank** | **Global Rank** | **U.S. Status** |
| Vascular | *Gentiana flavida* | Yellow Gentian | Threatened | | S2 | G4 | |
| Vascular | *Gleditsia aquatica* | Water Locust | Threatened | | S2 | G5 | |
| Vascular | *Gratiola viscidula* | Short's Hedgehyssop | Threatened | | S2 | G4G5 | |
| Vascular | *Gymnopogon ambiguus* | Bearded Skeleton-grass | Threatened | | S2 | G4 | |
| Vascular | *Hedeoma hispida* | Rough Pennyroyal | Threatened | | S2 | G5 | |
| Vascular | *Heteranthera dubia* | Grassleaf Mud-plantain | Threatened | | S2 | G5 | |
| Vascular | *Heterotheca subaxillaris* | Broad-leaf Golden-aster | Threatened | | S2 | G5 | |
| Vascular | *Hieracium longipilum* | Hairy Hawkweed | Threatened | | S2 | G4G5 | |
| Vascular | *Hydrolea uniflora* | One-flower Fiddleleaf | Threatened | | S2 | G5 | |
| Vascular | *Hypericum crux-andreae* | St. Peter's-wort | Threatened | | S2S3 | G5 | |
| Vascular | *Iris brevicaulis* | Zigzag Iris | Threatened | | S2 | G4 | |
| Vascular | *Juglans cinerea* | White Walnut | Threatened | | S2S3 | G3 | |
| Vascular | *Leavenworthia torulosa* | Necklace Gladecress | Threatened | | S2 | G4 | |
| Vascular | *Lilium superbum* | Turk's Cap Lily | Threatened | | S1S2 | G5 | |
| Vascular | *Limnobium spongia* | American Frog's-bit | Threatened | | S2S3 | G4 | |
| Vascular | *Lithospermum parviflorum* | Hairy False Gromwell | Threatened | | S2 | G4G5T4 | |
| Vascular | *Lobelia nuttallii* | Nuttall's Lobelia | Threatened | | S2 | G4G5 | |
| Vascular | *Lonicera reticulata* | Grape Honeysuckle | Threatened | | S2 | G5 | |
| Vascular | *Lysimachia minima* | Chaffweed | Threatened | | S2 | G5 | |
| Vascular | *Maianthemum canadense* | Wild Lily-of-the-valley | Threatened | | S2 | G5 | |
| Vascular | *Malvastrum hispidum* | Hispid Falsemallow | Threatened | | S2 | G3G5 | |
| Vascular | *Matelea carolinensis* | Carolina Anglepod | Threatened | | S2 | GNR | |
| Vascular | *Melampyrum lineare var. latifolium* | American Cowwheat | Threatened | | S2 | G5T5 | |
| Vascular | *Melanthium parviflorum* | Appalachian Bunchflower | Threatened | | S2 | G4? | |
| Vascular | *Melanthium woodii* | Wood's Bunchflower | Threatened | | S2 | G5 | |

| Appendix I: Rare Plant List | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Plant Type** | **Scientific Name** | **Common Name** | **State Status** | **SWAP Status** | **State Rank** | **Global Rank** | **U.S. Status** |
| Vascular | *Micranthes petiolaris* | Michaux's Saxifrage | Threatened | | S2 | G4G5 | |
| Vascular | *Mononeuria glabra* | Appalachian Sandwort | Threatened | | S1S2 | G4 | |
| Vascular | *Monotropsis odorata* | Sweet Pinesap | Threatened | SGCN | S2 | G3 | |
| Vascular | *Muhlenbergia cuspidata* | Plains Muhly | Threatened | | S2 | G5 | |
| Vascular | *Nabalus albus* | White Rattlesnake-root | Threatened | | S2 | G5 | |
| Vascular | *Neottia smallii* | Kidney-leaf Twayblade | Threatened | | S2 | G4 | |
| Vascular | *Oclemena acuminata* | Whorled Aster | Threatened | | S2S3 | G5 | |
| Vascular | *Oenothera triloba* | Stemless Evening-primrose | Threatened | | S1S2 | G4 | |
| Vascular | *Orontium aquaticum* | Golden Club | Threatened | | S2 | G5 | |
| Vascular | *Packera paupercula var. paupercula* | Balsam Ragwort | Threatened | | S2 | G5TNR | |
| Vascular | *Packera paupercula var. pseudotomentosa* | Ozark ragwort | Threatened | | S2 | G5TNR | |
| Vascular | *Paspalum boscianum* | Bull Paspalum | Threatened | | S2? | G5 | |
| Vascular | *Perideridia americana* | Eastern Yampah | Threatened | | S2 | G4 | |
| Vascular | *Phemeranthus teretifolius* | Roundleaf Fameflower | Threatened | | S2 | G4 | |
| Vascular | *Philadelphus pubescens* | Hoary Mock Orange | Threatened | | S2 | G5? | |
| Vascular | *Phlox bifida ssp. stellaria* | Starry-cleft Phlox | Threatened | | S2 | G5?T3 | |
| Vascular | *Podostemum ceratophyllum* | Threadfoot | Threatened | | S2S3 | G4 | |
| Vascular | *Pontederia cordata var. cordata* | Pickerelweed | Threatened | | S1S2 | G5T5 | |
| Vascular | *Potamogeton illinoensis* | Illinois Pondweed | Threatened | | S2 | G5 | |
| Vascular | *Potamogeton pulcher* | Spotted Pondweed | Threatened | | S2S3 | G5 | |
| Vascular | *Ptilimnium capillaceum* | Mock Bishop's-weed | Threatened | | S1S2 | G5 | |
| Vascular | *Ptilimnium nuttallii* | Nuttall's Mock Bishop's-weed | Threatened | | S2 | G5? | |
| Vascular | *Pycnanthemum torreyi* | Whorled Mountain-mint | Threatened | SGCN | S2 | G2 | |
| Vascular | *Quercus nigra* | Water Oak | Threatened | | S2 | G5 | |

| Appendix I: Rare Plant List | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Plant Type** | **Scientific Name** | **Common Name** | **State Status** | **SWAP Status** | **State Rank** | **Global Rank** | **U.S. Status** |
| Vascular | *Quercus texana* | Nuttall's Oak | Threatened | | S2S3 | G4G5 | |
| Vascular | *Ranunculus ambigens* | Waterplantain Spearwort | Threatened | | S2? | G2 | |
| Vascular | *Pariosida hermaphrodita* | Virginia Mallow | Threatened | SGCN | S2 | G3 | |
| Vascular | *Rorippa aquatica* | Lakecress | Threatened | | S1S2 | G4? | |
| Vascular | *Sagittaria graminea* | Grassleaf Arrowhead | Threatened | | S2S3 | G5 | |
| Vascular | *Schizachne purpurascens* | Purple Oat | Threatened | | S2 | G5 | |
| Vascular | *Scleria ciliata var. ciliata* | Fringed Nutrush | Threatened | | S2? | G5TNR | |
| Vascular | *Scutellaria saxatilis* | Rock Skullcap | Threatened | SGCN | S2 | G3G4 | |
| Vascular | *Senecio suaveolens* | Sweet-scented Indian-plantain | Threatened | | S2S3 | G4 | |
| Vascular | *Senega aquilonia* | Crossleaf Milkwort | Threatened | | S2 | G4 | |
| Vascular | *Senega polygama* | Racemed Milkwort | Threatened | | S2 | G5 | |
| Vascular | *Silphium laciniatum* | Compassplant | Threatened | | S2 | G5 | |
| Vascular | *Silphium wasiotense* | Appalachian Rosinweed | Threatened | SGCN | S2 | G3 | |
| Vascular | *Solidago albopilosa* | White-haired Goldenrod | Threatened | SGCN | S2 | G2 | Delisted |
| Vascular | *Solidago roanensis* | Roan Mountain Goldenrod | Threatened | | S1S2 | G4G5 | |
| Vascular | *Sophronanthe pilosa* | Shaggy Hedgehyssop | Threatened | | S2 | G5? | |
| Vascular | *Spiranthes lucida* | Shining Ladies'-tresses | Threatened | | S2S3 | G4 | |
| Vascular | *Spiranthes magnicamporum* | Great Plains Ladies'-tresses | Threatened | | S2 | G3G4 | |
| Vascular | *Spiranthes ochroleuca* | Yellow Nodding Ladies'-tresses | Threatened | | S2 | G5 | |
| Vascular | *Sporobolus clandestinus* | Rough Dropseed | Threatened | | S2S3 | G4G5 | |
| Vascular | *Stenanthium gramineum var. gramineum* | Eastern Featherbells | Threatened | | S3 | G4T4 | |
| Vascular | *Stenanthium gramineum var. robustum* | Bog Featherbells | Threatened | | SU | G4T3 | |
| Vascular | *Symphyotrichum concolor var. concolor* | Eastern Silvery Aster | Threatened | | S2 | G5T5 | |

| Appendix I: Rare Plant List | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Plant Type** | **Scientific Name** | **Common Name** | **State Status** | **SWAP Status** | **State Rank** | **Global Rank** | **U.S. Status** |
| Vascular | *Symphyotrichum kentuckiense* | Price's Aster | Threatened | | S2 | G3G5 | |
| Vascular | *Symphyotrichum puniceum var. puniceum* | Swamp Aster | Threatened | | S2S3 | G5T5 | |
| Vascular | *Taxus canadensis* | Canadian Yew | Threatened | | S2S3 | G5 | |
| Vascular | *Thaspium pinnatifidum* | Cutleaf Meadow-parsnip | Threatened | SGCN | S2S3 | G2G3 | |
| Vascular | *Thuja occidentalis* | Northern White Cedar | Threatened | | S2S3 | G5 | |
| Vascular | *Trifolium stoloniferum* | Running Buffalo Clover | Threatened | SGCN | S2S3 | G3 | Delisted |
| Vascular | *Trillidium undulatum* | Painted Trillium | Threatened | | S2 | G5 | |
| Vascular | *Viburnum molle* | Kentucky Arrow-wood | Threatened | | S2 | G3 | |
| Vascular | *Viola walteri* | Walter's Violet | Threatened | | S2 | G5 | |
| Vascular | *Vitis rupestris* | Sand Grape | Threatened | SGCN | S2 | G3 | |
| Vascular | *Zizaniopsis miliacea* | Southern Wild Rice | Threatened | | S1S2 | G5 | |
| Vascular | *Ageratina lucy-brauniae* | Lucy Braun's White Snakeroot | Special Concern | SGCN | S3 | G3 | |
| Vascular | *Asclepias purpurascens* | Purple Milkweed | Special Concern | | S3 | G4G5 | |
| Vascular | *Aureolaria patula* | Spreading False Foxglove | Special Concern | SGCN | S3 | G3 | |
| Vascular | *Baptisia australis* | Tall Blue Wild Indigo | Special Concern | | S2S3 | G3G4 | |
| Vascular | *Bouteloua curtipendula var. curtipendula* | Side-oats Grama | Special Concern | | S3? | G5T5 | |
| Vascular | *Capnoides sempervirens* | Rock Harlequin | Special Concern | | S3 | G5 | |
| Vascular | *Carex austrocaroliniana* | Tarheel Sedge | Special Concern | | S2 | G4 | |
| Vascular | *Carex corrugata* | Prune-fruit Sedge | Special Concern | | S3? | G5? | |
| Vascular | *Carex crawei* | Crawe's Sedge | Special Concern | | S3 | G5 | |
| Vascular | *Carex stipata var. maxima* | Stalkgrain Sedge | Special Concern | | S3? | G5T5? | |
| Vascular | *Carex superata* | Limestone Forest Sedge | Special Concern | | S2S3 | G4? | |
| Vascular | *Chelone obliqua var. speciosa* | Rose Turtlehead | Special Concern | | S3 | G4T3 | |
| Vascular | *Circaea alpina ssp. alpina* | Small Enchanter's Nightshade | Special Concern | | S3 | G5T5 | |

| Appendix I: Rare Plant List | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Plant Type** | **Scientific Name** | **Common Name** | **State Status** | **SWAP Status** | **State Rank** | **Global Rank** | **U.S. Status** |
| Vascular | *Clinopodium glabellum* | Savory | Special Concern | SGCN | S2 | G3Q | |
| Vascular | *Coleataenia longifolia ssp. longifolia* | Long-leaved Panic Grass | Special Concern | | S3 | G5T5? | |
| Vascular | *Coreopsis pubescens var. pubescens* | Star Tickseed | Special Concern | | S2S3 | G5?T4T5 | |
| Vascular | *Crepidomanes intricatum* | Grotto-felt | Special Concern | | S3 | G4 | |
| Vascular | *Decodon verticillatus* | Hairy Swamp Loosestrife | Special Concern | | S3 | G5 | |
| Vascular | *Dichanthelium angustifolium* | Narrow-leaved Witchgrass | Special Concern | | S3 | G5T5 | |
| Vascular | *Dichanthelium tenue* | White-margin Panic Grass | Special Concern | | S3 | G5T4T5 | |
| Vascular | *Dicliptera brachiata* | Wild Mudwort | Special Concern | | S2S3 | G5 | |
| Vascular | *Draba ramosissima* | Branching Whitlow Grass | Special Concern | | S3 | G4 | |
| Vascular | *Dryopteris carthusiana* | Spinulose Wood Fern | Special Concern | | S3 | G5 | |
| Vascular | *Dulichium arundinaceum var. arundinaceum* | Three-way Sedge | Special Concern | | S3 | G5T5 | |
| Vascular | *Erythronium rostratum* | Yellow Troutlily | Special Concern | | S3 | G5 | |
| Vascular | *Euphorbia mercurialina* | Mercury Spurge | Special Concern | | S3 | G4 | |
| Vascular | *Festuca paradoxa* | Cluster Fescue | Special Concern | | S3? | G5 | |
| Vascular | *Fimbristylis perpusilla* | Harper's Fimbry | Special Concern | SGCN | S1? | G2 | Eligible Unlisted |
| Vascular | *Floerkea proserpinacoides* | False Mermaid-weed | Special Concern | | S3 | G5 | |
| Vascular | *Forestiera ligustrina* | Upland Privet | Special Concern | | S3 | G4G5 | |
| Vascular | *Froelichia campestris* | Plains Snakecotton | Special Concern | | S3? | G5T4T5 | |
| Vascular | *Glyceria arkansana* | Arkansas Manna-grass | Special Concern | | S2S3 | G4 | |
| Vascular | *Gnaphalium uliginosum* | Low Cudweed | Special Concern | | S3? | G5 | |
| Vascular | *Grindelia lanceolata* | Narrow-leaf Gumweed | Special Concern | | S1? | G3G5 | |
| Vascular | *Halesia tetraptera* | Common Silverbell | Special Concern | | S3 | G5 | |
| Vascular | *Helianthus eggertii* | Eggert's Sunflower | Special Concern | SGCN | S3 | G3 | Delisted |

| Appendix I: Rare Plant List | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Plant Type** | **Scientific Name** | **Common Name** | **State Status** | **SWAP Status** | **State Rank** | **Global Rank** | **U.S. Status** |
| Vascular | *Heteranthera limosa* | Blue Mud-plantain | Special Concern | | S2S3 | G5 | |
| Vascular | *Hypericum canadense* | Canadian St. John's-wort | Special Concern | | S3 | G5 | |
| Vascular | *Juncus articulatus* | Jointed Rush | Special Concern | | S2S3 | G5 | |
| Vascular | *Juncus filipendulus* | Ringseed Rush | Special Concern | | S3 | G5 | |
| Vascular | *Lathyrus venosus* | Smooth Veiny Peavine | Special Concern | | S3 | G5 | |
| Vascular | *Lespedeza capitata* | Round-head Bush-clover | Special Concern | | S3 | G5 | |
| Vascular | *Liparis loeselii* | Loesel's Twayblade | Special Concern | | S3 | G5 | |
| Vascular | *Malus ioensis* | Iowa Crabapple | Special Concern | | S2? | G4 | |
| Vascular | *Melanthera nivea* | Snow Squarestem | Special Concern | | S3? | G5 | |
| Vascular | *Muhlenbergia glabrifloris* | Hair Grass | Special Concern | | S3 | G4? | |
| Vascular | *Myriophyllum heterophyllum* | Broadleaf Water-milfoil | Special Concern | | S3? | G5 | |
| Vascular | *Najas gracillima* | Thread-like Naiad | Special Concern | | S2S3 | G4G5 | |
| Vascular | *Oenothera filiformis* | Long-flower Gaura | Special Concern | | S3? | G4G5 | |
| Vascular | *Orbexilum onobrychis* | French-grass | Special Concern | | S3 | G5 | |
| Vascular | *Patis racemosa* | Black-fruit Mountain-ricegrass | Special Concern | | S3? | G5 | |
| Vascular | *Phacelia ranunculacea* | Blue Scorpion-weed | Special Concern | | S3 | G4 | |
| Vascular | *Phlox carolina* | Thick-leaved Phlox | Special Concern | | S3 | G5? | |
| Vascular | *Phlox subulata* | Moss Phlox | Special Concern | | S3 | G5 | |
| Vascular | *Polygonum prolificum* | Bushy Knotweed | Special Concern | | S3? | G5T4T5 | |
| Vascular | *Polygonum ramosissimum* | Bushy Knotweed | Special Concern | | S3? | G5 | |
| Vascular | *Polygonum tenue* | Slender Knotweed | Special Concern | | S3 | G5 | |
| Vascular | *Primula frenchii* | French's Shooting Star | Special Concern | SGCN | S3 | G3? | |
| Vascular | *Prosartes maculata* | Nodding Mandarin | Special Concern | | S3 | G4 | |
| Vascular | *Prunus virginiana var. virginiana* | Choke Cherry | Special Concern | | S3? | G5T5 | |
| Vascular | *Ranunculus harveyi* | Harvey's Buttercup | Special Concern | | S3 | G4 | |

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|---|---|---|---|---|---|---|---|
| **Plant Type** | **Scientific Name** | **Common Name** | **State Status** | **SWAP Status** | **State Rank** | **Global Rank** | **U.S. Status** |
| Vascular | *Ranunculus laxicaulis* | Mississippi Buttercup | Special Concern | | S3 | G5? | |
| Vascular | *Ranunculus longirostris* | Longbeak Buttercup | Special Concern | | S2S3 | GNR | |
| Vascular | *Robinia hispida var. rosea* | Purple Locust | Special Concern | | S2S3 | G4T3? | |
| Vascular | *Rudbeckia truncata* | Narrow-leaved Orange Coneflower | Special Concern | | S3 | G2G3 | |
| Vascular | *Salvia azurea var. grandiflora* | Blue Sage | Special Concern | | S3 | G4G5T4? | |
| Vascular | *Scutellaria serrata* | Showy Skullcap | Special Concern | | S3 | G4G5 | |
| Vascular | *Silphium pinnatifidum* | Tansy Rosinweed | Special Concern | | S3 | G3Q | |
| Vascular | *Solidago arenicola* | Southern Racemose Goldenrod | Special Concern | SGCN | S3 | G3 | |
| Vascular | *Solidago buckleyi* | Buckley's Goldenrod | Special Concern | | S3 | G4 | |
| Vascular | *Solidago faucibus* | Gorge Goldenrod | Special Concern | SGCN | S3 | G3G4 | |
| Vascular | *Solidago patula* | Roundleaf Goldenrod | Special Concern | | S3 | G5 | |
| Vascular | *Solidago puberula* | Downy Goldenrod | Special Concern | | S2S3 | G5 | |
| Vascular | *Solidago racemosa* | Rand's Goldenrod | Special Concern | | S3 | G5T3? | |
| Vascular | *Stellaria longifolia* | Longleaf Stitchwort | Special Concern | | S2S3 | G5 | |
| Vascular | *Symphyotrichum pratense* | Barrens Silky Aster | Special Concern | | S3 | G4? | |
| Vascular | *Thalictrum coriaceum* | Leatherleaf Meadow-rue | Special Concern | | S3? | G4 | |
| Vascular | *Vallisneria americana* | Eelgrass | Special Concern | | S2S3 | G5 | |
| Vascular | *Vandenboschia boschiana* | Appalachian Filmy Fern | Special Concern | | S3 | G4 | |
| Vascular | *Viburnum rafinesqueanum* | Downy Arrowwood | Special Concern | | S3 | G5 | |
| Vascular | *Viola egglestonii* | Eggleston's Violet | Special Concern | | S3 | G4 | |
| Vascular | *Viola emarginata* | Triangle-leaved Violet | Special Concern | | S3 | GNRTNR | |
| Vascular | *Viola glaberrima* | Northern Wedgeleaf Violet | Special Concern | | S2S3 | GNR | |
| Vascular | *Vitis labrusca* | Northern Fox Grape | Special Concern | | S3 | G5 | |

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|---|---|---|---|---|---|---|---|
| **Plant Type** | **Scientific Name** | **Common Name** | **State Status** | **SWAP Status** | **State Rank** | **Global Rank** | **U.S. Status** |
| Vascular | *Wolffiella gladiata* | Sword Bogmat | Special Concern | | S3 | G4G5 | |
| Vascular | *Xyris torta* | Twisted Yellow-eyed-grass | Special Concern | | S2S3 | G5 | |
| Vascular | *Cypripedium parviflorum var. pubescens* | Large Yellow Lady's-slipper | Commercially Exploited | | S3 | G5T5 | |
| Vascular | *Panax quinquefolius* | American Ginseng | Commercially Exploited | | S3 | G3G4 | |
| Vascular | *Abdra aprica* | Open-ground Whitlow-grass | Historic | SGCN | SH | G3 | |
| Vascular | *Angelica atropurpurea* | Great Angelica | Historic | | SH | G5 | |
| Vascular | *Arabis pycnocarpa* | Slender rockcress | Historic | | SH | G5T5 | |
| Vascular | *Aristida ramosissima* | Branched Three-awn Grass | Historic | | SH | G5 | |
| Vascular | *Borodinia missouriensis* | Missouri Rockcress | Historic | | SH | G5 | |
| Vascular | *Calamagrostis canadensis var. macouniana* | Blue-joint Reedgrass | Historic | | SH | G5T4T5 | |
| Vascular | *Carex canescens* | Hoary Sedge | Historic | | SH | G5 | |
| Vascular | *Carex comosa* | Bristly Sedge | Historic | | SH | G5 | |
| Vascular | *Carex hystericina* | Porcupine Sedge | Historic | | SH | G5 | |
| Vascular | *Crocanthemum bicknellii* | Plains Frostweed | Historic | | SH | G5 | |
| Vascular | *Cyperus lupulinus var. macilentus* | Great Plains Flatsedge | Historic | | SH | G5T5 | |
| Vascular | *Cyperus plukenetii* | Plukenet's Cyperus | Historic | | SH | G5 | |
| Vascular | *Eriogonum harperi* | Harper's Wild-buckwheat | Historic | SGCN | SH | G4T1T2 | |
| Vascular | *Eupatorium semiserratum* | Small-flower Thoroughwort | Historic | | SH | G5 | |
| Vascular | *Eutrochium maculatum var. maculatum* | Spotted Joe-pye Weed | Historic | | SH | G5T5 | |
| Vascular | *Heteranthera rotundifolia* | Roundleaf Mud-plantain | Historic | | SH | G4? | |
| Vascular | *Hypericum nudiflorum* | Pretty St. John's-wort | Historic | | SH | G5 | |
| Vascular | *Ilex mucronata* | Catberry | Historic | | SH | G5 | |

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|---|---|---|---|---|---|---|---|
| **Plant Type** | **Scientific Name** | **Common Name** | **State Status** | **SWAP Status** | **State Rank** | **Global Rank** | **U.S. Status** |
| Vascular | *Juncus elliottii* | Bog Rush | Historic | | SH | G4G5 | |
| Vascular | *Lathyrus ochroleucus* | Cream Vetchling | Historic | | SH | G5 | |
| Vascular | *Lithospermum incisum* | Narrowleaf Gromwell | Historic | | SH | G5 | |
| Vascular | *Lithospermum molle* | Soft-hairy False-gromwell | Historic | | SH | G4G5T3 | |
| Vascular | *Lycopus uniflorus* | Northern Bugleweed | Historic | | SH | G5 | |
| Vascular | *Lysimachia quadriflora* | Four-flowered Loosestrife | Historic | | SH | G5? | |
| Vascular | *Magnolia pyramidata* | Pyramid Magnolia | Historic | | SH | G4 | |
| Vascular | *Micranthes forbesii* | Swamp Saxifrage | Historic | | SH | G4Q | |
| Vascular | *Myriophyllum pinnatum* | Cutleaf Water-milfoil | Historic | | SH | G5 | |
| Vascular | *Myriopteris alabamensis* | Alabama Lipfern | Historic | | SH | G5 | |
| Vascular | *Myzorrhiza riparia* | Louisiana Broomrape | Historic | | SH | G4? | |
| Vascular | *Oxalis macrantha* | Price's Yellow Wood Sorrel | Historic | | SH | G2G4 | |
| Vascular | *Packera crawfordii* | Crawford's Ragwort | Historic | | SH | G2 | |
| Vascular | *Paysonia lescurii* | Lescur's Bladderpod | Historic | | SH | G3 | |
| Vascular | *Phlox bifida ssp. bifida* | Cleft Phlox | Historic | | SH | G5?T5? | |
| Vascular | *Pseudognaphalium micradenium* | Small Rabbit-tobacco | Historic | | SH | G4G5T3? | |
| Vascular | *Pycnanthemum albescens* | Whiteleaf Mountainmint | Historic | | SH | G5 | |
| Vascular | *Sabatia campestris* | Prairie Pink | Historic | | SH | G5? | |
| Vascular | *Salix amygdaloides* | Peach-leaved Willow | Historic | | SH | G5 | |
| Vascular | *Salix discolor* | Pussy Willow | Historic | | SH | G5 | |
| Vascular | *Sceptridium oneidense* | Blunt-lobe Grape-fern | Historic | | SH | G4 | |
| Vascular | *Schoenoplectus heterochaetus* | Slender Bulrush | Historic | | SH | G5 | |
| Vascular | *Schwalbea americana* | Chaffseed | Historic | SGCN | SH | G2 | Endangered |
| Vascular | *Scleria muehlenbergii* | Pitted Nut-rush | Historic | | SH | G5 | |
| Vascular | *Senega nuttallii* | Nuttall's Milkwort | Historic | | SH | G4 | |

| Appendix I: Rare Plant List | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Plant Type** | **Scientific Name** | **Common Name** | **State Status** | **SWAP Status** | **State Rank** | **Global Rank** | **U.S. Status** |
| Vascular | *Smilax biltmoreana* | Biltmore Carrionflower | Historic | | SH | G4 | |
| Vascular | *Solidago squarrosa* | Squarrose Goldenrod | Historic | | SH | G5 | |
| Vascular | *Spiranthes odorata* | Sweetscent Ladies'-tresses | Historic | | SH | G5 | |
| Vascular | *Stillingia sylvatica* | Queen's Delight | Historic | | SH | G5 | |
| Vascular | *Torreyochloa pallida* | Pale Manna Grass | Historic | | SH | G5 | |
| Vascular | *Utricularia cornuta* | Horned Bladderwort | Historic | | SH | G5 | |
| Vascular | *Veronica americana* | American Speedwell | Historic | | SH | G5 | |
| Vascular | *Zizania palustris var. interior* | Indian Wild Rice | Historic | | SH | G5T4T5 | |
| Vascular | *Anemonastrum canadense* | Canada Anemone | Extirpated | | SX | G5 | |
| Vascular | *Argyrochosma dealbata* | Powdery Cloakfern | Extirpated | | SX | G4G5 | |
| Vascular | *Callirhoe alcaeoides* | Clustered Poppy-mallow | Extirpated | | SX | G5? | |
| Vascular | *Caltha palustris var. palustris* | Marsh Marigold | Extirpated | | SX | G5T5 | |
| Vascular | *Carex vesicaria* | Inflated Sedge | Extirpated | | SX | G5 | |
| Vascular | *Cypripedium reginae* | Showy Lady's-slipper | Extirpated | | SX | G4G5 | |
| Vascular | *Dactylorhiza viridis* | Long-bract Green Orchis | Extirpated | | SX | G5 | |
| Vascular | *Dryopteris ludoviciana* | Southern Shield Wood Fern | Extirpated | | SX | G5 | |
| Vascular | *Lysimachia fraseri* | Fraser's Loosestrife | Extirpated | | SX | G3 | |
| Vascular | *Monarda punctata var. villicaulis* | Spotted Bee-balm | Extirpated | | SX | G5T5? | |
| Vascular | *Orbexilum stipulatum* | Stipuled Scurf-pea | Extirpated | | SX | GX | |
| Vascular | *Pedicularis lanceolata* | Swamp Lousewort | Extirpated | | SX | G4 | |
| Vascular | *Physostegia intermedia* | Slender Dragon-head | Extirpated | | SX | G5 | |
| Vascular | *Plantago cordata* | Heart-leaved Plantain | Extirpated | | SX | G3 | |
| Vascular | *Polytaenia nuttallii* | Nuttall's Prairie Parsley | Extirpated | | SX | G5 | |
| Vascular | *Pyrola americana* | American Wintergreen | Extirpated | | SX | G5 | |
| Vascular | *Xerophyllum asphodeloides* | Eastern Turkeybeard | Extirpated | | SX | G4 | |

| Appendix I: Rare Plant List | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Plant Type** | **Scientific Name** | **Common Name** | **State Status** | **SWAP Status** | **State Rank** | **Global Rank** | **U.S. Status** |
| Nonvascular | *Abietinella abietina* | Wiry Fern Moss | Endangered | | S1 | G5 | |
| Nonvascular | *Anastrophyllum michauxii* | Michaux's Notchwort | Endangered | | S1 | G5 | |
| Nonvascular | *Anomodon rugelii* | Rugel's Anomodon Moss | Endangered | | S1 | G5 | |
| Nonvascular | *Brachelyma subulatum* | Moss | Endangered | | S1 | G4G5 | |
| Nonvascular | *Calypogeia peruviana* | Liverwort | Endangered | | S1 | G5 | |
| Nonvascular | *Cryphaea nervosa* | Thread Cedar Moss | Endangered | | S1 | G4? | |
| Nonvascular | *Dichelyma capillaceum* | Hairlike Claw Moss | Endangered | | S1 | G5 | |
| Nonvascular | *Didymodon rigidulus* | Rigid Beard Moss | Endangered | | S1 | G5 | |
| Nonvascular | *Drepanolejeunea appalachiana* | Appalachian Threadwort | Endangered | | S1 | G3 | |
| Nonvascular | *Entodon brevisetus* | Short-stalk Shiny Moss | Endangered | | S1 | G4? | |
| Nonvascular | *Herpetineuron toccoae* | Coiled Moss | Endangered | | S1 | G4G5 | |
| Nonvascular | *Herzogiella turfacea* | Flat Stump Moss | Endangered | | S1 | G5 | |
| Nonvascular | *Imbribryum miniatum* | Red Thread Moss | Endangered | | S1 | G4G5 | |
| Nonvascular | *Lejeunea lamacerina ssp. gemminata* | Liverwort | Endangered | | S1 | G5T4 | |
| Nonvascular | *Lepidozia reptans* | Creeping Fingerwort | Endangered | | S1 | G5 | |
| Nonvascular | *Marsupella paroica* | Dull Rustwort | Endangered | | S1 | G3 | |
| Nonvascular | *Orthotrichum diaphanum* | White-tipped Bristle Moss | Endangered | | S1 | G5 | |
| Nonvascular | *Plagiochila caduciloba* | Gorge Leafy Liverwort | Endangered | | S1 | G3 | |
| Nonvascular | *Plagiochila undata* | Liverwort | Endangered | | S1 | G4G5 | |
| Nonvascular | *Polytrichum piliferum* | Bristly Haircap Moss | Endangered | | S1 | G5 | |
| Nonvascular | *Polytrichum strictum* | Strict Haircap | Endangered | | S1? | G5 | |
| Nonvascular | *Porella japonica ssp. appalachiana* | Liverwort | Endangered | | S1 | G4T1T2 | |
| Nonvascular | *Ptilidium pulcherrimum* | Naugehyde Liverwort | Endangered | | S1 | G5 | |
| Nonvascular | *Ptychostomum cryophilum* | Roundleaf Bryum | Endangered | | S1 | GU | |

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|---|---|---|---|---|---|---|---|
| **Plant Type** | **Scientific Name** | **Common Name** | **State Status** | **SWAP Status** | **State Rank** | **Global Rank** | **U.S. Status** |
| Nonvascular | *Radula quadrata* | Liverwort | Endangered | | S1 | G4 | |
| Nonvascular | *Schistidium atrofuscum* | Black Mountain Bloom Moss | Endangered | | S1 | G2G3 | |
| Nonvascular | *Sciuro-hypnum populeum* | Matted Ragged Moss | Endangered | | S1 | G5 | |
| Nonvascular | *Sphagnum centrale* | Central Peatmoss | Endangered | | S1 | G5 | |
| Nonvascular | *Sphagnum cuspidatum* | Toothed Peatmoss | Endangered | | S1 | G5 | |
| Nonvascular | *Sphagnum macrophyllum* | Largeleaf Peatmoss | Endangered | | S1 | G5 | |
| Nonvascular | *Sphagnum magellanicum* | Magellan's Peatmoss | Endangered | | S1 | | |
| Nonvascular | *Sphagnum trinitense* | Trinidad Peatmoss | Endangered | | S1 | G4 | |
| Nonvascular | *Tortula acaulon* | Cuspidate Earth Moss | Endangered | | S1 | G5 | |
| Nonvascular | *Tortula norvegica* | Norway Screw Moss | Endangered | | S1 | G5 | |
| Nonvascular | *Zygodon viridissimus* | Green Yoke Moss | Endangered | | S2 | G5 | |
| Nonvascular | *Anomodon viticulosus* | Long-tail Moss | Threatened | | S2 | G5 | |
| Nonvascular | *Blepharostoma trichophyllum* | Hairy Threadwort | Threatened | | S3 | G5 | |
| Nonvascular | *Callicladium haldanianum* | Beautiful Branch Moss | Threatened | | S2 | G5 | |
| Nonvascular | *Campylopus pilifer* | Stiff Swan-neck Moss | Threatened | | S2 | G4G5 | |
| Nonvascular | *Cephaloziella spinicaulis* | Liverwort | Threatened | | S2 | G4 | |
| Nonvascular | *Cheilolejeunea conchifolia* | Liverwort | Threatened | | S2 | G4 | |
| Nonvascular | *Cleistocarpidium palustre* | Marsh Pygmy Moss | Threatened | | S2 | G5? | |
| Nonvascular | *Dichodontium pellucidum* | Translucent Fork Moss | Threatened | | S2 | G5 | |
| Nonvascular | *Dicranodontium asperulum* | Orange Bow Moss | Threatened | | S2 | G4G5 | |
| Nonvascular | *Drepanocladus polygamus* | Polygamous Hook Moss | Threatened | | S2 | G5 | |
| Nonvascular | *Encalypta procera* | Slender Candlesnuffer Moss | Threatened | | S2 | G5 | |
| Nonvascular | *Ephemerum cohaerens* | Clustered Earth Moss | Threatened | | S2 | G4G5 | |
| Nonvascular | *Herbertus aduncus* | Bent Scissorleaf Liverwort | Threatened | | S2 | G5 | |
| Nonvascular | *Lejeunea blomquistii* | Blomquist Leafy Liverwort | Threatened | | S2 | G3 | |
| Nonvascular | *Metzgeria leptoneura* | Liverwort | Threatened | | S2 | G5 | |

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|---|---|---|---|---|---|---|---|
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| Nonvascular | *Nardia lescurii* | Liverwort | Threatened | | S2 | G3? | |
| Nonvascular | *Neckera besseri* | Besser's Neckera Moss | Threatened | | S2 | G4G5 | |
| Nonvascular | *Neckera pennata* | Feathery Neckera Moss | Threatened | | S2 | G5 | |
| Nonvascular | *Oncophorus rauei* | Rau's Spur Moss | Threatened | | S2 | G3 | |
| Nonvascular | *Polytrichastrum pallidisetum* | A Hair Cap Moss | Threatened | | S2? | G5 | |
| Nonvascular | *Porella wataugensis* | Watauga Porella | Threatened | | S3 | | |
| Nonvascular | *Radula tenax* | Liverwort | Threatened | | S2 | G3G4 | |
| Nonvascular | *Sphagnum quinquefarium* | Five-ranked Bogmoss | Threatened | | S2 | G5 | |
| Nonvascular | *Sphagnum rubellum* | Red Peatmoss | Threatened | | S2 | G5 | |
| Nonvascular | *Telaranea nematodes* | Liverwort | Threatened | | S2 | G5 | |
| Nonvascular | *Timmia megapolitana* | Warrior Moss | Threatened | | S2 | G5 | |
| Nonvascular | *Atrichum cylindricum* | Cylindrical Smoothcap Moss | Special Concern | | S3 | G5 | |
| Nonvascular | *Bruchia flexuosa* | Bending Bruch's Moss | Special Concern | | S3 | G4 | |
| Nonvascular | *Campylostelium saxicola* | Sandstone Swan-neck Moss | Special Concern | | S3 | G3G5 | |
| Nonvascular | *Conardia compacta* | Coast Creeping Moss | Special Concern | | S3 | G5 | |
| Nonvascular | *Douinia ovata* | Liverwort | Special Concern | | S3 | G5 | |
| Nonvascular | *Entodon sullivantii* | Sullivant's Silk Moss | Special Concern | | S3 | G3G4 | |
| Nonvascular | *Frullania plana* | Liverwort | Special Concern | | S3 | G4 | |
| Nonvascular | *Heterophyllium affine* | Moss | Special Concern | | S3 | G5 | |
| Nonvascular | *Jochenia pallescens* | Stump Pit Moss | Special Concern | | S3 | G5 | |
| Nonvascular | *Leucodon brachypus* | Bracted Squirrel-tail Moss | Special Concern | | S3 | G5 | |
| Nonvascular | *Microlejeunea globosa* | Cardot's Pouncewort | Special Concern | | S3 | G3? | |
| Nonvascular | *Plagiochila echinata* | Liverwort | Special Concern | | S3 | G3 | |
| Nonvascular | *Plagiochila sullivantii* | Sullivant's Leafy Liverwort | Special Concern | | S3 | G3G4 | |
| Nonvascular | *Plagiothecium laetum* | Bright Silk Moss | Special Concern | | S3 | G5 | |
| Nonvascular | *Tortella tortuosa* | Frizzled Crisp Moss | Special Concern | | S3 | G5 | |

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| Nonvascular | *Paraleucobryum longifolium* | Longleaf Notchleaf Moss | Historic | | SH | G5 | |
| Nonvascular | *Ptilium crista-castrensis* | Knight's Plume Moss | Historic | | SH | G5 | |