NATURAL HERITAGE RESOURCES OF VIRGINIA: RARE PLANTS

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VIRGINIA DEPARTMENT OF CONSERVATION AND RECREATION
DIVISION OF NATURAL HERITAGE
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Cover illustrations (l. to r.) of Swamp Pink (*Helonias bullata*), dwarf burhead (*Echinodorus tenellus*), and small whorled pogonia (*Isotria medeoloides*) by Megan Rollins

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INTRODUCTION

The Virginia Department of Conservation and Recreation's Division of Natural Heritage (DCR-DNH) was established to protect Virginia's Natural Heritage Resources. These Resources are defined in the Virginia Natural Area Preserves Act of 1989 (Section 10.1-209 through 217, *Code of Virginia*), as the habitat of rare, threatened, and endangered plant and animal species; exemplary natural communities, habitats, and ecosystems; and other natural features of the Commonwealth. DCR-DNH is the state's only comprehensive program for conservation of our natural heritage and includes an intensive statewide biological inventory, field surveys, electronic and manual database management, environmental review capabilities, and natural area protection and stewardship. Through such a comprehensive operation, the Division identifies Natural Heritage Resources which are in need of conservation attention while creating an efficient means of evaluating the impacts of economic growth.

To achieve this protection, DCR-DNH maintains lists of the most significant elements of our natural diversity. These lists focus the Division's inventory on the Natural Heritage Resources most likely to be lost without conservation action in the near future. Most importantly, these lists are not only useful for DCR-DNH, but can be used by other agencies, organizations, and individuals to guide protection and development decision-making. In formulating these lists, the Division uses information from previous studies, museum records, the observations and opinions of experts, DCR-DNH staff scientists, and field inventories.

The first list included in this report is the Rare Vascular Plant List. This list contains information on the legal and biological status of Virginia's rarest known native vascular plant taxa, **618** in all. This list includes all plants believed to be sufficiently rare or threatened to merit an inventory of their status and locations.

The second list included in this report is the Vascular Plant Watchlist. This list contains information on the legal and biological status of **229** additional taxa that are decidedly uncommon in Virginia but not scarce enough to merit inclusion on the Rare Vascular Plant List. Plants on this list are monitored to determine general population trends. If a species or variety on this list is found to be rare or threatened, it is placed on the Rare Vascular Plant List.

The third list included in this report is the Review List (Taxa of Uncertain Status). These taxa lack numerical ranks, indicating that they are poorly known from a taxonomic and distributional standpoint. Although some of these taxa may prove to be conservation targets, more field and herbarium data are needed to assess their distinctiveness and degree of rarity in Virginia. There are **75** taxa in this category.

The fourth list included in this report is the Rare Non-Vascular Plant List. This list contains information on the legal and biological status of **88** taxa thought to be rare in the state of Virginia. The lichens, liverworts, and mosses listed herein represent an attempt at designating imperiled species within this often-neglected group. The list is currently small compared to the vascular plant lists because the taxonomy and distributions of non-vascular plants are generally poorly known in Virginia at this time (with some exceptions).

Natural Heritage Resource lists are necessarily dynamic and are revised annually, with updates occurring as data become available. Such revisions assure the most current knowledge of the status of Virginia's plants. Taxa are added to the list when it is determined that they have become rare or threatened to such an extent that their continued existence in Virginia is in jeopardy. Plants are deleted from the list when data indicate they are common and do not warrant priority conservation efforts.

If you have information which could refine this list, please contact DCR-DNH staff botanist John Townsend at (804) 225-4855 (email: john.townsend@dcr.virginia.gov) or by mailing the Rare Species Sighting Form found at the end of this document.

All plants which are officially protected by federal or state endangered species acts are included in these lists. The Office of Plant Protection within the Virginia Department of Agriculture and Consumer Services (VDACS) has regulatory responsibility for the listing and protection of Virginia's endangered and threatened plants and insects under the Virginia Endangered Plant and Insect Species Act, as amended (Section 3.1 -1020 through 1030, *Code of Virginia*). The Act provides for the official listing and recovery of endangered and threatened plant and insect species in Virginia. The Act also establishes a permit system for collection of listed species. As of 2013, there were 26 state-listed plant species. A memorandum of agreement between DCR-DNH and VDACS facilitates data transfer between agencies and allows for DCR-DNH to nominate species for listing by VDACS.

Federally listed species are protected by the Endangered Species Act of 1973, as amended. The U.S. Department of the Interior's Fish and Wildlife Service administers the Act, listing and protecting federally endangered and threatened species. As of 2015, there were 16 plant species federally listed as endangered or threatened which occur or formerly occurred in Virginia.

The Virginia Department of Conservation and Recreation, Virginia Department of Agriculture and Consumer Services, and U. S. Fish and Wildlife Service work cooperatively to insure the continued survival of Virginia's diverse flora and other elements of natural diversity. The Division of Natural Heritage also works closely with other state and federal agencies, local governments, conservation organizations, and other organizations and individuals to seek adequate protection of Virginia's natural heritage.

FORMAT OF LISTS

Lists for each category (vascular plant lists, liverwort list, etc.) are alphabetized by scientific name. Each list has an identical format which presents six fields: scientific name, common name, global rank, state rank, federal status, and state status. To help interpret the list, a brief explanation of each field may be found on the following page.

Column 1. Scientific name:
Nomenclature for vascular plants almost exclusively follows Weakley, A.S., J.C. Ludwig, and J.F. Townsend, 2012. *Flora of Virginia*. Bland Crowder, ed. Foundation of the Flora of Virginia Project, Inc., Richmond. Fort Worth: Botanical Research Institute of Texas Press. A line is provided below the scientific name to provide synonyms when other names are used in popular botanical references.

Nomenclature for lichens follows Esslinger, T.L. 2014. A cumulative checklist for the lichen-forming, lichenicolous and allied fungi of the continental United States and Canada. North Dakota State University: http://www.ndsu.edu/pubweb/~esslinge/chcklst/chcklst7.htm (First Posted 1 December 1997, Most Recent Version (#19) 23 March 2014), Fargo, North Dakota.

Nomenclature for liverworts follows the Field Museum taxonomy module, located at:
http://emuweb.fieldmuseum.org/botany/taxonomic.php?_ga=1.125124173.613149090.1423754725

Nomenclature for mosses follows volumes 27 and 28 of Flora of North America, North of Mexico (Bryophytes, Part 1 and Part 2).

Column 2. Common name:
A common name is provided for the convenience of the user. Common names for plants follow the *Flora of Virginia*.

Column 3. Global rank:
Global ranks are assigned by a consensus of the network of natural heritage programs, scientific experts, and The Nature Conservancy to designate a rarity rank based on the range-wide status of a species or variety. This system was developed by The Nature Conservancy and is widely used by other agencies and organizations as the best available scientific and objective assessment of a taxon's rarity and level of threat to its existence. The ranks are assigned after considering a suite of factors, including number of occurrences, number of individuals, and severity of threats.

G1 = **Critically Imperiled** - At very high risk of extinction due to extreme rarity (often 5 or fewer populations), very steep declines, or other factors.

G2 = **Imperiled** - At high risk of extinction due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors.

G3 = **Vulnerable** - At moderate risk of extinction due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors.

G4 = **Apparently Secure** - Uncommon but not rare; some cause for long-term concern due to declines or other factors.

G5 = **Secure** – Common, widespread and abundant.

GH = **Possibly Extinct** - Missing; known from only historical occurrences but still some hope of rediscovery.

GX = **Presumed Extinct** - Not located despite intensive searches and virtually no likelihood of rediscovery.

GU = **Unrankable** - Currently unrankable due to lack of information or due to substantially conflicting information about status or trends. Whenever possible, the most likely rank is assigned and the question mark qualifier is added (e.g., G2?) to express uncertainty, or a range rank (e.g., G2G3) is used to delineate the range of uncertainty.

G_? = **Inexact Numeric Rank** - Denotes inexact numeric rank (e.g., G3?).

G_Q = **Questionable taxonomy** - Taxonomic distinctiveness of this entity at the current level is questionable; resolution of this uncertainty may result in change from a species to a subspecies or hybrid, or the inclusion of this taxon in another taxon, with the resulting taxon having a lower conservation priority (e.g., G3Q).

G_T_ = **Infraspecific Taxa** - Signifies the rank of a subspecies or variety. For example, the rank G5T1 would be assigned to a very rare and localized variety of an otherwise widespread and common taxon.

GNR = **Unranked** – Global rank not yet assessed.

GNA = **Not applicable** – A conservation status rank is not applicable because the species is not a suitable target for conservation activities.

Column 4. State rank:
State ranks are assigned in a manner similar to that described for global ranks, but consider only those factors within the political boundaries of Virginia. For example, whereas a plant which is endemic to Virginia (found nowhere else) will have the same global and state ranks, a plant which may be common in the northeastern United States, but only known from a few occurrences in Virginia will have different global and state ranks. By comparing the global and state ranks, the status, rarity, and the urgency of conservation needs can be ascertained.

S1 = Critically Imperiled - At very high risk of extirpation from the state due to extreme rarity (often 5 or fewer populations), very steep declines, or other factors.

S2 = Imperiled - At high risk of extirpation from the state due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors.

S3 = **Vulnerable** - At moderate risk of extirpation from the state due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors.

S4 = Apparently Secure - Uncommon but not rare; some cause for long-term concern due to declines or other factors.

S5 = Secure – Common, widespread and abundant.

SH = Possibly Extirpated - Known only from historical occurrences but still some hope of rediscovery.

SX = **Presumed Extirpated** - Not located despite intensive searches and virtually no likelihood of rediscovery.

SU = **Unrankable** - Currently unrankable due to lack of information or due to substantially conflicting information about status or trends.

S_? = **Inexact Numeric Rank** - Denotes inexact numeric rank (e.g., S3?).

SNR = **Unranked** – State conservation status not yet assessed.

SNA = **Not Applicable** - A conservation status rank is not applicable because the species is not a suitable target for conservation activities.

Column 5. Federal Status:
Federal Status is determined by the U. S. Fish and Wildlife Service. This includes all species and varieties which are listed as endangered or threatened by the U. S. government and receive protection under the federal Endangered Species Act. The list also notes those taxa which are proposed for listing or are candidates for listing.

LE = **Listed Endangered** - A taxon is threatened with extinction throughout all or a significant portion of its range.

LT = **Listed Threatened** - A taxon is likely to become endangered in the foreseeable future.

PE = **Proposed Endangered** - A taxon is proposed for listing as endangered.

PT = **Proposed Threatened** - A taxon is proposed for listing as threatened.

C = **Candidate** - There is enough available information to propose the taxon for listing, but listing is "precluded by other pending proposals of higher priority". The U.S. Fish and Wildlife Service is "directed to make prompt use of the emergency listing if the well-being of any such species is at significant risk."

_* = An * following the status denotes that the species or variety is possibly extinct.

Column 6. State Status:
State status indicates those plants which are listed as state endangered or threatened under the authority of the Virginia Department of Agriculture and Consumer Services.

LE = **Listed Endangered**

LT = **Listed Threatened**

PE = **Proposed Endangered**

PT = **Proposed Threatened**

C = **Candidate for listing as threatened or endangered**

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GENERA INDEX

If you can't find:	**Look under:**
Agave	*Manfreda*
Agropyron	*Elymus*
Allium	*Nothoscordum*
Arabis	*Boechera*
Arabis	*Turritis*
Arenaria	*Honckenya*
Arenaria	*Minuartia*
Arenaria	*Moehringia*
Armoracea	*Neobeckia*
Asarum	*Hexastylis*
Aster	*Eurybia*
Aster	*Symphyotrichum*
Botrychium	*Sceptridium*
Bumelia	*Sideroxylon*
Cacalia	*Arnoglossum*
Cacalia	*Hasteola*
Cacalia	*Neobeckia*
Calamintha	*Clinopodium*
Carduus	*Cirsium*
Cassia	*Chamaecrista*
Centunculus	*Anagallis*
Callisia	*Cuthbertia*
Cleistes	*Cleistesopsis*
Convolvulus	*Calystegia*
Croton	*Crotonopsis*
Cynoctonum	*Mitreola*
Dentaria	*Cardamine*
Dichromena	*Rhynchospora*
Diplachne	*Leptochloa*
Disporum	*Prosartes*
Dracocephalum	*Physostegia*
Erianthus	*Saccharum*
Eupatorium	*Eutrochium*
Euphorbia	*Chamaesyse*
Fleischmannia	*Eupatorium*
Gentiana	*Gentianopsis*
Gerardia	*Agalinis*
Gerardia	*Aureolaria*
Gillenia	*Porteranthus*
Gnaphalium	*Pseudognaphalium*
Habenaria	*Platanthera*
Haplopappus	*Croptilon*
Hedyotis	*Houstonia*
Hedyotis	*Oldenlandia*
Helianthemum	*Crocanthemum*
Heterotheca	*Chrysopsis*
Hierochloe	*Anthoxanthum*
Houstonia	*Hedyotis*
Hypericum	*Triadenum*
Isopyrum	*Enemion*
Jussiaea	*Ludwigia*
Leptoloma	*Digitaria*
Lipocarpha	*Hemicarpha*
Lippia	*Phyla*
Lophotocarpus	*Sagittaria*
Lotus	*Acmispon*
Lycopodiella	*Peudolycopodiella*
Lycopodium	*Lycopodiella*
Lycopodium	*Peudolycopodiella*
Lycopodium	*Huperzia*
Manisuris	*Coelorachis*
Osmunda	*Osmundastrum*
Panicum	*Coleataenia*
Panicum	*Dichanthelium*
Panicum	*Phanopyrum*
Panicum	*Steinchisma*
Peplis	*Didiplas*
Potentilla	*Drymocallis*
Potentilla	*Sibbaldia*
Prenanthes	*Nabalus*
Psilocarya	*Rhynchospora*
Psoralea	*Onobrychis*
Psoralea	*Orbexilum*
Psoralea	*Pediomelum*
Ptilimnium	*Harperella*
Pyrola	*Orthilia*
Satureja	*Clinopodium*
Saxifraga	*Micranthes*
Schrankia	*Mimosa*
Schoenoplectus	*Bolboscoenus*
Scirpus	*Isolepis*
Scirpus	*Schoenoplectus*
Senecio	*Packera*
Seymeria	*Dasistoma*
Smilacina	*Maianthemum*
Solidago	*Euthamia*
Solidago	*Oligoneuron*
Sphaeralcea	*Malvastrum*
Thelypteris	*Parathelypteris*
Tomanthera	*Agalinis*
Tradescantia	*Cuthbertia*
Triodia	*Tridens*
Tofieldia	*Triantha*
Trichomanes	*Crepidomanes*
Trichomanes	*Vandenboschia*
Uniola	*Chasmanthium*
Verbena	*Stylodon*
Xanthoxylum	*Zanthoxylum*
Zigadenus	*Stenanthium*

PART ONE:

RARE VASCULAR PLANT LIST

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
***Abies balsamea* (L.) P. Mill**	**Balsam fir**	**G5**	**S1**		
***Abies fraseri* (Pursh) Poir.**	**Fraser fir**	**G2**	**S1**		
***Acmispon helleri* (Britt.) A.A. Heller**	**Carolina Prairie-trefoil**	**G3**	**S1**		
syn: *Lotus helleri* Britton					
***Actaea rubifolia* (Kearney) Kartesz**	**Appalachian Black Cohosh**	**G3**	**S1**		
syn: *Cimicifuga rubifolia* Kearney					
***Adiantum capillus-veneris* L.**	**Venus'-hair Fern**	**G5**	**SH**		
***Aeschynomene virginica* (L.) B.S.P.**	**Sensitive Joint-vetch**	**G2**	**S2**	**LT**	**LT**
***Agalinis auriculata* (Michx.) Blake**	**Earleaf False Foxglove**	**G3**	**S1**		
syn: *Gerardia fasciculata* Michx..					
syn: *Tomanthera auriculata* (Michx.) Raf.					
***Aletris aurea* Walt.**	**Golden Colicroot**	**G5**	**S1**		
***Allium allegheniense* Small**	**Allegheny Onion**	**G3?**	**S1**		
Under *A. cernuum* Roth in Fernald (1950) and Radford *et al.* (1968)					
***Allium oxyphilum* Wherry**	**Shale Barren Nodding Onion**	**G2**	**S1**		
***Alnus incana* (L.) Moench ssp. *rugosa* (Du Roi) Clausen**	**Speckled Alder**	**G5T5**	**S2**		
syn: *A. rugosa* (Du Roi) Spreng.					
***Amaranthus pumilus* Raf.**	**Sea-beach Amaranth**	**G2**	**S1**	**LT**	**LT**
***Amelanchier nantucketensis* Bickn.**	**Nantucket Shadbush**	**G3Q**	**S1**		
***Amphicarpum amphicarpon* (Pursh) Nash**	**Pine-barrens Peanut Grass**	**G4**	**S1**		
***Anagallis minima* (L.) Krause**	**Chaffweed**	**G5**	**SH**		
syn: *Centunculus minimus L.*					
***Anaphalis margaritacea* (L.) Benth. & Hook. f.**	**Pearly Everlasting**	**G5**	**S1**		
***Andropogon mohrii* (Hack.) Hack. ex Vasey**	**Mohr's Bluestem**	**G4?**	**SH**		
***Anemone berlandieri* Pritz.**	**Eastern Prairie Anemone**	**G4?**	**S1**		
***Anemone canadensis* L.**	**Canada Anemone**	**G5**	**SH**		
***Anthoxanthum hirtum* (Shrank) Y. Schouten & Veldkamp**	**Holy Grass**	**G5**	**S1**		
syn: *Hierochloe odorata* (L.) Beauv. ssp. *odorata*					
***Arabis pycnocarpa* M. Hopkins var. *adpressipilis* M. Hopkins**	**Hairy Rock Cress**	**G5T4Q**	**S1S2**		
syn: *Arabis hirsuta* (L.) Scop. var. *adpressipilis* (M. Hopkins) Rollins					
***Arabis patens* Sullivant**	**Spreading Rock Cress**	**G3**	**S1**		
***Aralia hispida* Vent.**	**Bristly Sarsaparilla**	**G5**	**S2**		

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
***Arctostaphylos uva-ursi* (L.) Spreng.**	**Bearberry**	**G5**	**S1**		
Arenaria lanuginosa* (Michx.) Rohrb. var. *lanuginosa	**Spreading Sandwort**	**G5T5**	**SH**		
All Virginia *A. lanuginosa* is var. *lanuginosa*					
***Arethusa bulbosa* L.**	**Dragon's-mouth**	**G5**	**SH**		
***Arnoglossum reniforme* (Hooker) H.E. Robins.**	**Great Indian-plantain**	**G4**	**S2**		
syn: *Arnoglossum muhlenbergii* (Schultz-Bip.) H.E. Robinson					
***Asclepias longifolia* Michx.**	**Long-leaf Milkweed**	**G4G5**	**S1**		
***Asclepias purpurascens* L.**	**Purple Milkweed**	**G5?**	**S2**		
***Asclepias rubra* L.**	**Red Milkweed**	**G4G5**	**S2**		
***Asclepias tuberosa* L. var. *rolfsii* (Britt. ex Vail) Woods.**	**Sandhills Butterfly-weed**	**G5?TNR**	**S1**		
***Asplenium bradleyi* D.C. Eaton**	**Bradley's Spleenwort**	**G4**	**S2**		
Astragalus distortus* Torr. & Gray var. *distortus	**Ozark Milkvetch**	**G5T5?**	**SH**		
All Virginia *A. distortus* is var. *distortus*					
***Astragalus neglectus* (Torr. & Gray) Sheldon**	**Cooper's Milkvetch**	**G4**	**S2**		
***Atriplex glabriuscula* Edmondston**	**Maritime Orach**	**G4**	**SH**		
***Bacopa caroliniana* (Walt.) B.L. Robins.**	**Blue Water-hyssop**	**G4G5**	**SH**		
***Bacopa innominata* (G.Maza) Alain**	**Tropical Water-hyssop**	**G3G5**	**S2**		
Virginia material formerly named *B. stragula* Fern.					
***Bacopa rotundifolia* (Michx.) Wettst.**	**Round-leaf Water-hyssop**	**G5**	**SH**		
Virginia material formerly named *B. simulans* Fern.					
***Baptisia albescens* Small**	**Narrow-pod White Wild Indigo**	**G4**	**S1**		
Given as *B. alba* (L.) R. Brown in Fernald (1950)					
***Baptisia cinerea* (Raf.) Fern. & Schub.**	**Gray-hairy Wild Indigo**	**G3G4**	**SH**		
***Bartonia verna* (Michx.) Raf. ex Bart.**	**Spring Bartonia**	**G5?**	**S1**		
***Betula cordifolia* Regel**	**Paper Birch**	**G5**	**S2**		
syn: *B. papyrifera* Marsh. var. *cordifolia* (Regel) Fern.					
Virginia material is presently treated as Betula cordifolia but most populations are not clearly assigned to either B. cordifolia or B. papyrifera. They are under study.					
***Betula lenta* L. var. *uber* Ashe**	**Virginia Roundleaf Birch**	**G1Q**	**S1**	**LT**	**LE**
***Betula populifolia* Marsh.**	**Gray Birch**	**G5**	**S1**		
***Boechera dentata* (Raf.) Al-Shehbaz & Zarruchi**	**Short's Rock Cress**	**G5**	**S1S2**		
syn: *Arabis shortii* (Fern.) Gleason					

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
***Boechera serotina* (Steele) Windham & Al-Shehbaz**	**Shale Barren Rock Cress**	**G2**	**S2**	**LE**	**LT**
syn: *Arabis serotina* Steele					
***Bolboschoenus fluviatilis* (Torr.) J. Sojak**	**River Bulrush**	**G5**	**S2**		
syn: *Schoenoplectus fluviatilis* (Torr.) M.T. Strong					
***Boltonia asteroides* (L.) L'Her var. *glastifolia* (Hill) Fern.**	**Eastern Doll's-daisy**	**G5T4T5**	**S2**		
***Boltonia montana* J.F. Townsend & V. Karaman-Castro**	**Valley Doll's-daisy**	**G1G2**	**S1**		**LE**
***Botrychium lanceolatum* (Gmel.) Angstr. var. *angustisegmentum* Pease & Moore**	**Triangle Grape Fern**	**G5T4**	**SH**		
All Virginia *B. lanceolatum* is var. *angustisegmentum*					
Botrychium simplex* E. Hitchc. var. *simplex	**Dwarf Grape Fern**	**G5T5**	**S1**		
***Bromus ciliatus* L.**	**Fringed Brome Grass**	**G5**	**S1**		
***Bromus kalmii* Gray**	**Arctic Brome**	**G5**	**S1**		
***Buchnera americana* L.**	**American Bluehearts**	**G5?**	**S1S2**		
***Buckleya distichophylla* (Nutt.) Torr.**	**Piratebush**	**G3**	**S2**		
***Burmannia biflora* L.**	**Violet Burmannia**	**G4G5**	**SH**		
***Cabomba caroliniana* Gray**	**Carolina Fanwort**	**G3G5**	**S1S2**		
***Calamovilfa brevipilis* (Torr.) Scribn.**	**Pine Barren Sandreed**	**G4**	**S1**		
var. *calvipes* Fern. not recognized					
***Calopogon pallidus* Chapman**	**Pale Grass-pink**	**G4G5**	**S1**		
***Calopogon tuberosus* (L.) B.S.P.**	**Tuberous Grass-pink**	**G5**	**S1S2**		
***Calycanthus floridus* L.**	**Sweet-shrub**	**G5**	**S1**		
***Camassia scilloides* (Raf.) Cory**	**Wild Hyacinth**	**G4G5**	**S1**		
***Campanula rotundifolia* L.**	**Harebell**	**G5**	**S1**		
***Cardamine clematitis* Shuttlw. ex Gray**	**Mountain Bittercress**	**G3**	**S1**		
***Cardamine dissecta* (Leavenworth) Al-Shehbaz**	**Fork-leaf Toothwort**	**G4?**	**S1**		
syn: *Dentaria multifida* Muhl. *ex.* Ell.					
***Cardamine flagellifera* O.E. Schulz**	**Blue Ridge Bittercress**	**G3**	**SH**		
***Cardamine micranthera* Rollins**	**Small-anthered Bittercress**	**G2**	**S2**	**LE**	**LE**
***Cardamine pratensis* L.**	**Cuckoo-flower**	**G5**	**S1**		
Only native Virginia populations are monitored					
***Carex aestivaliformis* Mackenz.**	**Small-fruited Summer Sedge**	**GNA**	**S1**		
syn: *Carex x aestivaliformis* Mackenz.					
***Carex aquatilis* Wahlenb var. *substricta* Kükenth.**	**Aquatic sedge**	**G5TNR**	**S1**		
***Carex arctata* Boott ex Hook.**	**Black Sedge**	**G5**	**S1**		

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***Carex atherodes* Spreng.**	**Awned Sedge**	**G5**	**S1**		
***Carex barrattii* Schwein. & Torr.**	**Barratt's Sedge**	**G4**	**S2**		
***Carex bebbii* Olney ex Fern.**	**Bebb's Sedge**	**G5**	**S1**		
***Carex buxbaumii* Wahlenb.**	**Brown Bog Sedge**	**G5**	**S2**		
***Carex conoidea* Schkuhr ex Willd.**	**Field Sedge**	**G5**	**S1S2**		
***Carex crawei* Dewey**	**Crawe's Sedge**	**G5**	**S2**		
***Carex cristatella* Britt.**	**Crested Sedge**	**G5**	**S1**		
***Carex crus-corvi* Shuttlw. ex Kunze**	**Crowfoot Sedge**	**G5**	**S2**		
***Carex davisii* Schwein. & Torr.**	**Davis's Sedge**	**G4**	**S1**		
***Carex decomposita* Muhl.**	**Cypress-knee Sedge**	**G3G4**	**S1**		
***Carex flava* L.**	**Yellow Sedge**	**G5**	**S1**		
***Carex interior* Bailey**	**Inland Sedge**	**G5**	**S1S2**		
***Carex juniperorum* Catling, Reznicek, & Crins**	**Juniper Sedge**	**G3**	**S1**		**LE**
***Carex lacustris* Willd.**	**Lake-shore Sedge**	**G5**	**S1**		
***Carex lasiocarpa* Ehrh var. *americana* Fern.** Does not include *C. lanuginosa* Michx.	**Slender Sedge**	**G5T5**	**S1**		
***Carex lupuliformis* Sartwell ex Dewey**	**False Hop sedge**	**G4**	**S1S2**		
***Carex manhartii* Bryson**	**Blue Ridge Purple Sedge**	**G3G4**	**S1**		
***Carex ormostachya* Wieg.**	**Necklace Spike Sedge**	**G4**	**S1**		
***Carex pallescens* L.**	**Pale Sedge**	**G5**	**S1**		
***Carex polymorpha* Muhl.**	**Variable Sedge**	**G3**	**S2**		
***Carex prairea* Dewey ex Wood**	**Prairie Sedge**	**G5**	**S1**		
***Carex reniformis* (Bailey) Small**	**Kidney Sedge**	**G4?**	**S1**		
***Carex roanensis* F.J. Herm**	**Roan Mountain Sedge**	**G2G3**	**S2**		
***Carex schweinitzii* Dewey ex Schwein.**	**Schweinitz's Sedge**	**G3G4**	**S1**		
***Carex silicea* Olney**	**Sea-beach Sedge**	**G5**	**S1**		
***Carex* sp. 2 *sp. nov*.** Mountain species in Section *Acrocystis* (*Montanae*)	**A sedge**	**GNR**	**S1**		
***Carex sterilis* Willd.**	**Sterile Sedge**	**G4**	**S1**		
***Carex straminea* Willd. ex Schkuhr** Does not include *C. hormathodes* Fern.	**Straw Sedge**	**G5**	**S1**		
***Carex utriculata* Boott** Given as *C. rostrata* Stokes in Fernald (1950)	**Beaked Sedge**	**G5**	**S1**		
***Carex vesicaria* L.**	**Inflated Sedge**	**G5**	**S1S2**		
***Carex vestita* Willd.**	**Velvet Sedge**	**G5**	**S2**		
***Carphephorus bellidifolius* (Michx.) Torr. & Gray**	**Sandy-woods Chaffhead**	**G4**	**S1S2**		
***Carphephorus tomentosus* (Michx.) Torr. & Gray**	**Woolly Chaffhead**	**G4**	**S1**		
***Carya carolinae-septentrionalis* (Ashe) Engl. & Graebn.**	**Carolina Shagbark Hickory**	**G5?**	**S1**		
Cerastium velutinum* Raf. var. *velutinum syn: *Cerastium arvense* L. ssp. *velutinum* (Raf.) Ugborogho.	**Field Chickweed**	**G5T4?**	**S1**		
***Cheilanthes alabamensis* (Buckl.) Kunze**	**Alabama Lip Fern**	**G4G5**	**S1**		

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***Cheilanthes castanea* Maxon**	**Chestnut Lip Fern**	**G5?**	**S2**		
***Cheilanthes feei* T. Moore**	**Slender Lip Fern**	**G5**	**S1**		
***Chelone cuthbertii* Small**	**Cuthbert's Turtlehead**	**G3**	**S2**		
***Chelone obliqua* L.**	**Red Turtlehead**	**G4**	**S1**		
***Chenopodium foggii* H.A. Wahl**	**Fogg's Goosefoot**	**G2G3**	**S1?**		
***Chrysopsis gossypina* (Michx.) Ell.** syn: *Heterotheca gossypina* (Michx.) Shinners	**Cottony Golden-aster**	**G5**	**S1**		
***Cicuta bulbifera* L.**	**Bulb-bearing Water-hemlock**	**G5**	**SH**		
***Cirsium altissimum* (L.) Hill** syn: *Carduus altissimus* L.	**Tall Thistle**	**G5**	**S1**		
***Cirsium carolinianum* (Walt.) Fern. & Schub.** syn: *Carduus carolinianus* Walt.	**Carolina Thistle**	**G5**	**S1**		
***Cirsium nuttallii* DC.** syn: *Carduus nuttallii* (DC.) Pollard	**Nuttall's Thistle**	**G5**	**SH**		
***Cirsium repandum* Michx.** syn: *Carduus repandus* (Michx.) Pers.	**Sandhill Thistle**	**G5**	**SH**		
***Cirsium virginianum* (L.) Michx.** syn: *Carduus virginianus* L.	**Virginia Thistle**	**G3**	**S2**		
***Cladium jamaicense* Crantz** syn: *C. mariscus* (L.) Pohl ssp. *jamaicense* (Crantz) Kukenth	**Sawgrass**	**G5T5**	**S1S2**		
***Cleistesopsis bifaria* (Fern.) Pansarin & F. Barros**	**Small Spreading Pogonia**	**G4?**	**S2**		
***Cleistesopsis divaricata* (L.) Pansarin & F. Barros**	**Large Spreading Pogonia**	**G4**	**S1**		
***Clematis addisonii* Britt.**	**Addison's Leatherflower**	**G1?**	**S2**		
***Clematis catesbyana* Pursh** Under *C. virginiana* L. in Radford et al. (1968)	**Satin-curls**	**G4G5**	**S1**		
Clematis occidentalis* (Hornem.) DC. var. *occidentalis syn: *C. verticillatus* DC. All Virginia *C. occidentalis* is var. *occidentalis*	**Purple Clematis**	**G5T5**	**S1**		
***Clematis viticaulis* Steele**	**Millboro Leatherflower**	**G1**	**S1S2**		**LT**
***Clinopodium arkansanum* (Nutt.) House** often confused with *Calamintha glabella* (Michx.) Benth. syn: *Satureja arkansana* (Nutt.) Briquet	**Limestone Calamint**	**G5**	**SH**		
***Cocculus carolinus* (L.) A. DC.** Only native Virginia populations are monitored	**Carolina Coralbead**	**G5**	**S1**		

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***Coelorachis rugosa* (Nutt.) Nash**	**Wrinkled Jointgrass**	**G5**	**S1**		
syn: *Manisuris rugosa* (Nutt.) Kuntze					
***Collinsia verna* Nutt.**	**Eastern Blue-eyed Mary**	**G5**	**S1**		
***Collinsonia verticillata* Baldw.**	**Whorled Horsebalm**	**G3G4**	**S1**		
***Conioselinum chinense* (L.) B.S.P.**	**Hemlock Parsley**	**G5**	**S1**		
***Corallorhiza bentleyi* Freudenstein**	**Bentley's Coralroot**	**G2**	**S2**		**LE**
***Corallorhiza maculata* (Raf.) Raf. var. *occidentalis* (Lindl.) Cockerell**	**Western Spotted Coralroot**	**G5T3T5**	**S1**		
***Coreopsis delphiniifolia* Lam.**	**Larkspur Coreopsis**	**G3?Q**	**S1**		
***Coreopsis falcata* Boynton**	**Pool Coreopsis**	**G4G5**	**S1**		
***Coreopsis linifolia* Nutt**	**Savanna Coreopsis**	**G4Q**	**S1**		
syn: *C. oniscicarpa Fern.*					
***Cornus canadensis* L.**	**Bunchberry**	**G5**	**S1**		
***Cornus obliqua* (Raf.) J.S. Wilson**	**Silky Dogwood**	**G5**	**S1**		
***Cornus rugosa* Lam.**	**Round-leaf Dogwood**	**G5**	**S1**		
***Crataegus calpodendron* (Ehrh.) Medik.**	**Pear Hawthorn**	**G5**	**S1**		
Crataegus mollis* Scheele var. *mollis	**Downy Hawthorn**	**G5TNR**	**S1**		
***Crataegus succulenta* Schrad. ex Link var. *neofluvialis* (Ashe) Palmer**	**New River Hawthorn**	**G4G5TNR**	**SH**		
Crataegus succulenta* Schrad. ex Link var. *succulenta	**Fleshy Hawthorn**	**G4G5TNR**	**S1**		
***Crocanthemum bicknellii* Fern. (Barnhart)**	**Plains Frostweed**	**G5**	**S1**		
***Crocanthemum propinquum* Bickn. (Bickn.)**	**Low Frostweed**	**G4**	**S1**		
***Crotalaria purshii* DC.**	**Pursh's Rattlebox**	**G5**	**SH**		
***Crotalaria rotundifolia* Walt. ex J.F. Gmel. var. *vulgaris* Windler**	**Low Rattlebox**	**G5**	**SH**		
syn: *C. angulata* P. Mill.					
***Ctenium aromaticum* (Walt.) Wood**	**Toothache Grass**	**G5**	**S1**		
***Cuscuta cephalanthi* Engelm.**	**Buttonbush Dodder**	**G5**	**SH**		
***Cuscuta coryli* Engelm.**	**Hazel Dodder**	**G5?**	**S2**		
***Cuscuta indecora* Choisy**	**Big-seed Alfalfa Dodder**	**G5**	**S1**		
***Cuscuta polygonorum* Engelm.**	**Smartweed Dodder**	**G5**	**S1**		
***Cuscuta rostrata* Shuttlw. ex Engelm. & Gray**	**Beaked Dodder**	**G4**	**S1**		
***Cuthbertia graminea* Small**	**Grasslike Roselings**	**G5**	**S1**		
syn: *Tradescantia rosea* Vent. var. *graminea* (Small) E.S. Anderson & Woods					
syn: *Callisia graminea* (Small) G. Tucker					
***Cyperus acuminatus* Torr. & Hook. ex Torr.**	**Short-point flatsedge**	**G5**	**S1**		
***Cyperus dentatus* Torr.**	**Toothed Flatsedge**	**G4**	**S1**		
***Cyperus diandrus* Torr.**	**Umbrella Flatsedge**	**G5**	**S1**		
***Cyperus granitophilus* McVaugh**	**Granite Flatsedge**	**G3G4Q**	**S1**		
***Cyperus houghtonii* Torr.**	**Houghton's Flatsedge**	**G4?**	**SH**		

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***Cyperus odoratus* L. var. *engelmannii* (Steud.) R. Carter**	**Slender Sand Sedge**	**G4Q**	**S1**		
***Cyperus plukenetii* Fern.**	**Plukenet's Flatsedge**	**G5**	**S2**		
***Cypripedium candidum* Muhl. ex Willd.**	**Small White Lady's-slipper**	**G4**	**S1**		
***Cypripedium kentuckiense* C.F. Reed**	**Kentucky Lady's-slipper**	**G3**	**S1**		
***Cypripedium reginae* Walt.**	**Showy Lady's-slipper**	**G4**	**S1**		
***Cystopteris tennesseensis* Shaver**	**Tennessee Bladder Fern**	**G5**	**S1**		
***Dasistoma macrophyllum* (Nutt.) Raf.** syn: *Seymeria macrophylla* (Nutt.) Raf.	**Mullein Foxglove**	**G4**	**S1**		
***Deschampsia caespitosa* (L.) Beauv.**	**Tufted Hairgrass**	**G5**	**S1**		
***Desmodium canadense* (L.) DC.**	**Showy Tick-trefoil**	**G5**	**S1**		
Desmodium cuspidatum* (Muhl. *ex* Willd.) DC. ex Loud. var. *cuspidatum All Virginia *D. cuspidatum* is var. *cuspidatum*	**Toothed Tick-trefoil**	**G5T5?**	**S2**		
***Desmodium ochroleucum* M.A. Curtis ex Canby**	**Cream-flowered Tick-trefoil**	**G1G2**	**SH**		
***Desmodium sessilifolium* (Torr.) Torr. & Gray**	**Sessile-leaf Tick-trefoil**	**G5**	**S2**		
***Desmodium strictum* (Pursh) DC.**	**Pineland Tick-trefoil**	**G4**	**S2**		
***Desmodium tenuifolium* Torr. & Gray**	**Slim-leaf Tick-trefoil**	**G4**	**S1**		
***Diamorpha smallii* Britt. ex Small** syn: *Sedum smallii* (Britton ex Small) Ahles	**Small's Stonecrop**	**G4**	**S1**		
***Dichanthelium annulum* (Ashe) LeBlond** syn: *Panicum annulum* Ashe	**Ringed Panic Grass**	**G3G4**	**S2**		
***Dichanthelium caerulescens* (Hack. ex Hitchc.) Correll** syn: *Panicum caerulescens* Hack ex A.S. Hitchc. Under *D. dichotomum* (L.) Gould var. *dichotomum* in Kartesz (1999)	**Blue Panic Grass**	**G2G3**	**S1**		
***Dichanthelium consanguineum* (Kunth) Gould & C.A. Clark** syn: *Panicum consanguineum* Kunth	**Blood Panic Grass**	**G5**	**S1S2**		
***Dichanthelium cryptanthum* (Ashe) LeBlond** syn: *Panicum scabriusculum* (Ell.) Gould & Clark var. *cryptanthum* (Ashe) Gleason	**Hidden-flowered Panic Grass**	**G2G3**	**S1**		
***Dichanthelium curtifolium* (Nash) LeBlond** syn: *Dichanthelium ensifolium* (Baldw. ex Ell.) Gould ssp. *curtifolium* (Nash) Freckmann & LeLong	**Short-leaved Witchgrass**	**GNR**	**S1**		

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Dichanthelium ovale* (Ell.) Gould & C. A. Clark var. *ovale	**Oval-flowered Panic Grass**	**G5T5**	**S1?**		
syn: *Panicum ovale* Ell. var. *ovale*					
Dichanthelium strigosum* (Muhl. ex Ell.) Freckmann var. *strigosum	**Rough-hair Panic Grass**	**G5T5**	**SH**		
syn: *Panicum strigosum* Muhl. ex Ell. var. *strigosum*					
***Didiplis diandra* (Nutt. ex DC.) Wood**	**Water-purslane**	**G5**	**S1**		
syn: *Peplis diandra* Nutt. ex DC.					
***Digitaria cognata* (J.A. Schultes) Pilger**	**Fall Witch Grass**	**G5**	**S1**		
syn: *Leptoloma cognata* (J.A. Schultes) Chase					
***Digitaria serotina* (Walt.) Michx.**	**Dwarf Crabgrass**	**G5?**	**S1**		
***Drymocallis arguta* (Pursh) Rydberg**	**Tall Cinquefoil**	**G5**	**S1**		
syn: *Potentilla arguta* Pursh					
Dryopteris clintoniana (D.C. Eaton) Dowell	**Clinton's Wood Fern**	**G5**	**SH**		
***Echinacea laevigata* (C.L. Boynt. & Beadle) Blake**	**Smooth Coneflower**	**G2G3**	**S2**	**LE**	**LT**
***Echinocystis lobata* (Michx.) Torr. & Gray**	**Wild Cucumber**	**G5**	**SH**		
***Echinodorus tenellus* (Mart.) Buch.**	**Dwarf Burhead**	**G5?**	**S1**		
syn: *Echinodorus parvulus* Engelm.					
***Elatine minima* (Nutt.) Fisch. & C.A. Mey.**	**Small Waterwort**	**G5**	**S1**		
***Eleocharis baldwinii* (Torr.) Chapman**	**Baldwin's Spikerush**	**G4G5**	**S1**		
Eleocharis compressa* Sullivant var. *compressa	**Flattened Spikerush**	**G4**	**S2**		
Under *E. elliptica* Kunth in Harvill et al. (1992)					
***Eleocharis elliptica* Kunth**	**Elliptic Spikerush**	**G5**	**S1**		
***Eleocharis equisetoides* (Ell.) Torr.**	**Horsetail Spikerush**	**G4**	**S1**		
***Eleocharis intermedia* J.A. Schultes**	**Matted Spikerush**	**G5**	**S1**		
***Eleocharis melanocarpa* Torr.**	**Black-fruited Spikerush**	**G4**	**S2**		
***Eleocharis radicans* (A. Dietr.) Kunth**	**Rooted Spikerush**	**G5**	**SH**		
***Eleocharis robbinsii* Oakes**	**Robbins' Spikerush**	**G4G5**	**S1**		
***Eleocharis tricostata* Torr.**	**Three-angled Spikerush**	**G4**	**S1**		
***Eleocharis uniglumis* (Link) Schultes**	**One-scale Spikerush**	**G5**	**S1**		
formerly listed as *Eleocharis halophila*					
***Eleocharis vivipara* Link**	**Viviparous Spikerush**	**G5**	**S1**		
***Eleocharis wolfii* (Gray) Gray ex Britt.**	**Wolf's Spikerush**	**G3G5**	**S1**		
Elymus canadensis* L. var. *canadensis	**Nodding Wild Rye**	**G5TNR**	**S1**		
Elymus trachycaulus* (Link) Gould ex Shinners ssp. *trachycaulus	**Slender Wheatgrass**	**G5T5**	**S1**		
syn: *Agropyron trachycaulum* (Link) Malte ex H.F. Lewis					
All Virginia *E. trachycaulus* is ssp. *trachycaulus*					

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***Enemion biternatum* Raf.**	**False Rue-anemone**	**G5**	**S1**		
syn: *Isopyrum biternatum* (Raf.) Torr. & Gray					
Epilobium ciliatum* Raf. ssp. *ciliatum	**American Willow-herb**	**G5T5**	**SH**		
***Epilobium leptophyllum* Raf.**	**Bog Willow-herb**	**G5**	**S2S3**		
***Equisetum fluviatile* L.**	**Water Horsetail**	**G5**	**S1**		
***Equisetum sylvaticum* L.**	**Woodland Horsetail**	**G5**	**S1**		
***Erigeron vernus* (L.) Torr. & Gray**	**White-top Fleabane**	**G5**	**S2**		
***Eriocaulon aquaticum* (Hill) Druce**	**Seven-angled Pipewort**	**G5**	**S1**		
syn: *E. septangulare* Withering					
syn: *E. pellucidum* Michx.					
Eriocaulon decangulare* L. var. *decangulare	**Ten-angled Pipewort**	**G5T5?**	**S2**		
***Eriocaulon parkeri* B.L. Robins.**	**Parker's Pipewort**	**G3**	**S2**		
***Eryngium integrifolium* Walt.**	**Blue-flower Eryngo**	**G5**	**S1**		
Eryngium yuccifolium* Michx. var. *yuccifolium	**Northern Rattlesnake-master**	**G5T5**	**S2**		
All Virginia *E. yuccifolium* is var. *yuccifolium*					
Erysimum capitatum* (Dougl. ex Hook.) Greene var. *capitatum	**Western Wallflower**	**G5T5**	**S2**		
All Virginia *E. capitatum* is var. *capitatum*					
***Erythronium albidum* Nutt.**	**White Trout Lily**	**G5**	**S2**		
***Eupatorium linearifolium* Walter**	**Narrow-leaf Bushy Thoroughwort**	**G5**	**SH**		
***Eupatorium* sp. nov.**	**A Thoroughwort**	**GNR**	**S1**		
***Euphorbia bombensis* Jacquin**	**Southern Seaside Spurge**	**G4G5**	**S2**		
syn: *Chamaesyce bombensis* (Jacquin) Dugand					
***Euphorbia exserta* (Small) Coker**	**Maroon Sandhills Spurge**	**G4?**	**S1**		
***Euphorbia purpurea* (Raf.) Fern.**	**Glade Spurge**	**G3**	**S2**		
***Eurybia radula* (Ait.) Nesom**	**Low Rough Aster**	**G5**	**S1**		
syn: *Aster radula Ait.*					
***Eurybia surculosa* (Michx) Nesom**	**Creeping Aster**	**G4G5**	**S1S2**		
syn: *Aster surculosus Michx.*					
Eutrochium maculatum* (L.) E.E. Lamont var. *maculatum	**Spotted Joe-pye-weed**	**G5T5**	**S1**		
syn: *Eupatorium maculatum* L. var. *maculatum*					
***Filipendula rubra* (Hill) B.L. Robins.**	**Queen-of-the-Prairie**	**G4G5**	**S2**		
***Fimbristylis perpusilla* Harper *ex* Small & Britt.**	**Harper's Fimbry**	**G2**	**S1**		**LE**

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Fimbristylis puberula* (Michx.) Vahl var. *puberula	**Hairy Fimbry**	**G5T5**	**S1**		
Under *F. spadicea* (L.) Vahl. in Radford et al. (1968)					
Under *F. caroliniana* (Lam.) Fern. in Fernald (1950)					
All Virginia *F. puberula* is var. *puberula*					
***Fleischmannia incarnata* (Walt.) King & H.E. Robins.**	**Pink Thoroughwort**	**G5**	**S2**		
syn: *Eupatorium incarnatum* Walter					
***Fragaria vesca* L. var. *americana* (Porter) Staudt**	**Woodland Strawberry**	**G5T5**	**S1**		
All native *F. vesca* is var. *americana*					
***Fuirena breviseta* (Coville) Coville**	**Short-bristled Umbrella-sedge**	**G5**	**SH**		
Under *F. squarrosa* Michx. in Radford et al. (1968)					
***Gaylussacia brachycera* (Michx.) Gray**	**Box Huckleberry**	**G3**	**S1**		
***Gentiana autumnalis* L.**	**Pine Barren Gentian**	**G3**	**S1**		
***Gentianella quinquefolia* (L.) Small var. *occidentalis* Gray**	**Western Stiff Gentian**	**G5T4T5**	**S1**		
***Gentianopsis crinita* (Froel.) Ma**	**Greater Fringed Gentian**	**G5**	**S1**		
syn: *Gentiana crinita* Froel.					
***Geum aleppicum* Jacq.**	**Yellow Avens**	**G5**	**SH**		
***Geum laciniatum* Murr.**	**Rough Avens**	**G5**	**S1**		
***Gillenia stipulata* (Muhl. ex Willd.) Nutt.**	**American ipecac**	**G5**	**S1**		
syn: *Porteranthus stipulatus* (Muhl. ex Willd.) Britt.					
Glyceria grandis* S. Wats. var. *grandis	**American Mannagrass**	**G5T5**	**S1**		
All Virginia *G. grandis* is var. *grandis*					
***Glyceria laxa* (Scribn.) Scribn.**	**Northern Mannagrass**	**G5**	**S1**		
***Gnaphalium uliginosum* L.**	**Low Cudweed**	**G5**	**S1**		
***Goodyera repens* (L.) R. Br. ex Ait. f.**	**Dwarf Rattlesnake-plantain**	**G5**	**S1**		
***Gratiola ramosa* Walt.**	**Branched Hedge-hyssop**	**G4G5**	**S1**		
***Harperella nodosa* Rose**	**Harperella**	**G2**	**S1**	**LE**	**LE**
syn: *Ptilimnium nodosum* (Rose) Mathias Virginia plants formerly classified as *Harperella vivipara* Rose					
***Helenium brevifolium* (Nutt.) Wood**	**Short-leaf Sneezeweed**	**G4**	**S2**		
***Helenium virginicum* Blake**	**Virginia Sneezeweed**	**G3**	**S2**	**LT**	**LE**
Helianthus occidentalis* Riddell ssp. *occidentalis	**Western Sunflower**	**G5T5**	**S1**		
Heliotropium curassavicum* L. var. *curassivicum	**Seaside Heliotrope**	**G5T5**	**S1**		

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***Helonias bullata* L.**	**Swamp-pink**	**G3**	**S2S3**	**LT**	**LE**
***Heteranthera multiflora* (Griseb.) Horn**	**Mud Plantain**	**G4**	**S1**		
***Heuchera alba* Rydb.**	**White Alumroot**	**G2Q**	**S1**		
***Heuchera caroliniana* (Rosendahl, Butters & Lakela) E. Wells**	**Carolina Alumroot**	**G3**	**S1**		
***Hexastylis contracta* Blomquist**	**Mountain Heartleaf**	**G3**	**S1**		
***Honckenya peploides* (L.) Ehrh. ssp. *robusta* (Fern.) Hulten** syn: *Honkenya peploides* (L.) Ehrh. syn: *Arenaria peploides* L. var. *robusta* Fern. All Virginia *H. peploides* is ssp. *robusta*	**Sea-beach Sandwort**	**G5T4**	**SH**		
Hordeum jubatum* L. ssp. *jubatum Only native Virginia occurrences are monitored	**Foxtail Barley**	**G5T5**	**S1**		
***Houstonia canadensis* Willd. ex Roemer & J.A. Schultes** syn: *Hedyotis canadensis* (Willd. ex Roemer & J.A. Schultes) Fosberg	**Canada Bluets**	**G4G5**	**S2**		
Houstonia montana Small *syn: Houstonia purpurea* L. var. *montana* (Small) Terrell	**Roan Mountain Bluet**	**G2**	**S1**		
Houstonia nigricans* (Lam.) Fernald var. *nigricans syn: *Hedyotis nigricans* (Lam.) Fosberg	**Glade Bluets**	**G5T5**	**S1**		
***Huperzia appressa* (Desvaux) A. Löve & D. Löve** syn: *Huperzia appalachiana* Beitel & Mickel	**Appalachian Fir Clubmoss**	**G5**	**S2**		
***Huperzia porophila* (Lloyd & Underwood) Holub** syn: *Lycopodium porophilum* Lloyd & Underwood	**Rock Clubmoss**	**G4**	**S1**		
***Hydrocotyle bonariensis* Comm. ex Lam.**	**Coastal Water-pennywort**	**G5**	**S2**		
***Hypericum adpressum* Raf. ex W. Bart.**	**Bog St. John's-wort**	**G3**	**S1**		
***Hypericum boreale* (Britt.) Bickn.**	**Northern St. John's-wort**	**G5**	**S2**		
***Hypericum densiflorum* Pursh var. *interior* (Small) Sorrie & Weakley**	**Interior Bushy St. John's-wort**	**G5TNR**	**S1**		
***Hypericum denticulatum* Walt.** Does not include *H. virgatum* (=*H. denticulatum var. acutifolium* Ell.)	**Coppery St. John's-wort**	**G5**	**SH**		
***Hypericum ellipticum* Hook.**	**Pale St. John's-wort**	**G5**	**S1**		
***Hypericum fraseri* Spach** syn: *Triadenum fraseri* (Spach) Gleason	**Fraser's Marsh St. John's-wort**	**G5**	**S2**		
***Hypericum lloydii* (Svenson) P. Adams**	**Sandhill St. John's-wort**	**G4?**	**SH**		

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***Hypericum setosum* L.**	**Hairy St. John's-wort**	**G4G5**	**S1S2**		
***Hypericum tubulosum* Walt.**	**Lesser Marsh St. John's-wort**	**G4?**	**S2**		
syn: *Triadenum tubulosum* (Walt.) Gleason					
***Hypoxis sessilis* L.**	**Glossy-seed Yellow Stargrass**	**G4**	**SH**		
Includes *H. longii* Fern.					
***Ilex collina* Alexander**	**Long-stalked Holly**	**G3**	**S1**		**LE**
syn: *Nemopanthus collinus* (Alexander) R. Clark					
***Ilex coriacea* (Pursh) Chapman**	**Big Gallberry**	**G5**	**S1**		
***Iliamna corei* Sherff**	**Peters Mountain Mallow**	**G1**	**S1**	**LE**	**LE**
Under *I. rivularis* (Dougl. ex Hook.) Greene var. *rivularis* in Kartesz (1999)					
***Iliamna remota* Greene**	**Kankakee Mallow**	**G1Q**	**S1**		
Under *I. rivularis* (Dougl. ex Hook.) Greene var. *rivularis* in Kartesz (1999)					
***Isoetes appalachiana* Brunton & Britton**	**Appalachian Quillwort**	**G4**	**S1**		
***Isoetes hyemalis* Brunton**	**Winter Quillwort**	**G2G3**	**S2**		
***Isoetes lacustris* L.**	**Lake Quillwort**	**G5**	**SH**		
***Isoetes mattaponica* L.J. Musselman & W.C. Taylor**	**Mattaponi Quillwort**	**GNR**	**S2**		
***Isoetes melanopoda* Gay & Durieu *ex* Durieu**	**Black-footed Quillwort**	**G5**	**S1**		
***Isoetes piedmontana* (N.E. Pfeiffer) C.F. Reed**	**Piedmont Quillwort**	**G4**	**S1**		
***Isoetes virginica* N.E. Pfeiffer**	**Virginia Quillwort**	**G1**	**S1**		**LE**
***Isotria medeoloides* (Pursh) Raf.**	**Small Whorled Pogonia**	**G2?**	**S2**	**LT**	**LE**
***Iva imbricata* Walt.**	**Dune Marsh-elder**	**G5?**	**S1**		
***Juncus articulatus* L.**	**Jointed Rush**	**G5**	**S1**		
***Juncus balticus* Willd. var. *littoralis* Engelm.**	**Baltic Rush**	**G5T5**	**S1**		
All Virginia *J. balticus* is var. *littoralis*					
***Juncus brachycephalus* (Engelm.) Buch.**	**Small-headed Rush**	**G5**	**S2**		
***Juncus brevicaudatus* (Engelm.) Fern.**	**Narrow-panicled Rush**	**G5**	**S2**		
***Juncus caesariensis* Coville**	**New Jersey Rush**	**G2G3**	**S2**		**LT**
***Juncus elliottii* Chapman**	**Bog Rush**	**G4G5**	**S1**		
***Juncus megacephalus* M.A. Curtis**	**Big-headed Rush**	**G4G5**	**S2**		
***Juncus nodosus* L.**	**Knotted Rush**	**G5**	**S1**		
***Juncus pelocarpus* E. Mey.**	**Brown-fruited Rush**	**G5**	**S2**		
***Juncus torreyi* Coville**	**Torrey's Rush**	**G5**	**S1**		
***Juncus trifidus* L.**	**Highland Rush**	**G5**	**S1**		
***Juniperus communis* L. var. *depressa* Pursh**	**Ground Juniper**	**G5T5**	**S1**		
All Virginia *J. communis* is var. *depressa*					

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***Kalmia angustifolia* L.**	**Sheep Laurel**	**G5**	**S2**		
***Kalmia carolina* Small** syn: *Kalmia anugustifolia* L. var. *caroliniana* (Small) Fernald	**Carolina Laurel**	**G4**	**S2**		
***Lachnanthes caroliniana* (Lam.) Dandy** syn: *L. caroliana (Lam.) Dandy* syn: *L. tinctoria* (G.F. Gmel.) Ell.	**Redroot**	**G4**	**SH**		
***Lachnocaulon anceps* (Walt.) Morong**	**Common Bog-buttons**	**G5**	**S1**		
***Lathyrus palustris* L.**	**Marsh Pea**	**G5**	**S1**		
Lechea intermedia* Leggett ex Britt. var. *intermedia All Virginia *L. intermedia* is var. *intermedia*	**Round-fruit Pinweed**	**G5T4T5**	**SH**		
***Leersia hexandra* Sw.**	**Southern Cutgrass**	**G5**	**SH**		
***Lemna trisulca* L.**	**Star Duckweed**	**G5**	**S1**		
***Leucospora multifida*(Michx.) Nutt.**	**Narrow-leaf Paleseed**	**G5**	**S1**		
***Leucothoe fontanesiana* (Steud.) Sleumer** syn: *L. axillaris* (Lam.) D. Don var. *editorum* (Fern. & Shub.) Ahles	**Highland Dog-hobble**	**G5**	**S1S2**		
***Lilaeopsis carolinensis* Coult. & Rose** syn: *L. attenuata* (Hook. & Arn.) Fern.	**Carolina Lilaeopsis**	**G3G5**	**S1**		
***Lilium catesbaei* Walt.**	**Pine Lily**	**G4**	**S1**		
***Lilium grayi* S. Wats.** Includes low-elevation (< 1200 m.) occurrences, which are likely intergrades between *L. grayi* and *L. canadense* (syn: *L. x pseudograyi* Grove)	**Gray's Lily**	**G3**	**S2**		
***Lilium pyrophilum* M.W. Skinner & Sorrie**	**Sandhills Bog Lily**	**G2**	**S1**		
***Limosella australis* R. Br.** syn: *L. subulata* Ives	**Mudwort**	**G4G5**	**SH**		
***Liparis loeselii* (L.) L.C. Rich.**	**Bog Twayblade**	**G5**	**S2**		
***Lipocarpha maculata* (Michx.) Torr.**	**American Halfchaff Sedge**	**G5**	**S1**		
***Lipocarpha micrantha* (Vahl) G. Tucker** syn: *Hemicarpha micrantha* (Vahl) Pax	**Small-flower Halfchaff Sedge**	**G5**	**S2**		
***Lithospermum caroliniense* (Walt. ex J.F. Gmel.) MacM.**	**Golden Puccoon**	**G4G5**	**S1**		
***Lithospermum virginianum* L.** syn: *Onosmodium virginianum* (L.) DC.	**Virginia False Gromwell**	**G4**	**S2**		
***Litsea aestivalis* (L.) Fern.**	**Pondspice**	**G3?**	**S1**		
***Lobelia elongata* Small**	**Long-leaf Lobelia**	**G4G5**	**S1**		
***Ludwigia alata* Ell.**	**Winged Seedbox**	**G3G5**	**S1**		
***Ludwigia brevipes* (B.H. Long ex Britt., A. Braun & Small) Eames**	**Long Beach Seedbox**	**G2G3**	**S2**		
***Ludwigia hirtella* Raf.**	**Rafinesque's Seedbox**	**G5**	**S2**		
***Ludwigia pilosa* Walt.**	**Hairy Seedbox**	**G5**	**S1**		

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***Ludwigia ravenii* Peng**	**Raven's Seedbox**	**G1G2**	**S1**		
***Ludwigia virgata* Michx.**	**Savanna Seedbox**	**G5**	**SH**		
***Lycopodiella inundata* (L.) Holub**	**Northern Bog Clubmoss**	**G5**	**S1**		
syn: *Lycopodium inundatum* L.					
***Lysimachia hybrida* Michx.**	**Lowland Loosestrife**	**G5**	**S2**		
***Lysimachia quadriflora* Sims**	**Prairie Loosestrife**	**G5?**	**S1**		
***Lysimachia radicans* Hook.**	**Trailing Loosestrife**	**G4G5**	**SH**		
***Lythrum alatum* Pursh**	**Winged Loosestrife**	**G5**	**S2**		
***Lythrum lanceolatum* Ell.**	**Lance-leaf Loosestrife**	**G5**	**SH**		
syn: *Lythrum alatum* Pursh var. *lanceolatum* (Ell.) Torr. & Gray ex Rothrock					
***Magnolia macrophylla* Michx.**	**Bigleaf Magnolia**	**G5**	**S1**		
***Maianthemum stellatum* (L.) Link**	**Starry Solomon's-plume**	**G5**	**S1S2**		
syn: *Smilacina stellata* (L.) Desf.					
***Malvastrum angustum* A. Gray**	**Hispid False Mallow**	**G3G5**	**S1**		
syn: Malvastrum hispidum (Pursh) Hochreutiner					
***Manfreda virginica* (L.) Salisb. ex Rose**	**Rattlesnake-master**	**G5**	**S2**		
syn: *Agave virginica* L.					
***Marshallia legrandii* Weakley**	**Tall Barbara's-buttons**	**G1**	**S1**		
Marshallia obovata* (Walt.) Beadle & F.E. Boynt. var. *obovata	**Piedmont Barbara's-buttons**	**G4G5T3T5**	**S1**		
All Virginia *M. obovata* is var. *obovata*					
***Matelea decipiens* (Alexander) Woods.**	**Old-field Milkvine**	**G5**	**S1**		
***Matteuccia struthiopteris* (L.) Todaro var. *pensylvanica* (Willd.) C.V. Morton**	**Ostrich Fern**	**G5T5**	**S1**		
All Virginia *M. struthiopteris* is var. *pensylvanica*					
***Melica nitens* (Scribn.) Nutt. ex Piper**	**Three-flower Melic**	**G5**	**S1**		
***Menyanthes trifoliata* L.**	**Buckbean**	**G5**	**S1**		
***Micranthemum micranthemoides* (Nutt.) Wettst.**	**Nuttall's Micranthemum**	**GH**	**SH**		
***Micranthemum umbrosum* (J.F. Gmel.) Blake**	**Shade Mudflower**	**G5**	**S2**		
***Micranthes careyana* (A. Gray) Small**	**Carey's Saxifrage**	**G3**	**S1**		
syn: *Saxifraga careyana* Gray					
***Mimosa microphylla* Dryander**	**Little-leaf Sensitive-brier**	**G5T5**	**S1**		
syn: *Schrankia microphylla* (Dry.) J.F. MacBr.					
***Mimulus moschatus* Dougl. ex Lindl.**	**Muskflower**	**G5**	**SH**		
***Minuartia caroliniana* (Walt.) Mattf.**	**Carolina Sandwort**	**G5**	**SH**		
syn: *Arenaria caroliniana* Walt.					

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***Minuartia groenlandica* (Retz.) Ostenf.** syn: *Arenaria groenlandica* (Retz.) Spreng.	**Mountain Sandwort**	**G5**	**S1**		
***Minuartia patula* (Michx.) Mattf.** syn: *Arenaria patula* Michx.	**Pitcher's Stitchwort**	**G4**	**S2**		
***Mitreola petiolata* (J.F. Gmel.) Torr. & Gray** syn: *Cynoctonum mitreola* (L.) Britt.	**Lax Hornpod**	**G5**	**S1**		
***Mitreola sessilifolia* (J.F. Gmel) G. Don** syn: *Cynoctonum sessilifolium* J.F. Gmel.	**Swamp Hornpod**	**G4G5**	**S1**		
***Moehringia lateriflora* (L.) Fenzl** syn: *Arenaria lateriflora* L.	**Grove Sandwort**	**G5**	**S1**		
***Monarda fistulosa* L. var. *brevis* Fosberg & Artz**	**Smoke Hole Bergamot**	**G5T1T2**	**SH**		
***Morella pumila* (Michx.) Small** Under *Morella. cerifera* L. in Kartesz (1999)	**Dwarf Wax Myrtle**	**G5**	**S1**		
***Muhlenbergia bushii* Pohl** Includes *M. brachyphylla* Bush	**Bush's Muhly**	**G5**	**S1**		
***Muhlenbergia cuspidata* (Torr. ex Hook.) Rydb.**	**Plains Muhly**	**G5**	**S2**		
***Muhlenbergia expansa* (Poir.) Trin.** *syn: M. capillaris* (Lam.) Trin. var. *trichopodes* (Ell.) Vasey	**Cut-over Muhly**	**G5**	**SH**		
***Muhlenbergia glabriflora* Scribn.**	**Inland Muhly**	**G4?**	**SH**		
***Muhlenbergia glomerata* (Willd.) Trin.**	**Marsh Muhly**	**G5**	**S2**		
***Myriophyllum humile* (Raf.) Morong**	**Low Water-milfoil**	**G5**	**S1**		
***Myriophyllum laxum* Shuttlw. ex Chapm.**	**Loose Water-milfoil**	**G3**	**SH**		
***Nabalus autumnalis* (Walt.) Weakley** syn: *Prenanthes autumnalis* Walt.	**Slender Rattlesnake-root**	**G4G5**	**S1**		
***Napaea dioica* L.**	**Glade Mallow**	**G4**	**SH**		
***Nestronia umbellula* Raf.**	**Nestronia**	**G4**	**S1**		
***Nuphar sagittifolia* (Walt.) Pursh** syn: *Nuphar lutea* (L.) Sm. ssp. *sagittifolia* (Walt.) E.O. Beal	**Narrow-leaved Spatterdock**	**G2**	**S1**		**LT**
***Nymphoides aquatica* (J.F. Gmel.) Kuntze**	**Big Floating Heart**	**G5**	**S1**		
***Oenothera riparia* Nuttall** syn: *O. tetragona* Roth ssp. *glauca* (Michaux) Munz var. *riparia* (Nuttall) Munz included in *O. fruticosa* L. by Radford et al. (1968)	**Riverbank Evening-primrose**	**G2G3**	**S1S2**		
***Oldenlandia boscii* (DC.) Chapman** syn: *Hedyotis boscii* DC.	**Bosc's Bluets**	**G5**	**S1**		
***Ophioglossum petiolatum* Hook.**	**Long-stem Adder's-tongue**	**G5**	**S1**		

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***Ophioglossum pusillum* Raf.**	**Northern Adder's-tongue**	**G5**	**SH**		
syn: *O. vulgatum* L. var. *pseudopodium* (Blake) Farw.					
***Orbexilum onobrychis* (Nutt.) Rydb.**	**Lance-leaf Scurfpea**	**G5**	**SH**		
syn: *Psoralea onobrychis* Nutt.					
***Orthilia secunda* (L.) House**	**One-sided Shinleaf**	**G5**	**SH**		
syn: *Pyrola secunda* L.					
***Oryzopsis asperifolia* Michx.**	**Rough-leaved Ricegrass**	**G5**	**S1**		
***Osmanthus americanus* (L.) Benth. & Hook f. ex Gray**	**Wild Olive**	**G5**	**S1**		
***Osmundastrum cinnamomeum* (L.) C. Presl var. *glandulosum* (Waters) McAvoy**	**Glandular Cinnamon Fern**	**G5TNR**	**S1**		
***Oxypolis ternata* (Nutt.) A. Heller**	**Savanna Cowbane**	**G3**	**SH**		
Given as *O. filiformis* (Walt.) Britt. in Harvill et al. (1992)					
***Packera millefolium* (Torr. & Gray) Weber & Löve**	**Yarrow-leaved Ragwort**	**G2**	**S2**		
syn: *Senecio millefolium* Torr. & Gray					
***Panicum hemitomon* J.A. Schultes**	**Maidencane**	**G5?**	**S2**		
***Parathelypteris simulata* (Davenport) Holttum**	**Bog Fern**	**G4G5**	**S1S2**		
syn: *Thelypteris simulata* (Davenport) Nieuwland					
***Parnassia grandifolia* DC.**	**Large-leaved Grass-of-Parnassus**	**G3**	**S2**		
Paronychia virginica* Spreng. var. *virginica	**Yellow Nailwort**	**G4T1Q**	**S1**		
***Paspalum bifidum* (Bertol.) Nash**	**Pitchfork Paspalum**	**G5**	**SH**		
***Paspalum dissectum* (L.) L.**	**Walter's Paspalum**	**G4?**	**S2**		
***Paspalum distichum* L.**	**Joint Paspalum**	**G5**	**S1**		
***Paspalum praecox* Walt.**	**Early Paspalum**	**G4**	**S1**		
***Paxistima canbyi* Gray**	**Canby's Mountain-lover**	**G2**	**S2**		
syn: *Pachistima canbyi*					
***Pediomelum canescens* (Michx.) Rydb.**	**Buckroot**	**G3G4**	**S1**		
syn: *Psoralea canescens* Michx.					
***Penstemon australis* Small**	**Southern Beard-tongue**	**G5**	**S1?**		
***Penstemon calycosus* Small**	**Calico Beard-tongue**	**G5**	**SH**		
***Phacelia covillei* S. Watson ex A. Gray**	**Coville's Phacelia**	**G3**	**S1**		
***Phacelia fimbriata* Michx.**	**Fringed Scorpion-weed**	**G4**	**S2**		
***Phalaris caroliniana* Walt.**	**Carolina Canary Grass**	**G5?**	**SH**		
***Phanopyrum gymnocarpon* (Ell.) Nash**	**Savanna Panic Grass**	**G5**	**S1**		
syn: *Panicum gymnocarpum* Ell.					

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***Phemeranthus piedmontanus* S. Ware**	**Piedmont Fameflower**	**G1**	**S1**		
***Phlox amplifolia* Britt.**	**Large-leaf Phlox**	**G3G5**	**S1**		
***Phlox buckleyi* Wherry**	**Sword-leaf Phlox**	**G2**	**S2**		
***Phlox pilosa* L.**	**Downy Phlox**	**G5**	**S1**		
***Phyla nodiflora* (L.) Greene** syn: *Lippia nodiflora* (L.) Michx.	**Sawtooth Frogfruit**	**G5**	**S1**		
***Pinus palustris* P. Mill.** syn: *P. australis* Michx. f.	**Longleaf Pine**	**G5**	**S1**		
***Plantago cordata* Lam.**	**King-root**	**G4**	**SH**		
***Plantago maritima* L. var. *juncoides* (Lam.) Gray** All Virginia *P. maritima* is var. *juncoides*	**Seaside Plantain**	**G5T5**	**S1**		
***Platanthera blephariglottis* (Willd.) Lindl.** Conflicting opinions on whether Virginia material is var. *blephariglottis* or var. *conspicua*	**Small White Fringed Orchid**	**G4G5**	**S2**		
***Platanthera grandiflora* (Bigelow) Lindl.** syn: *Habenaria psycodes* (L.) Spreng. var. *grandiflora* (Bigelow) Gray	**Large Purple Fringed Orchid**	**G5**	**S2**		
***Platanthera leucophaea* (Nutt.) Lindl.** syn: *Habenaria leucophaea* (Nutt.) Gray	**Prairie Fringed Orchid**	**G2G3**	**S1**	**LT**	**LT**
***Platanthera peramoena* (Gray) Gray** syn: *Habenaria peramoena* Gray	**Purple Fringeless Orchid**	**G5**	**S1**		
***Platanthera shriveri* P.M. Brown**	**Shriver's Frilly Orchid**	**G1**	**S1**		
***Poa languida* Hitchcock**	**Drooping Bluegrass**	**G3G4Q**	**S2**		
***Poa paludigena* Fern. & Wieg.**	**Bog Bluegrass**	**G3**	**S2**		
***Poa palustris* L.**	**Fowl Bluegrass**	**G5**	**S1S2**		
***Poa saltuensis* Fern. & Wieg.**	**Weak Bluegrass**	**G5**	**S2**		
Polanisia dodecandra* (L.) DC. var. *dodecandra All Virginia *P. dodecandra* is var. *dodecandra*	**Common Clammy-weed**	**G5T5?**	**S2**		
***Polygala ramosa* Ell.**	**Low Pine Barren Milkwort**	**G5**	**SH**		
Polygonella polygama* (Vent.) Engelm. & Gray var. *polygama	**October-flower**	**G4TNR**	**S1**		
***Polygonum glaucum* Nutt.**	**Sea-beach Knotweed**	**G3**	**S2**		
***Populus tremuloides* Michx.**	**Quaking Aspen**	**G5**	**S1**		
***Portulaca smallii* P. Wilson**	**Small's Purslane**	**G3**	**S1**		
***Potamogeton amplifolius* Tuckerman**	**Bigleaf Pondweed**	**G5**	**S1**		
***Potamogeton bicupulatus* Fern.**	**Snailseed Pondweed**	**G4**	**S1**		
***Potamogeton friesii* Rupr.**	**Fries' Pondweed**	**G5**	**SH**		
***Potamogeton hillii* Morong**	**Hill's Pondweed**	**G3**	**S1**		
***Potamogeton oakesianus* J.W. Robbins**	**Oakes' Pondweed**	**G4**	**S1**		

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***Potamogeton robbinsii* Oakes**	**Flatleaf Pondweed**	**G5**	**SH**		
***Potamogeton spirillus* Tuckerman**	**Spiral Pondweed**	**G5**	**SH**		
***Potamogeton strictifolius* Benn.**	**Straightleaf Pondweed**	**G5**	**SH**		
***Potamogeton tennesseensis* Fern.**	**Tennessee Pondweed**	**G2G3**	**S1**		
***Potamogeton zosteriformis* Fern.**	**Flatstem Pondweed**	**G5**	**S1**		
***Prunus maritima* Marshall**	**Beach Plum**	**G4**	**S1?**		
***Prunus nigra* Ait.**	**Canada Plum**	**G4G5**	**S1?**		
***Prunus susquehanae* Hort. ex Willd.**	**Susquehanna Sand Cherry**	**G4**	**S1**		
syn: *Prunus pumila* L. var. *susquehanae* (Hort. ex Willd.) Jaeger					
***Pseudognaphalium helleri* (Britt.) A. Anderb.**	**Heller's Cudweed**	**G3G4**	**S1**	NOTE!	
***Pseudognaphalium macounii* (Greene) Kartesz**	**Clammy Everlasting**	**G5**	**S1**		
syn: *G. viscosum* Kunth					
***Pseudognaphalium micradenium* (Weatherby) Nesom**	**Small Rabbit Tobacco**	**G3?**	**S1**		
***Pseudolycopodiella caroliniana* (L.) Holub**	**Carolina Bog Clubmoss**	**G4**	**SH**		
syn: *Lydopodium carolinianum* L.					
syn: *Lycopodiella caroliniana* (L.) Pichi Sermolli					
***Puccinellia fasciculata* (Torr.) Bickn.**	**Eastern Alkali Grass**	**G3G5**	**SH**		
***Pycnanthemum clinopodioides* Torr. & Gray**	**Basil Mountain-mint**	**G1G2**	**S1**		
***Pycnanthemum setosum* Nutt.**	**Awned Mountain-mint**	**G4**	**S1**		
***Pycnanthemum torreyi* Benth.**	**Torrey's Mountain-mint**	**G2**	**S2**		
***Pyrola chlorantha* Sw.**	**Green Pyrola**	**G5**	**SH**		
syn: *P. virens* Schreb.					
***Pyrola elliptica* Nutt.**	**Shinleaf**	**G5**	**S1**		
Pyxidanthera barbulata* Michx. var. *barbulata	**Common Pyxie-moss**	**G4TNR**	**S1**		
***Quercus hemisphaerica* Bartr. ex Willd.**	**Sand Laurel Oak**	**G5**	**S1**		
Under *Q. laurifolia* Michx. in Radford et al. (1968)					
***Quercus incana* Bartr.**	**Bluejack Oak**	**G5**	**S2**		
***Quercus macrocarpa* Michx.**	**Bur Oak**	**G5**	**S1**		
***Quercus prinoides* Willd.**	**Dwarf Chinquapin Oak**	**G5**	**S1**		
***Ranunculus ambigens* S. Wats.**	**Water-plantain Crowfoot**	**G4**	**S1**		
***Ranunculus flabellaris* Raf.**	**Yellow Water Crowfoot**	**G5**	**S2**		
***Ranunculus hederaceus* L.**	**Ivy-leaved Water Crowfoot**	**G5**	**SH**		
***Ranunculus laxicaulis* (Torr. & Gray) Darby**	**Mississippi Buttercup**	**G5?**	**SH**		

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***Ranunculus longirostris* Godr.**	**Long-beaked Buttercup**	**G5**	**SH**		
syn: *Ranunculus aquatalis* L. var. *diffusus* Withering					
***Rhamnus alnifolia* L'Her.**	**Alder-leaved Buckthorn**	**G5**	**S1**		
***Rhamnus lanceolata* Pursh var. *glabrata* Gleason**	**Western Lance-leaf Buckthorn**	**G5T4T5**	**S1**		
Most Virginia *R. lanceolata* is var. *lanceolata* (see watchlist)					
***Rhexia petiolata* Walt.**	**Fringed Meadow Beauty**	**G5?**	**S1**		
***Rhododendron arborescens* (Pursh) Torr.**	**Sweet Azalea**	**G4G5**	**S2**		
***Rhus michauxii* Sarg.**	**Michaux's Sumac**	**G2G3**	**S1**	**LE**	**LT**
***Rhynchospora alba* (L.) Vahl**	**Northern White Beaksedge**	**G5**	**S2**		
***Rhynchospora capillacea* Torr.**	**Needle Beaksedge**	**G4**	**S1**		
***Rhynchospora cephalantha* Gray var. *attenuata* Gale**	**Small Bunched Beaksedge**	**G5T3?**	**S1**		
***Rhynchospora colorata* (L.) H. Pfieffer**	**Narrow-leaf Whitetop Sedge**	**G5**	**S1**		
syn: *Dichromena colorata* (L.) Hitchc.					
***Rhynchospora debilis* Gale**	**Savanna Beaksedge**	**G4?**	**S1**		
***Rhynchospora distans* (Michx.) Chapm.**	**Fasciculate Beaksedge**	**G4?**	**S1**		
***Rhynchospora fascicularis* (Michx.) Vahl**	**Fasciculate Beaksedge**	**G3G5**	**S2**		
***Rhynchospora filifolia* Gray**	**Thread-leaved Beaksedge**	**G5**	**SH**		
***Rhynchospora grayi* Kunth**	**Gray's Beaksedge**	**G4**	**SH**		
***Rhynchospora harveyi* W. Boott**	**Harvey's Beaksedge**	**G4**	**S1**		
***Rhynchospora miliacea* (Lam.) Gray**	**Millet Beaksedge**	**G5**	**SH**		
***Rhynchospora nitens* (Vahl) Gray**	**Short-beaked Beaksedge**	**G4?**	**SH**		
syn: *Psilocarya nitens* (Vahl) Wood					
***Rhynchospora oligantha* Gray**	**Feather-bristled Beaksedge**	**G4**	**S1**		
***Rhynchospora pallida* M.A. Curtis**	**Pale Beaksedge**	**G3**	**SX**		
***Rhynchospora scirpoides* (Torr.) Gray**	**Long-beaked Beaksedge**	**G4**	**S1**		
syn: *Psilocarya scirpoides* Torr.					
***Rhynchospora stenophylla* Chapman**	**Coastal Bog Beaksedge**	**G4**	**S1**		
***Rhynchospora wrightiana* Boeckl.**	**Wright's Beaksedge**	**G5**	**S1**		
***Ribes americanum* P. Mill.**	**Wild Black Currant**	**G5**	**S1**		

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***Rorippa aquatica* (Eat.) E.J. Palmer & Steyermark** syn: *Neobeckia aquatica* (Eaton) Greene	**Lake Cress**	**G4?**	**SH**		
***Rorippa sessiliflora* (Nutt.) A.S. Hitchc.**	**Stalkless Yellow Cress**	**G5**	**S2**		
***Rosa setigera* Michx.**	**Climbing Prairie Rose**	**G5**	**S1**		
***Rosa virginiana* Miller**	**Virginia Rose**	**G5**	**SH**		
***Rubus dalibarda* L.** syn: *Dalibarda repens* L.	**Dewdrop**	**G5**	**S1**		
***Rubus idaeus* L. ssp. *strigosus* (Michx.) Focke**	**Red Raspberry**	**G5T5**	**S2**		
***Rudbeckia heliopsidis* Torr. & Gray**	**Sun-facing Coneflower**	**G2**	**S1**		
***Rudbeckia laciniata* L. var. *bipinnata* Perdue**	**Northeastern cutleaf coneflower**	**G5TNR**	**S1**		
***Rudbeckia triloba* L. var. *beadlei* (Small) Fern.** syn: *Rudbeckia triloba* L. var. *pinnatiloba*	**Pinnate-lobed Coneflower**	**G5T3**	**S1**		
***Sabatia campanulata* (L.) Torr.**	**Slender Marsh-pink**	**G5**	**S2**		
***Sabatia difformis* (L.) Druce**	**Lance-leaved Rose-gentian**	**G4G5**	**S1**		
***Saccharum coarctatum* (Fern.) R. Webster** syn: *Erianthus coarctatus Fern.* syn: *Erianthus coarctatus var. elliottianus* Fern.	**Compressed Plumegrass**	**G5?**	**S1**		
***Sagittaria brevirostra* Mackenzie & Bush**	**Short-beak arrowhead**	**G5**	**SH**		
***Sagittaria calycina* Engelm.**	**Long-lobed Arrowhead**	**G5**	**S1**		
***Sagittaria spatulata* (J.G. Smith) Buchenau** syn: *Sagittaria calycina* Engelm. var. *spongiosa* Engelm.	**Tidal Arrowhead**	**G5T4**	**S1**		
***Sagittaria engelmanniana* J.G. Sm.**	**Engelmann's Arrowhead**	**G5?**	**SH**		
***Sagittaria rigida* Pursh**	**Sessile-fruited Arrowhead**	**G5**	**S1**		
***Salix discolor* Muhl.**	**Pussy Willow**	**G5**	**S1**		
***Salix exigua* Nutt. var. *sericans* (Nees) Nesom**	**Sandbar Willow**	**G5TNR**	**S1**		
***Sanguisorba canadensis* L.**	**Canada Burnet**	**G5**	**S2**		
***Sarracenia flava* L.**	**Yellow Pitcher Plant**	**G5?**	**S1**		
***Sarracenia purpurea* L.**	**Purple Pitcher Plant**	**G5**	**S2**		
***Sceptridium jenmanii* Underwood (Lyon)** syn: *Botrychium jenmanii* Underwood	**Alabama Grape Fern**	**G3G4**	**SH**		

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***Sceptridium multifidum* (S.G. Gmelin) M. Nishida** syn: *Botrychium multifidum* (Gmel.) Trev.	**Leathery Grape Fern**	**G5**	**S1**		
***Sceptridium oneidense* (Gilbert) Holub** syn: *Botrychium oneidense* (Gilbert) House	**Blunt-lobe Grape Fern**	**G4**	**S1**		
***Schizachne purpurascens* (Torr.) Swallen**	**Purple Oatgrass**	**G5**	**S1**		
Schoenoplectus acutus* (Muhl. *ex* Bigelow) Love & Love var. *acutus syn: *Scirpus acutus* Muhl. ex Bigelow	**Hard-stem Bulrush**	**G5T5**	**S1**		
***Schoenoplectus etuberculatus* (Steud.) Sojak** syn: *Scirpus etuberculatus* (Steud.) Kuntze	**Swamp Bulrush**	**G3G4**	**SH**		
***Schoenoplectus smithii* (Gray) Sojak** syn: *Scirpus smithii* Gray	**Smith's Bulrush**	**G5?**	**SH**		
***Schoenoplectus subterminalis* (Torr.) Sojak** syn: *Scirpus subterminalis* Torr.	**Water Bulrush**	**G4G5**	**S1**		
***Schoenoplectus torreyi* (Olney) Palla** syn: *Scirpus torreyi* Olney	**Torrey's Bulrush**	**G5?**	**S1**		
***Schwalbea americana* L.**	**Chaffseed**	**G2G3**	**SH**	**LE**	
***Scirpus ancistrochaetus* Schuyler**	**Northeastern Bulrush**	**G3**	**S2**	**LE**	**LE**
***Scirpus flaccidifolius* (Fern.) Schuyler** syn: *S. atrovirens* Willd. var. *flaccidifolius* Fern.	**Reclining Bulrush**	**G2**	**S1**		**LT**
Scleria ciliata* Michx. var. *ciliata	**Hairy Nutrush**	**G5TNR**	**S1**		
***Scleria minor* W. Stone**	**Slender Nutrush**	**G4**	**S2**		
***Scleria verticillata* Muhl. ex Willd.**	**Whorled Nutrush**	**G5**	**S2**		
***Sclerolepis uniflora* (Walt.) B.S.P.**	**One-flowered Sclerolepis**	**G4**	**S1**		
***Scutellaria galericulata* L.** syn: *S. epilobiifolia* A. Hamilton	**Hooded Skullcap**	**G5**	**S1**		
***Scutellaria incana* Biehler**	**Hoary Skullcap**	**G5**	**S2**		
***Senecio suaveolens* (L.) Elliott** syn: *Hasteola suaveolens* (L.) Pojark.	**Sweet-scented Indian-plantain**	**G4**	**S2**		
***Seymeria cassioides* (J.F. Gmel.) Blake**	**Senna Seymeria**	**G5**	**S1S2**		
***Sibbaldia tridentata* (Ait.) Paule & Soják** syn: *Potentilla tridentata* Ait.	**Three-toothed Cinquefoil**	**G5**	**S2**		
Sida elliottii* Torr. & Gray var. *elliottii Virginia material is referrable to *Sida inflexa* Fern., but treated here as an anomalous form of *S. elliottii* var. *elloittii*.	**Elliott's Sida**	**G4G5TNR**	**S1**		
***Sida hermaphrodita* (L.) Rusby**	**Virginia Sida**	**G3**	**S1**		
***Silene nivea* (Nutt.) Muhl. ex Otth**	**Snowy Campion**	**G4?**	**S1**	**NOTE!**	
***Silene ovata* Pursh**	**Mountain Catchfly**	**G3**	**S1**		
***Silene rotundifolia* Nutt.**	**Round-leaf Catchfly**	**G4**	**S2**		
***Silphium terebinthinaceum* Jacq.**	**Prairie Rosin Weed**	**G4G5**	**S1**		

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***Sisyrinchium albidum* Raf.**	**White Blue-eyed-grass**	**G5?**	**S2**		
***Smilax ecirrata* (Engelm. ex Kunth) S. Wats.**	**Upright Carrion-flower**	**G5?**	**S1**		
also spelled *ecirrhata*					
***Solidago latissimifolia* P. Mill.**	**Elliott's Goldenrod**	**G5**	**S2**		
syn: *S. elliottii* Torr. & Gray					
***Solidago racemosa* Greene**	**Sticky Goldenrod**	**G3?**	**S1**		
syn: *S. simplex* Kunth ssp. *randii* (Porter) Ringius var. *racemosa* (Greene) Ringius,					
syn: *S. simplex* Kunth var. *racemosa* (Greene) Ringius					
***Solidago randii* (Porter) Britt.**	**Rand's Goldenrod**	**G4**	**S2**		
syn: *S. simplex* Kunth ssp. *randii* (Porter) Ringius var. *randii*					
***Solidago rigida* L. var. *glabrata* E.L. Braun**	**Southeastern Stiff Goldenrod**	**G5T4**	**S1**		
syn: *Oligoneuron rigidum* (L.) var. *glabratum* (E.L. Braun) Nesom					
Solidago rigida* L.var. *rigida	**Stiff Goldenrod**	**G5T5**	**S2**		
syn: *Oligoneuron rigidum* (L.) Small var. *rigidum*					
***Solidago rupestris* Raf.**	**Riverbank Goldenrod**	**G4?**	**S1**		
Under *S. altissima* L. in Radford et al. (1968)					
Solidago salicina Ell.	**Southern Rough-leaved Goldenrod**	**G5**	**SH**		
syn: *Solidago patula* Muhl. ex Willd. var. *strictula* Torr. & Gray					
***Solidago stricta* Ait.**	**Southern Bog Goldenrod**	**G4?**	**S2**		
Includes *S. gracillima Torr. & Gray, S. perlonga* Fern.					
***Solidago tortifolia* Ell.**	**Twisted-leaf Goldenrod**	**G4G5**	**S1**		
Solidago uliginosa* Nutt. var. *uliginosa	**Bog Goldenrod**	**G4G5T4T5**	**S2**		
All Virginia *S. uliginosa* is var. *uliginosa*					
***Sparganium emersum* Rehmann**	**Narrow-leaf Bur-reed**	**G5**	**S1**		
***Spartina pectinata* Link**	**Freshwater Cordgrass**	**G5**	**S2**		
***Spermacoce glabra* Michx.**	**Smooth False Buttonweed**	**G4G5**	**S1**		
***Spermolepis divaricata* (Walt.) Raf. ex Ser.**	**Rough-fruit Scale-seed**	**G5**	**S1?**		
***Sphenopholis filiformis* (Chapman) Scribn.**	**Long-leaf Wedgegrass**	**G4?**	**SH**		
***Spiraea virginiana* Britt.**	**Virginia Spiraea**	**G2**	**S1**	**LT**	**LE**
***Spiranthes eatonii* Ames ex P.M. Brown**	**Eaton's Ladies'-tresses**	**G2G4**	**SH**		

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***Spiranthes lucida* (H.H. Eat.) Ames**	**Shining Ladies'-tresses**	**G5**	**S1S2**		
***Spiranthes magnicamporum* Sheviak**	**Great Plains Ladies'-tresses**	**G4**	**S1**		
***Spiranthes ochroleuca* (Rydb.) Rydb.**	**Yellow Nodding Ladies'-tresses**	**G4**	**S2**		
Sporobolus compositus* (Poir.) Merr. var. *compositus	**Tall Dropseed**	**G5T5**	**S2**		
syn: *S. asper* (Beauv.) Kunth, All Virginia *S. compositus* is var. *compositus*					
***Sporobolus heterolepis* (Gray) Gray**	**Prairie Dropseed**	**G5**	**S1**		
***Sporobolus junceus* (Beauv.) Kunth**	**Purple Dropseed**	**G5**	**S1**		
***Sporobolus neglectus* Nash**	**Small Dropseed**	**G5**	**S1**		
***Sporobolus ozarkanus* Fernald**	**Ozark Dropseed**	**G5?**	**S1**		
***Stachys appalachiana* D.B. Poindexter & J.B. Nelson**	**Appalachian Hedge-Nettle**	**GNR**	**S1**		
***Stachys arenicola* Britt.**	**Hairy Hedge-nettle**	**G4?**	**S1**		
Given as *S. palustris* L. in Harvill et al. (1992)					
***Stachys aspera* Michx.**	**Rough Hedge-nettle**	**G4?**	**S2**		
syn: *S. hyssopifolia* Michx. var. *ambigua* Gray					
***Stachys eplingii* J. Nelson**	**Epling's Hedge-nettle**	**G5**	**S1**		
***Stachys matthewsii* G.P. Fleming, J.B. Nelson, & J.F. Townsend**	**Yadkin Hedge-nettle**	**G1G2**	**S1**		
***Steinchisma hians* (Ell.) Nash**	**Gaping Panic Grass**	**G5**	**S1**		
syn: *Panicum hians* Ell.					
Stellaria alsine Grimm	**Bog Chickweed**	**G5**	**S1**		
***Stenanthium densum* (Desr.) Zomlefer & Judd**	**Dense-flowered Camas**	**G5**	**S1**		
***Stenanthium leimanthoides* (A. Gray) Zomlefer & Judd**	**Pinebarrens Death-camas**	**G4Q**	**S1**		
***Stewartia ovata* (Cav.) Weatherby**	**Mountain Camellia**	**G4**	**S2**		
Stillingia sylvatica* Garden ex L. ssp. *sylvatica	**Queen's-delight**	**G5T5**	**S1**		
Stipulicida setacea* Michx. var. *setacea	**Pineland Scalypink**	**G4G5T4T5**	**S1**		
***Streptopus amplexifolius* (L.) DC.**	**White Mandarin**	**G5**	**S1**		
***Stylophorum diphyllum* (Michx.) Nutt.**	**Celandine Poppy**	**G5**	**S2**		
***Sullivantia sullivantii* (Torr. & Gray) Britt.**	**Sullivantia**	**G4**	**S1**		
Symphoricarpos albus* (L.) Blake var. *albus	**Common Snowberry**	**G5T5**	**S1**		
All native Virginia *S. albus* is var. *albus*, non-native material is *S. albus* var. *laevigatus* (Fern.) Blake					
***Symphyotrichum elliottii* (Torr. & Gray) Nesom**	**Elliott's Aster**	**G4**	**S1**		
syn: *Aster puniceus* L. var. *elliottii* (Torr. & Gray) A.G. Jones					

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***Symphyotrichum praealtum* (Poiret) Nesom var. *angustior* (Wiegand) Nesom**	**Willow-leaf Aster**	**G5T4**	**S1**		
syn: *Aster praealtus* Poir. var. *angustior* Wieg.					
***Symphyotrichum pratense* (Raf.) Nesom**	**Western Silvery Aster**	**G4?**	**S1**		
syn: *Aster pratensis* Raf.					
syn: *A. sericeus* Vent. var. *microphyllus* DC.					
***Symphyotrichum shortii* (Lindl.) Nesom**	**Short's Aster**	**G5**	**S1**		
syn: *Aster shortii* Lindl.					
***Synandra hispidula* (Michx.) Baill.**	**Gyandotte Beauty**	**G4**	**S2**		
***Taxodium ascendens* Brongn.**	**Pondcypress**	**G5**	**S1**		
single tree remaining at only known site					
***Tetragonotheca helianthoides* L.**	**Squarehead**	**G5**	**S1**		
***Thalictrum macrostylum* Small & Heller**	**Small-leaved Meadow-rue**	**G3G4**	**S1**		
***Tillandsia usneoides* (L.) L.**	**Spanish-moss**	**G5**	**S1S2**		
***Toxicodendron rydbergii* (Small ex Rydb.) Greene**	**Western Poison Ivy**	**G5**	**S1**		
***Triantha glutinosa* (Michx.) Pers.**	**Sticky False Asphodel**	**G5**	**S1**		
syn: *Tofieldia glutinosa* (Michx.) Pers.					
***Triantha racemosa* (Walt.) B.S.P.**	**Coastal False Asphodel**	**G5**	**SH**		
syn: *Tofieldia racemosa* (Walt.) B.S.P.					
***Trichostema setaceum* Houtt.**	**Narrow-leaf Blue Curls**	**G5**	**S2**		
***Tridens chapmanii* (Small) Chase**	**Chapman's Purpletop**	**G3**	**SH**		
syn: *T. flavus* (L.) A.S. Hitchc. var. *chapmanii* (Small) Shinners,					
***Trifolium calcaricum* Collins and Wieboldt**	**Running Glade Clover**	**G1**	**S1**		**LE**
***Trifolium reflexum* L.**	**Buffalo Clover**	**G3G4**	**S1**		
***Trillium cernuum* L.**	**Nodding Trillium**	**G5**	**S2**		
***Trillium flexipes* Raf.**	**Drooping Trillium**	**G5**	**S1**		
***Trillium nivale* Riddell**	**Snow Trillium**	**G4**	**S1**		
***Trillium pusillum* Michx. var. *virginianum* Fern.**	**Virginia Least Trillium**	**G3T2**	**S2**		
Includes var. *moniticulum* Bodkin & Reveal					
Triphora trianthophora* (Sw.) Rydb. ssp. *trianthophora	**Three Birds Orchid**	**G3G4T3T4**	**S1**		
***Trisetum spicatum* (L.) Richter**	**Narrow False Oats**	**G5**	**S1**		
***Turritis glabra* L.**	**Tower Mustard**	**G5**	**S1**		
syn: *Arabis glabra* (L.) Bernh.					
***Utricularia juncea* Vahl**	**Southern Bladderwort**	**G5**	**S1**		
***Utricularia olivacea* C. Wright ex Griseb.**	**Dwarf Bladderwort**	**G4**	**SH**		
***Utricularia purpurea* Walt.**	**Purple Bladderwort**	**G5**	**S2**		

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Utricularia striata **Le Conte ex Torr.**	**Fibrous Bladderwort**	**G4G5**	**S1**		
syn: *U. fibrosa* Walt.					
Vaccinium crassifolium **Andr.**	**Creeping Blueberry**	**G4G5**	**S1**		
Vaccinium macrocarpon **Ait.**	**Cranberry**	**G4**	**S2**		
Vaccinium myrtilloides **Michx.**	**Velvetleaf Blueberry**	**G5**	**S1**		
Valeriana pauciflora **Michx.**	**Pink Valerian**	**G4**	**S1**		
Valerianella chenopodiifolia **(Pursh) A.P. de Candolle**	**Goosefoot Corn-salad**	**G5**	**SH**		
Vandenboschia boschiana **(Sturm) Ebihara & K. Iwatsuki**	**Appalachian Filmy Fern**	**G4**	**S1**		
syn: *Trichomanes boscianum* Sturm					
Verbena scabra **Vahl**	**Rough Vervain**	**G5**	**S1**		
Veronica scutellata **L.**	**Marsh Speedwell**	**G5**	**S1**		
Viburnum lentago **L.**	**Nannyberry**	**G5**	**S1**		
Vicia americana **Muhl. ex Willd. var.** ***americana***	**American Vetch**	**G5T5**	**S1**		
All Virginia *V. americana* is var. *americana*					
Viola pedatifida **G. Don**	**Prairie Violet**	**G5**	**S1**		
Viola **sp. nov.**	**A Violet**	**GNR**	**S1**		
Viola tripartita **Ell. var.** ***glaberrima*** **(DC.) R.M. Harper**	**Three-parted Violet**	**G5TNR**	**S1**		
Viola walteri **House var.** ***walteri***	**Prostrate Blue Violet**	**G4G5TNR**	**S2**		
Vitis palmata **Vahl**	**Red Grape**	**G4**	**S1**		
Vitis rupestris **Scheele**	**Sand Grape**	**G3**	**S1**		
Wisteria frutescens **(L.) Poir.**	**American Wisteria**	**G5**	**S1**		
Wolffia columbiana **Karst.**	**Columbian Watermeal**	**G5**	**S1**		
Xyris caroliniana **Walt.**	**Carolina Yellow-eyed Grass**	**G4G5**	**S1**		
Xyris curtissii **Malme**	**Curtiss' Yellow-eyed Grass**	**G5**	**S1**		
syn: *X. difformis* Chapman var. *curtisii* (Malme) Kral					
Xyris fimbriata **Ell.**	**Fringed Yellow-eyed Grass**	**G5**	**S1**		
Xyris iridifolia **Chapman**	**Iris-leaf Yellow-eyed Grass**	**G4G5**	**S1**		
syn: *Xyris laxifolia* Mart. var. *iridifolia* (Chapman) Kral					
Xyris platylepis **Chapman**	**Tall Yellow-eyed Grass**	**G5**	**S2**		
Yucca aloifolia **L.**	**Spanish Dagger**	**G5**	**S1**		
Zenobia pulverulenta **(Bartr. ex Willd.) Pollard**	**Dusty Zenobia**	**G4?**	**S1**		
Zigadenus glaberrimus **Michx.**	**Large Death-camas**	**G5**	**S1**		
Zornia bracteata **J.F. Gmel.**	**Viperina**	**G5?**	**S1**		

PART TWO:
VASCULAR PLANT WATCH LIST

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
Acalypha deamii **(Weatherby) Ahles**	**Deam's Copperleaf**	**G4?**	**S3**		
Aconitum reclinatum **Gray**	**White Monkshood**	**G3**	**S3**		
Adlumia fungosa **(Ait.) Greene ex B.S.P.**	**Climbing Fumitory**	**G4**	**S3**		
Agrostis scabra **Willd.**	**Rough Bentgrass**	**G5**	**S3?**		
Amelanchier sanguinea **(Pursh) DC.**	**Roundleaf Serviceberry**	**G5**	**S3**		
Ampelopsis arborea **(L.) Koehne**	**Peppervine**	**G5**	**S3**		
Amsonia tabernaemontana **Walt. var. *tabernaemontana***	**Eastern Blue-star**	**G5T5**	**S3**		
Andropogon perangustatus **Nash**	**Narrow-leaved Bluestem**	**G4**	**S3**		
syn: A. *gyrans* Ashe var. *stenophyllus* (Hack.) C. Campbell					
Andropogon virginicus **L. var. *decipiens* C. Campbell**	**Deceptive Bluestem**	**G5T4**	**S3**		
Under *A. virginicus* L. in Radford *et al.* (1968), Under *A. virginicus* L. var. *virginicus* in Fernald (1950)					
Anemone quinquefolia **L. var. *minima* (DC.) Frodin**	**Dwarf Anemone**	**G5T3**	**S3**		
Anticlea glauca **Kunth**	**White Death-camas**	**G4G5**	**S3**		
syn: *Zigadenus elegans* Pursh ssp. *glaucus* (Nutt.) Hulten					
Aristida lanosa **Muhl. ex Ell.**	**Woolly Three-awn Grass**	**G5**	**S3**		
Aristida tuberculosa **Nutt.**	**Sea-beach Needlegrass**	**G5**	**S3**		
Asclepias incarnata **L. var. *incarnata***	**Swamp Milkweed**	**G5T5**	**S3**		
Asclepias lanceolata **Walt.**	**Few-flower Milkweed**	**G5**	**S3**		
Asimina parviflora **(Michx.) Dunal**	**Dwarf Pawpaw**	**G5**	**S3**		
Bacopa monnieri **(L.) Pennell**	**Coastal Water-hyssop**	**G5?**	**S3**		
Baptisia australis **(L.) R. Br. ex Ait. f. var. *australis***	**Blue Wild Indigo**	**G5T3T4**	**S3**		
Bartonia paniculata **(Michx.) Muhl. ssp. *paniculata***	**Twining Bartonia**	**G5T5**	**S3**		
Blephilia hirsuta **(Pursh) Benth.**	**Hairy Wood Mint**	**G5?**	**S3**		
Bolboschoenus novae-angliae **(Britt.) S.G. Sm.**	**New England Bulrush**	**G5**	**S3**		
syn: *Schoenoplectus novae-angliae* (Britt.) M.T. Strong					
Bulbostylis ciliatifolia **(Ell.) Fern.**	**Savanna Hairsedge**	**G3G5**	**S3?**		
Bulbostylis coarctata **(Ell.) Fern.**	**Elliott's Hairsedge**	**G3G5**	**S3**		
syn: *Bulbostylis ciliatifolia* (Ell.) Fern. var. *coarctata* (Ell.) Kral					
Callitriche palustris **L.**	**Vernal Water-starwort**	**G5**	**S3**		
syn: *C. verna* L.					
Cardamine douglassii **Britt.**	**Purple Cress**	**G5**	**S3**		
Carex austrodeflexa **P.D. McMillan, Sorrie, & van Eerden**	**Canebrake Sedge**	**G3G4**	**S3S4**		

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
***Carex canescens* L. var. *disjuncta* (Fern.) Toivonen**	**Silvery Sedge**	**G5T5**	**S3**		
***Carex careyana* Torr. ex Dewey**	**Carey's Sedge**	**G4G5**	**S3**		
***Carex collinsii* Nutt.**	**Collins's Sedge**	**G4**	**S3**		
***Carex conjuncta* Boott**	**Soft Fox Sedge**	**G4G5**	**S3**		
***Carex floridana* Schwein.**	**Florida Sedge**	**G5?**	**S3**		
syn: *Carex nigromarginata* Schwein. var. *floridana* (Schwein.) Kukenth.					
***Carex fraseriana* Ker-Gawl.**	**Fraser's Sedge**	**G4**	**S3**		
syn: *Cymophyllus fraserianus* (Ker-Gawl.) Kartesz & Ghandi					
***Carex leptonervia* (Fern.) Fern.**	**Finely-nerved Sedge**	**G4**	**S3**		
***Carex lucorum* Willd. ex Link var. *austrolucorum* J. Rettig**	**Appalachian Woodland Sedge**	**G4T3T4**	**S3**		
syn: *C. pensylvanica* Lam. var. *distans* Peck					
***Carex meadii* Dewey**	**Mead's Sedge**	**G4G5**	**S3**		
Carex pedunculata* Muhl. ex Willd. var. *pedunculata	**Long-stalk Sedge**	**G5TNR**	**S3**		
***Carex pellita* Muhl. ex Willd.**	**Woolly Sedge**	**G5**	**S3**		
***Carex purpurifera* Mackenzie**	**Limestone Purple Sedge**	**G4?**	**S3**		
***Carex ruthii* Mackenzie**	**Ruth's Sedge**	**G3**	**S3**		
Under *C. muricata* L. in Harvill *et al*. (1992) and Radford *et al*. (1968)					
***Carex shortiana* Dewey**	**Short's Sedge**	**G5**	**S3**		
***Carex striata* Michx. var. *brevis* Bailey**	**Walter's Sedge**	**G4G5T4?**	**S3**		
syn: *C. walteriana* Bailey var. *brevis* (Bailey) Bailey					
All Virginia *C. striata* is var. *brevis*					
***Carex suberecta* (Olney) Britt.**	**Prairie Straw Sedge**	**G4**	**S3**		
***Carex superata* Naczi, Reznicek, & B.A. Ford**	**Limestone Forest Sedge**	**G4?**	**S3**		
***Carex tetanica* Schkuhr**	**Rigid Sedge**	**G4G5**	**S3**		
Carex trisperma* Dewey var. *trisperma	**Three-seeded Sedge**	**G5T5**	**S3**		
***Carex venusta* Dewey**	**Dark Green Sedge**	**G4**	**S3?**		
***Castilleja coccinea* (L.) Spreng.**	**Eastern Indian Paintbrush**	**G5**	**S3**		
***Cenchrus incertus* M.A. Curtis**	**Coastal Sandbur**	**GNR**	**S3**		
syn: *C. spinifex* Cav.					
***Chamaecrista fasciculata* (Michx.) Greene var. *macrosperma* (Fern.) C.F. Reed**	**Marsh Patridge-pea**	**G5T3**	**S3**		
syn: *Cassia fasciculata* Michx. var. *macrosperma* Fern.					
***Chamaecyparis thyoides* (L.) B.S.P.**	**Atlantic White-cedar**	**G4**	**S3**		
***Chaerophyllum procumbens* (L.) Crantz var. *shortii* Torr. & Gray**	**Short's Spreading Chervil**	**G5T3T4Q**	**S3?**		

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***Chenopodium simplex* (Torr.) Raf.**	**Maple-leaf Goosefoot**	**G5**	**S3**		
Under *C. hybridum* L. in Fernald (1950), syn: *C. gigantospermum* Aellen					
***Chrysogonum virginianum* L. var. *brevistolon* Nesom**	**Carolina Green-and-gold**	**G5TNR**	**S3**		
***Cinna latifolia* (Trev. ex Goepp.) Griseb.**	**Slender Wood Reedgrass**	**G5**	**S3**		
***Clematis albicoma* Wherry**	**White-haired Leatherflower**	**G4**	**S3**		
***Clematis coactilis* (Fern.) Keener**	**Virginia White-haired Leatherflower**	**G3**	**S3**		
***Clematis crispa* L.**	**Marsh Swamp Leatherflower**	**G5**	**S3**		
***Coleataenia longifolia* (Torrey) Soreng ssp. *combsii* (Scribn. & C.R. Ball) Soreng**	**Combs' Panic Grass**	**G5T5?**	**S3?**		
syn: *Panicum longifolium* Torrey var. *combsii* (Scribn. & Ball) Fern.					
***Corallorrhiza wisteriana* Conrad**	**Spring Coralroot**	**G5**	**S3**		
***Croptilon divaricatum* (Nutt.) Raf.**	**Scratch Daisy**	**G4G5**	**S3**		
syn: *Haplopappus divaricatus* (Nutt.) Gray					
***Croton monanthogynus* Michx.**	**Prairie Tea**	**G5**	**S3**		
***Cyperus haspan* L.**	**Sheathed Flatsedge**	**G5**	**S3**		
***Cyperus refractus* Engelm. ex Boeckl.**	**Reflexed Flatsedge**	**G5**	**S3**		
***Delphinium exaltatum* Ait.**	**Tall Larkspur**	**G3**	**S3**		
***Dendrolycopodium dendroideum* (Michx.) A. Haines**	**Prickly Tree-clubmoss**	**G5**	**S3**		
syn: *Lycopodium dendroideum* Michx.					
***Dendrolycopodium hickeyi* (W.H. Wagner, Beitel & Moran) A. Haines**	**Hickey's Tree-clubmoss**	**G5**	**S3?**		
syn: *Lycopodium hickeyi* W.H. Wagner, Beitel, & Moran					
***Descurainia pinnata* (Walt.) Britt. var. *brachycarpa* (Richards.) Detling**	**Western Tansy Mustard**	**G5T5**	**S3?**		
***Desmodium fernaldii* Schub.**	**Fernald's Tick-trefoil**	**G4**	**S3**		
***Desmodium lineatum* DC.**	**Sand Tick-trefoil**	**G5**	**S3**		
***Diarrhena americana* Beauv.**	**American Beakgrain**	**G4G5**	**SNA**		
Does not include *D. obovata* (Gleason) Brandenburg					
***Dichanthelium fusiforme* (Hitchcock) Harvill**	**Spindle-fruited Panic Grass**	**G5?**	**S3**		
syn: *Panicum fusiforme* A.S. Hitchc., Under *D. aciculare* (Desv. ex Poir.) Gould & C.A. Clark in Kartesz (1999)					
***Dichanthelium portoricense* (Desv. ex Ham.) B.F. Hansen & Wunderlin ssp. *patulum* (Scribn. & Merr.) Freckmann & LeLong**	**Hemlock Panic Grass**	**G5T5**	**S3**		
syn: *Panicum lancearium* Trin.					

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
***Dichanthelium ravenelii* (Scribn. & Merr.) Gould**	**Ravenel's Panic Grass**	**G5**	**S3**		
syn: *Pancium ravenelii* Scribn. & Merr.					
***Dichanthelium scabriusculum* (Ell.) Gould & C.A. Clark**	**Tall Swamp Panic Grass**	**G4**	**S3**		
syn: *Panicum scabriusculum* Ell.					
syn: Panicum aculeatum A.S. Hitchc. & Chase,					
***Dichanthelium wrightianum* (Scribn.) Freckmann**	**Wright's Panic Grass**	**G4**	**S3**		
syn: *Panicum wrightianum* Scribn.					
***Dicliptera brachiata* (Pursh) Spreng.**	**Branched Dicliptera**	**G5**	**S3**		
***Diphylleia cymosa* Michx.**	**Umbrella-leaf**	**G4**	**S3**		
***Drosera brevifolia* Pursh**	**Dwarf Sundew**	**G5**	**S3**		
syn: *D. leucantha* Shinners					
***Drosera capillaris* Poir.**	**Pink Sundew**	**G5**	**S3**		
***Drosera intermedia* Hayne**	**Water Sundew**	**G5**	**S3**		
***Dryopteris campyloptera* Clarkson**	**Mountain Wood Fern**	**G5**	**S3**		
syn: D. *spinulosa* (O.F. Muell.) Watt var. *americana* (Fisch.) Fern.					
***Echinodorus cordifolius* (L.) Griseb.**	**Creeping Burhead**	**G5**	**S3**		
***Eleocharis albida* Torr.**	**White Spikerush**	**G4G5**	**S3**		
***Eleocharis palustris* (L.) Roemer & J.A. Schultes**	**Common Spikerush**	**G5**	**S3?**		
***Eleocharis rostellata* (Torr.) Torr.**	**Beaked Spikerush**	**G5**	**S3**		
***Erigenia bulbosa* (Michx.) Nutt.**	**Harbinger-of-spring**	**G5**	**S3**		
***Eriophorum virginicum* L.**	**Tawny Cottongrass**	**G5**	**S3**		
***Eurybia spectabilis* (Ait.) Nesom**	**Showy Aster**	**G5**	**S3**		
syn: Aster spectabilis Ait. var. *spectabilis* and var. *suffultus* Fern.					
Under *A spectabilis* Ait. in Radford *et al.* (1968)					
***Fallopia cilinodis* (Michx.) Holub**	**Fringed Bindweed**	**G5**	**S3**		
syn: *Polygonum cilinode* Michx.					
***Floerkea proserpinacoides* Willd.**	**False Mermaid**	**G5**	**S3**		
***Fraxinus nigra* Marsh.**	**Black Ash**	**G5**	**S3**		
***Fraxinus quadrangulata* Michx.**	**Blue Ash**	**G5**	**S3**		
***Galium boreale* L.**	**Northern Bedstraw**	**G5**	**S3**		
***Galium hispidulum* Michx.**	**Coastal Bedstraw**	**G5**	**S3**		
***Gentiana austromontana* Pringle & Sharp**	**Appalachian Gentian**	**G3**	**S3?**		
***Geranium robertianum* L.**	**Herb Robert**	**G5**	**S3**		
***Glyceria acutiflora* Torr.**	**Sharp-scaled Mannagrass**	**G5**	**S3**		
***Glyceria canadensis* (Michx.) Trin.**	**Canada Mannagrass**	**G5**	**S3**		
***Gymnocarpium appalachianum* Pryer & Haufler**	**Appalachian Oak Fern**	**G3**	**S3**		
***Gymnocladus dioicus* (L.) K. Koch**	**Kentucky Coffee-tree**	**G5**	**S3**		

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***Gymnopogon brevifolius* Trin.**	**Short-leaf Beard Grass**	**G5**	**S3**		
***Helianthus hirsutus* Raf.**	**Hairy Sunflower**	**G5**	**S3**		
***Heuchera hispida* Pursh**	**Purple Alumroot**	**G3?**	**S3?**		
***Heuchera parviflora* Bartl.**	**Small-flowered Alumroot**	**G4**	**S3**		
Hexalectris spicata* (Walt.) Barnh. var. *spicata	**Crested Coralroot**	**G5T4T5**	**S3**		
***Hexastylis lewisii* (Fern.) Blomquist & Oosting**	**Lewis's Heartleaf**	**G3**	**S3**		
***Hottonia inflata* Ell.**	**Featherfoil**	**G4**	**S3**		
***Hydrastis canadensis* L.**	**Golden-seal**	**G3G4**	**S3**		
***Hydrolea quadrivalvis* Walt.**	**Waterpod**	**G5**	**S3**		
***Hypericum drummondii* (Grev. & Hook.) Torr. & Gray**	**Nits-and-lice**	**G5**	**S3**		
***Hypericum mitchellianum* Rydb.**	**Blue Ridge St. John's-wort**	**G3**	**S3**		
***Hypericum virgatum* Lam.** syn: H. *denticulatum* Walt. var. *acutifolium* (Ell.) Blake	**Sharp-leaf St. John's-wort**	**G4?**	**S3**		
***Hypoxis curtissii* Rose in Small**	**Curtiss' Yellow Stargrass**	**G4?**	**S3**		
***Ilex vomitoria* Ait.**	**Yaupon**	**G5**	**S3**		
***Iresine rhizomatosa* Standl.**	**Eastern Bloodleaf**	**G5**	**S3**		
***Iris prismatica* Pursh ex Ker-Gwal.**	**Slender Blue Iris**	**G4G5**	**S3**		
***Iris versicolor* L.**	**Larger Blue Flag**	**G5**	**S3**		
***Isoetes riparia* Engelm. ex A. Braun**	**Shore Quillwort**	**G5**	**S3**		
***Juglans cinerea* L.**	**Butternut**	**G4**	**S3?**		
***Juncus longii* Fern.**	**Long's Rush**	**G3Q**	**S3?**		
Justicia ovata* (Walt.) Lindau var. *ovata	**Coastal Plain Water-willow**	**G5T4T5**	**S3**		
***Lechea maritima* Leggett ex B.S.P. var. *virginica* Hodgon**	**Virginia Beach Pinweed**	**G5T3Q**	**S3**		
***Leptochloa fascicularis* (Lam.) Gray** syn: *L. fusca* (L.) Kunth ssp. *fascicularis* (Lam.) N. Snow	**Bearded Sprangletop**	**G5**	**S3**		
***Liatris helleri* T.C. Porter**	**Heller's Blazing Star**	**GNR**	**S3**		
***Lilium philadelphicum* L.**	**Wood Lily**	**G5**	**S3**		
***Linum sulcatum* Riddell**	**Grooved Yellow Flax**	**G5**	**S3**		
***Listera smallii* Wieg.**	**Appalachian Twayblade**	**G4**	**S3**		
***Lithospermum latifolium* Michx.**	**American Gromwell**	**G4**	**S3**		
***Lithospermum tuberosum* Rugel ex DC.**	**Tuberous Gromwell**	**G4**	**S3**		
***Lonicera canadensis* Bartr. ex Marsh.**	**American Fly-honeysuckle**	**G5**	**S3**		
***Ludwigia glandulosa* Walt.**	**Cylindric-fruited Primrose-willow**	**G5**	**S3**		

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***Ludwigia leptocarpa* (Nutt.) Hara**	**Angle-stem Primrose-willow**	**G5**	**S3**		
***Ludwigia sphaerocarpa* Ell.**	**Globe-fruited Seedbox**	**G5**	**S3**		
***Lygodium palmatum* (Bernh.) Sw.**	**American Climbing Fern**	**G4**	**S3**		
***Malaxis spicata* Sw.**	**Florida Adder's-mouth**	**G4?**	**S3**		
syn: M. *floridana* (Chapman) Kuntze					
***Meehania cordata* (Nutt.) Britt.**	**Meehan's Mint**	**G5**	**S3**		
***Micranthes caroliniana* (A. Gray) Small**	**Carolina Saxifrage**	**G3**	**S3**		
syn: *Saxifraga caroliniana* Gray					
***Milium effusum* L. var. *cisatlanticum* Fern.**	**Tall Millet Grass**	**G5TNR**	**S3**		
***Monotropsis odorata* Schwein. *ex* Ell.**	**Sweet Pinesap**	**G3**	**S3**		
***Myriophyllum pinnatum* (Walt.) B.S.P.**	**Cut-leaf Water-milfoil**	**G5**	**S3**		
***Nabalus roanensis* Chickering**	**Roan Mountain Rattlesnake-root**	**G3**	**S3**		
syn: *Prenanthes roanensis* (Chickering) Chickering					
***Nelumbo lutea* Willd.**	**American Lotus**	**G4**	**S3**		
***Ophioglossum engelmannii* Prantl**	**Engelmann's Adder's-tongue**	**G5**	**S3**		
Packera paupercula (*Michx) Á. & D. Löve var. *paupercula	**Balsam Ragwort**	**G5TNR**	**S3?**		
syn: Senecio pauperculus Michx.					
***Panax quinquefolius* L.**	**Ginseng**	**G3G4**	**S3S4**		**LT**
***Paronychia baldwinii* (Torr. & Gray) Fenzl ex Walp.ssp. *riparia* (Chapman) Chaudhri**	**Baldwin's Nailwort**	**G4T4?**	**S3**		
syn: P. *riparia* Torr. & Gray, All Virginia *P. baldwinii* is ssp. *riparia*					
***Parthenium integrifolium* L. var. *mabryanum* Mears**	**Mabry's Wild Quinine**	**G5T3**	**S3?**		
***Paspalum boscianum* Fluegge**	**Bull Paspalum**	**G5**	**S3**		
***Pedicularis lanceolata* Michx.**	**Swamp Lousewort**	**G5**	**S3**		
Pellaea glabella* Mett. ex Kuhn ssp. *glabella	**Smooth Cliff-brake**	**G5T5**	**S3**		
All Virginia *P. glabella* is ssp. *glabella*					
***Penstemon hirsutus* (L.) Willd.**	**Hairy Beard-tongue**	**G4**	**S3**		
***Phacelia purshii* Buckl.**	**Miami-mist**	**G5**	**S3**		
***Philadelphus hirsutus* Nutt.**	**Hairy Mock Orange**	**G5**	**S3**		
***Phlox nivalis* Lodd. ex Sweet**	**Trailing Phlox**	**G4**	**S3**		
***Phragmites australis* (Cav.) Trin. ex Steud. ssp. *americanus* Saltonstall, P.M. Peterson, & Soreng**	**American Common Reed**	**G5T4**	**S3**		
***Physalis walteri* Nutt.**	**Dune Ground-cherry**	**G4**	**S3**		
syn: *P. maritima* M.A. Curtiss,					
syn: *P. viscosa* L. ssp. *maritima* (M.A. Curtiss) Waterfall					

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***Physostegia leptophylla* Small**	**Slender-leaf False Dragonhead**	**G4?**	**S3**		
Given as *Dracocephalum purpureum* (Walt.) McClintock ex Gleason in Radford et al. (1968)					
Platanthera flava* (L.) Lindl. var. *flava	**Southern Rein Orchid**	**G4?T4?Q**	**S3?**		
syn: *Habenaria flava* (L.) R. Br. var. *flava*					
***Platanthera flava* (L.) Lindl. var. *herbiola* (R. Br. ex Ait. f.) Luer**	**Tubercled Rein Orchid**	**G4?T4Q**	**S3?**		
syn: *Habenaria flava* (L.) R. Br. var. *herbiola* (R. Br.) Ames & Correll					
***Pogonia ophioglossoides* (L.) Ker-Gawl.**	**Rose Pogonia**	**G5**	**S3**		
***Polygala cruciata* L.**	**Cross-leaved Milkwort**	**G5**	**S3?**		
***Polygonella articulata* (L.) Meisn.**	**Coastal Jointweed**	**G5**	**S3**		
***Polygonum ramosissimum* Michx.**	**Bushy Knotweed**	**G5**	**S3**		
***Ponthieva racemosa* (Walt.) C. Mohr**	**Shadow Witch Orchid**	**G4G5**	**S3**		
***Potamogeton perfoliatus* L.**	**Perfoliate Pondweed**	**G5**	**S3**		
Given as *P. perfoliatus* L. var. *bupleuroides* (Fern.) Farw. in Radford et al. (1968), and Fernald (1950)					
***Prosartes maculata* (Buckl.) Gray**	**Spotted Mandarin**	**G3G4**	**S3**		
syn: *Disporum maculatum* (Buckl.) Britt.					
Prunus alleghaniensis* Porter var. *alleghaniensis	**Allegheny Plum**	**G4T4**	**S3**		
All Virginia *P. alleghaniensis* is var. *alleghaniensis*					
***Quercus laevis* Walt.**	**Turkey Oak**	**G5**	**S3**		
***Quercus margarettiae* Ashe ex Small**	**Sand Post Oak**	**G5**	**S3**		
syn: Q. *stellata* Wangenh. var. *margaretta* (Ashe ex Small) Sarg.					
***Quercus virginiana* P. Mill.**	**Live Oak**	**G5**	**S3**		
Rhamnus lanceolata* Pursh var. *lanceolata	**Lance-leaf Buckthorn**	**G5T4T5**	**S3**		
***Rhododendron cumberlandense* E.L. Braun**	**Cumberland Azalea**	**G4?**	**S3**		
***Rhynchospora caduca* Ell.**	**Angle-stem Beaksedge**	**G5**	**S3**		
Rhynchospora cephalantha* Gray var. *cephalantha	**Common Bunched Beaksedge**	**G5T4T5**	**S3**		
***Rhynchospora macrostachya* Torr. ex Gray**	**Horned Beaksedge**	**G4**	**S3**		
***Rhynchospora perplexa* Britt.**	**Pineland Beaksedge**	**G5**	**S3**		
***Rhynchospora rariflora* (Michx.) Ell.**	**Few-flowered Beaksedge**	**G5**	**S3**		
***Ribes glandulosum* Grauer**	**Skunk Currant**	**G5**	**S3**		
***Ruellia humilis* Nutt.**	**Low Wild-petunia**	**G5**	**S3**		
***Ruellia purshiana* Fern.**	**Pursh's Wild-petunia**	**G3**	**S3**		
***Sabatia brachiata* Ell.**	**Narrow-leaf Rose-pink**	**G5?**	**S3**		

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
***Sabatia calycina* (Lam.) Heller**	**Coastal Rose-pink**	**G5?**	**S3**		
***Sabatia dodecandra* (L.) B.S.P.**	**Large Marsh-pink**	**G5?**	**S3**		
***Scirpus divaricatus* Ell.**	**Spreading Bulrush**	**G5**	**S3**		
***Scirpus hattorianus* Makino**	**Northern Bulrush**	**G5**	**S3**		
***Scirpus lineatus* Michx.**	**Drooping Bulrush**	**G4**	**S3**		
syn: S. *fontinalis* Harper					
Does not include *S. pendulus* Muhl.					
Scutellaria saxatilis Riddell	**Rock Skullcap**	**G3**	**S3**		
***Sesuvium maritimum* (Walt.) B.S.P.**	**Small Sea-purslane**	**G5**	**S3**		
***Sideroxylon lycioides* L.**	**Buckthorn Bumelia**	**G5**	**S3**		
syn: *Bumelia lycioides* (L.) Pers.					
***Sisyrinchium fuscatum* Bickn.**	**Coastal Plain Blue-eyed-grass**	**G5?**	**S3**		
syn: S. *arenicola* Bickn.					
***Solidago faucibus* Wieboldt**	**Gorge Goldenrod**	**G2G4**	**S3**		
***Solidago flaccidifolia* Small**	**Mountain Goldenrod**	**G5**	**S3?**		
syn: *S. curtisii* Torr. & Gray var. *flaccidifolia* (Small) Cook & Semple					
***Solidago hispida* Muhl. ex Willd.**	**Hairy Goldenrod**	**G5**	**S3**		
***Solidago tarda* Mackenzie**	**Sandhill Goldenrod**	**G4?Q**	**S3?**		
Under *S. arguta* in Radford et al. (1968)					
Under *S. arguta* var. *arguta* in Kartesz (1999)					
syn: S. *ludoviciana* (Gray) Small					
***Sparganium eurycarpum* Engelm. ex Gray**	**Giant Bur-reed**	**G5**	**S3**		
***Spinulum annotinum* (L.) A. Haines**	**Stiff Clubmoss**	**G5**	**S3?**		
syn: *Lycopodium annotinum L.*					
***Spiranthes odorata* (Nutt.) Lindl.**	**Fragrant Ladies'-tresses**	**G5**	**S3**		
syn: S. *cernua* (L.) L.C. Rich var. *odorata* (Nutt.) Correll					
***Stachys hyssopifolia* Michx.**	**Hyssop-leaf Hedge-nettle**	**G4G5**	**S3**		
syn: *Stachys hyssopifolia* Michx. var. *hyssopifolia*					
***Stachys latidens* Small ex Britt.**	**Broad-tooth Hedge-nettle**	**G4G5**	**S3**		
***Stellaria corei* Shinners**	**Tennessee Starwort**	**G4**	**S3**		
syn: *Stellaria pubera* Michx. var. *sylvatica* (Beguinot) Weath.					
***Stewartia malacodendron* L.**	**Silky Camellia**	**G4**	**S3**		
Styrax americanus* Lam. var. *americanus	**American Snowbell**	**G5TNR**	**S3**		
***Styrax grandifolius* Ait.**	**Bigleaf Snowbell**	**G5**	**S3**		
***Suaeda linearis* (Ell.) Moq.**	**Tall Sea-blite**	**G5**	**S3**		
Symphyotrichum ericoides* (L.) Nesom var. *ericoides	**White Heath Aster**	**G5T5**	**S3**		
syn: *Aster ericoides L.*					
***Symphyotrichum urophyllum* (Lindl.) G.L. Nesom**	**Arrow-leaved Aster**	**G4G5**	**S3**		
***Taenidia montana* (Mackenzie) Cronq.**	**Mountain Pimpernel**	**G3**	**S3**		

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
***Taxus canadensis* Marshall**	**Canada Yew**	**G5**	**S3**		
***Thermopsis mollis* (Michx.) M.A. Curtis ex Gray**	**Appalachian Golden-banner**	**G3G4**	**S3**		
***Tradescantia subaspera* Ker-Gawl.**	**Zigzag Spiderwort**	**G5**	**S3**		
***Tragia urticifolia* Michx.**	**Nettle-leaf Noseburn**	**G5**	**S3**		
***Trifolium virginicum* Small ex Small & Vail**	**Kates Mountain Clover**	**G3**	**S3**		
Only piedmont occurrences are tracked.					
***Triglochin striata* Ruiz & Pavon**	**Southern Arrowgrass**	**G5**	**S3**		
Triosteum aurantiacum* Bickn. var. *aurantiacum	**Orange-fruited Horse-gentian**	**G5T5**	**S3**		
***Tsuga caroliniana* Engelmann**	**Carolina Hemlock**	**G3**	**S3**		
***Typha domingensis* Pers.**	**Southern Cattail**	**G4G5**	**S3?**		
***Uniola paniculata* L.**	**Sea Oats**	**G5**	**S3**		
***Utricularia geminiscapa* Benj.**	**Two-flowered Bladderwort**	**G4G5**	**S3**		
***Utricularia macrorhiza* Le Conte**	**Common Bladderwort**	**G5**	**S3**		
syn: *U. vulgaris* L.					
***Utricularia radiata* Small**	**Floating Bladderwort**	**G4**	**S3**		
syn: *U. inflata* Walt. var. *minor* Chapman					
Verbesina virginica* L. var. *virginica	**White Crownbeard**	**G5?T5?**	**S3**		
All Virginia *V. virginica* is var. *virginica*					
***Viola brittoniana* Pollard**	**Coast Violet**	**G4G5**	**S3?**		
***Viola esculenta* Ell.**	**Salad Violet**	**G4G5**	**S3**		
syn: *Viola ×esculenta* Ell. (pro sp.) Under *V. septemloba* Le Conte in Radford et al. (1968)					
***Viola macloskeyi* F. Lloyd var. *pallens* (Banks ex A.P. de Candolle) C.L. Hitchcock**	**Smooth White Violet**	**G5T5**	**S3**		
***Viola septentrionalis* Greene**	**Northern Blue Violet**	**G5**	**S3**		
***Wolffiella gladiata* (Hegelm.) Hegelm.**	**Sword Bogmat**	**G5**	**S3**		
syn: *W. floridana* (J.D. Sm.) J.D. Sm. Ex Hegelm.					
***Zanthoxylum americanum* P. Mill.**	**Toothache Tree**	**G5**	**S3**		
syn: *Xanthoxylum americanum* P. Mill.					
***Zanthoxylum clava-herculis* L.**	**Hercules'-club**	**G4**	**S3**		
syn: *Xanthoxylum clava-herculis* L.					

PART THREE:

VASCULAR PLANT REVIEW LIST
(Taxa of Uncertain Status)

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
***Agalinis fasciculata* (Ell.) Raf.** syn: *Gerardia fasciculata* (Ell.) Raf.	**Tall False Foxglove**	**G5**	**SU**		
***Agrostis altissima* (Walt.) Tuckerman** Under *A. perennans* (Walt.) Tuckerman in Radford *et al.* (1968) and Kartesz (1999)	**Coastal Bog Bentgrass**	**G4**	**SNR**		
***Allium burdickii* (Hanes) A.G. Jones**	**Narrow-leaved ramps**	**G4G5**	**SU**		
Alopecurus aequalis* Sobol. var. *aequalis	**Short-awn Foxtail Grass**	**G5T5**	**SNA**		
***Ampelopsis cordata* Michx.**	**Heart-leaf Peppervine**	**G5**	**SNR**		
***Andropogon glaucopsis* Ell.** syn: *A. virginicus* L. var. *glaucopsis* (Ell.) A.S. Hitchc. syn: A. *glomeratus* (Walt.) Britt. var. *glaucopsis* (Ell.) A.S. Hitchc., Under *A. virginicus* L. in Radford *et al.* (1968)	**Chalky Bluestem**	**G3G5**	**SNR**		
***Andropogon tenuispatheus* (Nash) Nash** syn: *A. glomeratus* (Walt.) Britt. var. *pumilus* Vasey ex Dewey Under *A. virginicus* L. in Radford *et al.* (1968)	**Maritime Bushy Bluestem**	**G5**	**SU**		
***Antennaria howellii* Greene ssp. *petaloidea* (Fern.) Bayer** syn: *A. petaloidea* (Fern.) Fern.	**Small Pussytoes**	**G5T4T5**	**SU**		
***Arisaema triphyllum* (L.) Schott ssp. *stewardsonii* (Britt.) Huttleston** syn: *A. stewardsonii* Britt. Under *A. triphyllum* (L.) Schott in Radford *et al.* (1968)	**Bog Jack-in-the-pulpit**	**G5T4T5**	**SU**		
***Asarum canadense* L. var. *acuminatum* Ashe**	**Wild ginger**	**G5T?**	**SU**		
***Asplenium trichomanes* L. ssp. *quadrivalens* D.E. Meyer emend. Lovis**	**Limestone maidenhair**	**G5T5?**	**SU**		
***Boechera burkii* (Porter) Windham & Al-Shehbaz**	**Burk's Smooth Rock Cress**	**G3G5**	**SU**		
***Calystegia silvatica* (Kit.) Griseb. ssp. *fraterniflora* (Mackenzie & Bush) Brummitt** syn: *Convolvulus sepium* L. var. *fraterniflorus* Mackenzie & Bush	**Large Bindweed**	**G5T5**	**SU**		
***Calystegia soldanella* (L.) R. Br. ex Roemer & J.A. Schultes**	**Seaside Bindweed**	**G5**	**SNA**		
***Carex cherokeensis* Schweinitz**	**Cherokee Sedge**	**G4G5**	**SNA**		
***Carex molesta* Mackenzie ex Bright**	**Troublesome Sedge**	**G4**	**SNR**		
***Carex muehlenbergii* Schkuhr ex Willd. var. *enervis* Boott** Under *C. muhlenbergii* Schkuhr ex Willd. in Radford *et al*. (1968)	**Small-fruited Muehlenberg's Sedge**	**G5T5**	**SNR**		

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
***Carex tribuloides* Wahlenberg var. *sangamonensis* Clokey**	**Midwestern Blunt Broom Sedge**	**G5T4T5**	**SNR**		
***Coleataenia anceps* (Michx.) Soreng ssp. r*hizomata* (A.S. Hitchc. & Chase) Soreng**	**Small Beaked Panic Grass**	**G5TNR**	**SU**		
syn: *Panicum anceps* Michx. var. *rhizomatum* (A.S. Hitchc. & Chase) Fern.					
***Crataegus disperma* Ashe**	**Two-seed Hawthorn**	**G4G5**	**SU**		
***Crataegus iracunda* Beadle**	**Forest Hawthorn**	**G5**	**SU**		
Included in *C. flabellata* (Bosc.) K. Koch. In Radford *et al*. (1968)					
***Crataegus vailiae* Britt.**	**Vail's Hawthorn**	**G4?Q**	**SU**		
***Crepidomanes intricatum* (Farrar) Ebihara & Weakley**	**Grotto-felt**	**G4G5**	**SU**		
syn: *Trichomanes intricatum* Farrar					
Cypripedium parviflorum* Salisb. var. *parviflorum	**Small Yellow Lady's-slipper**	**G5T3T5**	**SNR**		
***Desmodium paniculatum* (L.) DC. var. *epetiolatum* Schub.**	**Narrow-leaf Tick-trefoil**	**G5T1Q**	**SNR**		
***Diarrhena obovata* (Gleason) Brandenburg**	**Western Beakgrain**	**G4G5**	**SNA**		
syn: *D. americana* Beauv. var. *obovata* Gleason					
***Dichanthelium spretum* (J.A. Schultes) Freckmann**	**Eaton's Panic Grass**	**G5**	**SNR**		
syn: *Panicum spretum* J.A. Schultes					
***Digitaria villosa* (Walt.) Pers.**	**Shaggy Crabgrass**	**G5**	**SU**		
syn: D. *filiformis* (L.) Koeler var. *villosa* (Walt.) Fern.					
Eragrostis pectinacea* (Michx.) Nees ex Steud. var. *pectinacea	**Tufted Lovegrass**	**G5T5**	**SNR**		
***Eupatorium cordigerum* (Fern.) Fern.**	**Clasping Round-leaf Thoroughwort**	**G5TNR**	**SU**		
syn: *Eupatorium rotundifolium* L. var. *cordigerum* Fern.					
***Eupatorium vaseyi* Porter**	**Vasey's Thoroughwort**	**G3G5**	**SU**		
syn: *Eupatorium sessilifolium* L. var. *vaseyi* (Porter) Fern. & Grisc. syn: E. *album* L. var. *monardifolia* Fern.					
***Euphorbia pubentissima* Michx.**	**False Flowering Spurge**	**G5**	**SU**		
***Euphorbia spathulata* Lam.**	**Woodland Spurge**	**G5**	**SU**		
Included with *E. obtusata* Pursh in Harvill *et al*. (1992).					

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
***Euthamia hirtipes* (Fern.) Sieren** syn: E. *graminifolia* (L.) Nutt. var. *hirtipes* (Fern.) C.&J. Taylor	**Marsh Flat-top Goldenrod**	**G5TNR**	**SNR**		
***Galium orizabense* Hemsl. ssp. *laevicaule* (Weatherby & Blake) Dempster** syn: G. *pilosum* Ait. var. *laevicaule* Weatherby & Blake	**Bald Bedstraw**	**G5?T4?**	**SU**		
***Glandularia canadensis* (L.) Nutt.** syn: *Verbena canadensis* (L.) Britt.	**Rose Vervain**	**G5**	**SNA**		
***Gratiola virginiana* L. var. *aestuariorum* Pennell**	**Roundfruit hedge-hyssop**	**G5T2T4**	**SU**		
***Isolepis carinata* Hooker & Arnott ex Torr.** syn: *Isolepis koilolepis Steud.* syn: *Scirpus koilolepis* (Steud.) Gleason	**Keeled Bulrush**	**G5**	**SNA**		
Juncus validus* Coville var. *validus syn: J. *crassifolius* Buch.	**Round-headed Rush**	**G5T3T5**	**SNA**		
***Lathyrus pusillus* Ell.**	**Tiny Pea**	**G5?**	**SNA**		
***Lemna minuta* Kunth**	**Pale duckweed**	**G4**	**SU**		
***Leptochloa panicea* (Retz) Ohwi ssp. *brachiata*(Steudel) N. Snow**	**Red Sprangletop**	**GNRTNR**	**SNA**		
***Leptochloa panicoides* (J. Presl) A.S. Hitchc.** *syn: Diplachne panicoides* (J. Presl) McNeill	**Amazon Sprangletop**	**G5**	**SNA**		
***Liatris squarrulosa* Michx.** Under *L. aspera* Michx. in Harvill et al. (1992), syn: *L. earlei (Greene) K. Schum.*	**Appalachian Blazing Star**	**G4G5**	**SU**		
***Ludwigia polycarpa* Short & Peter**	**A seedbox**	**G4**	**SU**		
***Lycopus angustifolius* Ell.**	**Narrow-leaf Bugleweed**	**G4?Q**	**SU**		
***Malaxis bayardii* Fern.** Under *M. unifolia* Michx. in Radford et al. (1968)	**Appalachian Adder's-mouth**	**G1G2**	**SU**		
***Melampyrum lineare* Desr. var. *pectinatum* (Pennell) Fern.**	**Pine Barren Cow-wheat**	**G5T5**	**SU**		
***Minuartia patula* (Michx.) Mattf.** syn: *Arenaria patula* Michx.	**Pitcher's Stitchwort**	**G4**	**S3**		
***Nothoscordum bivalve* (L.) Britt.** syn: *Allium bivalve* (L.) Kuntze	**Crow-poison**	**G4**	**SNA**		
***Oenothera linifolia* Nutt.**	**Threadleaf Sundrops**	**G5**	**SNA**		
***Orobanche riparia* L.T. Collins**	**River Broomrape**	**G4?**	**SU**		

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
***Panicum gattingeri* Nash**	**Gattinger's Panic Grass**	**G4**	**SNR**		
Physalis angulata* L. var. *angulata	**Cut-leaf Ground-cherry**	**G5TNR**	**SNA**		
All Virginia *P. angulata* is var. *angulata*					
***Planodes virginicum* (L.) E.L. Greene**	**Virginia Winged Rock Cress**	**G5**	**SNR**		
syn: *Sibara virginica* (L.) Rollins					
***Plantago heterophylla* Nutt.**	**Slender Plantain**	**G5**	**SNA**		
***Pycnanthemum beadlei* (Small) Fern.**	**Beadle's Mountain-mint**	**G2G4**	**SU**		
***Pycnanthemum loomisii* Nutt.**	**Loomis' Mountain-mint**	**G4?**	**SU**		
Under *P. incanum* (L.) Michx. in Radford et al. (1968)					
syn: *Pycnanthemum incanum* (L.) Michx. var. *loomisii* (Nutt.) Fern.					
***Rosa blanda* Aiton**	**Smooth Rose**	**G5**	**SU**		
***Rudbeckia laciniata* L. var. *humilis* Gray**	**Southeastern Cutleaf Coneflower**	**G5T3?**	**SU**		
Under *R. laciniata* L. in Radford et al. (1968)					
***Sagittaria platyphylla* (Engelm.) J.G. Sm.**	**Delta Arrowhead**	**G5**	**SU**		
***Salix lucida* Muhl.**	**Shining Willow**	**G5**	**SNA**		
Silphium asteriscus* L. var. *asteriscus	**Starry Rosin Weed**	**G5TNR**	**SNR**		
***Silphium asteriscus* L. var. *latifolium* (Gray) Clevinger**	**Broad-leaved Rosin Weed**	**G4?T4?**	**SNR**		
***Sisyrinchium capillare* Bickn.**	**Wiry Blue-eyed-grass**	**GNR**	**SU**		
Under *S. albidum* Raf. in Radford et al. (1968)					
Solidago canadensis* L. var. *canadensis	**Canada Goldenrod**	**G5T5**	**SU**		
***Solidago lancifolia* Torr. & Gray**	**Lance-leaf Goldenrod**	**G3G4Q**	**SU**		
Under *S. curtissii* Torr. & Gray in Kartesz (1999) Radford et al. (1968)					
***Solidago riddellii* Frank ex Riddell**	**Riddell Goldenrod**	**G5**	**SNA**		
Spiranthes lacera* (Raf.) Raf. var. *lacera	**A ladies'-tresses**	**G5T5**	**SU**		
Symphyotrichum ontarionis* (Wiegand) Nesom var. *ontarionis	**Bottomland Aster**	**G5TNR**	**SU**		
***Symphyotrichum* x *schistosum* (Steele) Nesom**	**Millboro aster**	**GNA**	**SNA**		
syn: *Aster schistosus* Steele					
syn: *A. x schistosus* (Steele) Nesom in Kartesz (1999)					
***Tridens strictus* (Nutt.) Nash**	**Long-spike Tridens**	**G5**	**SNA**		
syn: *Triodia stricta* (Nutt.) Benth. ex Vasey					

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
Trillium luteum **(Muhl.) Harbison**	**Yellow Trillium**	**G4**	**SE?**		
Viola incognita **Brainerd**	**Large-leaved White Violet**	**G4G5T4T5**	**SNR**		
syn.: *Viola blanda* Willd. var. *palustriformis* Gray					
Vittaria appalachiana **Farrar & Mickel**	**Appalachian Shoestring Fern**	**G4**	**SU**		

PART FOUR:

RARE LICHEN AND BRYOPHYTE LISTS

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
LICHENS					
***Allectoria fallacina* Motyka**	**Witch's-hair lichen**	**G2**	**S1**		
***Arctoparmelia centrifuga* (L.) Hale**	**Concentric ring lichen**	**G3G5**	**S1**		
Arctic/Boreal species disjunct in higher Appalachians of VA and WVA					
***Buellia stellulata* (Taylor) Mudd**	**Button lichen**	**GNR**	**S1**		
Disjunct from western U.S.					
***Calvitmela talayana* (Haugen & Timdal) Andreev**	**A lichen**	**GNR**	**S1**		
***Cetradonia linearis* (Evans) J.-C. Wei & Ahti**	**Rock-gnome lichen**	**G2**	**S1**	**LE**	
syn: Gymnoderma lineare (A.Evans) Yoshim. & Sharp					
***Cetrelia monachorum* (Zahlbr.) Culb. & C. Culb.**	**Sea-storm lichen**	**G2G4**	**SU**		
***Cladonia coccifera* (L.) Willd.**	**A Cladonia**	**G5**	**S1?**		
Arctic/Boreal species disjunct in higher Appalachians of VA, NC, GA					
***Heterodermia appalachensis* (Kurok.) Culb.**	**Appalachian fringe lichen**	**G2?**	**S1**		
syn: *Anaptychia appalachiensis* Korok.					
***Heterodermia erecta* Lendemer**	**A fringe lichen**	**G1?**	**S1**		
***Hypogymnia krogiae* Ohlsson**	**Freckled tube lichen**	**G3G4**	**S1**		
***Hypotrachyna lividescens* (Kurok.) Hale**	**A loop lichen**	**GNR**	**S1**		
***Hypotrachyna oostingii* (J.P. Dey) Hale**	**Oosting's loop lichen**	**G2?**	**SU**		
***Hypotrachyna prolongata* (Kurok.) Hale**	**A loop lichen**	**G3G4**	**S1**		
***Hypotrachyna virginica* (Hale) Hale**	**A loop lichen**	**G1G2**	**S1**		
syn: *Parmelia virginica* Hale					
***Melanelia culbersonii* (Hale) Thell**	**Appalachian camouflage lichen**	**G2G4**	**S3**		
***Melanelia stygia* (L.) Essl.**	**Alpine camouflage lichen**	**G4G5**	**S3**		
***Parmelia omphalodes* (L.) Ach.**	**Smoky crottle**	**G2G4**	**S2?**		
Arctic/Boreal species disjunct in higher Appalachians of VA, WVA, NC, TN					
***Parmotrema louisianae* (Hale) Hale**	**A ruffle lichen**	**G3G5**	**S1**		
***Peltigera hydrothyria* Miadikowska & Lutzoni**	**Waterfan**	**G4**	**S1**		
syn: *Hydrothyria venosa* J.L. Russell					
***Porpidia lowiana* Gowan**	**A boulder lichen**	**G2G3**	**S1**		
Arctic/Boreal species disjunct from northern NY					
***Porpidia tuberculosa* (Sm.) Hertel & Knoph**	**A boulder lichen**	**G2G4**	**S1**		
Arctic/Boreal species disjunct in higher Appalachians of VA, NC					
***Psilolechea clavulifera* (Nyl.) Coppins**	**A lichen**	**GNR**	**S1**		
***Punctelia graminicola* (B. de Lesd.) Egan**	**Speckled shield lichen**	**G?**	**S1**		

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
LICHENS, continued					
***Stereocaulon glaucescens* Tuck.**	**Bony foam lichen**	**G3**	**S2?**		
***Teloschistes flavicans* (Sw.) Norman**	**Powdered orange bush lichen**	**G4G5**	**SH**		
***Usnea angulata* Ach.**	**A beard lichen**	**G3G5**	**S1**		
LIVERWORTS					
***Aneura sharpii* Inoue & N.G. Mill.**	**A liverwort**	**G1G2**	**S1**		
***Bazzania nudicaulis* A. Evans**	**A liverwort**	**G2G3**	**S1**		
***Cephaloziella spinicaulis* Douin**	**A liverwort**	**G3G4**	**S1**		
***Diplophyllum andrewsii* A. Evans**	**A liverwort**	**G3**	**SH**		
***Drepanolejeunea appalachiana* R. M. Schuster**	**Appalachian threadwort**	**G2?**	**SH**		
***Frullania caulisequa* (Nees) Nees**	**A liverwort**	**GNR**	**SH**		
***Lejeunea ruthii* (Evans) Schust.**	**A liverwort**	**G3G4**	**SH**		
***Leptoscyphus cuneifolius* (Hook.) Mitt.**	**Wedge Flapwort**	**G4G5**	**SH**		
***Marsupella paroica* R. M. Schust.**	**A liverwort**	**G3**	**SH**		
***Metzgeria temperata* Kuwahara**	**Whiskered Veilwort**	**G4**	**SH**		
***Pellia endiviifolia* (Dicks.) Dumort.**	**Endive Pellia**	**G5**	**SH**		
***Plagiochasma rupestre* (Forst.) Steph.**	**A flapwort**	**G5**	**S1**		
***Plagiochila exigua* (Taylor) Taylor**	**A liverwort**	**GNR**	**SH**		
***Plagiochila sullivantii* Gottsche ex A. Evans**	**Sullivant's leafy liverwort**	**G2**	**SH**		
***Schistochilopsis incisa* (Schrad.) Konstant.**	**Jagged notchwort**	**G5**	**SH**		
***Solenostoma pyrifolium* Steph.**	**A liverwort**	**GNR**	**SH**		
***Sphenolobopsis pearsonii* (Spruce) R.M. Schust**	**Horsehair threadwort**	**G2?**	**S1**		
***Tritomaria exsectiformis* (Breidl.) Schiffn. ex Loeske**	**Large cut notchwort**	**G5**	**SH**		
MOSSES					
***Bryoerythrophyllum ferruginascens* (Stirt.) Giacom.**	**Bryoerythrophyllum moss**	**G3G4**	**SH**		
***Calliergon cordifolium* (Hedw.) Kindb.**	**Calliergon moss**	**G5**	**S1**		
***Campylopus carolinae* Grout**	**A moss**	**G2**	**S1**		
***Campylopus surinamensis* Müll. Hal.**	**A moss**	**G4G5**	**SH**		
***Ciriphyllum piliferum* (Hedw.) Grout**	**Cirrhiphyllum moss**	**G5**	**S1**		
***Codriophorus aduncoides* (Bednarek-Ochyra) Bednarek-Ochyra & Ochyra**	**A moss**	**GNR**	**SH**		
***Conardia compacta* (Hook.) H. Rob.**	**A moss**	**G3G5**	**SH**		
***Coscinodon cribrosus* (Hedw.) Spruce**	**Copper Coscinodon**	**G3G4**	**S1**		
***Cryphaea nervosa* (Hook. & Wilson) Müll. Hal.**	**A moss**	**G4?**	**S1**		
***Dicranum muehlenbeckii* Bruch & Schimp.**	**A moss**	**G3G5**	**SH**		
***Entodon sullivantii* (Müll. Hal.) Lindb.**	**Sullivant's Entodon moss**	**G3G4**	**S2**		

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
MOSSES, continued					
Forsstroemia producta **(Hornsch.) Paris**	**A moss**	**G5?**	**SH**		
Grimmia alpestris **(F. Weber & D. Mohr) Schleicher**	**A moss**	**G3G5**	**S1**		
Herpetineuron toccoae **(Sull. & Lesq.) Cardot**	**A moss**	**G4G5**	**S1**		
Heterocladium macounii **Best**	**A moss**	**G4**	**S1**		
Homalia trichomanoides **(Hedw.) Schimp. var.** ***trichomanoides***	**Lime Homalia moss**	**G5**	**SH**		
Homaliadelphus sharpii **(R.S. Williams) Sharp**	**Sharp's Homaliadelphus moss**	**G3?**	**S1**		
Hylocomiastrum umbratum **(Hedw.) M. Fleisch. ex Broth.**	**A moss**	**G5**	**SH**		
Imbribryum gemmaparum **(De. Not.) J.R. Spence & H.P. Ramsay**	**Bud-tipped Bryum**	**G3G5**	**S1**		
Leptodontium viticulosoides **var.** ***sulphureum*** **(Müll. Hal.) R.H. Zander**	**Granfather Mountain Leptodontium**	**G2**	**SH**		
Oncophorus rauei **(Austin) Grout**	**A moss**	**G3**	**SH**		
Orthotrichum elegans **Schwägr. ex Hook. & Grev.**	**A moss**	**G5**	**SH**		
Orthotrichum keeverae **Crum & Anders.**	**Keever's bristle-moss**	**G2**	**S1**		
Platydictya minutissima	**Small willow moss**	**G3**	**SH**		
Polytrichastrum alpinum **(Hedw.) G. L. Sm. var.** ***alpinum***	**Alpine haircap moss**	**G5**	**SH**		
Polytrichastrum formosum **(Hedw.) G. L. Sm. var.** ***densifolium*** **(Mitten) Z. Iwatsuki & A. Noguchi**	**A haircap moss**	**G5TNR**	**SH**		
Pseudobryum cinclidioides **(Huebener) T.J. Kop.**	**River thyme moss**	**G5**	**SH**		
Schistidium dupretii **(Thér.) W. A. Weber**	**A moss**	**GNR**	**SH**		
Schlotheimia rugifolia **(Hook.) Schwägr.**	**A moss**	**G3G5**	**SH**		
Sphagnum angustifolium **(C. Jens. ex Russ.) C. Jens.**	**Narrowleaf peatmoss**	**G5**	**S1S2**		
Sphagnum contortum **Schultz**	**A peatmoss**	**G5**	**S1**		
Sphagnum cyclophyllum **Sull. & Lesq. ex Sull.**	**Circular-leaved peatmoss**	**G3**	**S1S2**		
Sphagnum fimbriatum **Wils. ex Wils. & J.D. Hook.**	**A peatmoss**	**G5**	**S1**		
Sphagnum flexuosum **Dozy & Molk.**	**Flexuose peatmoss**	**G5**	**S1S2**		
Sphagnum fuscum **(Schimp.) Klinggr.**	**Brown peatmoss**	**G5**	**S1**		
Sphagnum girgensohnii**Russ.**	**Girgensohn's peatmoss**	**G5**	**S1S2**		
Sphagnum inundatum **Russ.**	**Inundated peatmoss**	**G4**	**S1S2**		
Sphagnum macrophyllum **Bernh. ex Brid. var.** ***macrophyllum***	**Large-leaf peatmoss**	**G3T3?**	**S2**		
Sphagnum molle **Sull.**	**Soft peatmoss**	**G4**	**S2**		
Sphagnum papillosum **Lindb.**	**Papillose peatmoss**	**G5**	**S1**		

Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
MOSSES, continued					
***Sphagnum portoricense* Hampe**	**Puerto Rico peatmoss**	**G5**	**S1S2**		
***Sphagnum pulchrum* (Lindb.) Warnst.**	**Beautiful peatmoss**	**G5**	**SH**		
***Sphagnum quinquefarium*(Lindb. ex Braithw.) Warnst.**	**Five-rowed peatmoss**	**G5**	**S2S3**		
***Sphagnum rubellum* Wils.**	**Red peatmoss**	**G5**	**S2**		
***Sphagnum strictum* Sull.**	**Straight peatmoss**	**G5**	**S2**		
***Sphagnum torreyanum* Sull.**	**Torrey's peatmoss**	**G3G4**	**S2**		
***Syntrichia amphidiacea* (Müll. Hal.) R.H. Zandler**	**A moss**	**GNR**	**SH**		
***Syrrhopodon incompletus* Schwägr.**	**A moss**	**G5**	**SH**		
***Tuerckheimia svihlae* (E.B. Bartram) R.H. Zander**	**A moss**	**GNR**	**S1**		
***Ulota hutchinsiae* (Sm.) Hammar var. *rufescens* (E. Britton) Dixon**	**A moss**	**G5T3**	**SH**		

APPENDIX 1: CHANGES TO THE 2014 LISTS

Below is a summary of the changes to the plant lists since the 2014 edition:

Additions to the rare vascular plant list which have not previously appeared on any other list

Scientific Name	Old Rank	New Rank
Dichanthelium curtifolium **(Nash) LeBlond**	N/A	GNR/S1
Hypericum ellipticum **Hook.**	N/A	G5/S1
Rudbeckia laciniata **L. var.** ***bipinnata*** **Perdue**	N/A	G5TNR/S1
Vitis palmata **Vahl**	G4	S1

Taxa whose ranks or legal designations have changed but are still found on the rare vascular plant list

Scientific Name	Old Rank	New Rank
Actaea rubifolia **(Kearney) Kartesz**	S2	S1
Allium oxyphilum **Wherry**	G2Q	G2
Arabis patens **Sullivant**	S2	S1
Arethusa bulbosa **L.**	G4	G5
Boechera dentata **(Raf.) Al-Shehbaz & Zarruchi**	S2	S1S2
Cabomba caroliniana **Gray**	S2	S1S2
Calopogon tuberosus **(L.) B.S.P.**	S2	S1S2
Calycanthus floridus **L.**	S2	S1
Camassia scilloides **(Raf.) Cory**	S2	S1
Cardamine flagellifera **O.E. Schulz**	S1	SH
Cardamine micranthera **Rollins**	S1	S2
Carex cristatella **Britt.**	S1?	S1
Carex crus-corvi **Shuttlw. ex Kunze**	S2S3	S2
Carex decomposita **Muhl.**	S2	S1
Carex interior **Bailey**	S1	S1S2
Carex lupuliformis **Sartwell ex Dewey**	S2	S1S2
Carex silicea **Olney**	SH	S1
Carphephorus bellidifolius **(Michx.) Torr. & Gray**	S1	S1S2
Cerastium velutinum **Raf. var.** ***velutinum***	S2?	S1
Cladium jamaicense **Crantz**	S2	S1S2
Clematis addisonii **Britt.**	S1?	S2
Clematis occidentalis **(Hornem.) DC. var.** ***occidentalis***	S2	S1
Clematis viticaulis **Steele**	S1	S1S2
Collinsia verna **Nutt.**	S2	S1
Corallorhiza bentleyi **Freudenstein**	G1G2/S1	G2/S2
Cuscuta coryli **Engelm.**	S2?	S2
Cuscuta indecora **Choisy**	S2?	S1
Cuscuta polygonorum **Engelm.**	S2?	S1
Cuscuta rostrata **Shuttlw. ex Engelm. & Gray**	S2	S1
Dichanthelium consanguineum **(Kunth) Gould & C. A. Clark**	S1?	S1S2
Digitaria cognata **(J.A. Schultes) Pilger**	S2	S1
Eleocharis baldwinii **(Torr.) Chapman**	S2	S1
Elymus canadensis **L. var.** ***canadensis***	S2?	S1
Elymus trachycaulus **(Link) Gould ex Shinners ssp.** ***trachycaulus***	S2	S1

Rare Plant List Rank Changes, *continued*

Scientific Name	Old Rank	New Rank
Epilobium ciliatum* Raf. ssp. *ciliatum	S2	SH
***Epilobium leptophyllum* Raf.**	S2	S2S3
***Eurybia surculosa* (Michx) Nesom**	S1	S1S2
Fimbristylis puberula* (Michx.) Vahl var. *puberula	G5T5?	G5T5
***Fragaria vesca* L. var. *americana* (Porter) Staudt**	S2?	S1
***Gentianella quinquefolia* (L.) Small var. *occidentalis* Gray**	S1?	S1
***Geum laciniatum* Murr.**	S2	S1
***Glyceria laxa* (Scribn.) Scribn.**	S1?	S1
***Goodyera repens* (L.) R. Br. ex Ait. f.**	S2?	S1
***Heuchera alba* Rydb.**	S2?	S1
***Ilex collina* Alexander**	S2	S1
***Ilex coriacea* (Pursh) Chapman**	S2	S1
***Iliamna corei* Sherff**	G1Q	G1
***Isoetes appalachiana* Brunton & Britton**	S2?	S1
***Isoetes lacustris* L.**	S1?	SH
***Isoetes melanopoda* Gay & Durieu *ex* Durieu**	S1?	S1
***Isoetes piedmontana* (N.E. Pfeiffer) C.F. Reed**	G3/S1?	G4/S1
***Isoetes virginica* N.E. Pfeiffer**	S1?	S1
***Isotria medeoloides* (Pursh) Raf.**	G2	G2?
***Iva imbricata* Walt.**	S1S2	S1
***Juncus articulatus* L.**	S1S2	S1
***Juncus elliottii* Chapman**	S1S2	S1
***Juncus torreyi* Coville**	S2	S1
***Lachnocaulon anceps* (Walt.) Morong**	S1S2	S1
***Ludwigia hirtella* Raf.**	S1	S2
***Maianthemum stellatum* (L.) Link**	S2	S1S2
Marshallia obovata* (Walt.) Beadle & F.E. Boynt. var. *obovata	S2	S1
***Melica nitens* (Scribn.) Nutt. ex Piper**	S1S2	S1
***Mimosa microphylla* Dryander**	S2	S1
***Mimulus moschatus* Dougl. ex Lindl.**	S1	SH
***Muhlenbergia cuspidata* (Torr. ex Hook.) Rydb.**	G4	G5
***Nabalus autumnalis* (Walt.) Weakley**	S2	S1
***Napaea dioica* L.**	S1?	SH
***Ophioglossum pusillum* Raf.**	S1	SH
***Packera millefolium* (Torr. & Gray) Weber & Löve**	S1	S2
***Paspalum distichum* L.**	S2	S1
***Penstemon australis* Small**	S2?	S1?
***Phlox amplifolia* Britt.**	S2	S1
***Plantago maritima* L. var. *juncoides* (Lam.) Gray**	SH	S1
***Platanthera blephariglottis* (Willd.) Lindl.**	S1	S2
***Platanthera grandiflora* (Bigelow) Lindl.**	S1	S2
***Platanthera peramoena* (Gray) Gray**	S2	S1
***Populus tremuloides* Michx.**	S2	S1
***Potamogeton amplifolius* Tuckerman**	S1S2	S1
***Potamogeton oakesianus* J.W. Robbins**	S2	S1
***Potamogeton spirillus* Tuckerman**	S1	SH
***Potamogeton strictifolius* Benn.**	S1	SH
***Pseudognaphalium helleri* (Britt.) A. Anderb.**	G4G5	G3G4
***Pycnanthemum torreyi* Benth.**	S2?	S2
***Pyrola elliptica* Nutt.**	S2	S1
***Ranunculus laxicaulis* (Torr. & Gray) Darby**	S1	SH

Rare Plant List Rank Changes, *continued*

Scientific Name	Old Rank	New Rank
***Rhynchospora cephalantha* Gray var. *attenuata* Gale**	S2	S1
***Rhynchospora fascicularis* (Michx.) Vahl**	S1	S2
***Rhynchospora pallida* M.A. Curtis**	SH	SX
***Rorippa sessiliflora* (Nutt.) A.S. Hitchc.**	S1	S2
***Saccharum coarctatum* (Fern.) R. Webster**	S1?	S1
***Sarracenia purpurea* L.**	S1	S2
***Sceptridium oneidense* (Gilbert) Holub**	G4Q/S2	G4/S1
***Schoenoplectus subterminalis* (Torr.) Sojak**	S1S2	S1
***Silene nivea* (Nutt.) Muhl. ex Otth**	SH	S1
***Solidago randii* (Porter) Britt.**	S2S3	S2
***Solidago salicina* Ell.**	S1	SH
***Spiranthes lucida* (H.H. Eat.) Ames**	S1	S1S2
Sporobolus compositus* (Poir.) Merr. var. *compositus	S1S2	S2
***Sporobolus neglectus* Nash**	S2	S1
***Utricularia juncea* Vahl**	S2	S1
***Vaccinium myrtilloides* Michx.**	S1S2	S1
***Valeriana pauciflora* Michx.**	S2	S1
***Verbena scabra* Vahl**	S2	S1
Vicia americana* Muhl. ex Willd. var. *americana	S1S2	S1
***Vitis rupestris* Scheele**	S1?	S1
***Wisteria frutescens* (L.) Poir.**	S2	S1

Taxa which have been removed from the review list and placed on the rare vascular plant list

Scientific Name	Old Rank	New Rank
***Dichanthelium cryptanthum* (Ashe) LeBlond**	GNR/SNR	G2G3/S1

Taxa whose ranks have changed but are still found on the vascular plant watchlist

Scientific Name	Old Rank	New Rank
***Carex lucorum* Willd. ex Link var. *austrolucorum* J. Rettig**	G4T3T5	G4T3T4
***Cenchrus incertus* M.A. Curtis**	G5	GNR
***Hottonia inflata* Ell.**	G3G4	G4
***Hydrastis canadensis* L.**	G4	G3G4
***Zanthoxylum clava-herculis* L.**	G5	G4

Taxa whose ranks have changed but are still found on the vascular plant review list

Scientific Name	Old Rank	New Rank
Alopecurus aequalis* Sobol. var. *aequalis	G5T5?	G5T5
***Arisaema triphyllum* (L.) Schott ssp. *stewardsonii* (Britt.) Huttleston**	G5T4	G5T4T5
***Orobanche riparia* L.T. Collins**	GNR	G4?
***Silphium asteriscus* L. var. *latifolium* (Gray) Clevinger**	G5TNR	G4?T4?

Additions to the rare liverwort list

Scientific Name	Old Rank	New Rank
Aneura sharpii **Inoue & N.G. Mill.**	N/A	G1G2/S1
Bazzania nudicaulis **A. Evans**	N/A	G2G3/S1
Cephaloziella spinicaulis **Douin**	N/A	G3G4/S1
Diplophyllum andrewsii **A. Evans**	N/A	G3/SH
Drepanolejeunea appalachiana **R. M. Schuster**	N/A	G2?/SH
Frullania caulisequa **(Nees) Nees**	N/A	GNR/SH
Leptoscyphus cuneifolius **(Hook.) Mitt.**	N/A	G4G5/SH
Marsupella paroica **R. M. Schust.**	N/A	G3/SH
Metzgeria temperata **Kuwahara**	N/A	G4/SH
Pellia endiviifolia **(Dicks.) Dumort.**	N/A	G5/SH
Plagiochila exigua **(Taylor) Taylor**	N/A	GNR/SH
Plagiochila sullivantii **Gottsche ex A. Evans**	N/A	G2/SH
Schistochilopsis incisa **(Schrad.) Konstant.**	N/A	G5/SH
Solenostoma pyrifolium **Steph.**	N/A	GNR/SH
Sphenolobopsis pearsonii **(Spruce) R.M. Schust**	N/A	G2?/S1
Tritomaria exsectiformis **(Breidl.) Schiffn. ex Loeske**	N/A	G5/SH

Rank changes on the rare liverwort list

Scientific Name	Old Rank	New Rank
Lejeunea ruthii **(Evans) Schust.**	SU	SH

Species removed from the rare liverwort list

Scientific Name	Old Rank	New Rank
Nardia lescurii **(Aust.) Underw.**	SU	S4
Radula tenax **Lindb.**	SU	S4

Additions to the rare moss list

Scientific Name	Old Rank	New Rank
Bryoerythrophyllum ferruginascens **(Stirt.) Giacom.**	N/A	G3G4/SH
Calliergon cordifolium **(Hedw.) Kindb.**	N/A	G5/S1
Campylopus surinamensis **Müll. Hal.**	N/A	G4G5/SH
Ciriphyllum piliferum **(Hedw.) Grout**	N/A	G5/S1
Codriophorus aduncoides **(Bednarek-Ochyra) Bednarek-Ochyra & Ochyra**	N/A	GNR/SH
Conardia compacta **(Hook.) H. Rob.**	N/A	G3G5/SH
Coscinodon cribrosus **(Hedw.) Spruce**	N/A	G3G4/S1
Cryphaea nervosa **(Hook. & Wilson) Müll. Hal.**	N/A	G4?/S1
Dicranum muehlenbeckii **Bruch & Schimp.**	N/A	G3G5/SH
Entodon sullivantii **(Müll. Hal.) Lindb.**	N/A	G3G4/S2
Forsstroemia producta **(Hornsch.) Paris**	N/A	G5?/SH
Grimmia alpestris **(F. Weber & D. Mohr) Schleicher**	N/A	G3G5/S1
Herpetineuron toccoae **(Sull. & Lesq.) Cardot**	N/A	G4G5/S1
Heterocladium macounii **Best**	N/A	G4/S1
Homalia trichomanoides **(Hedw.) Schimp. var.** ***trichomanoides***	N/A	G5/SH
Homaliadelphus sharpii **(R.S. Williams) Sharp**	N/A	G3?/S1
Hylocomiastrum umbratum **(Hedw.) M. Fleisch. ex Broth.**	N/A	G5/SH
Imbribryum gemmaparum **(De. Not.) J.R. Spence & H.P. Ramsay**	N/A	G3G5/S1
Leptodontium viticulosoides **var.** ***sulphureum*** **(Müll. Hal.) R.H. Zander**	N/A	G2/SH

Rare Moss List additions, *continued*

Scientific Name	Old Rank	New Rank
***Oncophorus rauei* (Austin) Grout**	N/A	G3/SH
***Orthotrichum elegans* Schwägr. ex Hook. & Grev.**	N/A	G5/SH
Platydictya minutissima	N/A	G3/SH
Polytrichastrum alpinum* (Hedw.) G. L. Sm. var. *alpinum	N/A	G5/SH
***Polytrichastrum formosum* (Hedw.) G. L. Sm. var. *densifolium* (Mitten) Z. Iwatsuki & A. Noguchi**	N/A	G5TNR/SH
***Pseudobryum cinclidioides* (Huebener) T.J. Kop.**	N/A	G5/SH
***Schistidium dupretii* (Thér.) W. A. Weber**	N/A	GNR/SH
***Schlotheimia rugifolia* (Hook.) Schwägr.**	N/A	G3G5/SH
***Sphagnum contortum* Schultz**	N/A	G5/S1
***Sphagnum papillosum* Lindb.**	N/A	G5/S1
***Sphagnum pulchrum* (Lindb.) Warnst.**	N/A	G5/SH
***Syntrichia amphidiacea* (Müll. Hal.) R.H. Zandler**	N/A	GNR/SH
***Syrrhopodon incompletus* Schwägr.**	N/A	G5/SH
***Tuerckheimia svihlae* (E.B. Bartram) R.H. Zander**	N/A	GNR/S1
***Ulota hutchinsiae* (Sm.) Hammar var. *rufescens* (E. Britton) Dixon**	N/A	G5T3/SH

Species removed from the rare moss list

Scientific Name	Old Rank	New Rank
***Astomum phascoides* (Hook. ex Drumm.) Grout**	SU	SNA
***Plagiothecium latebricola* BSG**	SU	SNA
***Sphagnum capillifolium* (Ehrh.) Hedw.**	S1S2	S4
***Sphagnum carolinianum* Andrus**	S2	S3
***Sphagnum flavicomans* (Card.) Warnst.**	SU	SU
***Sphagnum russowii* Warnst.**	S1S2	S3
***Sphagnum subsecundum*Nees ex Sturm**	S1	S5
***Sphagnum subtile* (Russ.) Warnst.**	S1S2	S3
***Sphagnum trinitense* C.M.**	S2S3	S4

Additions to the rare lichen list

Scientific Name	Old Rank	New Rank
***Allectoria fallacina* Motyka**	N/A	G2/S1
***Hypogymnia krogiae* Ohlsson**	N/A	G3G4/S1
***Hypotrachyna prolongata* (Kurok.) Hale**	G3G4	S1

APPENDIX 2. RARE SPECIES SIGHTING FORM

An important component of the natural heritage inventory and protection process involves gathering information from state experts, professionals, and avocational naturalists throughout the state. To facilitate this, the Division of Natural Heritage has developed a rare species sighting form. If you would like to participate in ourinventory and protection activities, please take a few moments to complete the attached form for any taxon from our lists. This data will be incorporated into thenatural heritage data base and used exclusively for the protection of the rare taxon and its habitat. Please send the form to staff botanist John Townsend at: Department of Conservation and Recreation, Division of Natural Heritage, 600 East Main Street, 24th Floor, Richmond, VA 23219.

Thank you for your support. The Division of Natural Heritage can only realize the protection of the Commonwealth's natural diversity by working through a network of knowledgeable and concerned individuals.

TAXON NAME:

DATE SEEN:

CITY/COUNTY:

COLLECTION INFORMATION: (Include your personal collection number, if any, and the Herbarium where the specimen has been/will be deposited)

LOCATION: (Please provide as detailed a description as possible. **Please include a topographic map** showing the location or sketch a map of the location.)

HABITAT DESCRIPTION: (Include associated species, natural features, vegetation, and other applicable habitat information).

POPULATION DATA: (Include number of individuals, age, size, spatial distribution, evidence of reproduction and other applicable population data.)

THREATS OR EVIDENCE OF DISTURBANCE TO SITE:

LAND OWNER(S):

REPORTED BY: (Please include name, address, telephone number, and email address if available.)

DATE OF THIS REPORT: