

Tennessee Natural Heritage Program

Rare Plant List

2021

Tennessee Death-camas
Stenanthium tennesseense Sorrie & Weakley
State Status: Threatened



Division of Natural Areas, Tennessee Department of Environment and Conservation

TENNESSEE NATURAL HERITAGE PROGRAM

RARE PLANT LIST

2021

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The development of this list has depended on the experience, expertise and dedication of the members of the Rare Plant Scientific Advisory Committee. Past State Botanists Claude Bailey, Carl Nordman, Milo Pyne and Dr. Paul Somers have also made exceptional contributions to this effort. The information used in compiling this list is the result of efforts by current and previous Tennessee Natural Heritage Program staff over the past 45 years.

INTRODUCTION

The mission of the Tennessee Division of Natural Areas (DNA) is to protect the state's plants, animals, and natural communities that represent the natural biological diversity of Tennessee. The DNA conducts a variety of programs and activities for accomplishing the conservation, restoration, and management of Tennessee's vast diversity of natural resources. One of the division's greatest values is the provision of technical assistance to public and private land managers. DNA provides this assistance through the Natural Heritage Inventory Program and this helps ensure that management decisions are made with knowledge of the significance and value of the natural resource. DNA carries out other aspects of its mission through the Natural Areas Program, Ginseng Program, and the Scenic Rivers Program.

The DNA began in 1974, with the assistance of The Nature Conservancy (TNC), and was known then as the Tennessee Natural Heritage Program. The purpose of the program was to provide science-based information on biodiversity to aid in selection of sites considered for the state's natural areas system. The number of rare species records grew and the scope of the program expanded to include environmental review processes.

The DNA relies on geographic information systems (GIS) databases to record and report important information regarding the state's rare plants, animals, and natural communities. The primary database (Biotics) was developed by NatureServe, the non-governmental parent organization of natural heritage programs. Natural heritage program staff direct and conduct field surveys for rare species and significant natural areas, as well as provide technical assistance regarding the distribution, conservation and management of Tennessee's biological diversity.

Information from the Biotics database helps accomplish the goals of conservation and protection of biological diversity. Federal, state, and private agencies, organizations, and individuals use rare species lists produced by the DNA for environmental review and land management decisions. Currently 543 rare plant species are tracked by the state, including 153 listed as state-endangered. DNA encourages individuals and organizations to assist staff biologists in determining accurate plant list contents and ranking information.

Since early in the 19th century, field botanists have been gathering valuable information about rare plants in Tennessee. Researchers have continued this important service up to the present day and the support of the scientific community is a key part of the process of monitoring rare plants in Tennessee. Without this support, the quality and completeness of the end product would be greatly diminished.

Plants listed at the federal level are protected by the Endangered Species Act (ESA) of 1973, as amended. The Fish and Wildlife Service (FWS) of the U.S. Department of the Interior administers the ESA and assigns federal status designations to species that are threatened with extinction. Twenty-three plant species in Tennessee are listed under the ESA.

Plants listed in Tennessee are protected by the Rare Plant Protection and Conservation Act of 1985. The Tennessee Rare Plant Scientific Advisory Committee consists of twelve botanists who are knowledgeable of the state's flora. This committee is required to meet at least once every three years in order to review the list and make recommendations to modify the list as needed. The criteria for listing a rare plant as endangered, threatened, or special concern, include but are not limited to the following:

- o Distribution of the species in Tennessee and throughout its range.
- o Number of populations in Tennessee and throughout the species' range.
- o Size of populations relative to estimates of minimal viable populations for the species.
- o Habitat specificity.
- o Known or perceived threats to the species and its habitats.
- o Number of protected populations.
- o Difficulty of adequately protecting or managing habitats for the species' survival.
- o Biological factors including the species' ability to reproduce, respond to disturbance, or its dependence on other species that may also be in jeopardy.

Any interested person may nominate a plant species for listing or recommend changes in status or removal of species from the current rare plant list promulgated under the act. Copies of The Rare Plant Protection and Conservation Act of 1985 (TCA §§70-8-301 – 314) and the associated rules (Chap. 0400-6-2) are available upon request.

(Adapted from Rules of Tennessee Division of Ecological Services, Chap 0400-6-2, Rare Plant Protection and Conservation Regulations.)

LIST STRUCTURE

The Rare Plant List is divided into **vascular plants, non-vascular plants, and fungi**. The vascular plants include ferns, fern-allies, conifers, and flowering plants (monocots and dicots). The rare non-vascular plants include mosses, liverworts, and hornworts. The **fungi** include two species of lichen. Plants are listed alphabetically by scientific name, and contain the following fields: scientific name, common name, physiographic provinces, habitat, phenology, state status, federal status, state rank, and global rank. The scientific name field includes a link to search for the species on the [NatureServe Explorer](#) website. The federal status code includes a link to the US Fish and Wildlife service website.

Three plants threatened primarily by commercial harvest in Tennessee are listed as commercially exploited. These are American ginseng (*Panax quinquefolius*), ramps (*Allium tricoccum*), and narrow-leaf ramps (*Allium burdickii*). The DNA does not recommend they be included in the normal environmental review process. Landowners and land managers should be aware that harvest of these plants, in many cases, is not sustainable.

Endemic plants are those naturally limited to a small geographic area and found nowhere else. Tennessee has a number of endemic vascular plants that do not naturally occur outside of the state. Rare vascular plants endemic to Tennessee are Pyne's ground-plum (*Astragalus bibullatus*), Harbison's hawthorn (*Crataegus harbisonii*), Tennessee coneflower (*Echinacea tennesseensis*), Ruth's golden-aster

(*Pityopsis ruthii*), Stones River bladderpod (*Paysonia stonensis*), Spring Creek bladderpod (*Paysonia perforata*) and Tennessee Death-camas (*Stenanthium tennesseense*). These plants are all globally rare, and nearly all are federally listed under the Endangered Species Act. All occur in Tennessee's Central Basin, except for Ruth's golden-aster (*Pityopsis ruthii*), which occurs in the Blue Ridge and Tennessee Death-camas (*Stenanthium tennesseense*), which occurs in the Eastern Highland Rim. There are several other vascular plants endemic to Tennessee that are common enough in suitable habitat that they are not on the list of rare plants.

A number of plants are known to be extirpated from Tennessee. These plants were known from the state historically and all known populations have been destroyed, or for other reasons no longer exist. It is not likely that they will be rediscovered in Tennessee. These species are not on the list although some were previously listed. Should any of these species be rediscovered they would be recommended for listing. There are listed rare plant species known historically from Tennessee that might be rediscovered. These are noted as SH in the state rank field.

Scientific Name

A plant's scientific name may differ from other scientific names in use now or in the past. Standard references are followed, such as:

Flora of North America Editorial Committee, eds. 1993+. Flora of North America North of Mexico. 12+ vols. New York and Oxford.

Kartesz, J.T. 1999. A synonymized checklist and atlas with biological attributes for the vascular flora of the United States, Canada, and Greenland. First edition. In: Kartesz, J.T., and C.A. Meacham. Synthesis of the North American Flora, Version 1.0. North Carolina Botanical Garden, Chapel Hill, N.C.

Chester, E.W., B. Eugene Wofford, Dwayne Estes, Claude Bailey. 2009. A Fifth Checklist of Tennessee Vascular Plants. Sida Botanical Miscellany No. 31, Botanical Research Institute of Texas, Fort Worth. 102 pp.

Common Name

Common names are used for convenience and are often different among the regions of the state. For clarity, use scientific names whenever possible.

Physiographic Provinces

Physiographic provinces are provided based upon information from the division's Biotics database. For some rare plants on the list we have yet to receive data on specific locations, and these species have an incomplete listing of physiographic provinces. For more information on these species refer to county distribution maps online at the [University of Tennessee Herbarium](http://www.utaherbarium.org) website.

Abbreviations for physiographic provinces are as follows:

BR – Blue Ridge Mountains	SV – Sequatchie Valley
CB – Central Basin	WR – Western Highland Rim
CM – Cumberland Mountains	MF – Mississippi Floodplain
CP – Coastal Plain	WU – Western Uplands
CU – Cumberland Plateau	RV – Ridge and Valley
ER – Eastern Highland Rim	

Habitat

A brief description of the habitat for each species, in Tennessee, is provided. This information is based upon a variety of sources including field observations, literature sources, botanical manuals, and NatureServe. More complete habitat listings for each species can be found on the [NatureServe Explorer](http://www.natureserve.com) website.

Phenology

The best time to accurately identify a plant species in the field is when it is in a reproductive state (flowering, fruiting, or producing spores). The flowering and fruiting times are provided for the seed plants, and sporulation times are provided for ferns and fern allies. For some rare plants, vegetation alone is not enough for positive identification. This information is provided to facilitate efficient field surveys for Tennessee's rare plants. Phenology information should be used as a guide for scheduling fieldwork. These times vary from year to year and seasonal variations should be noted when undertaking surveys.

State Status

State status indicates which plants are formally listed as state **endangered**, **threatened**, or **special concern** under the authority of the **Tennessee Department of Environment and Conservation**. The state status is determined by the Tennessee Rare Plant Scientific Advisory Committee using the criteria listed previously. Changes to the **endangered** list must be effected through a rulemaking procedure. Status changes which the committee has proposed are indicated with a **P** preceding the status code. These will be included in the next update of the official rule.

- E– Endangered species** means any species or subspecies of plant whose continued existence as a viable component of the state's flora is determined by the commissioner [of the Department of Environment and Conservation or his/her authorized representatives] to be in jeopardy, including but not limited to all species of plants determined to be "endangered species" pursuant to the Endangered Species Act.
- T– Threatened species** means any species or subspecies of plant which appears likely, within the foreseeable future, to become endangered throughout all or a significant portion of its range in Tennessee, including but not limited to all species of plants determined to be a "threatened species" pursuant to the Endangered Species Act.
- S– Special concern species** means any species or subspecies of plant that is uncommon in Tennessee, or has unique or highly specific habitat requirements or scientific value and therefore requires careful monitoring of its status.

State status modifiers follow state status abbreviations.

- P– Possibly extirpated** is applied to a species or subspecies that has not been seen in Tennessee for the past 20 years. It is possible that it may no longer occur in Tennessee.
- CE– Commercially exploited** is applied to plants that are being taken from the wild in large numbers and propagation or cultivation is insufficient to meet market demand. These plants are of long-term conservation concern but the division does not recommend they be included in the normal environmental review process.

(Adapted from Somers, Paul. 1989. Revised List of the Rare Plants of Tennessee. *Journal of the Tennessee Academy of Sciences*, 64(3): 179-184., and Rules of Tennessee Division of Ecological Services, Chap. 0400-6-2, Rare Plant Protection and Conservation Regulations.)

Federal Status

Federally listed species are protected by the Endangered Species Act of 1973 (as amended). The list is administered and determined by the US Fish and Wildlife Service. Where these codes appear in the list, a hyperlink to the USFWS species profile is provided.

LE– Listed endangered, denotes a taxon that is threatened by extinction throughout all or a significant portion of its range.

LT– Listed threatened, denotes a taxon that is likely to become endangered in the foreseeable future.

PE– Proposed endangered, denotes a taxon that is proposed for listing as endangered.

PT– Proposed threatened, denotes a taxon that is proposed for listing as threatened.

C – Candidate species, denotes a taxon for which current information indicates the probable appropriateness of listing as Endangered or Threatened and that has been published in the Federal Register as a candidate for listing under the Federal Endangered Species Act.

DM– Delisted taxon, recovered, being monitored for first five years.

(Modified From Federal Register, 50 CFR Part 17, Feb. 28, 1996, Vol. 61, No. 40, pp. 7596 - 7613.)

Note: The taxa listed as candidate species may be added to the list of endangered and threatened plants and animals. They should be given consideration in environmental planning. Taxa listed as LE, LT, PE and PT must be given consideration in environmental planning involving federal funds, lands, or permits, and should be given consideration in all non-federal activities. For further information contact the Region 4, Endangered Species Coordinator, at the US Fish and Wildlife Service, 1875 Century Boulevard, Atlanta, Georgia 30345, phone (404) 679-7132; or an Endangered Species Specialist at the US Fish and Wildlife Service, 446 Neal Street, Cookeville, Tennessee 38501, phone (931) 528-6481.

State Rank

The state rank is a numeric rating (S1 through S5) of relative rarity based primarily on the number of occurrences of the plant in the state. The state and global ranks are non-legal ranks and only indicate the rarity of a species. Other factors in addition to the number of occurrences are considered when assigning rank, so the number of occurrences suggested for each numeric rank below is not a hard and fast rule.

S1– Extremely rare and critically imperiled in the state with five or fewer occurrences, or very few remaining individuals, or because of some special condition where the species is particularly vulnerable to extirpation from Tennessee.

S2– Very rare and imperiled within the state, six to twenty occurrences and less than 3,000 individuals, or few remaining individuals, or because of some factor(s) making it vulnerable to extirpation from Tennessee.

S3– Rare and uncommon in the state, from 21 to 100 occurrences.

S4– Widespread, abundant, and apparently secure within the state, though it may be quite rare in parts of its range, especially at the periphery, and is of long-term concern.

SH– Of historical occurrence in Tennessee, i.e., known to occur in Tennessee in the past, with the expectation that it may be rediscovered.

SU– Possibly in peril in Tennessee but status uncertain, need more information.

SX– Believed to be extirpated from Tennessee, with virtually no likelihood that it will be rediscovered.

S#S#– Denotes a range of ranks because the exact rarity of the element is uncertain (e.g., S1S2)

S?– Unranked within the state.

Note: The **Division of Natural Areas (DNA)** has responsibility for assigning state ranks. All listed species should be given some consideration in environmental planning but those species having a **State Rank** of **S1** to **S3**, **state endemics**, and species with a **limited distribution** in Tennessee should be given special consideration. For further information contact **DNA** at (615) 532-0431.

Global Rank

Global ranks are determined by the scientific staff of NatureServe, the non-governmental organization of national, state and provincial heritage programs. Global ranks provide the best available and objective assessment of a rare plant's rarity and the level of threat to its existence. The total number of individuals, the number of populations, and the threats to the populations are considered throughout the plant's range.

G1– Extremely rare and critically imperiled, generally with five or fewer occurrences in the world, or very few remaining individuals, or because of some special condition the species is particularly vulnerable to extinction.

G2– Very rare and imperiled, generally with six to twenty occurrences and less than 3,000 individuals, or because of some factor(s), vulnerable to extinction.

G3– Very rare and local throughout its range or found locally in a restricted range, or, because of other factors, vulnerable to extinction throughout its range. Generally between 21 and 100 occurrences and fewer than 10,000 individuals.

G4– Apparently secure globally, though it may be quite rare in parts of its range, especially at the periphery. Thus, the plant is of long-term concern.

G5– Demonstrably secure globally, though it might be quite rare in parts of its range, especially at the periphery.

GH– Of historical occurrence throughout its range, i.e., formally part of the established biota, with the expectation that it may be rediscovered.

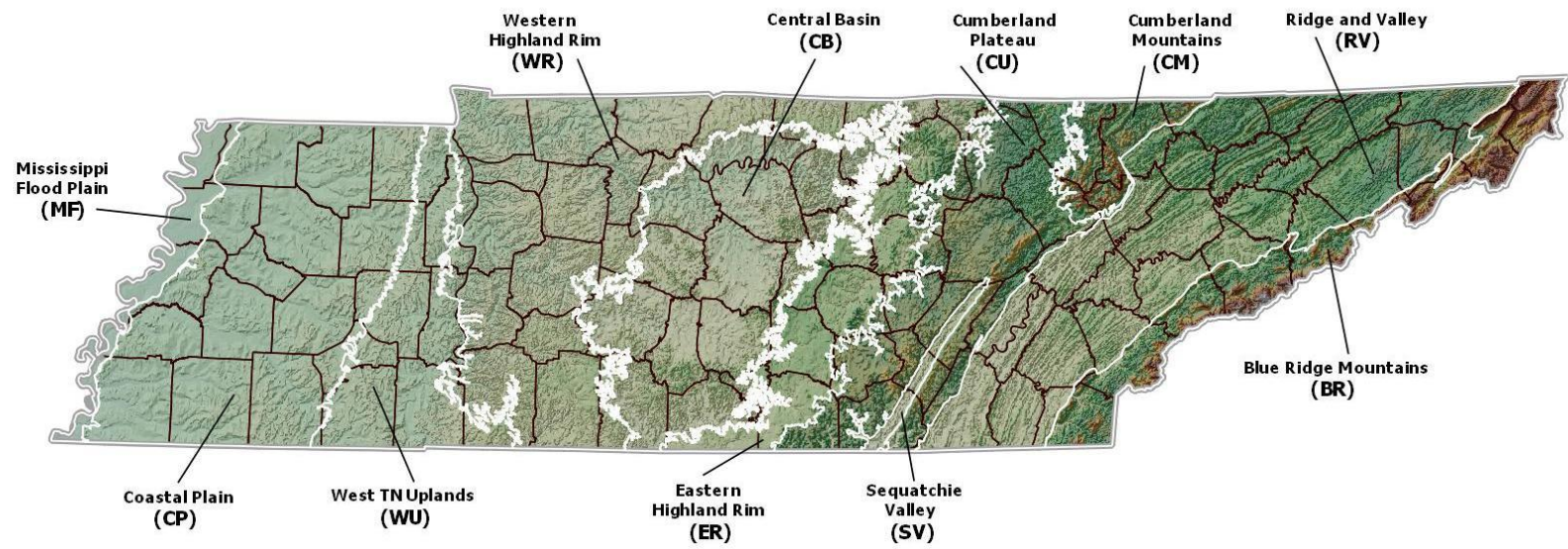
GNR– No assigned rank yet due to recent taxonomic issues.

GU– Possibly in peril range-wide but status uncertain, need more information.

GX– Believed to be extinct throughout its former range, with virtually no likelihood that it will be rediscovered.

G#Q– Taxonomic status is questionable, numeric rank may change with taxonomy.

G#?– Inexact numeric rank.



HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Abies fraseri</u> Fraser Fir						
FORESTS ABOVE 5500 FT	FL: MAY-JUNE, FR: SEPT-NOV	BR	T		S1S2	G2
<u>Acalypha deamii</u> Deam's Copperleaf						
MESIC WOODS-SANDBARS	FL: JUNE-OCT, FR: JULY-NOV	WR, ER, CB, WU, CU	S		S1	G4?
<u>Aconitum reclinatum</u> Trailing Wolfsbane						
RICH MOUNTAIN WOODS	FL: JUN-SEPT., FR: SEPT.	BR	E		S1	G3G4
<u>Adlumia fungosa</u> Climbing Fumitory						
RICH MESIC WOODS	FL: JUN-SEPT, FR: AUG-NOV	CM, BR, CU	T		S2	G4
<u>Agalinis auriculata</u> Earleaved False-foxglove						
BARRENS	FL: AUG-SEPT, FR: SEPT-OCT	WR, RV, CB, CP, SV	E		S2	G3
<u>Agalinis decemloba</u> Sandplain Gerardia						
BARRENS	FL:SEP-OCT	ER	E		S1	G3G4
<u>Agalinis heterophylla</u> Prairie False-foxglove						
BARRENS	FL: AUG-SEPT, FR: SEPT-OCT	CP	E		S1	G4G5
<u>Agalinis oligophylla</u> Ridge-stem False-foxglove						
BARRENS	FL: AUG-SEPT, FR: OCT	WR, ER	E		S1	G4
<u>Agalinis plukenetii</u> Purple Gerardia						
DRY SANDY WOODS	FL: SEPT-OCT, FR: OCT	BR	E		S1	G3G5
<u>Agalinis setacea</u> Thread-leaved Gerardia						
BARRENS, DRY SANDY SOIL	FL: SEPT-OCT; FR: OCT	BR	S		SH	G5?
<u>Agalinis skinneriana</u> Pale False-foxglove						
PRAIRIES AND BARRENS	FL: JUL-SEP, FR: AUG-OCT	ER, WR	T		S1S2	G3G4

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Agastache scrophulariifolia</u> Purple Giant Hyssop						
RICH MOUNTAIN WOODS	FL: JUL-SEPT, FR: SEPT-OCT	BR	T		S1S2	G4
<u>Ageratina luciae-brauniae</u> Lucy Braun's White Snakeroot						
ROCKHOUSES	FL: AUG-OCT, FR: SEPT-NOV	CU	T		S3	G3
<u>Agrostis mertensii</u> Arctic Bentgrass						
MOUNTAIN BALDS AND MOIST RAVINES	FL: JUL-AUG, FR: AUG-SEPT	BR	S		S1	G5
<u>Allium burdickii</u> Narrow-leaf Ramps						
RICH WOODS	FL: JUN, FR:AUG	ER, RV, CB, CU, BR	T-CE		S1S2	G4G5
<u>Allium tricoccum</u> Ramps						
RICH WOODS	FL: JUN-JUL, FR: AUG-SEPT	WR, ER, CB, CM, BR, CU	S-CE		S1S2	G5
<u>Alnus viridis ssp. crispa</u> Green Alder						
MOUNTAIN BALDS AND THICKETS	FL: MAY-JUN, FR: JUL-SEPT	BR	S		S1	G5T5
<u>Amelanchier sanguinea</u> Roundleaf Shadbush						
ROCKY SLOPES AND RIVER BANKS	FL: MAR-MAY, FR: MAY-JUL	BR, CU	T		S2	G5
<u>Ammoselinum popei</u> Pope's Sand-parsley						
GLADES	FL: APR-MAY, FR: MAY-JUL	CB	T		S2	G4
<u>Amsonia tabernaemontana var. gattingeri</u> Limestone Blue Star						
GLADES, BARRENS, AND ROCKY RIVER BARS	FL: JUL-AUG, FR: AUG-SEPT	WR, ER, CB, RV	S		S3	G5T3Q
<u>Anemone caroliniana</u> Carolina Anemone						
GLADES AND CEDAR WOODLANDS	FL: MAR-APR, FR: MAR-APR	CB	E		S1S2	G5
<u>Antennaria howellii</u> Howell's Pussytoes						
Rocky Glades and Barrens	FL: MAY-JUN, FR: JUN-JUL	BR	S		S1	G5

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Apios priceana</u> Price's Potato-bean						
OPENINGS IN RICH WOODS	FL: JUN-AUG, FR: JUL-AUG	WR, CB, SV, WU, CU	E	LT	S3	G3
<u>Arabis hirsuta</u> Western Hairy Rockcress						
GLADES AND LIMESTONE BLUFFS	FL: MAY-JUN, FR: MAY-JUN	WR, CB, WU	T		S1	G5
<u>Arenaria lanuginosa</u> Woolly Sandwort						
BLUFFS	FL: MAY-JUL, FR: MAY-JUL	WR, CB	E		S1	G5
<u>Aristida ramosissima</u> Branched Three-awn Grass						
ROADSIDES AND DRY OPENINGS	FL: JUL-SEPT, FR: JUL-SEPT.	WR, WU	E		S1	G5
<u>Arnoglossum plantagineum</u> Fen Indian-plantain						
MOIST PRAIRIES AND MARSHES	FL: JUL-AUG, FR: AUG-SEPT	CB	T		S2	G4G5
<u>Asclepias purpurascens</u> Purple Milkweed						
BARRENS	FL: MAY-AUG, FR: JUN-SEPT	WR, RV	S		S1	G5?
<u>Asplenium scolopendrium var. americanum</u> Hart's-tongue Fern						
SINKS	SPORULATION: MAY-AUG	RV, CU, BR	E	LT	S1	G4T3
<u>Astragalus bibullatus</u> Pyne's Ground-plum						
ORDOVICIAN LIMESTONE GLADES	FL: APR-MAY, FR: MAY-JUL	CB	E	LE	S1	G1
<u>Astragalus tennesseensis</u> Tennessee Milk-vetch						
GLADES	FL: APR-MAY, FR: MAY-JUL	WR, CB	S		S3	G3
<u>Athyrium filix-femina ssp. angustum</u> Northern Lady Fern						
MOUNTAIN WOODS AND OPENINGS	SPORULATION: JUL-SEPT	BR	S		S2	G5T5
<u>Aureolaria patula</u> Spreading False-foxglove						
OAK WOODS AND EDGES	FL: JUN-AUG, FR: JUL-SEPT	WR, ER, CB, RV, CM, CU	S		S3	G3

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Baptisia bracteata var. leucophaea</u> Cream Wild-indigo						
DRY OAK WOODS AND BARRENS	FL: MAR-APR, FR: MAY-JUN	WR	S		S1S2	G4G5T4T5
<u>Berberis canadensis</u> American Barberry						
ROCKY WOODS AND RIVER BARS	FL: APR-AUG, FR: JUN-OCT	ER, RV, CM, BR, CU	S		S2	G3G4
<u>Betula papyrifera var. cordifolia</u> Heart-leaved Paper Birch						
MOUNTAIN BURNS	FL: MAY-AUG, FR: JUL-SEPT	BR	E		S1	G5T5
<u>Blephilia subnuda</u> Cumberland pagoda-plant						
Calcareous Forests	FL: MAY-JUN, FR: JUN-AUG	CU	E		S1	G1G2
<u>Blephilia woffordii</u> Wofford's woodmint						
Limestone Bluffs and Woodlands	FL: MAY-JUN, FR: JUL-AUG	CB	S		S1	G1
<u>Boechea patens</u> Spreading Rockcress						
MOIST ROCKY WOODS	FL: MAY-JUN, FR: JUN-AUG	RV, CU, BR	E		S1	G3
<u>Boechea perstellata</u> Braun's Rockcress						
LIMESTONE BLUFFS	FL: MAR-MAY, FR: MAY-JUN	CB	E	<u>LE</u>	S1	G2
<u>Boechea shortii</u> Short's Rock-cress						
WOODED BLUFFS & FLOODPLAINS	FL: APR-JUN, FR: MAY-JUN	WR, CB	S		S1S2	G5
<u>Bolboschoenus fluviatilis</u> River Bulrush						
MARSHES	FL: MAY-SEPT, FR: MAY-SEPT	WR, RV, WU	S		S1	G5
<u>Botrychium jenmanii</u> Alabama Grapefern						
PINE WOODS	SPORULATION: SEPT-NOV	ER, RV, CB, CU, BR	T		S1	G3G4
<u>Botrychium matricariifolium</u> Chamomile Grapefern						
MOUNTAIN WOODS AND THICKETS	SPORULATION: JUN-AUG	BR	S		S1	G5

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Botrychium oneidense</u> Blunt-lobed Grapefern						
MOIST FORESTS	SPORULATION: JUL-OCT	BR	S		S1	G4
<u>Botrychium simplex</u> Least Grape-fern						
HIGH ELEVATION MESIC FORESTS	SPORULATION: MAY-JUN	BR	E		S1	G5
<u>Brachyelytrum aristosum</u> Northern Shorthusk						
MOIST HIGH ELEV. FORESTS	FL: JUL-AUG, FR: AUG-SEPT	BR	S		S2	G5
<u>Buckleya distichophylla</u> Piratebush						
ROCKY MOUNTAIN WOODS W/ HEMLOCK	FL: MAR-JUN, FR: MAY-AUG	RV, BR	T		S2	G3
<u>Bulbostylis ciliatifolia var. coarctata</u> Capillary Hairsedge						
UPLAND PINE-OAK WOODS	FL: JUL-OCT, FR: JUL-OCT	CP	E		S1	G5T3T5
<u>Calamagrostis cainii</u> Cain's Reedgrass						
HIGH ELEVATION ROCK OUTCROPS AND SLIDE AREAS	FL: JUL-SEPT, FR: AUG-DEC	BR	E		S1	G1
<u>Calamagrostis porteri</u> Porter's Reedgrass						
RICH MOUNTAIN WOODS	FL: JUL-AUG, FR: JUL-DEC.	CM, BR	E		S1	G4
<u>Caltha palustris</u> Marsh Marigold						
BOGS	FL: APR-JUN, FR: MAY-AUG	BR	E		S1	G5
<u>Campanula aparinoides</u> Marsh Bellflower						
BOGS	FL: JUN-AUG, FR: JUL-SEPT	ER, BR, CU	S		S2	G5
<u>Cardamine clematitis</u> Mountain Bittercress						
HIGH ELEVATION SEEPS	FL: APR-MAY, FR: JUN-JUL	RV, BR	T		S2	G3
<u>Cardamine flagellifera</u> Running Bittercress						
MOUNTAIN STREAM BANKS	FL: MAY, FR: JUN	RV, BR, CU	T		S2	G3

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Cardamine rotundifolia</u>						
		Round-leaf Watercress				
MUCKY WETLANDS AND SEEPS	FL: MAY, FR: JUN	RV, CM, BR, CU	S		S2S3	G4
<u>Carex argyrantha</u>						
		Hay Sedge				
SANDY OR ROCKY WOODS	FL: JUN-AUG, FR: JUN-AUG	BR	T		S1	G5
<u>Carex barrattii</u>						
		Barratt's Sedge				
WET WOODS AND OAK BARRENS	FL: APR-MAY, FR: APR-MAY	ER	E		S2	G4
<u>Carex bromoides ssp. montana</u>						
		Blue Ridge Brome Sedge				
MOUNTAIN BOGS & SEEPS	FL: MAY-JUN, FR: JUN-JUL	BR	T		S1	G5T3?
<u>Carex bulbostylis</u>						
		False Hair Sedge				
MOIST DECIDUOUS FORESTS	FL: APR-MAY, FR: APR-MAY		S		SU	GNR
<u>Carex bullata</u>						
		Button Sedge				
BOGS	FL: MAY-JUN, FR: JUN-SEP		S		S3	G5
<u>Carex buxbaumii</u>						
		Brown Bog Sedge				
SWAMPS	FL: JUN-JUL, FR: JUN-JUL	ER, WR, CU	E		S1	G5
<u>Carex canescens ssp. disjuncta</u>						
		Silvery Sedge				
ACIDIC BOGS	FL: APR-MAY, FR: APR-MAY	BR	E		SU	G5T5
<u>Carex comosa</u>						
		Bristly Sedge				
SWAMPS	FL: APR-JUN, FR: APR-JUN	WR, RV, MF	T		S2	G5
<u>Carex cristatella</u>						
		crested sedge				
WET MEADOWS AND MARSHES	FL: MAY-JUN, FR: MAY-JUN		S		S1	G5
<u>Carex davisii</u>						
		Davis' Sedge				
BOTTOMLANDS, RIPARIAN SOILS	FL: MAY-JUL, FR: MAY-JUL	WR, CB	S		S1	G4

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Carex echinata ssp. echinata</u> Little Prickly Sedge						
SWAMPS AND BOGS	FL: JUL-SEPT, FR: JUL-SEPT	BR, CU	S		S1?	G5T5
<u>Carex floridana</u> Florida sedge						
DRY PINE FORESTS	FL:FEB-APR		S		S1	G5?
<u>Carex folliculata</u> Northern Long Sedge						
WET SOILS	FL: MAY-JUL, FR: MAY-JUL	BR	T		S1	G5
<u>Carex fumosimontana</u> Smoky Mountain Sedge						
HIGH ELEVATION FOREST EDGES	SPRUCE-FIR FL: JUN-JUL, FR: JUL-AUG	BR	E		S2	GNR
<u>Carex hirtifolia</u> Pubescent Sedge						
LOWLAND FORESTS	FL: APR-JUN, FR: APR-JUN	ER, WR, CB	S		S1S2	G5
<u>Carex hitchcockiana</u> Hitchcock's Sedge						
RICH MOIST WOODS	FL: JUN-JUL, FR: JUL-SEPT	WR, ER, CB, BR	T		S1	G5
<u>Carex hyalina</u> Tissue Sedge						
FORESTED BOTTOMLAND SWAMPS	FL: MAR-APR, FR: APR-JUN	MF	S		S1	G4
<u>Carex interior</u> inland sedge						
WET MEADOWS	FL:MAY-JUN		E		S1S2	G5
<u>Carex lonchocarpa</u> Southern Long Sedge						
WET SOILS IN OPEN AREAS	FR: MAY-JUL	CU	E		S2	G5
<u>Carex manhartii</u> Manhart's Sedge						
MOUNTAIN SLOPES AND STREAM BANKS	FL: APR-MAY, FR: MAY-SEPT	BR	E		S2	G3G4
<u>Carex misera</u> Wretched Sedge						
MOUNTAIN LEDGES AND BALDS	FL: MAY-JUL, FR: MAY-AUG	BR	T		S2	G3

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Carex muskingumensis</u> Muskingum Sedge						
WET WOODS	FL: MAY-OCT, FR: MAY-OCT	WR	E		S1	G4
<u>Carex ouachitana</u> Ouachita Sedge						
ROCKY WOODS	FL: APR-MAY, FR: APR-MAY	ER, CB	S		S1	G4
<u>Carex pallescens</u> Pale Sedge						
HIGH ELEVATION WOODS AND MOUNTAIN BALDS	FL: JUN-JUL, FR: JUL-SEPT	BR	S		S1	G5
<u>Carex pelliata</u> Woolly Sedge						
ALLUVIAL FORESTS AND UPLAND PASTURES	FL: APR-JUL, FR: APR-JUL	ER, CP, BR	E		S1	G5
<u>Carex reniformis</u> Reniform Sedge						
RICH BOTTOMLAND WOODS	FL: MAY-JUN, FR: MAY-JUN	WR, CP, WU	S		S1	G4?
<u>Carex roanensis</u> Roan Mountain Sedge						
MID-ELEVATION WOODLANDS	FL: JUN-JUL, FR: JUN-JUL	RV, BR	S		S2	G2G3
<u>Carex ruthii</u> Ruth's Sedge						
MOUNTAIN FORESTS AND WET AREAS	FL: JUN-JUL, FR: JUL-AUG	BR	T		S2	G3G4
<u>Carex tetanica</u> rigid sedge						
CALCAREOUS SEEPS	FL:MAY-JUN		E		S1	G4G5
<u>Carex woodii</u> pretty sedge						
CALCAREOUS WOODLANDS	FL:MAY-JUN		E		S1	G4
<u>Castanea dentata</u> American Chestnut						
MESIC TO DRY FORESTS	FL: JUN-JUL, FR: SEPT-OCT	WR, CB, CU, BR	S		S2S3	G3
<u>Caulophyllum giganteum</u> Giant Blue Cohosh						
RICH WOODS	FL: APR-MAY, FR: MAY-AUG	ER, WR, CB, BR, CU	T		S1	G4G5

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Cerastium velutinum var. velutinum</u> Velvety Cerastium						
BLUFFS	FL: MAR-MAY, FR: MAY-JUL	WR, CB	E		S1	G5T4?
<u>Ceratophyllum echinatum</u> Prickly Hornwort						
SLOW MOVING STREAMS	FL: MAY-SEPT, FR: MAY-SEPT	ER, CP, WU	S		S1	G4
<u>Chelone obliqua</u> Red Turtlehead						
ALLUVIAL SWAMPS, WET WOODS	FL: AUG-OCT, FR: SEPT-NOV	CP, WU	S		S1	G4
<u>Chrysogonum virginianum</u> Green-and-gold						
DRY WOODS AND OPENINGS	FL: MAR-JUN, FR: JUN-AUG	RV, CU, BR	T		S2	G5
<u>Clematis fremontii</u> Fremont's Virgin's-bower						
LIMESTONE BARRENS	FL: APR-MAY, FR: MAY-JUN	RV	E		S1	G5
<u>Clematis glaucophylla</u> White-leaved Leatherflower						
WOODED STREAM BANKS	FL: MAY-SEPT, FR: MAY-SEPT	ER, RV, CU, BR	S		S1	G4?
<u>Clematis morefieldii</u> Morefield's Leather-flower						
SEEPS/SPRINGS LIMESTONE WOODS	IN ROCKY FL: MAY-JUL, FR: AUG-SEP	ER, CU	E	<u>LE</u>	S2	G2
<u>Clematis vinacea</u> wine vine						
ROCK OUTCROPS	FL: MAR-SEP	BR	E		S2	G2
<u>Clethra alnifolia</u> Coastal Sweet Pepper-bush						
ACIDIC WETLANDS AND SWAMPS	FL: JUN-SEPT, FR: JUN-SEPT	ER	E		S1	G5
<u>Coeloglossum viride var. virescens</u> Long-bracted Green Orchis						
WET WOODS AND SEEPS	FL: APR-JUN, FR: JUN-AUG	BR	E		S1	G5T5
<u>Coelorachis rugosa</u> Wrinkled Jointgrass						
PONDS IN FLATWOODS	FL: AUG-SEP, FR: SEPT-OCT	ER	T		S1	G5

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Collinsia verna</u> Spring Blue-eyed Mary						
RICH WET-MESIC WOODS	FL: APR-MAY, FR: APR-JUN	ER, WR, CB	E		S1	G5
<u>Comptonia peregrina</u> Sweet-fern						
ROCKY, SANDY STREAM-SIDES	FL: APR, FR: AUG-SEPT	CU	E		S1	G5
<u>Conradina verticillata</u> Cumberland Rosemary						
SANDY, ROCKY RIVER BANKS AND BARS	FL: MAY-JUN, FR: JUN-JUL	ER, CU	T	LT	S3	G3
<u>Corallorhiza maculata</u> Spotted Coralroot						
SHADY, MOIST WOODS	FL: JUL-AUG, FR: AUG-SEPT	CM, BR	T		S1	G5
<u>Coreopsis latifolia</u> Broad-leaved Tickseed						
STREAMHEADS	FL: AUG-SEPT, FR: AUG-OCT	BR	E		S1S2	G3
<u>Cornus obliqua</u> Silky Dogwood						
ROCKY RIVER SHORES	FL: MAY-JULY, FR: JULY	WR	S		S2	G5
<u>Corydalis sempervirens</u> Pale Corydalis						
DRY OR ROCKY WOODS	FL: APR-JUN, FR: MAY-AUG	RV, CM, CU, BR	S		S1S2	G5
<u>Cotinus obovatus</u> American Smoketree						
DRY, CIRCUMNEUTRAL SOIL	FL: APR-MAY, FR: MAY-JUN	ER, CU	S		S2	G4
<u>Crataegus harbisonii</u> Harbison's Hawthorn						
DRY ROCKY CALCAREOUS WOODS	FL: MAY, FR: MAY	WR, CB, CP, MF	E		S1	G1
<u>Cymophyllus fraserianus</u> Fraser's Sedge						
MIXED MESOPHYTIC FORESTS	FL: MAR-JUN, FR: MAR-JUL	BR	S		S3	G4
<u>Cyperus dentatus</u> Toothed Sedge						
ROCKY RIVER BANKS	FL: JUL-OCT, FR: OCT-NOV.	BR	S		S1	G4

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Cyperus plukenetii</u> Plukenet's Galingale						
SANDY BARRENS	FL: JUL-OCT, FR: JUL-OCT	RV, CP, WU, SV, BR, CU	S		S1	G5
<u>Cypripedium kentuckiense</u> Southern Lady's-slipper						
RIPARIAN FORESTS	FL: MAY-JUN, FR: JUN-AUG	ER, WR, WU, CU	E		S2	G3
<u>Cypripedium reginae</u> Showy Lady's-slipper						
CALCAREOUS ROCKY SLOPES	FL: MAY-JUN, FR: JUN-AUG	WR, RV, BR	E		S1	G4G5
<u>Dalea candida</u> White Prairie-clover						
BARRENS	FL: MAY-JUL, FR: JUL-AUG	WR, ER, CB, RV, CU	T		S2	G5
<u>Dalea foliosa</u> Leafy Prairie-clover						
ROCKY WASHES IN GLADES	FL: JUL-AUG, FR: AUG-SEPT	CB	E	LE	S2S3	G2G3
<u>Dalea purpurea</u> Purple Prairie-clover						
BARRENS	FL: APR-JUN, FR: APR-JUN	CB	E		S1	G5
<u>Danthonia epilis</u> Bog Oat-grass						
ACIDIC SEEPS	FL: APR-JUN, FR: MAY-JUL	CU	S		S1S2	G4
<u>Delphinium exaltatum</u> Tall Larkspur						
GLADES AND BARRENS	FL: JUL-AUG, FR: AUG-SEPT	RV	E		S2	G3
<u>Desmodium ochroleucum</u> Creamflower Tick-trefoil						
SANDY DRY WOODS	FL: JUN-AUG, FR: AUG-OCT	WR, RV, BR, CU	E		S1	G2G3
<u>Diamorpha smallii</u> Small's Stonecrop						
SANDSTONE OUTCROPS	FL: APR-MAY, FR: MAY-JUN	RV, CU	E		S1S2	G4
<u>Diarrhena obovata</u> Ovate Beak Grain						
MOIST CALCAREOUS UPLAND WOODS	LEDGES, FL: JUN-SEPT; FR: AUG-NOV	WR, CB	S		S1	G4G5

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Dichanthelium acuminatum ssp. leucothrix</u> Roughish Witchgrass						
MOIST PINE BARRENS	FL: MAY-JUL, FR: JUN-AUG	ER, WR, BR	S		S1	G4?Q
<u>Dichanthelium acuminatum ssp. spretum</u> Eaton's Witchgrass						
SANDY PEATY PINE BARRENS	FL: MAY-JUL, FR: JUN-AUG	ER	E		S1	G5
<u>Dichanthelium bicknellii</u> Bicknell's rosette grass						
Dry Woodlands	FL: JUN, FR: JUL-AUG		S		S1	G4?Q
<u>Dichanthelium ensifolium ssp. curtifolium</u> Short-leaved Panic Grass						
BOGGY AREAS	FL: MAY-AUG, FR: MAY-AUG	ER, CU	E		S1	G4T3?
<u>Didiplis diandra</u> Water-purslane						
SWAMPS	FL: APR-JUL, FR: JUN-AUG	CP, WU, BR	T		S1	G5
<u>Diervilla lonicera</u> Northern Bush-honeysuckle						
ROCKY WOODLANDS AND BLUFFS	FL: JUN-JUL, FR: JUL-SEPT	WR, RV, CU, BR	T		S2	G5
<u>Diervilla sessilifolia var. rivularis</u> Mountain Bush-honeysuckle						
DRY CLIFFS AND BLUFFS	FL: JUN-JUL, FR: JUL-SEPT	RV, BR, CU	T		S2	G3
<u>Draba cuneifolia</u> Wedge-leaved Whitlow-grass						
BARRENS AND GLADES	FL: FEB-MAR, FR: MAR-APR	WR, WU	S		S1S2	G5
<u>Draba ramosissima</u> Branching Whitlow-grass						
CALCAREOUS BLUFFS	FL: APR-MAY, FR: MAY-JUN	CB, RV, BR	S		S2	G4
<u>Drosera brevifolia</u> Dwarf Sundew						
WET BARRENS AND ECOTONES	FL: APR-MAY, FR: APR-MAY	WR, ER, CU	T		S2	G5
<u>Drosera capillaris</u> Pink Sundew						
ACIDIC WETLANDS	FL: MAY-AUG, FR: MAY-AUG	ER, WU, CU	T		S1	G5

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Drosera intermedia</u> Spoonleaf Sundew						
ACIDIC WETLANDS	FL: JUN-SEP, FR: JUL-OCT	ER, CM, CU	S		S2	G5
<u>Drosera rotundifolia</u> Roundleaf Sundew						
BOGS & SEEPS	FL: JUL-AUG, FR: AUG-SEPT	BR, CU	T		S1	G5
<u>Dryopteris carthusiana</u> Spinulose Shield Fern						
BOGS	SPORULATION: JUN-SEPT	CP, BR, CU	T		S1	G5
<u>Dryopteris cristata</u> Crested Shield-fern						
BOGS	SPORULATION: JUN-SEPT	RV, BR	T		S2	G5
<u>Echinacea pallida</u> Pale-purple Coneflower						
BARRENS AND DRY OPENINGS	FL: MAY-AUG, FR: JUL-SEPT	WR, ER, CB	E		S1	G4
<u>Echinacea simulata</u> Wavy-leaf Purple Coneflower						
GLADES AND BARRENS	FL: MAY-AUG, FR: SEPT-OCT	CB	T		S2	G4
<u>Echinacea tennesseensis</u> Tennessee Coneflower						
ORDOVICIAN LIMESTONE GLADES	FL: MAY-AUG, FR: SEPT-OCT	CB	T	DM	S2	G2
<u>Echinochloa walteri</u> Walter's Barnyard Grass						
BOTTOMLANDS AND MARSHES	FL: JUL-OCT, FR: AUG-OCT	WR	S		S1	G5
<u>Echinodorus berteroi</u> Erect Burhead						
SANDY WET AREAS, SWAMPS	FL: JUN-NOV, FR: JUN-NOV	MF	S		S1	G5
<u>Eleocharis compressa</u> Flat-stemmed Spike-rush						
WET LIMESTONE GLADES	FL: MAY-JUN; FR: JUN-SEPT	CB, WU	S		S1	G4
<u>Eleocharis elliptica</u> elliptic spike rush						
CALCAREOUS SEEPS	FL: JUN-SEP		E		S1	G5

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Eleocharis equisetoides</u> Horse-tail Spike-rush						
POND EDGES AND OPEN WETLANDS	FL: JUN-SEPT, FR: JUN-SEPT	CB, CU	E		S1	G4
<u>Eleocharis intermedia</u> Matted Spike-rush						
WET AREAS	FL: JUL-OCT, FR: JUL-OCT	WR, RV	E		S1	G5
<u>Eleocharis lanceolata</u> Lance-like Spike-rush						
WET AREAS	FL: JUN-OCT, FR: JUN-OCT	WR, ER	S		S1	G4G5
<u>Eleocharis tortilis</u> Twisted Spike-rush						
SWAMPS	FL: JUL-SEPT, FR: JUL-SEPT	WR, WU	S		S1	G5
<u>Eleocharis wolfii</u> Wolf Spike-rush						
WET WOODS ON FLOODPLAINS	FL: MAY-JUL, FR: MAY-JUL	ER, CB	E		S1	G3G5
<u>Elodea nuttallii</u> Nuttall's Waterweed						
AQUATIC; STREAMS AND PONDS	FL: JUL-SEPT, FR: JUL-SEPT	WR, RV, CP, MF	S		S2	G5
<u>Elymus svensonii</u> Svenson's Wild-rye						
ROCKY BLUFFS	FL: MAY-JUN, FR: JUL-SEPT	WR, CB	T		S2	G3
<u>Epilobium angustifolium</u> Fireweed						
HIGH ELEVATION DISTURBED WOODS	FL: JUL-SEPT, FR: SEPT-NOV	BR	T		S1	G5
<u>Epilobium ciliatum</u> Hairy Willow-herb						
MOUNTAIN BALDS	FL: JUL-SEPT, FR: SEPT-NOV	RV, BR, CU	T		S1	G5
<u>Epilobium leptophyllum</u> Linear-leaved Willow-herb						
MOUNTAIN BOGS AND MARSHES	FL: JUL-OCT, FR: SEPT-NOV	BR	T		S1	G5
<u>Eriocaulon decangulare</u> Ten-angle Pipewort						
ACIDIC WETLANDS	FL: JUN-SEPT, FR: AUG-OCT	ER	E		S1	G5

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Eriogonum harperi</u> Harper's Umbrella-plant						
ROCKY BLUFFS	FL: JUL-AUG, FR: SEPT-OCT	CB	E		S1	G4T2
<u>Eriophorum virginicum</u> Tawny Cotton-grass						
BOGS	FL: JUL-SEPT, FR: JUL-OCT	CU, BR	E		S1S2	G5
<u>Eryngium integrifolium</u> Blue-flower Coyote-thistle						
WET BARRENS	FL: AUG-OCT, FR: SEPT-NOV	ER, RV, WU	T		S1	G5
<u>Erysimum capitatum</u> Western Wallflower						
ROCKY BLUFFS	FL: MAY-JUL, FR: JUN-AUG	CB, RV	E		S1S2	G5
<u>Erythronium rostratum</u> Beaked Trout-lily						
MESIC WOODS AND SLOPES	FL: MAR-APR, FR: APR	WR, ER, CB, WU	S		S2	G5
<u>Eupatorium godfreyanum</u> Godfrey's Thoroughwort						
DRY WOODS	FL: JUN-SEP, FR: JUL-SEP	CU	S		S1	G4
<u>Eupatorium leucolepis</u> White-bracted Thoroughwort						
WET BARRENS	FL: JUN-AUG, FR: JUL-SEPT	ER	E		S1	G5
<u>Euphorbia ouachitana</u> Ozark spurge						
OPEN FORESTS	FL: APR-MAY	CB	S		S2	GNR
<u>Eurybia saxicastellii</u> Rockcastle Aster						
ROCKY RIVER BARS	FL: AUG-OCT, FR: AUG-OCT	CU	E		S1S2	G1G2
<u>Eurybia schreberi</u> Schreber's Aster						
MESIC WOODS & SEEPAGE SLOPES	FL: AUG-OCT, FR: SEPT-NOV	ER, RV, CM, BR, CU	S		S1	G4
<u>Euthamia gymnospermoides</u> Great Plains Goldentop						
PRAIRIES AND BARRENS	FL: AUG-SEP, FR: SEP-OCT	ER, WR	E		S1	G5

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Evolvulus nuttallianus</u>						
		Evolvulus				
GLADES	FL: APR-JUL, FR: APR-JUL	CB	S		S3	G5
<u>Festuca paradoxa</u>						
		Cluster Fescue				
WET WOODS AND PRAIRIES	FL: MAY-JUL, FR: MAY-JUL	ER, CP, BR	S		S1	G5
<u>Fimbristylis perpusilla</u>						
		Harper's Fimbristylis				
DEPRESSIONS IN LOW WOODS	FL: JUL, FR: JUL	CU	E		S1	G2
<u>Fimbristylis puberula</u>						
		Hairy Fimbristylis				
WET PRAIRIES AND WOODS	FL: JUL-SEPT, FR: JUL-SEPT	ER, CB, WU, CU	T		S1S2	G5
<u>Fothergilla major</u>						
		Mountain Witch-alder				
ROCKY SLOPES AND RIVER BANKS	FL: MAR-JUN, FR: JUL-OCT	RV, CU, BR	T		S2	G3
<u>Fuirena squarrosa</u>						
		Hairy Umbrella-sedge				
STREAM AND LAKE MARGINS	FL: JUL-OCT, FR: SEPT-NOV	WR, ER, WU, BR	S		S1	G4G5
<u>Galium asprellum</u>						
		Rough Bedstraw				
SPRING-FED SWAMPS	FL: JUL-SEPT, FR: AUG-OCT	BR	S		S1	G5
<u>Galium palustre</u>						
		Marsh Bedstraw				
LOW GROUND, MEADOWS, SWAMPY HOLLOWES	FL: JUNE-AUG, FR: JUNE-AUG	BR	S		S1	G5
<u>Gaylussacia dumosa</u>						
		Dwarf Huckleberry				
BARRENS	FL: APR-JUN, FR: MAY-SEPT	ER, CU	T		S3	G5
<u>Gentiana linearis</u>						
		Narrow-leaved Gentian				
HIGH ELEVATION WET AREAS	FL: AUG, FR: SEPT	BR	T		S1	G4G5
<u>Gentiana puberulenta</u>						
		Downy Gentian				
BARRENS	FL: SEPT-DEC, FR: SEPT-DEC	ER, CB	E		S1	G4G5

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Geranium robertianum</u> Herb-robot						
SHELTERED LIMESTONE WOODS	FL: APR-MAY, FR: JUN-AUG	CB	S		S1	G5
<u>Geum aleppicum</u> Yellow Avens						
WET MEADOWS, BOGS	FL: JUN-JUL, FR: SEPT-NOV	BR	E		S1	G5
<u>Geum geniculatum</u> Bent Avens						
NORTHERN HARDWOOD FORESTS AND MOUNTAIN BALDS	FL: JUN-AUG, FR: JUL-SEPT	BR	E		S1	G2
<u>Geum laciniatum</u> Rough Avens						
LAKE MARGINS	FL: MAY, FR: JUN	BR	S		S1	G5
<u>Geum radiatum</u> Spreading Avens						
HIGH ELEVATION OUTCROPS AND BALDS	FL: JUN-AUG, FR: JUL-SEPT	BR	E	LE	S1	G2
<u>Glyceria acutiflora</u> Sharp-scaled Mannagrass						
SWAMPS,PONDS	FL: MAY-JUL, FR: MAY-JUL	ER, CU	S		S2	G5
<u>Glyceria laxa</u> Northern Mannagrass						
BOGS AND WET AREAS	FL: JUN-JUL, FR: JUN-AUG	BR	E		S1	G5TUQ
<u>Glyceria nubigena</u> Smoky Mountains Mannagrass						
MOUNTAIN BALDS AND OPEN SEEPS	FL: JUN-JUL, FR: JUN-AUG	BR	T		S1S2	G2G3
<u>Goodyera repens</u> Dwarf Rattlesnake-plantain						
MOIST CONIFER/RHODODENDRON WOODS	FL: JUN-AUG, FR: JUL-SEPT	RV, BR	S		S1	G5
<u>Gratiola brevifolia</u> Sticky Hedge-hyssop						
WET BARRENS AND MARSHES	FL: JUN-SEP, FR: SEP	WR, ER, CU	S		S1	G4
<u>Gratiola floridana</u> Florida Hedge-hyssop						
WOODED SWAMPS	FL: APR-JUN, FR: MAY-AUG	ER, RV, CB	E		S1	G4

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Gratiola viscidula</u> Short's Hedge-hyssop						
STREAMSIDES, POND EDGES, AND OTHER WET AREAS	FL: JUN-SEP, FR: SEP	CU, BR	S		S1	G4G5
<u>Gymnopogon brevifolius</u> Broad-leaved Beardgrass						
BARRENS	FL: AUG-OCT, FR: AUG-OCT	ER	S		S1S2	G5
<u>Hasteola suaveolens</u> Sweet-scented Indian-plantain						
ALLUVIAL WOODS, MOIST SLOPES	FL: AUG-OCT, FR: AUG-OCT	WR	S		S2	G4
<u>Hedyotis purpurea var. montana</u> Roan Mountain Bluet						
HIGH ELEVATION OUTCROPS & GRAVEL TALUS	FL: MAY-JUL, FR: JUL-AUG	BR	E	LE	S1	G5T2
<u>Helenium brevifolium</u> Shortleaf Sneezeweed						
ROCKY, SANDY STREAMSIDES	FL: MAY-JUN, FR: MAY-JUN	CU	E		S1	G4
<u>Helianthemum canadense</u> Canada Frostweed						
DRY RIDGES	FL: APR-JUN, FR: MAY-JUL	BR	E		S1	G5
<u>Helianthemum propinquum</u> Low Frostweed						
BARRENS	FL: JUN-JUL, FR: AUG-OCT	ER, CU	E		S1S2	G4
<u>Helianthus eggertii</u> Eggert's Sunflower						
BARRENS AND ROADSIDES	FL: AUG-SEPT, FR: SEPT-OCT	WR, ER, CU	S	DM	S3	G3
<u>Helianthus glaucophyllus</u> White-leaved Sunflower						
DRY OPEN WOODS	FL: JUL-SEPT, FR: AUG-OCT	BR	T		S1	G3G4
<u>Helianthus occidentalis</u> Naked-stem Sunflower						
LIMESTONE GLADES AND BARRENS	FL: JUL-OCT, FR: OCT-NOV	WR, ER, CB, RV, CP, SV, WU, CU		S		S2
<u>Helianthus verticillatus</u> Whorled Sunflower						
EDGE OF CREEKS AND FIELDS	FL: AUG-OCT, FR: OCT-NOV	CP, WU	E	LE	S1	G1

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Heracleum maximum</u> Cow-parsnip						
MOIST WOODS AND FLOODPLAINS	FL: MAY-JUL, FR: JUL-AUG	WR, RV, BR	S		S2	G5
<u>Heteranthera limosa</u> Blue Mud-plantain						
MUD FLATS	FL: JUN-SEPT, FR: JUN-SEPT	WR, CB, CP, MF	T		S1S2	G5
<u>Heteranthera missouriensis</u> Multiflowered Mud-plantain						
SHALLOW WATER, MUD FLATS	FL: JUN-SEPT; FR: AUG-NOV	CP, MF	S		S1	G3G4
<u>Hexastylis virginica</u> Virginia Heartleaf						
SANDY OR ROCKY WOODS	FL: MAR-MAY, FR: JUNE	RV, CU, BR	S		S2	G4
<u>Hieracium longipilum</u> Hairy Hawkweed						
DRY FIELDS AND SANDY ROAD BANKS	FL: JUL-SEPT, FR: JUL-SEPT	WR, CP, WU	S		S1	G4G5
<u>Hottonia inflata</u> Featherfoil						
WET SLOUGHS AND DITCHES	FL: APR-MAY, FR: MAY-JUL	WR, SV, WU, MF	S		S2	G4
<u>Huperzia appalachiana</u> Appalachian Fir Clubmoss						
SPRUCE-FIR FOREST	SPORULATION: JUN-AUG	BR	T		S1	G5
<u>Hydrocotyle americana</u> American Water-pennywort						
WET SOILS AND POOLS	FL: JUN-JUL, FR: JUL-SEPT	RV, CB, BR, CU	E		S1	G5
<u>Hydrolea ovata</u> Ovate Fiddleleaf						
PONDS AND SWAMPS	FL: JUN-SEPT, FR: JUN-SEPT	CU	S		S1	G5
<u>Hydrolea quadrivalvis</u> Waterpod						
DEPRESSION PONDS & WETLANDS	FL: JUN, FR: JUN	ER, RV, WU	S		S1	G5
<u>Hydrophyllum virginianum</u> Appalachian Waterleaf						
ALLUVIAL WOODS	FL: JUN-JUL, FR: JUL-SEPT	RV, BR	T		S3	G5

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Hymenophyllum tayloriae</u>		Taylor's Filmy Fern				
MOIST ROCKHOUSES	CU, BR	S		S2	G2	
<u>Hypericum adpressum</u>		Creeping St. John's-wort				
EDGES OF PONDS AND LAKES	FL: JUL-SEPT, FR: AUG-OCT	ER, WR, CU	E		S1	G3
<u>Hypericum ellipticum</u>		Pale St. John's-wort				
BOGS	FL: JUL-AUG, FR: AUG-SEPT	BR	E		S1	G5
<u>Hypericum graveolens</u>		Mountain St. John's-wort				
BOGGY WOODS AND RIVER BANKS	FL: JUL-AUG, FR: AUG-SEPT	BR	E		S3	G3
<u>Hypericum mitchellianum</u>		Blue Ridge St. John's-wort				
HIGH ELEVATION, MOIST WOODS	FL: JUL-AUG, FR: AUG-SEPT	BR	T		S2	G3
<u>Hypericum nudiflorum</u>		Early St. Johnswort				
ACIDIC WET AND/OR OPEN AREAS	FL: MAY-JUN, FR: JUN-JUL	ER, SV, CU	S		S2	G5
<u>Iris brevicaulis</u>		Lamance Iris				
BOTTOMLANDS	FL: MAY-JUN, FR: JUN-AUG	WR, CP, WU	E		S1	G4
<u>Iris fulva</u>		Copper Iris				
BOTTOMLANDS	FL: MAY-JUN, FR: JUN-JUL	RV, CP, MF	T		S2	G5
<u>Iris prismatica</u>		Slender Blue Flag				
WET BARRENS	FL: APR-MAY, FR: JUN-JUL	ER	T		S2S3	G4G5
<u>Isoetes appalachiana</u>		Appalachian Quillwort				
STREAMS, SEEPS, AND WETLANDS	SPORULATION: AUG-OCT	BR	E		S1	G4
<u>Isoetes melanopoda</u>		Blackfoot Quillwort				
SEASONAL STREAMBEDS AND WET DEPRESSIONS	FL: MAY-OCT, FR: MAY-OCT	ER, CB, WU	E		S1S2	G5

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Isoetes tennesseensis</u> Hiwassee Quillwort						
ROCKY RIVER BANKS	SPORULATION: JUL-SEPT	RV, BR	E		S1	G1
<u>Isotria medeoloides</u> Small Whorled Pogonia						
MID-ELEVATION DRY WOODS	FL: MAY-JUN, FR: JUN-JUL	BR, CU	E	LT	S1	G2G3
<u>Juglans cinerea</u> Butternut						
RICH WOODS AND HOLLOWES	FL: APR-MAY, FL: AUG-DEC	WR, ER, CB, RV, CP, CM, WU, SV, BR, CU T				S3
<u>Juncus brachycephalus</u> Small-headed Rush						
SEEPS AND WET BLUFFS	FL: JUN-SEPT, FR: JUN-SEPT	WR, ER, CB, RV	S		S2	G5
<u>Juncus brachyphyllus</u> Shortleaf Rush						
WET SANDY AREAS	FL: MAY-JUN, FR: JUN-JUL	CP, WU	S		S1	G5
<u>Juncus elliotii</u> Elliott's Rush						
WET BARRENS	FL: JUL-SEPT, FR: SEPT-OCT	ER	S		S1	G4G5
<u>Krigia montana</u> False Dandelion						
DRY ROCKY OPENINGS	FL: MAY-SEPT, FR: MAY-SEPT	BR	T		S1	G3
<u>Lachnanthes caroliana</u> Carolina Redroot						
ACIDIC WETLANDS AND BARRENS	FL: JUN-JUL, FR: JUL-AUG	ER	E		S1	G4
<u>Lachnocaulon anceps</u> Bog-buttons						
ACIDIC OPEN WETLANDS	FL: MAY-OCT, FR: MAY-OCT	ER, CU	S		S1	G5
<u>Lathyrus palustris</u> Marsh Pea						
WET WOODS & MARSHES	FL: MAY-JUN, FR: JUL-SEPT	ER, RV, CU	S		S1	G5
<u>Lechea pulchella</u> Leggett's Pinweed						
BARRENS	FL: JUL-SEPT, FR: AUG-OCT	ER	E		S1	G5

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Lithospermum subsetosum</u> Smooth False Gromwell						
LIMESTONE WOODS	FL: MAY-JUN, FR: JUN-AUG	CB, CU	E		S1	G4G5T4?
<u>Lobelia amoena</u> Southern Lobelia						
MOUNTAIN FLOOD PLAINS AND POOLS	FL: JUL-OCT, FR: JUL-NOV	BR	T		S1S2	G4?
<u>Lonicera canadensis</u> American Fly-honeysuckle						
MOUNTAIN WOODS AND STREAMS	FL: MAY-JUNE, FR: JUNE-AUG	RV, BR	T		S1	G5
<u>Lonicera dioica</u> Mountain Honeysuckle						
MOUNTAIN WOODS AND THICKETS	FL: MAY-JUL, FR: JUL-SEPT	ER, CB, RV, BR, CU	S		S2	G5
<u>Lonicera flava</u> Yellow Honeysuckle						
ROCKY WOODS AND THICKETS	FL: MAY-JUL, FR: JUL-SEPT	ER, WR, RV, CU	T		S1	G5?
<u>Lonicera prolifera</u> Grape Honeysuckle						
SANDY WOODDED SLOPES	FL: APR-JUN, FR: APR-JUN	WR, CB	E		S1	G5
<u>Ludwigia hirtella</u> hairy Ludwigia						
WET PRAIRIE	FL: JUN-SEP	ER	S		S3	G5
<u>Ludwigia sphaerocarpa</u> Globe-fruited False-loosestrife						
SWAMPS AND SHALLOW POOLS	FL: JUL-SEPT, FR: SEPT-OCT	ER	T		S1	G5
<u>Lycopodiella alopecuroides</u> Foxtail Clubmoss						
WET ACIDIC BARRENS	SPORULATION: MAR-OCT	ER, CU	T		S2	G5
<u>Lycopodiella inundata</u> Inundated Clubmoss						
BOGS	SPORULATION: JULY-SEP	BR	S		S1	G5
<u>Lycopodium dendroideum</u> Treelike Clubmoss						
HIGH ELEV. BALDS & WOODS	SPORULATION: AUG-OCT	BR	S		S1	G5

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Lysimachia fraseri</u> Fraser's Loosestrife						
DRY OPEN WOODS	FL: JUN-AUG, FR: JUL-OCT	WR, RV, WU, BR, CU	E		S2	G3
<u>Lysimachia hybrida</u> lanceleaf loosestrife						
WET PRAIRIE	FL: JUN-AUG	ER	S		S2	G5
<u>Lysimachia lewisii</u> Lewis's loosestrife						
DRY ACIDIC WOODS	FL: MAY-JUN	WR	S		S2	G2
<u>Lysimachia quadriflora</u> Four-flowered Loosestrife						
SPRING RUNS, FENS	FL: JUN-AUG, FR: JUN-AUG	RV	E		S1	G5?
<u>Lysimachia terrestris</u> Swamp Loosestrife						
WET PRAIRIES AND SWAMPS	FL: JUN-AUG, FR: JUL-OCT	ER, BR	E		S1	G5
<u>Lysimachia x producta</u> Loosestrife						
WET MEADOWS	FL: JUN-AUG, FR: AUG-OCT	ER	S		S1	GNA
<u>Magnolia virginiana</u> Sweetbay Magnolia						
FORESTED ACIDIC WETLANDS	FL: APR-MAY, FR: MAY-OCT	RV, CP, WU, BR	T		S2	G5
<u>Maianthemum stellatum</u> Starflower False Solomon's-seal						
FLOODPLAINS AND SANDY WOODS	FL: MAY-JUL, FR: JUL-AUG	ER, RV	E		S1	G5
<u>Marshallia grandiflora</u> Large-fl. Barbara's-buttons						
ROCKY RIVER BARS	FL: JUN-SEPT, FR: AUG-OCT	RV, CU	E		S2	GNR
<u>Marshallia obovata</u> Piedmont Barbara's-buttons						
WOODLANDS & STREAMBANKS	FL: APR-MAY, FR: MAY-JUL	BR	E		S1	G4G5
<u>Marshallia trinervia</u> Broad-leaved Barbara's-buttons						
ROCKY RAVINES	FL: MAY-JUL, FR: JUL-SEPT	ER, WR, CB	T		S2S3	G3

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Meehania cordata</u> Heartleaf Meehania						
WOODED MOUNTAIN SLOPES	FL: MAY-JUL, FR: JUN-AUG	RV, BR	T		S2	G5
<u>Melanthium latifolium</u> Broadleaf Bunchflower						
OAK FOREST	FL: JUL-AUG, FR: AUG-OCT	ER, WR, RV, BR	E		S1S2	G5
<u>Melanthium virginicum</u> Virginia Bunchflower						
WET WOODS AND FIELDS	FL: JUN-AUG, FR: AUG-OCT	ER, CB, WU	E		S1	G5
<u>Melanthium woodii</u> Ozark Bunchflower						
RICH WOODED SLOPES	FL: JUN-JUL, FR: JUN-JUL	WR, CB, RV, CM, CU	S		S2	G5
<u>Menziesia pilosa</u> Minniebush						
HEATH BALDS AND CLIFFS	FL: MAY-JUL, FR: AUG-OCT	BR	S		S2	G4G5
<u>Milium effusum var. cisatlanticum</u> Tall Millet-grass						
RICH WOODS	FL: JUN, FR: JUN	BR	S		S1	G5T5
<u>Minuartia cumberlandensis</u> Cumberland Sandwort						
ROCKHOUSES	FL: JUL-SEPT, FR: SEPT-OCT	CU	E	<u>DM</u>	S2	G3
<u>Minuartia godfreyi</u> Godfrey's Stitchwort						
WET MEADOWS AND MARSHES	FL: APR-JUN, FR: JUN-AUG	WR, BR	E		S1	G1
<u>Minuartia groenlandica</u> Mountain Sandwort						
DRY, HIGH ELEVATION OUTCROPS	FL: APR-JUN, FR: MAY-OCT	BR	E		S1	G5
<u>Minuartia muscorum</u> Dixie Stitchwort						
MEADOWS	FL: APR-JUN, FR: JUN-AUG	CB	S		SU	GNR
<u>Mirabilis albida</u> Pale Umbrella-wort						
GLADES	FL: MAY-AUG, FR: MAY-AUG	CB	T		S2	G5

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Monotropsis odorata</u> Sweet Pinesap						
PINEY WOODS	FL: FEB-MAY, FR: MAR-JUN	RV, BR, CU	T		S2	G3
<u>Muhlenbergia cuspidata</u> Plains Muhly						
LIMESTONE CLIFFS	FL: JUL-OCT, FR: JUL-OCT	ER, CB	E		S1	G5
<u>Muhlenbergia glabrifloris</u> Hair Grass						
DRY WOODS AND BARRENS	FL: AUG-OCT, FR: AUG-OCT	WR, CB	S		S1	G4?
<u>Muhlenbergia torreyana</u> Torrey's Dropseed						
OAK BARREN BOGS	FL: AUG-OCT, FR: AUG-NOV	ER	E		S1	G3
<u>Myriophyllum pinnatum</u> Cutleaf Water-milfoil						
ACIDIC WETLAND AND PONDS	FL: JUN-SEPT, FR: JUL-OCT	ER, CP, CU	E		S1	G5
<u>Nemopanthus collinus</u> Long-stalked Holly						
HIGH ELEVATION SEEPS	FL: MAY-JUN, FR: JUN-AUG	BR	S		S1	G3
<u>Neobeckia aquatica</u> Lake Cress						
GUM OR CYPRESS SWAMPS	FL: APR-MAY, FR: JUN-JUL	WR, ER, CU, MF	S		S2	G4?
<u>Nestronia umbellula</u> Nestronia						
UPLAND WOODS	FL: APR-JUN, FR: JUN-AUG	ER, RV, CU, BR	E		S1	G4
<u>Nevisia alabamensis</u> Alabama Snow-wreath						
UPLAND WOODS	FL: APR-MAY, FR: MAY-JUN	ER, CB, RV, CU	T		S2	G3
<u>Oenothera macrocarpa</u> Missouri Primrose						
LIMESTONE CEDAR GLADES	FL: JUN-AUG, FR: JUL-OCT	CB	T		S2	G5
<u>Oenothera parviflora</u> Northern Evening-primrose						
DISTURBED OPEN AREAS	FL: MAY-SEPT, FR: MAY-SEPT	RV, BR, CU	S		S1	G5

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Oligoneuron album</u> Prairie Goldenrod						
BARRENS	FL: JUL-SEPT, FR: AUG-SEPT	ER, RV, CB, CU	E		S1S2	G5
<u>Packera crawfordii</u> swamp ragwort						
LOW WOODS	FL: APR-MAY	ER	E		S1	G2
<u>Packera paupercula var. appalachiana</u> Appalachian Ragwort						
ROCKY WOODLANDS	FL: APR-JUN		S		S1	G5TNR
<u>Packera plattensis</u> Prairie Ragwort						
OPEN RIVERBANKS, BARRENS	FL: APR-JUN, FR: JUN-AUG	WR, CB	S		S1	G5
<u>Packera schweinitziana</u> Schweinitz's ragwort						
HIGH ELEVATION BALDS	FL: MAY-JUN, FR: JUL-SEP	BR	T		S1	G5?
<u>Panax quinquefolius</u> American Ginseng						
RICH WOODS	FL: APR-JUL, FR: MAY-OCT	WR, ER, CB, RV, CP, CM, WU, SV, BR, CU, MF			S-CE	
<u>Panicum hemitomom</u> Maidencane						
PONDS IN BARRENS	FL: JUN-JUL, FR: JUL-SEPT	ER	S		S2	G5?
<u>Parnassia grandifolia</u> Large-leaved Grass-of-parnassus						
CALCAREOUS SEEPS	FL: AUG-OCT, FR: NOV-DEC	WR, ER, CB, RV	S		S3	G3
<u>Paronychia argyrocoma</u> Silverling						
DRY SANDSTONE, GRANITE OUTCROPS	FL: APR-JUN, FR: MAY-SEP	BR, CU	T		S1S2	G4
<u>Patis racemosa</u> mountain ricegrass						
CALCAREOUS WOODLANDS	FR: JUN-AUG	RV	E		S1	G5
<u>Paxistima canbyi</u> Canby's Mountain-lover						
ROCKY, MOUNTAIN WOODS	FL: APR-MAY, FR: SEPT	RV	E		S1	G2?

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Paysonia densipila</u> Duck River Bladderpod						
CULTIVATED FIELDS	FL: MAR-APR, FR: APR-MAY	WR, CB	S		S3	G3
<u>Paysonia perforata</u> Spring Creek Bladderpod						
CULTIVATED FIELDS, FLOODPLAINS & OUTCROPS	FL: MAR-APR, FR: APR-MAY	CB	E	<u>LE</u>	S1	G1
<u>Paysonia stonensis</u> Stones River Bladderpod						
CULTIVATED FIELDS	FL: MAR-APR, FR: APR-MAY	CB	E		S1	G1
<u>Pedicularis lanceolata</u> Swamp Lousewort						
WET ACIDIC BARRENS AND SEEPS	FL: AUG-SEP, FR: SEP-OCT	ER, WR, RV, BR, CU	S		S1S2	G5
<u>Penstemon kralii</u> Cumberland beard tongue						
CALCAREOUS WOODLANDS	FL: APR-MAY	CU	E		S1	G2
<u>Penstemon tubiflorus</u> Small-flowered Beardtongue						
MOIST WOODS	FL: APR-AUG, FR: MAY-SEPT	CP	S		S1	G5
<u>Perideridia americana</u> Eastern Yampah						
CEDAR BARRENS	FL: JUN-JUL, FR: JUL-SEPT	CB	E		S2	G4
<u>Phegopteris connectilis</u> Northern Beechfern						
MOUNTAIN BOGS AND ROCKY SEEPS	SPORULATION: JUN-AUG	BR	E		S1	G5
<u>Phemeranthus calcaricus</u> Limestone Fame-flower						
GLADES	FL: JUN-SEPT, FR: SEPT-OCT	CB, RV	S		S3	G3
<u>Phemeranthus mengesii</u> Menge's Fame-flower						
DRY ROCK LEDGES	FL: JUN-SEPT, FR: JUN-SEPT	RV, CU	T		S2	G3
<u>Phemeranthus teretifolius</u> Roundleaf Fameflower						
DRY SANDY ROCK OUTCROPS	FL: JUN-SEPT, FR: JUN-SEPT	CU	T		S2	G4

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Phlox bifida ssp. stellaria</u> Glade Cleft Phlox						
GLADES	FL: MAR-MAY, FR: MAY-JUL	WR, CB	T		S3	G5?T3
<u>Phlox ovata</u> wideflower phlox						
MOUNTAIN FORESTS	FL:MAY-JUN		S		S2S3	G4
<u>Phlox pilosa ssp. ozarkana</u> Ozark Downy Phlox						
ROCKY, DRY OPEN WOODS	FL: APR-MAY, FR: MAY-JUN	WR, CB, WU	S		S1S2	G5T4?
<u>Phlox subulata</u> Moss Phlox						
SHALEY SLOPES	FL: APR-MAY, FR: MAY-JUN	RV, BR	S		S1	G5
<u>Phyllanthopsis phyllanthoides</u> Maidenbush						
LIMESTONE OUTCROPS	FL:MAY-OCT	ER	T		S1	G4
<u>Physaria globosa</u> Short's Bladderpod						
LIMESTONE TALUS SLOPES AND CLIFFS	FL: MAR-MAY, FR: MAY-JUL	WR, CB	E	LE	S2	G2
<u>Pieris floribunda</u> Mountain Fetter-bush						
HEATH THICKETS	FL: MAY-JUN, FR: AUG-OCT	RV, BR	T		S2	G4
<u>Pilularia americana</u> American Pillwort						
LAKE DRAWDOWN ZONES	SPORULATION: APR-OCT	WU, BR, CU	S		S1S2	G5
<u>Pityopsis ruthii</u> Ruth's Golden-aster						
BOULDERY RIVER SHOALS	FL: SEP-OCT, FR: OCT-NOV	BR	E	LE	S1	G1
<u>Plantago cordata</u> Heart-leaved Plantain						
LIMESTONE CREEK BEDS	FL: MAR-MAY, FR: MAY-JUL	WU, CU	E		S1	G4
<u>Platanthera cristata</u> Yellow Crested Orchid						
ACIDIC SEEPS AND STREAM HEADS	FL: JUN-SEP, FR: SEP-OCT	ER, WU, BR, CU	S		S2S3	G5

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Platanthera flava var. herbiola</u> Tubercled Rein-orchid						
SWAMPS AND FLOODPLAINS	FL: MAY-JUNE, FR: JUL-SEP	ER, RV, CM, BR	T		S2	G4?T4Q
<u>Platanthera grandiflora</u> Large Purple Fringed Orchid						
WET MEADOWS AND OPEN WOODS	FL: JUN-AUG, FR: AUG-SEP	RV, BR	E		S2	G5
<u>Platanthera integra</u> Yellow Fringeless Orchid						
WET BARRENS	FL: JUL-SEPT, FR: AUG-SEPT	ER, CB, CU	E		S1	G3G4
<u>Platanthera integrilabia</u> White Fringeless Orchid						
ACIDIC SEEPS AND STREAM HEADS	FL: JUL-SEP, FR: SEP-OCT	BR, CU	E	<u>LT</u>	S2S3	G2G3
<u>Platanthera nivea</u> Snowy Orchid						
WET BARRENS	FL: JUN-AUG, FR: JUL-SEPT	ER	E		S1	G5
<u>Platanthera psycodes</u> Small Purple Fringed Orchid						
WET WOODS AND BOG MARGINS	FL: JUN-AUG, FR: JUL-SEP	BR	S		S2	G5
<u>Poa palustris</u> Fowl Bluegrass						
WET BALDS	FL: JUN-JUL, FR: JUN-SEP	BR	E		S1	G5
<u>Poa saltuensis</u> Drooping Bluegrass						
RICH OAK WOODS	FL: JUL-AUG, FR: AUG-OCT	ER, CU, BR	T		S1	G5
<u>Pogonia ophioglossoides</u> Rose Pogonia						
WET ACIDIC BARRENS	FL: JUN-AUG, FR: JUL-SEPT	ER, CU, BR	E		S2	G5
<u>Polygala boykinii</u> Boykin's Milkwort						
GLADES	FL: MAY-AUG, FR: JUN-SEPT	CB	T		S2	G4
<u>Polygala mariana</u> Maryland Milkwort						
SANDY ALLUVIAL WOODS AND DISTURBED AREAS	FL: JUN-OCT, FR: JUN-OCT	ER, WR, RV, WU	S		S1	G5

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Polygala nana</u> Dwarf Milkwort						
WET ACIDIC BARRENS	FL: MAY-JUN, FR: JUN-JUL	ER, CU	E		S1	G5
<u>Polygala nuttallii</u> Nuttall's Milkwort						
PRAIRIES	FL: JUN-AUG, FR: JUN-AUG	ER	E		S1	G5
<u>Polygonella americana</u> Southern Jointweed						
DRY, OPEN WOODS AND BARRENS	FL: JUN-SEPT, FR: AUG-NOV	CU	E		S1S2	G5
<u>Polygonum arifolium</u> Halberd-leaf Tearthumb						
WETLANDS AND MARSHES	FL: JUL-NOV, FR: AUG-NOV	CP, WU, BR	T		S1	G5
<u>Polygonum cilinode</u> Fringed Black Bindweed						
DRY ROCKY WOODS AND THICKETS	FL: JUN-SEP, FR: AUG-NOV	RV, BR	T		S1S2	G5
<u>Polymnia johnbeckii</u> John Beck's Leafcup						
LIMESTONE OUTCROPS	FL: JUL-NOV FR: JUL-NOV	CU	E		S1	G1
<u>Polytaenia nuttallii</u> Prairie Parsley						
PRAIRIES AND OPEN DRY AREAS	FL: APR-JUN, FR: JUN-AUG	WR, CB, WU	T		S1	G5
<u>Ponthieva racemosa</u> Shadow-witch						
WET WOODS	FL: JUL-SEPT, FR: AUG-SEPT	ER, CU	E		S1	G4G5
<u>Potamogeton amplifolius</u> Large-leaf Pondweed						
LAKES AND STREAMS	FL: JUN-SEP, FR: AUG-NOV	ER, RV, CU, BR	T		S1	G5
<u>Potamogeton epihydrus</u> Nuttall's Pondweed						
LAKES AND STREAMS	FL: JUN-SEP, FR: AUG-NOV	RV, BR, CU	S		S1S2	G5
<u>Potamogeton tennesseensis</u> Tennessee Pondweed						
SLOW ACIDIC STREAMS	FL: MAY-SEP, FR: AUG-SEP	CU, BR	T		S2	G2G3

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Potentilla tridentata</u> Three-toothed Cinquefoil						
HIGH ELEVATION OPENINGS	FL: JUN-AUG, FR: JUL-SEP	BR	T		S1S2	G5
<u>Prenanthes alba</u> White Rattlesnakeroot						
LIMESTONE SEEPS	FL: AUG-SEP, FR: SEP	RV	S		S1	G5
<u>Prenanthes aspera</u> Rough Rattlesnake-root						
BARRENS AND ROADSIDES	FL: AUG-SEPT, FR: AUG-SEPT	WR, ER, WU	E		S1	G4?
<u>Prenanthes barbata</u> Bearded Rattlesnake-root						
BARRENS AND DRY WOODLANDS	FL: AUG-SEPT, FR: SEPT-NOV	WR, CB, WU	S		S2	G3
<u>Prunus pumila</u> Sand Cherry						
BARRENS	FL: MAY-JUN, FR: JUN-JUL	ER	E		S1	G5
<u>Prunus virginiana</u> Choke Cherry						
MOIST COVES AND SLOPES	FL: MAY-JUN, FR: JUN-JUL	RV, CP, BR	S		S1	G5
<u>Pseudognaphalium helleri</u> Heller's Catfoot						
DRY SANDY WOODS	FL: SEPT-OCT, FR: SEPT-OCT	WR, RV, CP, WU, CU	S		S2	G4G5
<u>Pseudognaphalium micradenium</u> Heller's cudweed						
DRY WOODS	FL:AUG-OCT		S		S2	G4G5T3?
<u>Pycnanthemum beadlei</u> Beadle's Mountain Mint						
MOUNTAIN WOODS	FL: JUL-SEPT, FR: SEPT-NOV	BR	E		S1S2	G2G3
<u>Pycnanthemum torrei</u> Torrey's Mountain-mint						
BARRENS	FL: JUL-AUG, FR: AUG-SEPT	WR, ER, RV	E		S1	G2
<u>Pycnanthemum verticillatum</u> Whorled Mountain-mint						
UPLAND WOODS, THICKETS	FL: JUL-SEPT, FR: JUL-SEPT	CU	E		S1	G5

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Pyrola americana</u> American Wintergreen						
MOIST WOODS AND BOGS	FL: JUN-AUG, FR: JUL-SEP	RV, BR	E		S2	G5
<u>Quercus margarettiae</u> Sand Post Oak						
SANDY HILLS	FL: MAR-MAY, FR: SEPT-DEC	CP	S		S1	G5
<u>Ranunculus aquatilis var. diffusus</u> White Water-buttercup						
PONDS AND STREAMS	FL: MAY-SEPT, FR: MAY-SEPT	WR, CB	E		S1	G5T5
<u>Ranunculus flabellaris</u> Yellow Water-crowfoot						
PONDS AND MARSHES	FL: APR-JUN, FR: JUN-JUL	ER, WR, RV, MF	T		S2	G5
<u>Ranunculus harveyi</u> Harvey's buttercup						
ROCKY OPEN WOODS	FLW: APR, FR: MAY		S		S1	G4
<u>Rhamnus alnifolia</u> Alderleaf Buckthorn						
SWAMPS, LOW WOODS	FL: MAY-JUL, FR: AUG-SEPT	RV	E		S1	G5
<u>Rhynchosia latifolia</u> Prairie Rhynchosia						
DRY SANDY ROADBANKS	FL: JUN-AUG, FR: JUN-AUG	WU	T		S1	G5
<u>Rhynchospora caduca</u> Falling Beaked-rush						
MARSHES, WET GROUND	FL: JUN-SEPT; FR: AUG-OCT	ER, RV	S		S1	G5
<u>Rhynchospora capillacea</u> Horned Beakrush						
LIMESTONE CREEK BANKS AND SEEPS	FL: JUL-SEPT, FR: JUL-SEPT	RV	E		S1	G4G5
<u>Rhynchospora chalarocephala</u> Loose-headed Beakrush						
WET BARRENS	FL: JUL-SEPT, FR: JUL-SEPT	ER, CU	T		S1	G5
<u>Rhynchospora debilis</u> Savannah Beaksedge						
WET BARRENS	FL: JUL-SEP, FR: JUL-SEP	WR	E		S1	G4?

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Rhynchospora harveyi</u> Harvey's Beakrush						
BARRENS AND OTHER OPEN AREAS	FL: APR-JUN, FR: MAY-JUN	ER, CP, CU	T		S1	G4
<u>Rhynchospora inexpansa</u> nodding beaksedge						
WET CLEARINGS	FL: JUL-SEP		S		S1	G5
<u>Rhynchospora macrostachya</u> Tall Horned Beak-Rush						
DEPRESSION PONDS AND WET BARRENS	FL: JUL-AUG, FR: AUG-SEP	ER	S		S1S2	G4
<u>Rhynchospora perplexa</u> Obscure Beak-rush						
MARSHES, WET BARRENS	FL: JUL-SEPT, FR: JUL-SEPT	ER, SV, CU	T		S2	G5
<u>Rhynchospora rariflora</u> Few-flowered Beak-rush						
SWAMPS AND BOGS	FL: JUL-SEPT, FR: JUL-SEPT	ER, CU	E		S1	G5
<u>Ribes curvatum</u> Granite Gooseberry						
ROCKY WOODS	FL: MAY-JUN, FR: JUN-JUL	CU	T		S1	G4
<u>Ribes missouriense</u> Missouri Gooseberry						
ROCKY WOODS	FL: APR-MAY, FR: JUN-SEP	WR, RV, CB, CU	S		S2	G5
<u>Ribes odoratum</u> Buffalo Currant						
LIMESTONE BLUFFS	FL: APR-JUN, FR: JUN-AUG	WR	T		S1	G5T4T5
<u>Rudbeckia subtomentosa</u> Sweet Coneflower						
BARRENS	FL: AUG-SEPT, FR: SEPT-OCT	WR, CP, WU	T		S2	G5
<u>Rudbeckia triloba var. pinnatifida</u> Pinnate-lobe Black-eyed-susan						
DOLOMITIC GLADES AND BLUFFS	FL: JUL-OCT, FR: AUG-NOV		E		S1	G5T3
<u>Rugelia nudicaulis</u> Rugel's Ragwort						
HIGH ELEVATION OPEN WOODS	FL: JUN-AUG, FR: JUL-OCT	BR	E		S2	G3

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Sabatia capitata</u> Cumberland Rose Gentian						
DRY OPEN WOODS, POWERLINES	FL: JUN-SEPT, FR: AUG-OCT	CU	E		S2	G2
<u>Sacciolepis striata</u> Gibbous Panic-grass						
FLOODPLAINS AND SHALLOW POOLS	FL: JUL-OCT, FR: AUG-OCT	RV, CP, WU, BR	S		S1	G5
<u>Sagittaria brevirostra</u> Short-beaked Arrowhead						
SWAMPS AND FLOODPLAINS	FL: JUN-SEPT, FR: JUN-SEPT	WR	T		S1	G5
<u>Sagittaria graminea</u> Grassleaf Arrowhead						
PONDS AND STREAM MARGINS	FL: MAY-NOV, FR: MAY-NOV	WR, ER, CU	T		S1	G5
<u>Sagittaria platyphylla</u> Ovate-leaved Arrowhead						
SWAMPS, EMERGENT	FL: MAY-JUL, FR: JUN-SEPT	WR, RV, CB, CU, MF	S		S2S3	G5
<u>Sagittaria rigida</u> Sessile-fruited Arrowhead						
PONDS AND MARSHES	FL: MAY-OCT, FR: MAY-OCT	WR	E		S1	G5
<u>Salvia azurea var. grandiflora</u> Blue Sage						
BARRENS	FL: JUL-OCT, FR: SEPT-DEC	WR, CP, WU	S		S3	G4G5T4?
<u>Sanguisorba canadensis</u> Canada Burnet						
BOGS, SEEPS, AND WET MEADOWS	FL: JUL-OCT, FR: AUG-OCT	BR	E		S1	G5
<u>Saxifraga caroliniana</u> Carolina Saxifrage						
SEEPAGE SLOPES AND WET CLIFFS	FL: MAR-JUN, FR: JUN-JUL	RV, BR	E		S1S2	G3
<u>Saxifraga pensylvanica</u> Swamp Saxifrage						
MARSHES AND WET MEADOWS	FL: APR-JUN, FR: JUN-AUG	BR	E		S1	G5
<u>Schisandra glabra</u> Red Starvine						
RICH MESIC WOODS, BLUFFS	FL: MAY-JUN, FR: JUN-AUG	RV, CP, MF	T		S2	G3

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Schoenolirion croceum</u> Yellow Sunnybell						
WET AREAS IN GLADES	FL: APR-MAY, FR: MAY-JUN	CB	T		S3	G4
<u>Schoenoplectus subterminalis</u> Water Bulrush						
PONDS AND STREAM MARGINS	FL: JUN-JUL, FR: JUN-JUL	CU	E		S1	G5
<u>Scleria muehlenbergii</u> Muhlenberg's Nutrush						
WET MEADOWS	FL: JUN-SEPT; FR: AUG-OCT	ER, CU	T		S2	G5
<u>Scleria verticillata</u> Low Nutrush						
WET PRAIRIES AND FENS	FL: JUL-SEPT, FR: JUL-SEPT	ER, WR, CB	S		S2	G5
<u>Scrophularia lanceolata</u> Hare Figwort						
WOODS, FORESTS	FL: MAY-JUL	BR	S		SH	G5
<u>Scutellaria arguta</u> Hairy Skullcap						
MOUNTAIN WOODS, HIGH MOIST TALUS SLOPES	FL: JUN-AUG, FR: JUL-AUG	BR	E		S1	G1?Q
<u>Scutellaria montana</u> Large-flowered Skullcap						
ESCARPMENTS, DRY WOODS	FL: APR-MAY, FR: MAY-JUN	RV, CU	T	<u>LT</u>	S4	G4
<u>Sedum nevii</u> Nevius' Stonecrop						
ROCKY BLUFFS AND CLIFFS	FL: MAY-JUN, FR: JUN-JUL	RV, SV, BR	E		S1	G3
<u>Silene caroliniana ssp. pensylvanica</u> Carolina Pink						
ROCKY BLUFFS	FL: APR-JUL, FR: APR-JUL	RV, BR	T		S1S2	G5T4T5
<u>Silene ovata</u> Ovate Catchfly						
OPEN OAK WOODS	FL: JUN-AUG, FR: AUG-OCT	CB, RV, CP, WU, SV, CM, BR, CU		E		S2
<u>Silphium brachiatum</u> Cumberland Rosinweed						
RICH ROCKY WOODS	FL: JUL-SEPT, FR: SEPT-OCT	ER, SV, CU	E		S3	G3

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Silphium laciniatum</u> Compass Plant						
BARRENS	FL: JUL-SEPT, FR: SEPT-OCT	WR, RV, CP	T		S2	G5
<u>Silphium pinnatifidum</u> Southern Prairie-dock						
BARRENS	FL: JUL-SEPT, FR: SEPT-OCT	ER, WR, RV, CB, CU	T		S2	G3Q
<u>Smilax laurifolia</u> Laurel-leaf Greenbrier						
WET WOODS AND SWAMPS	FL: JUN-AUG, FR: SEPT-OCT	RV	S		S1	G5
<u>Solidago austrina</u> Virginia goldenrod						
WET BARRENS AND FIELDS	FL: SEPT-OCT; FR: OCT-NOV	ER	S		S1	GNR
<u>Solidago faucibus</u> Gorge Goldenrod						
MESIC WOODS IN GORGES	FL: AUG-OCT, FR: OCT-NOV	CM	T		S2	G2G4
<u>Solidago gattingeri</u> Gattinger's Goldenrod						
GLADES	FL: JUL-SEPT, FR: JUL-SEPT	CB	E		S1	G3?Q
<u>Solidago lancifolia</u> Broadleaf Goldenrod						
MOUNTAIN WOODS	FL: AUG-OCT, FR: SEP-OCT	BR	E		S1	G2
<u>Solidago porteri</u> Porter's goldenrod						
DRY WOODS	FL: JUL-SEP	WR	E		S1	G1
<u>Solidago rupestris</u> Rock Goldenrod						
LIMESTONE RIVERBANKS, BLUFFS	FL: JUL-OCT, FR: JUL-OCT	WR	E		S1	G4?
<u>Solidago spithamea</u> Blue Ridge Goldenrod						
HIGH ELEVATION OUTCROPS	FL: JUL-SEP, FR: JUL-OCT	BR	E	LT	S1	G2
<u>Solidago tarda</u> Late Goldenrod						
SANDY PINE WOODS	FL: JUL-OCT, FR: JUL-OCT	CU	S		S1	G4?Q

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Sparganium androcladum</u> Branching Bur-reed						
SLOW FLOWING STREAMS AND RIVERS, PONDS	FL: MAY-SEP, FR: AUG-OCT	ER, RV, BR	E		S1	G4G5
<u>Spiraea alba</u> Narrow-leaved Meadow-sweet						
BOGS	FL: JUN-SEP, FR: JUL-OCT	CU, BR	E		S1	G5
<u>Spiraea virginiana</u> Virginia Spiraea						
STREAM BARS AND LEDGES	FL: JUN-JUL, FR: AUG-SEP	ER, BR, CU	E	<u>LT</u>	S2	G2?
<u>Spiranthes lucida</u> Shining Ladies'-tresses						
ALLUVIAL WOODS AND SLOPES	FL: MAY-JUN, FR: JUN-JUL	WR, ER, RV, BR, CU	T		S1S2	G4
<u>Spiranthes magnicamporum</u> Great Plains Ladies'-tresses						
GLADES	FL: OCT-NOV, FR: NOV-DEC	ER, WU, CU	E		S1	G3G4
<u>Spiranthes ochroleuca</u> Yellow Nodding Ladies'-tresses						
MOIST MOUNTAIN WOODS	FL: SEPT-OCT, FR: SEPT-OCT	WR, BR, CU	E		S1	G4
<u>Spiranthes odorata</u> Sweetscent Ladies'-tresses						
SWAMPS, POND MARGINS	FL: OCT-MAR, FR: OCT-MAR	WR, RV, CB, CP	E		S1	G5
<u>Sporobolus arcuatus</u> Cumberland Sand-Grass						
ROCKY AND SANDY RIVER BARS	FL: AUG-SEPT, FR: AUG-SEPT	CU	T		S2	G2G3
<u>Sporobolus heterolepis</u> Northern Dropseed						
LIMESTONE GLADES AND BARRENS	FL: JUL-AUG, FR: AUG-OCT	CB	T		S1	G5
<u>Sporobolus junceus</u> Pinelands Dropseed						
DRY PINEY WOODS	FL: SEPT-OCT, FR: SEPT-OCT	CU	E		S1	G5
<u>Stachys appalachiana</u> Appalachian Hyssop						
BOGS AND FENS	FL: MAY-JUN, FR: JUL, AUG	BR	E		S1	G1G2

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Stachys clingmanii</u> Clingman's Hedge-nettle						
MOUNTAIN MEADOWS	CLEARINGS AND FL: JUN-AUG, FR: SEP-OCT	BR	T		S1S2	G2
<u>Stachys glandulosissima</u> Sticky Hedge-nettle						
Shale Talus Slopes	FL: MAY-JUN, FR: JUL-AUG		S		S1	G1
<u>Stellaria alsine</u> Trailing Stitchwort						
BOGS AND WET AREAS	FL: APR-MAY, FR: MAY-AUG	BR	E		S1	G5
<u>Stellaria fontinalis</u> Water Stitchwort						
SEEPS AND BEDS	LIMESTONE CREEK FL: APR-MAY, FR: MAY-JUN	WR, CB	S		S3	G3
<u>Stellaria longifolia</u> Longleaf Stitchwort						
BOGS	FL: APR-MAY, FR: MAY-AUG	BR	S		S1	G5
<u>Stenanthium diffusum</u> Cumberland featherbells						
ROCKHOUSES	FL: SEP-OCT, FR: NOV	CU	E		S1	G1
<u>Stenanthium tennesseense</u> Death-camas						
ACIDIC WETLANDS	FL: MAY-JUN, FR: JUN-JUL	ER, CU	T		S2	G2
<u>Streptopus amplexifolius</u> White Mandarin						
WET CLIFFS AND MOUNTAIN WOODS	FL: APR-JUN, FR: JUL-SEP	RV, BR	T		S1	G5
<u>Streptopus roseus</u> Rosy Twisted-stalk						
RICH, MOIST MOUNTAIN WOODS	FL: APR-JUN, FR: JUN-JUL	BR	S		S2	G5
<u>Stylisma humistrata</u> Southern Morning-glory						
DRY PINEY WOODS	FL: JUN-AUG, FR: JUN-AUG	RV, WU	T		S1	G4G5
<u>Sullivantia sullivantii</u> Sullivantia						
MOIST SHADED CLIFFS	FL: JUNE-JULY, FR: JULY-AUG.	RV	E		S1	G4

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Symphotrichum ericoides var. ericoides</u> White Heath Aster						
BARRENS	FL: AUG-OCT, FR: OCT-NOV	RV, WU, BR	E		S1	G5T5
<u>Symphotrichum praealtum</u> Willow Aster						
MOIST PRAIRIES AND MARSHES	FL: SEPT-OCT, FR: OCT-NOV	CB, CP, BR	E		S1	G5
<u>Symphotrichum pratense</u> Barrens Silky Aster						
BARRENS	FL: AUG-SEPT, FR: AUG-SEPT	ER, RV, WU, CU	E		S1	G4?
<u>Symplocarpus foetidus</u> Skunk-cabbage						
SWAMPS AND BOGS	FL: FEB-MAR, FR: MAR-DEC	RV, BR	E		S1	G5
<u>Symplocos tinctoria</u> Horse-sugar						
FLOODPLAINS AND MOIST RAVINES	FL: APR-MAY, FR: MAY-JUL	CP, WU, BR	S		S2	G5
<u>Taxus canadensis</u> American Yew						
SANDSTONE OUTCROPS	FL: JUN-JUL, FR: AUG-NOV	CU	E		S1	G5
<u>Thaspium pinnatifidum</u> Cutleaf Meadow-parsnip						
CALCAREOUS WOODLANDS	FORESTS AND FL: MAY-JUNE, FR: JUNE-JULY	BR	E		S1	G2G3
<u>Thermopsis fraxinifolia</u> Ash-leaved Bush-pea						
ROADSIDES AND DRY OPEN WOODS	FL: MAY-JUL, FR: JUL-OCT	RV, BR, CU	T		S3	G3?
<u>Thermopsis mollis</u> Allegheny Mountain golden banner						
UPLAND WOODS	FL: APR-JUN, FR: JUN-AUG	RV, CU, BR	S		S2S3	G3G4
<u>Torreyochloa pallida</u> Pale Manna Grass						
POND AND STREAM MARGINS	FL: MAY-JUN, FR: MAY-JUL	WR, ER	S		S1	G5
<u>Trautvetteria fonticalcareae</u> Leatherleaf tassel rue						
Calcareous Seeps	FL: JUN-AUG, FR: AUG-SEP	RV	T		S1	G2?

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Triadenum fraseri</u> Marsh St. John's-wort						
MOUNTAIN BOGS/WETLANDS	FL: JUL-AUG, FR: AUG-OCT	BR	S		S1?	G5
<u>Triantha glutinosa</u> Sticky Bog-asphodel						
SEEPS	FL: JUN-AUG, FR: JUL-AUG	RV	E		S1	G5
<u>Triantha racemosa</u> Coastal False-asphodel						
WET BARRENS	FL: JUN-AUG, FR: SEPT-OCT	ER	E		S1	G5
<u>Trichomanes boschianum</u> Bristle-fern						
ROCKY SEEPS	SPORULATION: JUN-SEP	CB, CM, CU, BR	T		S1S2	G4
<u>Trichomanes petersii</u> Dwarf Filmy-fern						
ROCKY SEEPS	SPORULATION: JUN-AUG	BR, CU	T		S2	G4G5
<u>Trichophorum cespitosum</u> Tufted Club-rush						
MOUNTAIN BOGS	FL: JUL-SEP, FR: AUG-OCT	BR	E		S1	G5
<u>Tridens flavus var. chapmanii</u> Chapman's Redtop						
SANDY WOODS, BARRENS	ROADSIDE FL: AUG-OCT, FR: SEPT-NOV	WU, CU	E		S1	G5T3
<u>Trientalis borealis</u> Northern Starflower						
MOUNTAIN HARDWOOD FORESTS	FL: MAY-JUN, FR: JUN-SEP	RV, CM, BR	T		S1	G5
<u>Trifolium calcaricum</u> Running Glade Clover						
GLADES, CEDAR WOODS, AND THICKETS	FL: MAY-JUN, FR: JUN-JUL	CB	E		S1	G1
<u>Trifolium reflexum</u> Buffalo Clover						
ROCKY OPEN WOODS	FL: APR-JUL, FR: JUL-SEPT.	WR, CB, CP, BR	E		S1	G3G4
<u>Trillium decumbens</u> Trailing Trillium						
FLOODPLAINS AND ROCKY, OPEN, MOUNTAIN WOODS	FL: APR-MAY, FR: MAY-JUL	BR	E		S1	G4

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Veronica americana</u> American Speedwell						
MARSHES AND BOGS	FL: MAY-JUN, FR: JUN-AUG	BR	S		S1	G5
<u>Veronica catenata</u> Sessile Water-speedwell						
SLOW FLOWING STREAMS AND DITCHES	FL: MAY-OCT, FR: MAY-OCT	CB	E		S1	G5
<u>Veronica scutellata</u> Marsh-speedwell						
MARSHES AND POND MARGINS	FL: MAY-AUG, FR: JUL-SEP	BR	E		S1	G5
<u>Viburnum bracteatum</u> Limerock Arrowwood						
ROCKY RICH WOODS	FL: MAY-JUL, FR: JUN-SEPT	ER, CU	S		S2	G3
<u>Viburnum molle</u> Softleaf Arrow-wood						
ROCKY WOODS AND LIMESTONE BLUFFS	FL: MAY-JUN, FR: JUL-SEPT	CB	E		S2	G5
<u>Viburnum rafinesquianum</u> Downy Arrowwood						
CALCAREOUS WOODS AND RIVER BLUFFS	FL: MAY-JUL, FR: SEP	RV	S		S1	G5
<u>Vitis rupestris</u> Sand Grape						
SANDY, ROCKY RIVERBANKS	FL: MAY-JUN, FR: JUL-AUG	WR, ER, CB	E		S1	G3
<u>Woodsia scopulina ssp. appalachiana</u> Alleghany Cliff-fern						
MOUNTAIN CLIFFS	SPORULATION: JUN-SEP	BR	S		S1S2	G4
<u>Woodwardia virginica</u> Virginia Chainfern						
ACIDIC WETLANDS	SPORULATION: JUN-SEP	ER, CU, BR	S		S2	G5
<u>Xerophyllum asphodeloides</u> Eastern Turkeybeard						
DRY OAK OR PINEY WOODS	FL: MAY-JUN, FR: JUN-AUG	RV, BR	T		S3	G4
<u>Xyris ambigua</u> Coastal Plain Yellow-eyed Grass						
MARGINS OF PONDS, BOGS, AND DITCHES	FL: JUN-AUG, FR: AUG-OCT	ER, CU	E		S1	G5

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Xyris fimbriata</u> Fringed Yellow-eyed Grass						
ACIDIC PONDS	FL: SEPT-OCT, FR: SEPT-OCT	ER	E		S1	G5
<u>Xyris laxifolia var. iridifolia</u> Wide-leaved Yellow-eyed Grass						
POND MARGINS AND MARSHES	FL: JUN-AUG, FR: AUG-OCT	ER, CU	T		S2	G4G5T4T5
<u>Xyris tennesseensis</u> Tennessee Yellow-eyed Grass						
CALCAREOUS SEEPS	FL: AUG-SEPT, FR: SEPT-OCT	WR	E	<u>LE</u>	S1	G2
<u>Zanthoxylum americanum</u> Northern Prickly-ash						
CEDAR THICKETS	FL: MAR-APR, FR: JUL-AUG	WR, CB, BR, MF	S		S2	G5
<u>Zigadenus glaucus</u> White Camas						
WET SHALEY CLIFFS	FL: JUL-AUG, FR: AUG-SEP	BR	E		S1	G5T4T5
<u>Acrobolbus ciliatus</u> A Liverwort						
SPRUCE-FIR FORESTS AND MOIST RAVINES ON ROCK	BR	S		S1	G3?	
<u>Anastrophyllum saxicola</u> A Liverwort						
HIGH ELEV. ROCKY PEAT; HEATH & WET ROCKS	BR	S		S1	G3G4	
<u>Archidium alternifolium</u> A Moss						
LIMESTONE BARRENS	RV	T		S1	G4G5	
<u>Bazzania nudicaulis</u> A Liverwort						
BARK OF MATURE FRASER FIR	BR	T		S2	G2G3	
<u>Brachydontium trichodes</u> Peak Moss						
HIGH ELEV. SEEPS AND ROCKY AREAS	BR	E		S1	G2G4	
<u>Bryoxiphium norvegicum</u> Sword Moss						
SANDSTONE ROCKHOUSES AND SHADED OUTCROPPINGS	CM, CU	T		S1	G5?	

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Cephaloziella massalongi</u>		A Liverwort				
MONTANE ROCK CREVICES HIGH IN COPPER OR SULPHUR	BR	E		S1	G3G5	
<u>Cephaloziella spinicaulis</u>		A Liverwort				
CREVICES OF ROCK OUTCROPS	BR	S		S1	G3G4	
<u>Cololejeunea ornata</u>		Ornate Cololejeunea				
SINKS & HIGH HUMIDITY AREAS ON LIMESTONE	CB, CU	T		S1	G2G4	
<u>Diplophyllum andrewsii</u>		A Liverwort				
PEATY SOIL	BR	S		S1	G3	
<u>Diplophyllum obtusatum</u>						
DAMP, SHADED ROCK OUTCROPS		S		S1	G2?	
<u>Drepanolejeunea appalachiana</u>		A Liverwort				
TREE BARK, 2000-4500 FT.	CM, BR	S		S1	G2?	
<u>Entodon concinnus</u>		Lime Entodon				
MOIST CALCAREOUS ROCKS	BR	S		S1	G4G5	
<u>Fissidens appalachensis</u>		Appalachian Fissidens Moss				
ROCKS IN FAST STREAMS	BR	T		S1	G2G3	
<u>Frullania appalachiana</u>		A Liverwort				
MOUNTAIN FORESTS	BR	S		S1?	G2?	
<u>Frullania caulisequa</u>		Swamp Frullania				
SWAMPS, ON TREE BARK	ER	S		S1	G5	
<u>Frullania plana</u>		A Liverwort				
SHADED ROCKS IN MOIST MOUNTAIN COVES	BR	S		S2	G4	

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Funaria americana</u>						
LIMESTONE BLUFFS AND BARRENS	RV	A Moss T		S1?	G3?	
<u>Grimmia olneyi</u>						
HIGH ELEV. DRY ROCKS AND CLIFFS	RV, BR	Grimmia Moss S		SH	G3G5	
<u>Gymnomitrium laceratum</u>						
PEATY SOIL OF SPRUCE-FIR FORESTS	BR	A Liverwort T		S1	G3G5	
<u>Homaliadelphus sharpii</u>						
CALCAREOUS OR DOLOMITE BLUFFS	RV	Sharp's Homaliadelphus E		S1	G3?	
<u>Jungermannia fossombronioides</u>						
LOW ELEVATION ROCKY STREAMS	CM, BR	A Liverwort S		S1	G4	
<u>Lejeunea blomquistii</u>						
MID ELEV. GORGES ON ROCK OR BARK	CM, CU, BR	Blomquist Leafy Liverwort S		S1S2	G1G2	
<u>Lejeunea sharpii</u>						
CALCAREOUS BLUFFS, ROCK & LOGS OF WET SINKS	ER, CB, RV, BR, CU	Sharp's Lejeunea E		S1S2	G2G3	
<u>Leptodontium viticulosoides var. sulphureum</u>						
BARK OF OLD GROWTH FRASER FIR	BR	Grandfather Mountain Leptodontium E		S1S2	GNRT2	
<u>Leptohymenium sharpii</u>						
OLD GROWTH FRASER FIR FORESTS, ON ROCKS	BR	Mount Leconte Moss E		S1	G1	
<u>Leptoscyphus cuneifolius</u>						
BARK OF MATURE FRASER FIR	BR	A Liverwort E		S1	G4G5T4T5	
<u>Lophocolea appalachiana</u>						
SPRAY CLIFFS	CU, BR	A Liverwort S		S1	G1G2Q	

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Lophocolea muricata</u>						
ROCKY STREAM MARGINS	BR	A Liverwort T		S1	G5	
<u>Mannia triandra</u>						
SHADED LIMESTONE CLIFFS, LEDGES AND TALUS		A Liverwort T		S1	G3G4	
<u>Marsupella funckii</u>						
THIN SOIL, EDGE OF HIGH ELEV. OUTCROPS	BR	A Liverwort E		S1	G4G5	
<u>Megaceros aenigmaticus</u>						
MID-ELEV. STREAMS ON WET SHADED ROCKS	BR	Megaceros S		S2S3	G3	
<u>Metzgeria uncigera</u>						
BARK OF AMERICAN HOLLY	CM, CU	Metzgeria S		S1	G3	
<u>Microlejeunea globosa</u>						
CREEKSIDE EDGE OF ROCKHOUSE	CU	Cardot's Lejeunea S		S1	G3?	
<u>Mielichhoferia elongata</u>						
WOODS ABOVE 5000'	BR	A Moss S		S1	GNR	
<u>Mnium carolinianum</u>						
ROCKS & STREAMBANKS IN HUMID GORGES	BR	Carolina Mnium S		S1	G3	
<u>Myurella julacea</u>						
SHALE BLUFFS	RV	A Moss S-P		SH	G5	
<u>Oncophorus rauii</u>						
WET ACID ROCK		A Moss T		S2	G3	
<u>Orthodontium pellucens</u>						
SOIL PEAT OR ROCK OF HEATH BALDS	BR	Translucent Orthodontium S		SH	G5	

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Palamocladium leskeoides</u>		A Moss				
SEEPY LIMESTONE CLIFFS AND BLUFFS	ER, RV, SV, CU	T		S1	G3G5	
<u>Pedinophyllum interruptum</u>		A Liverwort				
NEAR CAVE OPENING		S		S1	G3G4	
<u>Pellia appalachiana</u>		A Liverwort				
WET SOIL, BARRENS	ER, CU, BR	S		S2	G4	
<u>Plagiochila austinii</u>						
DAMP, SHADED ROCK WALLS	BR	S		S3	G3	
<u>Plagiochila caduciloba</u>		Gorge Leafy Liverwort				
DAMP VERTICAL ROCK		S		S2	G3	
<u>Plagiochila echinata</u>		A Liverwort				
WET ROCKS		S		S2	G2	
<u>Plagiochila exigua</u>		A Liverwort				
BARK OF MATURE FRASER FIR AND MOUNTAIN ASH	BR	S		S1S2	G4?	
<u>Plagiochila punctata</u>		Spotty featherwort				
SANDSTONE BLUFFS AND CLIFFS	CU	S		S1	G5	
<u>Plagiochila retrorsa</u>		A Liverwort				
SHADED MOIST LEDGES AND BLUFFS	BR	S		S1	G2G4	
<u>Plagiochila sullivantii</u>		Sullivant's Leafy Liverwort				
MOIST SHADED ROCK		S		S2	G2	
<u>Porella gracillima</u>		Hot Porella				
WET CALCAREOUS ROCK	BR	E		S1	GNRT1	

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Porella wataugensis</u>		Watauga Porella				
MOIST BOULDERS & CLIFFS, PHYLLITE	BR	T		S1S2	G1G2Q	
<u>Preissia quadrata</u>		A Liverwort				
SEEPY LIMESTONE CLIFFS AND BLUFFS	RV	T		S1	G5	
<u>Radula sullivantii</u>		A Liverwort				
SHADED ROCKS NEAR WATER		S		SNA	G3	
<u>Radula tenax</u>		A Liverwort				
MOIST ROCKS OR TREES	BR	S		S3	G3G4	
<u>Radula voluta</u>		A Liverwort				
SHADY MOIST BOULDERS BY WATERFALLS OR SREAMS	ER, RV, CU, BR	S		S2	G3	
<u>Rhachithecium perpusillum</u>		Budding Tortula				
BARK OF HARDWOODS	RV	S		SH	G4G5	
<u>Riccardia jugata</u>						
WET, SHADED DECAYING WOOD	BR	S		S2	G2	
<u>Scopelophila cataractae</u>		Agoyan Cataract Moss				
ROCK HOUSES, COPPER-RICH SOILS	CU	S		S1	G3	
<u>Solenostoma appalachianum</u>		A Liverwort				
MONTANE ROCKY STREAMS		S		S1	GNR	
<u>Sphenolobopsis pearsoni</u>		Sphenolobopsis				
MAINLY BARK OF MATURE FRASER FIR	BR	E		S1	G2?	
<u>Tetrodontium brownianum</u>		Little Georgia				
MONTANE ROCKY SEEPS AND FALLS	BR, CU	S		S1	GNRT3T4	

HABITAT	PHENOLOGY	PHYSIOGRAPHIC PROVINCES	STATE STATUS	FEDERAL STATUS	SRANK	GRANK
<u>Tortula ammonsiana</u>						
SE TO WEST FACING SEEPY, SILICEOUS ROCK	BR	Ammons's Tortula E		S1	G1G3	
<u>Tortula fragilis</u>						
STEEP CALCAREOUS BLUFFS	CB	Fragile Tortula E		S1	G5	
<u>Gymnoderma lineare</u>						
MID TO HIGH ELEV. CLIFFS & ROCKY STREAMS	BR	Rock Gnome Lichen E	LE	S1	G3	
<u>Hydrothyria venosa</u>						
MOUNTAIN BROOKS	BR	Hydrothyria Lichen T		S1	G4	