

# New York Rare Plant Status Lists June 2010

Edited by Stephen M. Young



**New York Natural Heritage Program**

A Partnership between The Nature Conservancy and the NYS Department of Environmental Conservation

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[guides.nynhp.org](http://guides.nynhp.org)

**More information is available about all the plants at:**

[atlas.nyflora.org](http://atlas.nyflora.org)

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To report sightings of rare species, contact our office or fill out and mail or email us the Natural Heritage reporting form provided at the end of this publication.

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## TABLE OF CONTENTS

|   |                     |
|---|---------------------|
| Introduction.....   | Page ii             |
| Why are the lists published?  |                     |
| What are the lists and what do they contain?  |                     |
| How is the information compiled?  |                     |
| How do the lists change?  |                     |
| Why are plants rare?  |                     |
| Why protect rare?   |                     |
| Explanation of categories.....  | Page iv             |
| Explanation of Heritage ranks and codes.....  | Page iv             |
| Global rank   |                     |
| State rank  |                     |
| Taxon rank  |                     |
| Double ranks  |                     |
| Explanation of plant legal status .....   | Page v              |
| Federal legal status  |                     |
| New York State legal status   |                     |
| Acknowledgements.....   | Page vii            |
| Changes since the June 2008 rare plant status list .....  | Page viii           |
| Rare plant active inventory list (alphabetical by species).....   | Page 1              |
| Rare plant watch list (alphabetical by species).....  | Page 40             |
| Native Pioneer Plants Watch List .....  | Page 48             |
| NYNHP Review List .....   | Page 49             |
| Rare Plant Phenology List .....   | Appendix I: Page 56 |
| Natural Heritage Reporting Form   |                     |
| County map  |                     |
| Cover Photo: Twin-leaf, <i>Jeffersonia diphylla</i> by Kimberly Smith.  |                     |
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# New York Natural Heritage Program Rare Plant Status Lists

## WHY ARE THE LISTS PUBLISHED?

The New York Natural Heritage Program publishes the rare plant status lists:

1. to assist the conservation and protection efforts of government agencies, private organizations, and the general public,
2. to provide information for use in the environmental review process,
3. to provide information to educators and researchers about New York's rare plants, and
4. to assist those in search of rare plants.

## WHAT ARE THE LISTS AND WHAT DO THEY CONTAIN?

**The Active Inventory List** - This list contains the name, Heritage rank, counties of occurrence, and state legal status for **574 plants** that the NY Natural Heritage Program actively tracks and surveys. It contains most plant taxa (species, subspecies and varieties) that have fewer than 30 occurrences in the state and are considered highly vulnerable to extirpation. They have been documented by a Heritage report and a herbarium specimen or photograph in the last 20-30 years (**Extant=453 taxa**). It also contains rare historical taxa, those plants that have not been documented in the last 20-30 years (**SH=58 taxa**), and the extirpated taxa, those that are considered no longer extant in the state (**SX=63 taxa**).

**The Watch List** - This contains the same fields as the active list for **82 plants**.

**The** list contains native species that are considered rare, uncommon, or declining in numbers and need continued periodic monitoring to decide if they should be actively inventoried or removed from the list. The criteria for the plants in this category are as follows: Plants are listed on the watch list when they have 21-34 occurrences and 10 of those occurrences were ranked excellent or good in the last 20 years. They are also listed on the watch list if they have 35 or more occurrences and fewer than 10 occurrences ranked excellent or good in the last 20 years. They may also be on the watch list if they have fewer than 21 occurrences but more than a total of 10,000 plants statewide.

**The Native Pioneer Plants Watch List**- This contains the same fields as the active list for **7 plants**.

The list contains native species that have fewer than 21 occurrences but are considered pioneer species, or weedy in nature, and predicted to increase in numbers over time. They are usually recent additions to the state and are actively colonizing disturbed sites. They also need continued periodic monitoring to decide if they should be actively inventoried as a rare native plant or removed from the list as numbers increase

**The Review List** – This contains species that may be rare within New York, but more work is needed to determine their distribution within the state, resolve taxonomic/identification problems, etc. before their state rarity can be determined.



## **HOW IS THE INFORMATION COMPILED?**

These lists have been compiled over many years from a variety of sources. By consolidating these sources, NY Natural Heritage is able to enhance their usefulness and identify gaps in knowledge.

Information is gathered principally from fieldwork as well as from published and unpublished reports, herbarium specimens, and oral reports. When occurrences of rare plants are discovered in the field, quantity of individuals, quality, and location of the population are documented, and, if warranted, specimens and/or photographs are taken. These occurrences are then monitored, and changes in biology and land conservation status are recorded. Information gathered from all sources is mapped on a GIS (Geographical Information System or computerized mapping) and entered into a computer database that serves as a "communal memory" of rare plant, animal and natural community information from across the state. Electronic data are backed up with paper files; both are carefully protected from unauthorized access. Information that we gather and receive during the growing season is "transcribed" and entered into the database during the winter, thus information received in April of one year may not be available in the database until February or March of the following year. If information about a rare plant occurrence is received without a photograph or specimen to prove or vouch for its existence the information is treated as a lead to be followed up by a more detailed survey to gather voucher information.

## **HOW DO THE LISTS CHANGE?**

Each winter, after entry of new information into the database is completed, the list is reevaluated by NY Natural Heritage staff, the State Botanist, and other botanists familiar with the state flora to decide if certain plant species should remain or be removed from the lists, or if their rarity ranking or names should change. Recommendations for new plants to be added to the lists are also evaluated.

## **WHY ARE PLANTS RARE?**

Plants are rare for different reasons. Some species have narrow habitat requirements that are met in only a few areas of the state or world. Other factors that contribute to the rarity of species are low reproduction rates and disturbance or loss of habitat from stochastic events, succession or human-induced activities such as: pollution, development, introduction of exotic plants and pests, and over-collection of useful or attractive plants. Natural biological, climatic, and geological events can reduce or isolate widespread species resulting in global or local rarity or even extinction. However, at present, natural processes play a relatively small role in species extinction when compared to human activity. Often these factors work in combination to limit species distribution. Plants that are considered rare only in New York State are usually, but not always, on the edge of their range or restricted to habitats that are also rare here. They are more common elsewhere but exist at only a few localities in New York. Most rare plant species in New York have always been rare here but about 8% have been reduced to low numbers from formerly common status.

## **WHY PROTECT RARE PLANTS?**

When rare plants are protected, distinctive populations of species are preserved along with their genetic variation within their natural habitat. This "biodiversity" of organisms is an important component of healthy, functioning ecosystems upon which all life on earth is dependent. Since there is usually a lack of complete information about the complex interactions within specific ecosystems to decide which plants are "expendable", all species should be protected. Some believe that plants are not only essential to survival of the human race, but they also have an equal right to exist because they have survived and adapted for as long as or longer than humans. Plants are also indicators of the quality of the environment. Some plants decline in numbers, or disappear altogether, under the influence of increased land, air, or water pollution or perhaps climate change. Rare plants are also valued and protected because they are unusual - something out of the ordinary that people enjoy taking a special effort to see and photograph.

State-rare plants, usually on the edge of their range, are subject to environmental conditions different from the center of their range. Therefore, they sometimes have genetic differences that allow them to cope with these conditions. Their populations are often important reserves of genetic diversity of the species as a whole and should be protected. They may also be important components of ecosystems uncommon in the state or indicate important processes taking place in otherwise common natural communities. A rich natural heritage is one of New York's most valuable resources - one that is treasured by residents and visitors alike.



## EXPLANATION OF CATEGORIES

The active and watch lists are produced from the Heritage Program's Biotics 4 Database and include the following categories:

SCIENTIFIC NAME – This is the genus and species name derived from Latin or Greek roots. Some plants also have a variety or subspecies name. These standardized scientific names are understood throughout the world. This list follows the taxonomy of the New York Flora Atlas (Weldy, Troy and David Werier. 2010. New York Flora Atlas. [S.M. Landry, K.N. Campbell, and L.D. Mabe (original application development), Florida Center for Community Design and Research. University of South Florida]. New York Flora Association, Albany, New York.

COMMON NAME – This is the most commonly accepted English name for the plant in New York.

COUNTIES OF OCCURRENCE - Each county is designated by the first four letters of its name. The county name is followed by a status letter as follows:

“C” (confirmed) if the plant is currently known within the county.

“P” (probable) if the plant was last documented by a specimen more than 30 years ago.

“?” (possible) when it is possible that the plant occurs in the county because there have been unconfirmed reports of its existence (*i.e.*, oral report, plant list, literature citation).

“X” (extirpated) if the plant was once present but no longer believed to exist within the county.

A county map is included at the end of this list. **Separate county lists are available upon request to the author.**

GLOBAL AND STATE RANKS - These rarity ranks are maintained by NatureServe ([www.natureserve.org](http://www.natureserve.org)) and are used by Natural Heritage programs in every state. They are not linked to any legal penalties but provide information used for determining state and federal legal status of rare plants.

STATE STATUS - These status codes reflect rarity, vulnerability and the action priority status of plants. Their status is backed up by state laws that provide penalties for the "taking" of plants.

## EXPLANATION OF HERITAGE RANKS AND CODES

Each taxon has a global and state rank. The global rank reflects the rarity of the species throughout the world and the state rank reflects the rarity within New York State.

### GLOBAL RANK

G1 = Critically imperiled throughout its range due to extreme rarity (5 or fewer sites or very few remaining individuals) or extremely vulnerable to extinction due to biological factors. **(10 taxa in 2010)**

G2 = Imperiled throughout its range due to rarity (6 - 20 sites or few remaining individuals) or highly vulnerable to extinction due to biological factors. **(10 taxa in 2010)**

G3 = Either very rare and local throughout its range (21 - 100 sites), with a restricted range (but possibly locally abundant), or vulnerable to extinction due to biological factors. **(39 taxa in 2010)**

G4 = Apparently secure throughout its range (but possibly rare in parts).

G5 = Demonstrably secure throughout its range (but possibly rare in parts).

GH = No extant sites known but it may be rediscovered.

GX = Species believed extinct.

TU & T? = Status of the subspecies or variety unknown.



### STATE RANK

- S1 = Critically imperiled in New York State because of extreme rarity (5 or fewer sites or very few remaining individuals) or extremely vulnerable to extirpation from New York State due to biological or human factors.  
S2 = Imperiled in New York State because of rarity (6 - 20 sites or few remaining individuals) or highly vulnerable to extirpation from New York State due to biological or human factors.  
S3 = Rare in New York State (usually 21 - 35 extant sites).  
S4 = Apparently secure in New York State.  
S5 = Demonstrably secure in New York State.  
SH = Historical. No existing sites known in New York State in the last 20-30 years but it may be rediscovered.  
SX = Apparently extirpated from New York State, very low probability of rediscovery.  
SR = Reported from the state, but existence has not been documented.

### TAXON RANK

The T-ranks are defined in the same way as the Global ranks, but the T-rank only refers to the rarity of the subspecific taxon, not the rarity of the species as a whole. **If a species has a subspecific name that is the same as the species name it means there is also another subspecies of that species which we do not consider rare in New York or it does not occur in New York.**

### DOUBLE RANKS (i.e., S1S2, S2S3, S1S3)

The first rank indicates rarity based upon current documentation. The second rank indicates the probable rarity after all historical records and likely habitat have been checked.

**DOUBLE RANKS DENOTE SPECIES THAT NEED ADDITIONAL FIELD SURVEYS.**

A "Q" indicates a question exists whether or not the taxon is a good taxonomic entity.

A "?" indicates that an identification question exists about known occurrences. It also indicates the rank presumably corresponds to actual occurrences even though the information has not yet been documented in heritage files or historical records. It serves to flag species that need more field studies or specimen identification.

## **EXPLANATION OF PLANT LEGAL STATUS**

### FEDERAL LEGAL STATUS

The categories of federal status are defined by the U.S. Department of the Interior as part of the 1974 Endangered Species Act (see Code of Federal Regulations 50 CFR 17). Recent changes in federal status were published in the Federal Register on Feb. 28, 1996. Federal Categories 2 and 3 were eliminated and Category 1 changed to Candidate. A summary of federally listed plants is in the U.S. Fish and Wildlife Service publication "Endangered and Threatened Wildlife and Plants" (August 20, 1994).

**Currently in New York there is 1 endangered plant and 5 threatened plants. There are 2 historical and 3 extirpated species.**

| <u>Scientific Name</u>                                | <u>Common Name</u>     | <u>Fed. Status</u> | <u>State Status</u> |
|---|------------------------|--------------------|---------------------|
| <i>Agalinis acuta</i>                                 | Sandplain Gerardia     | Endangered         | S1                  |
| <i>Aconitum noveboracense</i>                         | Monkshood              | Threatened         | S2                  |
| <i>Amaranthus pumilus</i>                             | Seabeach Amaranth      | Threatened         | S2                  |
| <i>Asplenium scolopendrium</i> var. <i>americanum</i> | Hart's-tongue Fern     | Threatened         | S2                  |
| <i>Oligoneuron houghtonii</i>                         | Houghton's Goldenrod   | Threatened         | S1                  |
| <i>Rhodiola integrifolia</i> ssp. <i>leedyi</i>       | Leedy's Roseroot       | Threatened         | S1                  |
| <i>Isotria medeoloides</i>                            | Small Whorled Pogonia  | Endangered         | SH                  |
| <i>Platanthera leucophaea</i>                         | Prairie Fringed Orchid | Threatened         | SH                  |
| <i>Helonias bullata</i>                               | Swamp Pink             | Threatened         | SX                  |
| <i>Schwalbea americana</i>                            | Chaffseed              | Endangered         | SX                  |
| <i>Scirpus ancistrochaetus</i>                        | Northeastern Bulrush   | Endangered         | SX                  |



## NEW YORK STATE LEGAL STATUS

The following categories are defined in regulation 6NYCRR part 193.3 and apply to New York State Environmental Conservation Law section 9-1503. Part (f) of the law reads as follows: "It is a violation for any person, anywhere in the state to pick, pluck, sever, remove, damage by the application of herbicides or defoliant, or carry away, without the consent of the owner, any protected plant. Each protected plant so picked, plucked, severed, removed, damaged or carried away shall constitute a separate violation." Violators of the regulation are subject to fines of \$25 per plant illegally taken. For your convenience, the DEC Protected Plant List is included as an appendix within this publication. Questions about DEC's Protected Plant list should be directed to the Division of Lands and Forests at (518) 402-9425.

E = Endangered Species: listed species are those with

- 1) 5 or fewer extant sites, or
- 2) fewer than 1,000 individuals, or
- 3) restricted to fewer than 4 U.S.G.S. 7 1/2 minute topographical maps, or
- 4) species listed as endangered by the U. S. Department of Interior, as enumerated in the Code of Federal Regulations 50 CFR 17.11.

T = Threatened: listed species are those with

- 1) 6 to fewer than 20 extant sites, or
- 2) 1,000 to fewer than 3,000 individuals, or
- 3) restricted to not less than 4 or more than 7 U.S.G.S. 7 1/2 minute topographical maps, or
- 4) listed as threatened by the U. S. Department of the Interior, as enumerated in the Code of Federal Regulations 50 CFR 17.11.

R = Rare: listed species have

- 1) 20 to 35 extant sites, or
- 2) 3,000 to 5,000 individuals statewide.

V = Exploitably vulnerable: listed species are likely to become threatened in the near future throughout all or a significant portion of their range within the state if causal factors continue unchecked. [This definition does not apply to many plants on this list and efforts are underway to change the definition or the list - SMY]

U = Unprotected

## **EXPLANATION OF THE PHENOLOGY LIST – APPENDIX I**

The phenology list shows the months of the year when the parts of the plant useful for identification (vegetative parts, flowers, fruits) of each rare species can be seen. For example, only the fruiting time is shown for many species of *Carex* since only mature fruit should be used for identification. This information has been gathered from herbarium specimens, Heritage field data, Gray's Manual of Botany, various web sites, and individual expertise. The months in which the plant can be seen may differ from year to year depending on the weather and there is often some overlap between flowering and fruiting times. Some species may not be visible for years at a time if they grow in a habitat where conditions conducive to germination or growth occur only sporadically (e.g., Coastal Plain Pond Shores). An attempt was made to include information that would assist searching for these species at a time when the plant could be identified properly. For some species there is very little information about phenology in New York State and assumptions were made from Gray's Manual of Botany and information on the Internet. We would appreciate any information that would update this list and increase its accuracy.





## ACKNOWLEDGEMENTS

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## Changes Since The June 2008 Rare Plant Status Lists

### Taxa moved from the Active List to the Watch Lists.

|                            | <u>Global Rank</u> | <u>State Rank</u> |
|----------------------------|--------------------|-------------------|
| <i>Huperzia appressa</i>   | G5                 | S3                |
| <i>Gamochaeta purpurea</i> | G5                 | S3                |
| <i>Minuartia glabra</i>    | G4                 | S3                |

### Taxa removed from the Active List

|                                 |    |    |
|---------------------------------|----|----|
| <i>Euthamia gymnospermoides</i> | G5 | SH |
|---------------------------------|----|----|

### Taxa added to the Active List

|   |      |    |
|---|------|----|
| <i>Carex echinoides</i>                   | G5   | S1 |
| <i>Eupatorium album</i> var. <i>album</i> | G5T5 | S1 |
| <i>Hydrophyllum appendiculatum</i>        | G5   | SH |
| <i>Lycopus amplexens</i>                  | G5   | S2 |
| <i>Polygala nuttallii</i>                 | G5   | S2 |
| <i>Selaginella eclipses</i>               | G4   | S1 |

### Taxa added to the Watch List

|   |      |      |
|---|------|------|
| <i>Angelica venenosa</i>                        | G5   | S3   |
| <i>Asclepias verticillata</i>                   | G5   | S3   |
| <i>Cuscuta compacta</i>                         | G5   | S3   |
| <i>Heuchera americana</i> var. <i>americana</i> | G5T5 | S3   |
| <i>Ptilimnium capillaceum</i>                   | G5   | S3   |
| <i>Rhynchospora fusca</i>                       | G4G5 | S3S4 |
| <i>Viola pedata</i>                             | G5   | S3   |

### Taxa added to the Native Pioneer Watch List

|                                 |    |      |
|---------------------------------|----|------|
| <i>Chenopodium standleyanum</i> | G5 | S1S3 |
|---------------------------------|----|------|

### Taxa added to the Review List.

|   |       |      |
|---|-------|------|
| <i>Chamaecrista fasciculata</i>                 | G5    | S3S4 |
| <i>Cornus amomum</i> ssp. <i>obliqua</i>        | G5T5  | S2?  |
| <i>Crataegus flabellata</i> var. <i>grayana</i> | G5T5? | S1?  |
| <i>Dichanthelium ovale</i>                      | G5    | S1?  |
| <i>Piptochaetium avenaceum</i>                  | G5    | S3?  |
| <i>Trillium cernuum</i>                         | G5    | S3?  |



**Taxa still on the rare plant lists but with scientific name changes.**

| <b>Old name</b>   | <b>New name</b>   |
|---|---|
| <i>Aristolochia serpentaria</i>                           | <i>Endodeca serpentaria</i>                               |
| <i>Boechera shortii</i>                                   | <i>Boechera dentata</i>                                   |
| <i>Empetrum eamsii</i> ssp. <i>atropurpureum</i>          | <i>Empetrum atropurpureum</i>                             |
| <i>Empetrum nigrum</i> ssp. <i>hermaphroditum</i>         | <i>Empetrum nigrum</i>                                    |
| <i>Erechtites hieraciifolia</i>                           | <i>Erechtites hieraciifolius</i>                          |
| <i>Eriophorum angustifolium</i> ssp. <i>scabriusculum</i> | <i>Eriophorum angustifolium</i> ssp. <i>angustifolium</i> |
| <i>Eupatorium hyssopifolium</i> var. <i>laciniatum</i>    | <i>Eupatorium torreyanum</i>                              |
| <i>Eupatorium rotundifolium</i> var. <i>ovatum</i>        | <i>Eupatorium pubescens</i>                               |
| <i>Helianthemum dumosum</i>                               | <i>Crocianthemum dumosum</i>                              |
| <i>Helianthemum propinquum</i>                            | <i>Crocianthemum propinquum</i>                           |
| <i>Lespedeza violacea</i>                                 | <i>Lespedeza frutescens</i>                               |
| <i>Loiseleuria procumbens</i>                             | <i>Kalmia procumbens</i>                                  |
| <i>Neobeckia aquatica</i>                                 | <i>Rorippa aquatica</i>                                   |
| <i>Zigadenus elegans</i> ssp. <i>glaucus</i>              | <i>Anticlea elegans</i> ssp. <i>glaucus</i>               |
| <i>Zigadenus leimanthoides</i>                            | <i>Stenanthium leimanthoides</i>                          |



## *2010 Rare Plant Status List - Active Inventory List*

| Scientific Name                                  | Common Name                   | Counties of Occurrence  | Global Rank | State Rank | State Status |
|--|-------------------------------|---|-------------|------------|--------------|
| <i>Acalypha virginica</i>                        | Virginia Three-seeded Mercury | BRON-P COLU-P NASS-P ONON-P<br>ROCK-C SUFF-P WEST-P   | G5          | S1         | E            |
| <i>Aconitum noveboracense</i>                    | Northern Monk's-hood          | CHEN-P DELA-C SULL-C ULST-C   | G3          | S1         | T            |
| <i>Adoxa moschatellina</i>                       | Musk Root                     | DELA-C GREE-C   | G5          | S1         | E            |
| <i>Agalinis acuta</i>                            | Sandplain Gerardia            | NASS-C SUFF-C   | G1          | S1         | E            |
| <i>Agalinis maritima</i> var. <i>maritima</i>    | Seaside Gerardia              | BRON-X NASS-P NEWY-X ONON-?<br>QUEE-P RICH-X SUFF-C WEST-X  | G5T5        | S2S3       | U            |
| <i>Agastache nepetoides</i>                      | Yellow Giant-hyssop           | ALBA-C BRON-C CAYU-C DUTC-C<br>ERIE-P ESSE-? GENE-C HERK-?<br>JEFF-P KING-? MONR-? NASS-P<br>NEWY-P NIAG-C ONEL-? ONON-P<br>ONTA-C QUEE-C RENS-? RICH-C<br>SCHE-? SCHU-? STLA-C SUFF-?<br>TOMP-P ULST-P WASH-C WAYN-P<br>WEST-? | G5          | S2S3       | T            |
| <i>Ageratina aromatica</i> var. <i>aromatica</i> | Small White Snakeroot         | KING-? NASS-P QUEE-P RICH-P<br>SUFF-C WEST-?  | G5T5        | S1         | E            |
| <i>Agrimonia rostellata</i>                      | Woodland Agrimony             | ALBA-P BRON-P CAYU-C DUTC-P<br>FULT-P GENE-C LIVI-C NASS-P<br>ONON-P ORAN-C PUTN-P QUEE-C<br>ROCK-P SCHE-P SUFF-P ULST-P<br>WEST-P  | G5          | S2         | T            |
| <i>Agrostis mertensii</i>                        | Northern Bentgrass            | ESSE-C  | G5          | S2         | T            |
| <i>Aletris farinosa</i>                          | Stargrass                     | KING-X NASS-C ONON-P QUEE-X<br>RICH-P SUFF-C  | G5          | S2         | T            |
| <i>Alisma gramineum</i>                          | Water-plantain                | ESSE-C JEFF-P ORLE-P STLA-C<br>WAYN-P   | G5          | S2S3       | U            |
| <i>Allium cernuum</i> var. <i>cernuum</i>        | Nodding Wild Onion            | CAYU-C CHEM-C ERIE-P SCHU-C<br>STEU-P TIOG-P WYOM-?   | G5T5        | S2         | T            |
| <i>Allium tricoccum</i> var. <i>burdickii</i>    | Burdick's Wild Leek           | CHAU-P  | G5T4T5      | SH         | E            |
| <i>Amaranthus pumilus</i>                        | Seabeach Amaranth             | KING-X NASS-C ONON-X QUEE-C<br>SUFF-C WEST-X  | G2          | S2         | E            |
| <i>Amelanchier nantucketensis</i>                | Nantucket Juneberry           | RICH-C SUFF-C   | G3Q         | S1         | E            |
| <i>Amerorchis rotundifolia</i>                   | Round-leaved Orchis           | HERK-X LEWI-X ONEL-?  | G5          | SX         | U            |



## *2010 Rare Plant Status List - Active Inventory List*

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|---|-----------------------|--|-------------|------------|--------------|
| <i>Amianthium muscaetoxicum</i>                           | Fly-poison            | NASS-X QUEE-X  | G4G5        | SX         | U            |
| <i>Ammophila breviligulata</i> ssp. <i>champlainensis</i> | Champlain Beachgrass  | CLIN-C JEFF-C OSWE-?   | G5T2T3Q     | S1         | E            |
| <i>Amphicarpum purshii</i>                                | Peanut Grass          | SUFF-C   | G4          | S1         | E            |
| <i>Anemone multifida</i> var. <i>hudsoniana</i>           | Cut-leaf Anemone      | JEFF-X   | G5T5        | SX         | U            |
| <i>Angelica lucida</i>                                    | Seacoast Angelica     | SUFF-C   | G5          | S2         | E            |
| <i>Anthoxanthum monticola</i> ssp. <i>monticola</i>       | Alpine Sweetgrass     | ESSE-C   | G5T3T5      | S1         | E            |
| <i>Anticlea elegans</i> ssp. <i>glaucus</i>               | Mountain Death Camas  | GENE-C JEFF-C LIVI-? MADI-P<br>MONR-P NIAG-C ONON-P STLA-C<br>WYOM-C   | G5T4T5      | S2         | T            |
| <i>Aplectrum hyemale</i>                                  | Puttyroot             | ALBA-P BRON-P BROO-? CAYU-?<br>CHAU-? CORT-? ERIE-P ESSE-P<br>GENE-P JEFF-P LEWL-? LIVI-P<br>MADI-P MONR-P NIAG-P ONEI-P<br>ONON-P ONTA-P ORAN-P ORLE-P<br>OSWE-P SARA-? SENE-P TOMP-P<br>ULST-P WASH-C WAYN-? WEST-?<br>YATE-P                      | G5          | S1         | E            |
| <i>Arethusa bulbosa</i>                                   | Dragon's Mouth Orchid | CATT-? CAYU-P CHAU-? COLU-P<br>CORT-P DELA-? DUTC-C ERIE-P<br>ESSE-C FRAN-C GENE-C HAMI-?<br>JEFF-C KING-? LEWL-C MADI-P<br>NASS-P ONEI-P ONON-P ORAN-P<br>OSWE-C RENS-P SARA-P SCHE-X<br>STEU-? SUFF-C TOMP-P ULST-P<br>WARR-C WASH-P WAYN-P WEST-P | G4          | S2         | T            |
| <i>Argentina egedii</i> ssp. <i>groenlandica</i>          | Silverweed            | RICH-P SUFF-C  | G5T4T5      | S2         | T            |
| <i>Arnica lanceolata</i> ssp. <i>lanceolata</i>           | Lanceleaf Arnica      | ESSE-C   | G4G5T3      | S1         | E            |
| <i>Arnoglossum atriplicifolium</i>                        | Pale Indian-plantain  | CATT-P CHAU-? CHEM-? LIVI-?<br>MONR-? ONEI-P TIOG-P WYOM-?<br>YATE-?   | G4G5        | SH         | U            |
| <i>Asclepias purpurascens</i>                             | Purple Milkweed       | BRON-C CAYU-? DUTC-P GREE-?<br>MONR-? NASS-C NEWY-? ORAN-C<br>QUEE-P RICH-C ROCK-? SCHE-?<br>SUFF-C WAYN-? WEST-C  | G5?         | S2S3       | U            |



## *2010 Rare Plant Status List - Active Inventory List*

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|---|-----------------------|---|-------------|------------|--------------|
| <i>Asclepias rubra</i>                                | Red Milkweed          | NASS-X QUEE-X RICH-X SUFF-X<br>WASH-X   | G4G5        | SX         | U            |
| <i>Asclepias variegata</i>                            | White Milkweed        | BRON-C DUTC-? KING-X NASS-P<br>NEWY-P QUEE-X RICH-P SUFF-C<br>WEST-P                      | G5          | S1         | E            |
| <i>Asclepias viridiflora</i>                          | Green Milkweed        | COLU-P DUTC-C KING-? NASS-C<br>QUEE-? RICH-C ROCK-C SUFF-?<br>ULST-? WEST-?               | G5          | S2         | T            |
| <i>Asimina triloba</i>                                | Pawpaw                | CHAU-C ERIE-C LIVI-C MONR-C<br>NIAG-C ONTA-P ORLE-C OSWE-?                                | G5          | S2         | T            |
| <i>Asplenium bradleyi</i>                             | Bradley's Spleenwort  | ORAN-P ULST-P   | G4          | SH         | E            |
| <i>Asplenium montanum</i>                             | Mountain Spleenwort   | COLU-P DUTC-P RENS-P SULL-C<br>ULST-C   | G5          | S2S3       | T            |
| <i>Asplenium scolopendrium</i> var. <i>americanum</i> | Hart's-tongue Fern    | MADI-C NIAG-? ONON-C  | G4T3        | S2         | T            |
| <i>Asplenium trichomanes-ramosum</i>                  | Green Spleenwort      | LEWI-C  | G4          | S1         | E            |
| <i>Astragalus neglectus</i>                           | Cooper's Milkvetch    | CAYU-C ERIE-P GENE-C LIVI-C<br>MONR-P NIAG-P ONON-X ONTA-P<br>SENE-P TOMP-P YATE-P        | G4          | S1         | E            |
| <i>Atriplex dioica</i>                                | Thickleaf Orach       | BRON-P KING-? NASS-? ONTA-C<br>ORAN-C QUEE-? RICH-? SUFF-P                                | G4?         | S1         | E            |
| <i>Atriplex glabriuscula</i>                          | Seaside Orach         | SUFF-C  | G4          | S1         | E            |
| <i>Bartonia paniculata</i> ssp. <i>paniculata</i>     | Screw-stem            | KING-X NASS-X ORAN-C QUEE-X<br>RICH-P SUFF-C WEST-C                                       | G5T5        | S1         | E            |
| <i>Berula erecta</i>                                  | Wild Parsnip          | ERIE-? SUFF-X   | G4G5        | SX         | U            |
| <i>Betula glandulosa</i>                              | Tundra Dwarf Birch    | ESSE-C  | G5          | S1         | E            |
| <i>Betula minor</i>                                   | Dwarf White Birch     | ESSE-C STLA-?   | G4Q         | S1         | E            |
| <i>Betula pumila</i>                                  | Swamp Birch           | COLU-C CORT-? DUTC-C ERIE-?<br>ESSE-C FRAN-C GENE-P LEWI-C<br>MONR-? NIAG-P ORLE-P STLA-C | G5          | S2         | T            |
| <i>Bidens bidentoides</i>                             | Delmarva Beggar-ticks | ALBA-C COLU-C DUTC-C GREE-C<br>ORAN-? PUTN-? RENS-P ROCK-?<br>ULST-C WEST-?               | G3G4        | S3         | R            |



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|--|-----------------------|---|-------------|------------|--------------|
| <i>Bidens hyperborea</i> var. <i>hyperborea</i>      | Estuary Beggar-ticks  | ALBA-? COLU-C DUTC-C GREE-C<br>ORAN-? RENS-? SUFF-C ULST-?  | G4T2T4      | S1         | E            |
| <i>Bidens laevis</i>                                 | Smooth Bur-marigold   | CAYU-P CHEM-? CHEN-? COLU-C<br>CORT-? DUTC-C ERIE-? GENE-C<br>GREE-C JEFF-? MONR-? NASS-P<br>NIAG-? ONEI-? ONON-X ONTA-?<br>ORAN-C ORLE-C PUTN-C RENS-?<br>RICH-? ROCK-? SCHE-P SUFF-?<br>TOMP-? ULST-C WASH-? WAYN-?<br>WEST-? | G5          | S2         | T            |
| <i>Blephilia ciliata</i>                             | Downy Wood-mint       | ALBA-C BROO-P ESSE-C GREE-C<br>LIVI-P ONTA-P RENS-P WARR-P<br>WASH-P WEST-P   | G5          | S1         | E            |
| <i>Boechera dentata</i>                              | Toothed Rock-cress    | CHEM-P ONEI-P TIOG-P  | G5          | S2         | E            |
| <i>Boechera grahamii</i>                             | Purple Rock-cress     | ALBA-C CLIN-C ESSE-C GREE-C<br>JEFF-C OSWE-P RENS-C STLA-C<br>WARR-P  | G5          | S2         | R            |
| <i>Boechera missouriensis</i>                        | Green Rock-cress      | ALBA-C ESSE-C ORAN-C RENS-P<br>SARA-C SUFF-P ULST-C WARR-C<br>WASH-C  | G5          | S2         | T            |
| <i>Boechera stricta</i>                              | Drummond's Rock-cress | CLIN-P DUTC-P GREE-C JEFF-C<br>NIAG-P ONON-P ORAN-C SARA-P<br>STLA-C TOMP-P WARR-P WASH-P   | G5          | S2         | E            |
| <i>Bolboschoenus maritimus</i> ssp. <i>paludosus</i> | Seaside Bulrush       | BRON-P CAYU-C ERIE-P NASS-C<br>ONON-P QUEE-P RICH-P SENE-P<br>SUFF-C WAYN-C WEST-?  | G5T5        | S2         | E            |
| <i>Bolboschoenus novae-angliae</i>                   | Saltmarsh Bulrush     | BRON-P NEWY-P ORAN-C QUEE-X<br>ROCK-C SUFF-C WEST-P   | G5          | S1         | E            |
| <i>Botrychium campestre</i>                          | Prairie Dunewort      | ONON-P  | G3G4        | SH         | E            |
| <i>Botrychium lunaria</i>                            | Common Moonwort       | ONEI-P ONON-C   | G5          | S1         | E            |
| <i>Botrychium minganense</i>                         | Mingan Moonwort       | ONEI-? ONON-C   | G4          | S1         | E            |



## *2010 Rare Plant Status List - Active Inventory List*

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|--|--------------------------------|--|-------------|------------|--------------|
| Botrychium oneidense                     | Blunt-lobe Grape Fern          | ALBA-C ALLE-C BRON-C BROO-C<br>CATT-C CAYU-P CHAU-P CHEM-P<br>CHEN-P CORT-P DELA-P ERIE-P<br>ESSE-P GENE-P GREE-P HERK-P<br>LEWI-P LIVI-P MADI-P MONR-P<br>NASS-P ONEI-P ONON-P ORAN-P<br>ORLE-P ROCK-P SARA-P SCHO-P<br>STLA-P SUFF-C SULL-P TIOG-P<br>TOMP-C ULST-P WARR-P WASH-C<br>WEST-P WYOM-P | G4          | S2S3       | E            |
| Botrychium rugulosum                     | Rugulose Grape Fern            | ESSE-P GREE-P HAMI-C HERK-P<br>MADI-P ONON-P STLA-C  | G3          | S1         | E            |
| Bouteloua curtipendula var. curtipendula | Side-oats Grama                | ALBA-C COLU-P DUTC-C JEFF-C<br>MONR-? ONTA-P ORAN-P QUEE-P<br>RENS-C SCHE-C SUFF-P WEST-?  | G5T5        | S1         | E            |
| Bromus nottowayanus                      | Nottoway Brome Grass           | ERIE-P TOMP-C WASH-P   | G3G5        | S1S2       | U            |
| Buchnera americana                       | Blue-hearts                    | CHEN-? ERIE-P MADI-? MONR-P<br>ONTA-P YATE-P   | G5?         | SH         | E            |
| Calamagrostis perplexa                   | Wood Reedgrass                 | TOMP-C   | G1          | S1         | E            |
| Calamagrostis porteri ssp. porteri       | Porter's Reedgrass             | BROO-P CHEM-C STEU-P TIOG-P  | G4T4        | S1S2       | U            |
| Calamagrostis stricta ssp. inexpansa     | New England Northern Reedgrass | ALBA-P CHEM-P CLIN-C COLU-P<br>DUTC-P ESSE-C FRAN-P HAMI-C<br>HERK-C MONR-P SENE-C STLA-C<br>WASH-P WAYN-P YATE-P  | G5T5        | S2         | T            |
| Calamagrostis stricta ssp. stricta       | Northern Reedgrass             | CLIN-C   | G5T5        | S1         | E            |
| Calamintha arkansana                     | Calamint                       | DUTC-X ERIE-X NIAG-X   | G5          | SX         | U            |
| Callitriche hermaphroditica              | Autumnal Water-starwort        | BRON-P CLIN-P JEFF-P LEWI-C<br>STLA-P SUFF-P   | G5          | S1         | E            |
| Callitriche terrestris                   | Terrestrial Starwort           | COLU-C ESSE-P HERK-? NASS-?<br>ONEI-P ONON-P ORAN-C RICH-P<br>ROCK-C SUFF-C  | G5          | S2S3       | T            |
| Calypso bulbosa var. americana           | Calypso                        | CLIN-P GENE-P HERK-P JEFF-?<br>LEWI-P ONEI-P ONON-P OSWE-P<br>SCHE-X STLA-P  | G5T5?       | SH         | E            |





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|----------------------------------|--------------------------|--|-------------|------------|--------------|
| <i>Campanulastrum americanum</i> | Tall Bellflower          | CATT-P CHEM-P CHEN-? COLU-?<br>DUTC-? ERIE-P GENE-? NIAG-P<br>ONON-? ORAN-C QUEE-? RENS-?<br>SENE-P SUFF-P TIOG-? TOMP-?<br>YATE-?                                       | G5          | S1         | U            |
| <i>Cardamine douglassii</i>      | Purple Cress             | ALBA-P BRON-P CAYU-C CHAU-P<br>CHEM-P DELA-P DUTC-P ERIE-C<br>ESSE-P GENE-P LIVI-P MADI-P<br>MONR-P NIAG-C ONON-P ONTA-C<br>ORLE-P PUTN-P TOMP-C ULST-P<br>WYOM-C YATE-P | G5          | S2S3       | U            |
| <i>Cardamine longii</i>          | Long's Bittercress       | COLU-C GREE-C ORAN-C PUTN-C<br>ROCK-C SUFF-C   | G3?         | S2         | T            |
| <i>Cardamine rotundifolia</i>    | Mountain Watercress      | CATT-C ERIE-P ONTA-P   | G4          | S1         | E            |
| <i>Carex abscondita</i>          | Thicket Sedge            | BRON-P COLU-C NASS-P NEWY-P<br>ORAN-C RICH-C ROCK-C STEU-C<br>SUFF-P WEST-P  | G4G5        | S1         | T            |
| <i>Carex aggregata</i>           | Glomerate Sedge          | JEFF-P ONEI-P ONON-P ROCK-P  | G5          | SH         | E            |
| <i>Carex amphibola</i>           | Narrow-leaved Sedge      | ALBA-C BRON-P CATT-P CAYU-P<br>COLU-P DUTC-C NASS-P ONEI-P<br>ORAN-C QUEE-P TIOG-? TOMP-P<br>ULST-P  | G5          | S1         | E            |
| <i>Carex arcta</i>               | Northern Clustered Sedge | CATT-P CORT-P ESSE-P FRAN-P<br>HERK-C STLA-? TOMP-P WEST-P   | G5          | S1         | E            |
| <i>Carex atratiformis</i>        | Scabrous Black Sedge     | ESSE-C   | G5          | S1         | E            |
| <i>Carex backii</i>              | Back's Sedge             | ALBA-C CLIN-C DUTC-C ESSE-C<br>HAMI-P JEFF-C SARA-? SCHO-P<br>STLA-C WARR-P WASH-C   | G4          | S2         | T            |
| <i>Carex barrattii</i>           | Barratt's Sedge          | NASS-C QUEE-X SUFF-C YATE-P  | G4          | S1         | E            |
| <i>Carex bigelowii</i>           | Bigelow's Sedge          | ESSE-C   | G5          | S2         | T            |
| <i>Carex bullata</i>             | Button Sedge             | MONR-P NASS-C ONEI-P ONTA-P<br>QUEE-X RICH-P ROCK-P SUFF-C   | G5          | S1         | E            |



## *2010 Rare Plant Status List - Active Inventory List*

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|----------------------------|-----------------------|---|-------------|------------|--------------|
| Carex buxbaumii            | Brown Bog Sedge       | ALBA-P COLU-P DUTC-P ESSE-P<br>GENE-P HERK-P KING-P LEWI-C<br>LIVI-C MONR-C NASS-P ONEI-P<br>ONON-C QUEE-X RENS-P SCHE-C<br>SENE-C STEU-P STLA-C SUFF-C<br>TOMP-? WARR-C YATE-P | G5          | S2         | T            |
| Carex capillaris           | Hair-like Sedge       | CAYU-P CORT-X HAMI-C ONON-P   | G5          | S1         | E            |
| Carex careyana             | Carey's Sedge         | CAYU-P ERIE-P GENE-P JEFF-P<br>MADI-P MONR-P STLA-C TOMP-P<br>WAYN-P  | G4G5        | S1S2       | U            |
| Carex caroliniana          | Carolina Sedge        | CATT-P NASS-? QUEE-X  | G5          | SH         | E            |
| Carex chordorrhiza         | Creeping Sedge        | CATT-C HERK-P JEFF-P LEWI-P<br>ONEI-P ONON-X OSWE-C SARA-P<br>SENE-P STLA-P WARR-C WAYN-P<br>WYOM-C YATE-P  | G5          | S2         | T            |
| Carex collinsii            | Collins' Sedge        | NASS-P RICH-P SUFF-C  | G4          | S1         | E            |
| Carex conjuncta            | Soft Fox Sedge        | CHEM-P HERK-P ONEI-P RENS-P<br>SARA-? WEST-P  | G4G5        | SH         | E            |
| Carex crawei               | Crawe's Sedge         | CLIN-C ERIE-P GENE-C HERK-P<br>JEFF-C MONR-P ONEI-? STLA-C<br>WARR-C  | G5          | S2         | T            |
| Carex cumulata             | Clustered Sedge       | ALBA-P CLIN-C DUTC-P ESSE-P<br>FULT-P GREE-C ONEI-P ORAN-C<br>PUTN-C ROCK-C SUFF-P SULL-?<br>ULST-C WARR-P WASH-P   | G4?         | S2S3       | T            |
| Carex davisii              | Davis' Sedge          | ALBA-C COLU-P DUTC-C ERIE-P<br>GREE-C LIVI-P MONR-P ONEI-P<br>ORAN-C QUEE-P RENS-C SARA-?<br>SCHE-X ULST-C WEST-P   | G4          | S2         | T            |
| Carex debilis var. debilis | White-edge Sedge      | HAMI-C NASS-C ONEI-C SUFF-C   | G5T5        | S2         | U            |
| Carex decomposita          | Cypress-knee Sedge    | LIVI-P MONR-P ONEI-P ONTA-P<br>SENE-P YATE-P  | G3          | SH         | E            |
| Carex echinoides           | Bristly Nodding Sedge | JEFF-C STLA-C   | G5          | S1         | U            |
| Carex emoryi               | Emory's Sedge         | CATT-C CLIN-C LIVI-C SULL-P   | G5          | S1S2       | E            |



## *2010 Rare Plant Status List - Active Inventory List*

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|--------------------|--------------------|--|-------------|------------|--------------|
| Carex formosa      | Handsome Sedge     | CAYU-P CLIN-C COLU-C DUTC-P<br>ESSE-C GENE-C LIVI-C MONR-P<br>ONEI-P ONTA-P OTSE-P RENS-P<br>SCHE-P STLA-C WASH-C YATE-P   | G4          | S2         | T            |
| Carex frankii      | Frank's Sedge      | MADI-P ONEI-P ROCK-C TOMP-?<br>ULST-C WAYN-C   | G5          | S1         | E            |
| Carex garberi      | Elk Sedge          | CAYU-P CLIN-P ERIE-P JEFF-P<br>NIAG-C WARR-P WAYN-P  | G5          | S1         | E            |
| Carex glaucoidea   | Glaucous Sedge     | ALBA-P BRON-P DUTC-P GREE-P<br>ONON-X ORAN-C RENS-P RICH-P<br>ROCK-P SCHE-X TOMP-C ULST-C  | G5          | S2S3       | E            |
| Carex gynocrates   | Northern Bog Sedge | GENE-C HERK-P LEWI-P MONR-P<br>OSWE-P SENE-P STLA-C WAYN-P<br>YATE-?   | G5          | S1         | E            |
| Carex haydenii     | Cloud Sedge        | ALBA-P CATT-P CAYU-P CHEN-P<br>CLIN-C ERIE-P ESSE-P FRAN-C<br>HAMI-P HERK-P JEFF-P LEWI-P<br>MADI-P ONON-? ORAN-C STEU-P   | G5          | S1         | E            |
| Carex hormathodes  | Marsh Straw Sedge  | BRON-P KING-X NASS-P ORAN-C<br>QUEE-X RICH-P ROCK-C SUFF-C<br>YATE-P   | G4G5        | S2S3       | T            |
| Carex houghtoniana | Houghton's Sedge   | CLIN-C ESSE-C FRAN-P FULT-P<br>HAMI-P JEFF-C MONR-? ONEI-?<br>OSWE-C SARA-P WARR-P   | G5          | S2         | T            |
| Carex jamesii      | James' Sedge       | GENE-C JEFF-P LIVI-C MONR-C<br>ONTA-P TOMP-C WAYN-P  | G5          | S2         | T            |
| Carex livida       | Livid Sedge        | ESSE-C HERK-C JEFF-C MADI-P<br>MONR-P ONEI-P OSWE-C  | G5          | S1         | E            |
| Carex lupuliformis | False Hop Sedge    | ALBA-P BRON-P CAYU-P ERIE-C<br>ESSE-C FULT-P GENE-P GREE-C<br>JEFF-? LEWI-C MONR-C ONEI-?<br>ONTA-C ORAN-C PUTN-? ROCK-P<br>SENE-P STEU-C SUFF-P TOMP-P<br>ULST-C WASH-C WAYN-P WEST-P<br>YATE-P | G4          | S2         | R            |
| Carex meadii       | Mead's Sedge       | ERIE-P HERK-P ORAN-? QUEE-X<br>YATE-P  | G4G5        | SH         | E            |



## *2010 Rare Plant Status List - Active Inventory List*

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|-------------------------------|--------------------|---|-------------|------------|--------------|
| <i>Carex merritt-feraldii</i> | Fernald's Sedge    | CLIN-C DUTC-P ESSE-C FRAN-C<br>GREE-P JEFF-C RENS-P SARA-P<br>STLA-C SUFF-C ULST-P WARR-C<br>WASH-C WYOM-P  | G5          | S2S3       | T            |
| <i>Carex mesochorea</i>       | Midland Sedge      | NASS-C ONON-C ORAN-C RENS-C<br>ROCK-C SUFF-C  | G4G5        | S2         | E            |
| <i>Carex mitchelliana</i>     | Mitchell's Sedge   | NASS-C ONEI-? QUEE-P SUFF-C<br>WEST-P   | G4          | S1S2       | T            |
| <i>Carex molesta</i>          | Troublesome Sedge  | ALBA-P BRON-P CAYU-P CHEM-?<br>COLU-P ERIE-P GENE-P HAMI-P<br>JEFF-C LIVI-? MONR-P MONT-P<br>NASS-P NIAG-P ONEI-P ONON-C<br>ORAN-P RENS-P ROCK-P SCHE-P<br>SENE-? STLA-C TIOG-? TOMP-P<br>ULST-P WASH-? WEST-? YATE-C                         | G4          | S2S3       | T            |
| <i>Carex nigra</i>            | Black Sedge        | DUTC-P MONR-? ONEI-? RENS-?<br>WARR-C WAYN-?  | G5          | S1         | E            |
| <i>Carex nigromarginata</i>   | Black-edge Sedge   | MONR-P NASS-P ORAN-C SUFF-P<br>WEST-P   | G5          | S2         | E            |
| <i>Carex polymorpha</i>       | Variable Sedge     | NASS-X QUEE-X SUFF-X  | G3          | SX         | U            |
| <i>Carex retroflexa</i>       | Reflexed Sedge     | ALBA-P BRON-P CAYU-P CHEM-P<br>CLIN-P COLU-P DUTC-P ERIE-P<br>GREE-P HAMI-P MONR-P NASS-P<br>NEWY-P NIAG-P ONON-C ONTA-P<br>ORAN-C QUEE-P RENS-? RICH-P<br>ROCK-C SARA-P SCHE-? SCHO-P<br>SUFF-P TOMP-P ULST-P WARR-P<br>WASH-P WEST-P YATE-P | G5          | S2S3       | E            |
| <i>Carex reznicekii</i>       | Reznicek's Sedge   | NEWY-P ORAN-C ULST-C  | G5          | S1S2       | U            |
| <i>Carex richardsonii</i>     | Richardson's Sedge | MONR-X  | G4          | SX         | U            |
| <i>Carex sartwellii</i>       | Sartwell's Sedge   | CAYU-P ERIE-P MADI-P MONR-C<br>ONEI-P ONON-P SENE-C STLA-C<br>WAYN-P YATE-P   | G4G5        | S1S2       | T            |



## 2010 Rare Plant Status List - Active Inventory List

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|----------------------------------|-----------------------------|---------------------------------------|-------------|------------|--------------|
| Carex schweinitzii               | Schweinitz's Sedge          | ALLE-C BRON-P CATT-C CAYU-P           | G3G4        | S2S3       | T            |
|                                  |                             | CLIN-P COLU-P CORT-C DUTC-P           |             |            |              |
|                                  |                             | ERIE-C GREE-P HERK-P MADI-C           |             |            |              |
|                                  |                             | MONR-P NEWY-X ONEI-C ONON-P           |             |            |              |
|                                  |                             | OSWE-P QUEE-P RENS-P SCHO-P           |             |            |              |
|                                  |                             | TIOG-P TOMP-C WAYN-P WYOM-C           |             |            |              |
| Carex scirpoidea ssp. scirpoidea | Canadian Single-spike Sedge | ESSE-C WASH-C                         | G5T5        | S1         | E            |
| Carex shortiana                  | Short's Sedge               | ONON-C ORAN-C SUFF-P WAYN-C           | G5          | S1         | E            |
| Carex straminea                  | Straw Sedge                 | BRON-P CAYU-P DUTC-P GREE-P           | G5          | S1         | E            |
|                                  |                             | LIVI-C NASS-P ONTA-P ORAN-C           |             |            |              |
|                                  |                             | OSWE-P QUEE-P RICH-P ROCK-P           |             |            |              |
|                                  |                             | SCHE-P SUFF-P ULST-P WASH-P           |             |            |              |
|                                  |                             | WAYN-P WEST-P YATE-P                  |             |            |              |
| Carex striatula                  | Lined Sedge                 | KING-X ORAN-C RICH-P SUFF-P           | G4G5        | S1         | E            |
| Carex styloflexa                 | Bent Sedge                  | BRON-P MADI-P NASS-P ORAN-?           | G4G5        | S1         | E            |
|                                  |                             | QUEE-X RENS-C RICH-P SUFF-C           |             |            |              |
|                                  |                             | TIOG-? ULST-C WEST-P                  |             |            |              |
| Carex sychnocephala              | Many-head Sedge             | HERK-P JEFF-P ONEI-P STLA-X           | G4          | SH         | E            |
| Carex tenuiflora                 | Sparse-flowered Sedge       | ERIE-P ESSE-P LEWI-C MADI-P           | G5          | S1         | E            |
|                                  |                             | ONEI-P OSWE-C SARA-P STLA-C           |             |            |              |
|                                  |                             | WARR-P                                |             |            |              |
| Carex tinctoria                  | Tinged Sedge                | DUTC-P HERK-P RENS-X                  | G4G5        | SH         | E            |
| Carex typhina                    | Cat-tail Sedge              | BRON-P CATT-P CLIN-C COLU-P           | G5          | S1         | T            |
|                                  |                             | DUTC-P ESSE-P KING-P ONEI-P           |             |            |              |
|                                  |                             | ORAN-C QUEE-C RICH-P STEU-P           |             |            |              |
|                                  |                             | SUFF-C SULL-P TIOG-P WASH-C           |             |            |              |
|                                  |                             | WEST-C                                |             |            |              |
| Carex vaginata                   | Sheathed Sedge              | CORT-P ESSE-P GENE-C LEWI-P<br>MONR-P | G5          | S1         | E            |
| Carex venusta                    | Dark-green sedge            | NASS-P SUFF-C                         | G4          | S1         | E            |
| Carex wiegandii                  | Wiegand's Sedge             | FRAN-C LEWI-C                         | G4          | S1         | E            |
| Carya laciniata                  | Big Shellbark Hickory       | CATT-C CAYU-C CHEM-P ERIE-C           | G5          | S2         | T            |
|                                  |                             | LIVI-C MONR-C ONEI-P ONON-P           |             |            |              |
|                                  |                             | ROCK-P SENE-P STEU-P TIOG-?           |             |            |              |
|                                  |                             | TOMP-P WAYN-C WEST-?                  |             |            |              |



## *2010 Rare Plant Status List - Active Inventory List*

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|--|---------------------------|--|-------------|------------|--------------|
| Castilleja coccinea                        | Scarlet Indian-paintbrush | CAYU-? DUTC-C ERIE-P GENE-P<br>JEFF-C LIVI-P MADI-? MONR-P<br>NASS-? NIAG-P ONON-P ONTA-P<br>ORAN-P QUEE-X RICH-P ROCK-P<br>SENE-P STEU-P STLA-C TOMP-?<br>ULST-P WEST-P YATE-P  | G5          | S1         | E            |
| Ceanothus herbaceus                        | Prairie Redroot           | CHEM-P CLIN-C JEFF-C   | G5          | S1         | E            |
| Cenchrus tribuloides                       | Dune Sandspur             | ALBA-P BRON-P KING-C NASS-P<br>QUEE-C RICH-C SUFF-?  | G5          | S2         | T            |
| Chaerophyllum procumbens                   | Spreading Chervil         | CHEM-P CHEN-? ERIE-C GENE-P<br>MONR-P ONON-P TOMP-P WAYN-P   | G5          | S1         | E            |
| Chamaecyparis thyoides                     | Atlantic White Cedar      | NASS-C ORAN-C PUTN-C RICH-X<br>SUFF-C  | G4          | S2         | R            |
| Chamaelirium luteum                        | Fairy Wand                | BRON-X BROO-P CATT-C CAYU-?<br>CHAU-P CHEM-P COLU-P DUTC-C<br>ERIE-C GENE-P GREE-? LIVI-P<br>MONR-P MONT-? ONON-P ORAN-?<br>PUTN-X QUEE-X RENS-P RICH-?<br>ROCK-P SCHO-P SENE-P STEU-?<br>TIOG-P TOMP-P ULST-? WASH-P<br>WEST-P YATE-P | G5          | S1S2       | T            |
| Chasmanthium laxum                         | Slender Spikegrass        | NASS-X RICH-X SUFF-C   | G5          | S1         | E            |
| Cheilanthes lanosa                         | Woolly Lip-fern           | BRON-X DUTC-X NASS-? NEWY-X<br>ROCK-X ULST-P WEST-X  | G5          | SH         | E            |
| Chenopodium berlandieri var. macrocalycium | Large Calyx Goosefoot     | BRON-P KING-P NASS-P NEWY-X<br>QUEE-P RICH-P SUFF-C  | G5T4        | S1S2       | E            |
| Chenopodium rubrum                         | Red Pigweed               | BRON-P CAYU-? KING-P MONR-P<br>NASS-C NEWY-? ONEL-? ONON-X<br>RENS-? RICH-? SENE-? STLA-?<br>SUFF-C TOMP-? WEST-P  | G5          | S2         | T            |
| Cirsium altissimum                         | Tall Thistle              | BRON-X ESSE-X KING-X MONT-X<br>NEWY-? RENS-? RICH-X SARA-?<br>SCHE-? SUFF-X WEST-X   | G5          | SX         | U            |
| Clematis ochroleuca                        | Curly-heads               | KING-X NASS-X RICH-X SUFF-?  | G4          | SX         | U            |
| Collinsia verna                            | Blue-eyed-Mary            | ALLE-P CHAU-? ERIE-P HERK-P<br>MADI-P MONR-P NIAG-? ONEL-P<br>SCHE-? TOMP-P  | G5          | SH         | E            |



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|---|--------------------------|--|-------------|------------|--------------|
| <i>Commelina erecta</i> var. <i>erecta</i>        | Slender Dayflower        | NEWY-X QUEE-? RICH-?   | G5T5        | SX         | U            |
| <i>Corallorhiza striata</i> var. <i>striata</i>   | Striped Coralroot        | JEFF-P LEWI-P MAD-C MONR-P<br>ORLE-P   | G5T4T5      | S1         | E            |
| <i>Corema conradii</i>                            | Broom Crowberry          | ULST-C   | G4          | S1         | E            |
| <i>Coreopsis rosea</i>                            | Rose Coreopsis           | NASS-X SUFF-C  | G3          | S3         | R            |
| <i>Cornus drummondii</i>                          | Rough-leaf Dogwood       | CATT-C ERIE-C NIAG-P   | G5          | S1         | E            |
| <i>Corydalis aurea</i>                            | Golden Corydalis         | CLIN-C DUTC-P ESSE-C JEFF-C<br>LEWI-? NASS-P NEWY-? ROCK-P<br>SARA-P TOMP-P ULST-P WASH-C                                | G5          | S2         | T            |
| <i>Crassula aquatica</i>                          | Water Pigmyweed          | ORAN-C PUTN-P ROCK-C SUFF-C<br>ULST-P WEST-P   | G5          | S1         | E            |
| <i>Crataegus berberifolia</i>                     | Barberry-leaved Hawthorn | SUFF-C   | G4          | S1         | E            |
| <i>Crataegus mollis</i>                           | Downy Hawthorn           | SUFF-C   | G5          | S1         | E            |
| <i>Crataegus uniflora</i>                         | Dwarf Hawthorn           | CHAU-P RICH-C SUFF-P   | G5          | S1         | E            |
| <i>Crocanthemum dumosum</i>                       | Bushy Rockrose           | NASS-C SUFF-C  | G3          | S2         | T            |
| <i>Crocanthemum propinquum</i>                    | Early Frostweed          | NASS-C SUFF-C  | G4          | S2S3       | U            |
| <i>Crotalaria sagittalis</i>                      | Rattlebox                | BRON-P COLU-P DUTC-P LEWI-?<br>NASS-C NEWY-P ORAN-P PUTN-P<br>QUEE-P RENS-? RICH-? ROCK-C<br>SARA-P SUFF-P ULST-P WEST-C | G5          | S1         | E            |
| <i>Cuscuta campestris</i>                         | Field Dodder             | ERIE-C ONON-P PUTN-C QUEE-?<br>SUFF-C  | G5          | S1         | U            |
| <i>Cuscuta cephalanthi</i>                        | Button-bush Dodder       | CAYU-P DUTC-C MONR-? NASS-P<br>ONON-? ONTA-? RICH-P ROCK-P<br>SENE-P TOMP-? ULST-C WASH-P                                | G5          | S1         | E            |
| <i>Cuscuta obtusiflora</i> var. <i>glandulosa</i> | Southern Dodder          | GREE-C RICH-C ROCK-C   | G5T4T5      | S1         | E            |
| <i>Cuscuta polygonorum</i>                        | Smartweed Dodder         | DUTC-C MONR-P NASS-C NIAG-C<br>PUTN-C QUEE-C SUFF-P ULST-?   | G5          | S1         | E            |



## 2010 Rare Plant Status List - Active Inventory List

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|--|--------------------------|--|-------------|------------|--------------|
| Cynoglossum virginianum var. boreale     | Northern Wild Comfrey    | ALBA-P CATT-P CHEM-P CLIN-C  | G5T4T5      | S1S2       | E            |
|  |                          | DELA-? ERIE-P ESSE-P FRAN-?  |             |            |              |
|  |                          | GENE-P GREE-P JEFF-P LEWI-C  |             |            |              |
|  |                          | LIVI-P MADI-P MONR-P NIAG-P  |             |            |              |
|  |                          | ONEI-? ONON-P ORAN-P SARA-P  |             |            |              |
|  |                          | SCHE-P SCHO-P SCHU-P TIOG-P  |             |            |              |
|  |                          | TOMP-P ULST-P WARR-P WASH-P  |             |            |              |
|  |                          | YATE-P   |             |            |              |
| Cynoglossum virginianum var. virginianum | Wild Comfrey             | CORT-P NASS-P ONTA-P RICH-P  | G5T5        | SH         | E            |
|  |                          | SUFF-P   |             |            |              |
| Cyperus echinatus                        | Globose Flatsedge        | BRON-C FRAN-? NEWY-X QUEE-X<br>RICH-C WEST-P                         | G5          | S1         | E            |
| Cyperus flavescens                       | Yellow Flatsedge         | BRON-C KING-C NASS-C NEWY-C<br>QUEE-C RICH-? ROCK-C SUFF-C<br>WEST-P | G5          | S1         | E            |
| Cyperus lupulinus ssp. lupulinus         | Hop Sedge                | ALBA-P BRON-P KING-X ONEI-P  | G5T5?       | S2         | T            |
|  |                          | ONON-? OSWE-? PUTN-C QUEE-C  |             |            |              |
|  |                          | RICH-C SARA-? SUFF-C WARR-C  |             |            |              |
| Cyperus plukenetii                       | Galingale                | NEWY-? RICH-X  | G5          | SX         | U            |
| Cyperus polystachyos var. texensis       | Coast Flatsedge          | NASS-P QUEE-C RICH-P SUFF-C  | G5T5        | S1S2       | E            |
| Cyperus retrorsus var. retrorsus         | Retrorse Flatsedge       | KING-P NASS-P QUEE-C RICH-P<br>SUFF-C WEST-P                         | G5T5        | S1         | E            |
| Cypripedium arietinum                    | Ram's-head Ladyslipper   | ALBA-C CLIN-C ESSE-C FULT-P  | G3          | S2         | T            |
|  |                          | HERK-C JEFF-C LEWI-C MADI-?  |             |            |              |
|  |                          | MONT-P ONEI-P ONON-P OSWE-P  |             |            |              |
|  |                          | OTSE-P SCHE-X WARR-P WAYN-P  |             |            |              |
|  |                          |  |             |            |              |
| Cypripedium candidum                     | Small White Ladyslipper  | CHEM-? ERIE-P GENE-C LIVI-C  | G4          | S1         | E            |
|  |                          | ONON-P ONTA-? OTSE-? SCHU-P  |             |            |              |
|  |                          | WARR-P   |             |            |              |
| Cypripedium parviflorum var. parviflorum | Small Yellow Ladyslipper | BRON-X CHEM-P LEWI-P LIVI-P  | G5T3T5      | SH         | E            |
|  |                          | MADI-P ONEI-P ONON-P OTSE-?  |             |            |              |
|  |                          | RENS-P SCHE-P STLA-P TOMP-P  |             |            |              |
|  |                          | ULST-P WEST-X WYOM-P   |             |            |              |
|  |                          |  |             |            |              |
| Cystopteris protrusa                     | Lowland Fragile Fern     | ERIE-P RICH-C SENE-P SUFF-P<br>TOMP-P                                | G5          | S1         | E            |
| Descurainia pinnata ssp. brachycarpa     | Northern Tansy-mustard   | CLIN-C DUTC-P ERIE-P ESSE-C  | G5T5        | S1         | E            |
|  |                          | SCHU-P SUFF-P TOMP-P   |             |            |              |





## 2010 Rare Plant Status List - Active Inventory List

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|--|-----------------------------|---|-------------|------------|--------------|
| Desmodium ciliare                            | Little-leaf Tick-trefoil    | ALBA-P BRON-P DUTC-P ERIE-P<br>GENE-C MADI-P MONR-C NASS-C<br>NEWY-? ONEI-? ONON-C ORAN-?<br>OSWE-P QUEE-P RICH-? SCHE-?<br>SENE-? SUFF-C WEST-P YATE-? | G5          | S2S3       | T            |
| Desmodium humifusum                          | Spreading Tick-trefoil      | BRON-? ORAN-P WEST-P  | G1G2Q       | SH         | E            |
| Desmodium laevigatum                         | Smooth Tick-trefoil         | ALBA-P BRON-P NASS-? NEWY-?<br>QUEE-X RICH-? SUFF-P WEST-P  | G5          | SH         | E            |
| Desmodium nuttallii                          | Nuttall's Tick-trefoil      | ALBA-P BRON-P HERK-P KING-X<br>NEWY-P ONON-? RICH-P SCHE-?<br>SENE-? SUFF-? WEST-? YATE-P   | G5          | SH         | E            |
| Desmodium obtusum                            | Stiff Tick-trefoil          | ALBA-? BRON-P CHEM-P ERIE-?<br>MONR-C NASS-P NEWY-? ONON-?<br>ORAN-C OSWE-P RICH-? SCHE-?<br>SUFF-C TIOG-P ULST-? WEST-P                                | G4G5        | S1         | E            |
| Desmodium pauciflorum                        | Small-flowered Tick-trefoil | CAYU-? CHEM-P GENE-P MONR-P<br>SARA-P SENE-? TIOG-? WAYN-?<br>WEST-?  | G5          | SH         | E            |
| Diapensia lapponica var. lapponica           | Diapensia                   | ESSE-C  | G5T3T5      | S2         | T            |
| Diarrhena obovata                            | Beakgrass                   | ULST-C  | G4G5        | S2         | E            |
| Dichanthelium leibergii                      | Leiberg's Panic Grass       | RENS-C SCHU-P   | G5          | S1         | E            |
| Dichanthelium oligosanthes var. oligosanthes | Few-flowered Panic Grass    | ALBA-P BRON-P KING-P PUTN-P<br>RICH-P ROCK-P SUFF-C ULST-P<br>WEST-P  | G5T5?       | S1         | E            |
| Dichanthelium scabriusculum                  | Rough Panic Grass           | NASS-P ONEI-P OSWE-P QUEE-P<br>SUFF-C   | G4          | SH         | E            |
| Dichanthelium scoparium                      | Velvet Panic Grass          | BRON-P KING-X NEWY-P QUEE-P<br>RICH-C SENE-P SUFF-P TIOG-P<br>YATE-P  | G5          | S1         | E            |
| Dichanthelium wrightianum                    | Wright's Panic Grass        | SUFF-C  | G4          | S1S2       | E            |
| Digitaria filiformis                         | Slender Crabgrass           | ALBA-? BRON-P DUTC-? NASS-P<br>NEWY-P QUEE-P RICH-P SUFF-C<br>ULST-P WEST-P YATE-P  | G5          | S1         | T            |
| Diospyros virginiana                         | Persimmon                   | BRON-C KING-? NASS-C NEWY-P<br>RICH-C SUFF-C WEST-?   | G5          | S2         | T            |



## *2010 Rare Plant Status List - Active Inventory List*

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|----------------------------------|------------------------|---|-------------|------------|--------------|
| <i>Diphasiastrum complanatum</i> | Northern Running-pine  | CORT-P ESSE-C GREE-P LEWI-C<br>ONEI-C STLA-C ULST-P   | G5          | S1         | E            |
| <i>Diphasiastrum sitchense</i>   | Sitka Clubmoss         | DELA-P ESSE-P FRAN-C STLA-?   | G5          | S1         | E            |
| <i>Dodecatheon meadia</i>        | Shooting-star          | STEU-X  | G5          | SX         | U            |
| <i>Draba arabisans</i>           | Rock-cress             | CLIN-C ERIE-P ESSE-C GENE-C<br>JEFF-C LEWI-P NIAG-P ONEI-?<br>ONON-P STLA-P TOMP-C WASH-C<br>YATE-C | G4          | S2         | T            |
| <i>Draba glabella</i>            | Smooth Rock-cress      | CLIN-C WASH-C   | G4G5        | S1         | E            |
| <i>Draba reptans</i>             | Carolina Whitlow-grass | DUTC-C JEFF-C NEWY-P QUEE-?<br>RICH-? SUFF-P WEST-?   | G5          | S2         | T            |
| <i>Dracocephalum parviflorum</i> | American Dragonhead    | ERIE-P FRAN-? JEFF-C LEWI-P<br>ONEI-? STLA-?  | G5          | S1         | E            |
| <i>Dryopteris celsa</i>          | Log Fern               | GENE-P MONR-P ONTA-C RICH-P<br>SENE-?   | G4          | S1         | E            |
| <i>Dryopteris fragrans</i>       | Fragrant Cliff Fern    | ESSE-C FRAN-C GREE-C HAMI-P   | G5          | S1         | E            |
| <i>Echinodorus tenellus</i>      | Burhead                | CORT-X KING-X ONON-X QUEE-X   | G5?         | SX         | U            |
| <i>Elatine americana</i>         | American Waterwort     | ALBA-P COLU-P DUTC-P GREE-C<br>ONEI-? ONON-X ORAN-C RENS-P<br>ROCK-P SUFF-C ULST-P                  | G4          | S1         | E            |
| <i>Eleocharis aestuum</i>        | Tidal Spikerush        | COLU-C GREE-C ULST-P  | G3          | S1         | U            |
| <i>Eleocharis diandra</i>        | Wright's Spikerush     | MADI-P ONEI-C RENS-P  | G1G2        | S1         | U            |
| <i>Eleocharis engelmannii</i>    | Engelmann's Spikerush  | BRON-P COLU-P KING-X NASS-P<br>QUEE-P SUFF-C  | G4G5        | S1         | E            |
| <i>Eleocharis equisetoides</i>   | Knotted Spikerush      | DUTC-C MONR-P NASS-X ONEI-?<br>ONON-? SUFF-C WEST-?   | G4          | S2         | T            |
| <i>Eleocharis fallax</i>         | Creeping Spikerush     | BRON-P SUFF-C ULST-P  | G4G5        | S1         | E            |



## *2010 Rare Plant Status List - Active Inventory List*

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|--------------------------------------|--------------------------|--|-------------|------------|--------------|
| Eleocharis ovata                     | Ovate Spikerush          | ALBA-P CLIN-C COLU-P DUTC-C<br>ERIE-P ESSE-P FRAN-P GENE-C<br>GREE-P HAMI-P HERK-P KING-P<br>LIVI-P MADI-P NASS-C ONEI-P<br>ORAN-? OSWE-P PUTN-? RENS-P<br>RICH-P ROCK-? SARA-P STLA-P<br>SUFF-C SULL-P ULST-C WARR-P<br>WASH-? WEST-? | G5          | S1S2       | E            |
| Eleocharis quadrangulata             | Angled Spikerush         | CAYU-C OSWE-P RICH-C ROCK-P<br>SUFF-C ULST-P WEST-C  | G4          | S1         | E            |
| Eleocharis tenuis var. pseudoptera   | Slender Spikerush        | BRON-C PUTN-P QUEE-X SUFF-C  | G5T5?       | S1         | E            |
| Eleocharis tortilis                  | Twisted Spikerush        | NASS-X   | G5          | SX         | U            |
| Eleocharis tricostata                | Three-ribbed Spikerush   | SENE-P SUFF-C WEST-P   | G4          | S1         | E            |
| Eleocharis tuberculosa               | Long-tubercled Spikerush | NASS-P QUEE-P RICH-P SUFF-C<br>WEST-P  | G5          | S2         | T            |
| Eleocharis uniglumis var. halophila  | Salt-marsh Spikerush     | BRON-P CAYU-P JEFF-P KING-P<br>NASS-P NEWY-P ONEI-X OSWE-P<br>QUEE-? ROCK-C SUFF-C   | G4T4        | S2         | T            |
| Ellisia nyctelea                     | Aunt Lucy                | NEWY-X   | G5          | SX         | U            |
| Elymus glaucus ssp. glaucus          | Blue Wild Rye            | SULL-C   | G5T5        | S1         | U            |
| Empetrum atropurpureum               | Purple Crowberry         | ESSE-C   | G5          | S1         | E            |
| Empetrum nigrum                      | Black Crowberry          | ESSE-C SUFF-X  | G5          | S3         | R            |
| Endodeca serpentaria                 | Virginia Snakeroot       | BRON-P KING-? NASS-P NEWY-P<br>ORAN-C PUTN-P QUEE-X RICH-P<br>ROCK-C SCHE-X ULST-P WEST-P  | G4          | S2         | E            |
| Enemion biternatum                   | False Rue-anemone        | ERIE-X   | G5          | SX         | U            |
| Epilobium homemannii ssp. homemannii | Alpine Willow-herb       | ESSE-C HERK-? JEFF-C   | G5T5        | S1         | E            |
| Equisetum laevigatum                 | Smooth Scouring Rush     | CAYU-X JEFF-X LEWI-X TOMP-X<br>WAYN-X  | G5          | SX         | E            |
| Equisetum palustre                   | Marsh Horsetail          | CLIN-C DUTC-C ERIE-P HERK-P<br>JEFF-P LEWI-C MADI-C MONR-P<br>NIAG-? ONON-X ORLE-? OSWE-P<br>SCHU-C STLA-C TOMP-C WASH-C<br>WEST-P   | G5          | S2         | T            |



## *2010 Rare Plant Status List - Active Inventory List*

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|---|----------------------------|---|-------------|------------|--------------|
| <i>Equisetum pratense</i>                                 | Meadow Horsetail           | CLIN-C DELA-P DUTC-? ESSE-C<br>NIAG-? ONEI-P PUTN-C STLA-C<br>SUFF-P ULST-C WASH-C WEST-P | G5          | S2         | T            |
| <i>Erechtites hieraciifolius</i> var. <i>megalocarpus</i> | Large Fruited Fireweed     | SUFF-C  | G5T3        | S1         | E            |
| <i>Erigenia bulbosa</i>                                   | Harbinger-of-spring        | BROO-P ERIE-P MONR-C NIAG-C   | G5          | S1         | E            |
| <i>Erigeron hyssopifolius</i>                             | Daisy Fleabane             | ESSE-X HAMI-C   | G5          | S1         | E            |
| <i>Erigeron philadelphicus</i> var. <i>provancheri</i>    | Provancher's Fleabane      | DUTC-P WASH-C   | G5T2Q       | S1         | U            |
| <i>Eriocaulon parkeri</i>                                 | Estuary Hatpins            | ALBA-X COLU-X DUTC-X GREE-X<br>ORAN-X ROCK-X ULST-X                                       | G3          | SX         | U            |
| <i>Eriophorum angustifolium</i> ssp. <i>angustifolium</i> | Narrow-leaf Cottongrass    | CHAU-? DUTC-? FRAN-P JEFF-P<br>MONR-? ONEI-P RENS-? SENE-P                                | G5T5        | SH         | E            |
| <i>Eryngium aquaticum</i>                                 | Marsh Eryngo               | NEWY-X RICH-X   | G4          | SX         | U            |
| <i>Euonymus americanus</i>                                | American Strawberry-bush   | BRON-P ERIE-? MONR-P NASS-C<br>NEWY-? QUEE-P RICH-C ROCK-P<br>SCHE-? WEST-?               | G5          | S1         | E            |
| <i>Eupatorium album</i> var. <i>album</i>                 | White Boneset              | RICH-C SUFF-P   | G5T5        | S1         | U            |
| <i>Eupatorium album</i> var. <i>subvenosum</i>            | Trinerved White Boneset    | BRON-P NASS-P QUEE-? SUFF-C   | G5T3T4      | S2S3       | T            |
| <i>Eupatorium leucolepis</i> var. <i>leucolepis</i>       | White-bracted Boneset      | RICH-C SUFF-C   | G5T5        | S1         | E            |
| <i>Eupatorium pubescens</i>                               | Serrate Round-leaf Boneset | QUEE-? RICH-P SUFF-C  | G5T5        | S1         | E            |
| <i>Eupatorium resinosum</i>                               | Pine Barrens Boneset       | QUEE-X  | G3          | SX         | U            |
| <i>Eupatorium rotundifolium</i>                           | Round-leaf Boneset         | NASS-P QUEE-P RICH-P SUFF-P   | G5          | SH         | E            |
| <i>Eupatorium torreyanum</i>                              | Fringed Boneset            | NASS-C QUEE-C RICH-C SUFF-C   | G5T4T5      | S2         | T            |
| <i>Euphorbia ipecacuanhae</i>                             | American Ipecac            | NASS-C NEWY-X QUEE-? RICH-P<br>SUFF-C   | G5          | S1         | E            |
| <i>Eurybia radula</i>                                     | Swamp Aster                | NASS-P QUEE-X RICH-P STLA-P<br>SUFF-P   | G5          | SH         | E            |
| <i>Eurybia spectabilis</i>                                | Showy Aster                | ONON-X RICH-? ROCK-C SUFF-C   | G5          | S2         | T            |
| <i>Festuca saximontana</i> var. <i>saximontana</i>        | Sheep Fescue               | ESSE-C  | G5T5        | S1         | E            |



## *2010 Rare Plant Status List - Active Inventory List*

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| <i>Fimbristylis caroliniana</i>                   | Carolina Fimbry            | SUFF-X  | G4          | SX         | U            |
| <i>Fimbristylis castanea</i>                      | Marsh Fimbry               | QUEE-P RICH-? SUFF-C WEST-?   | G5          | S2         | T            |
| <i>Fimbristylis puberula</i> var. <i>puberula</i> | Hairy Fimbry               | NASS-X  | G5T5        | SX         | U            |
| <i>Frasera caroliniensis</i>                      | Green Gentian              | ALLE-C ERIE-P GENE-C LIVI-C<br>MONR-P ONEI-? ONTA-P WYOM-C  | G5          | S2         | T            |
| <i>Galactia volubilis</i>                         | Downy Milk-pea             | CHAU-? MONR-X NEWY-X QUEE-X<br>RICH-? SUFF-X WEST-X   | G5          | SX         | U            |
| <i>Galium concinnum</i>                           | Shining Bedstraw           | CATT-P DUTC-C MONR-P ONON-P<br>ONTA-P PUTN-C  | G5          | S1         | E            |
| <i>Galium kamschaticum</i>                        | Northern Wild-licorice     | ESSE-C HAMI-P   | G5          | S1         | E            |
| <i>Gaylussacia bigeloviana</i>                    | Northern Dwarf Huckleberry | NASS-P PUTN-C SUFF-C  | G4G5        | S1S2       | E            |
| <i>Gentiana puberulenta</i>                       | Prairie Gentian            | ERIE-X MONR-X   | G4G5        | SX         | U            |
| <i>Gentiana saponaria</i>                         | Soapwort Gentian           | DUTC-P KING-X NASS-P NEWY-X<br>QUEE-X RICH-C SUFF-P   | G5          | S1         | E            |
| <i>Gentianopsis virgata</i>                       | Lesser Fringed Gentian     | ERIE-P MONR-P NIAG-C STLA-C   | G5          | S1         | E            |
| <i>Geocaulon lividum</i>                          | False Toadflax             | ESSE-C  | G5          | S1         | E            |
| <i>Geum macrophyllum</i> var. <i>macrophyllum</i> | Bigleaf Yellow Avens       | ESSE-P ULST-C   | G5T5        | S1         | U            |
| <i>Geum triflorum</i> var. <i>triflorum</i>       | Prairie-smoke              | JEFF-C OSWE-?   | G5T5        | S2         | T            |
| <i>Geum virginianum</i>                           | Rough Avens                | ALBA-P BRON-P CAYU-P CHEM-P<br>COLU-P DUTC-? ERIE-P GREE-C<br>JEFF-C LIVI-C MADI-P MONR-P<br>NASS-X NIAG-? ONEI-P ONON-P<br>ONTA-P ORAN-C PUTN-C QUEE-P<br>RENS-? ROCK-P SCHE-P SCHU-?<br>STLA-P SUFF-C SULL-? TIOG-P<br>ULST-C WASH-P WEST-P | G5          | S2         | E            |
| <i>Glycyrrhiza lepidota</i>                       | American Licorice          | ERIE-X  | G5          | SX         | U            |
| <i>Gymnocladus dioicus</i>                        | Kentucky Coffee Tree       | CAYU-C JEFF-P ONEI-P ONON-P<br>ONTA-C TOMP-C  | G5          | S1         | E            |
| <i>Hackelia deflexa</i> var. <i>americana</i>     | Northern Stickseed         | ALBA-P CLIN-X JEFF-C SCHO-P   | G5T5        | S1         | E            |



## *2010 Rare Plant Status List - Active Inventory List*

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| <i>Halenia deflexa</i>                         | Spurred Gentian               | CLIN-C ESSE-C HAMI-C HERK-P<br>ONEI-P SULL-P WARR-C  | G5          | S1         | E            |
| <i>Harrimanella hypnoides</i>                  | Moss-heather                  | ESSE-X HAMI-X  | G5          | SX         | U            |
| <i>Hasteola suaveolens</i>                     | Sweet-scented Indian-plantain | CATT-C CHEM-P CHEN-P GENE-P<br>LIVI-C MONR-P ONON-P TIOG-P   | G4          | S1         | E            |
| <i>Hedeoma hispida</i>                         | Mock-pennyroyal               | ALBA-C CLIN-P COLU-C DUTC-C<br>ESSE-C FRAN-P HERK-P JEFF-C<br>RENS-P SARA-C SCHE-P STLA-P<br>SUFF-P ULST-C WARR-P WASH-P   | G5          | S2S3       | T            |
| <i>Helianthus angustifolius</i>                | Swamp Sunflower               | KING-X NASS-P QUEE-X RICH-?<br>SUFF-C  | G5          | S2         | T            |
| <i>Helonias bullata</i>                        | Swamp Pink                    | RICH-X   | G3          | SX         | U            |
| <i>Hippuris vulgaris</i>                       | Common Mare's-tail            | CAYU-P CORT-P ESSE-P FRAN-C<br>LEWI-C ONTA-P OTSE-P SENE-P<br>STLA-P WASH-P  | G5          | S1         | E            |
| <i>Hottonia inflata</i>                        | Featherfoil                   | JEFF-? NASS-P ORAN-C QUEE-X<br>RICH-C ROCK-P SUFF-C WEST-C   | G4          | S2         | T            |
| <i>Houstonia purpurea</i> var. <i>calycosa</i> | Southern Bluets               | ESSE-P NASS-P SUFF-P TOMP-P<br>ULST-P WASH-P   | G5T5        | SH         | E            |
| <i>Houstonia purpurea</i> var. <i>purpurea</i> | Purple Bluets                 | MONR-? SUFF-P WASH-P WEST-P  | G5T5        | SH         | E            |
| <i>Huperzia selago</i>                         | Fir Clubmoss                  | ESSE-P STLA-C  | G5          | S1         | E            |
| <i>Hydrangea arborescens</i>                   | Wild Hydrangea                | BRON-P BROO-P CHEM-C CHEN-P<br>DELA-? ORAN-P PUTN-P ROCK-P<br>STEU-P SULL-P TIOG-? WYOM-C  | G5          | S2         | E            |
| <i>Hydrastis canadensis</i>                    | Golden-seal                   | ALBA-C BRON-C CAYU-C COLU-P<br>DUTC-C ERIE-C GENE-C HERK-C<br>LIVI-C MADI-C MONR-C NIAG-P<br>ONEI-? ONON-P ORAN-? ORLE-P<br>RENS-C SARA-C SCHU-P TOMP-P<br>ULST-P WAYN-P WYOM-C YATE-? | G4          | S2         | T            |
| <i>Hydrocotyle ranunculoides</i>               | Floating Pennywort            | CHAU-C   | G5          | S1         | E            |
| <i>Hydrocotyle verticillata</i>                | Whorled-pennywort             | RICH-C SUFF-C  | G5          | S1         | E            |
| <i>Hydrophyllum appendiculatum</i>             | Appendaged Waterleaf          | MONR-P   | G5          | SH         | U            |



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| <i>Hylotelephium telephioides</i>                    | Live-forever                    | DELA-? DUTC-P FULT-P ONEL-P<br>SUFF-P WASH-P WEST-P   | G4          | SH         | E            |
| <i>Hypericum adpressum</i>                           | Creeping St. John's-wort        | NASS-X SUFF-C   | G3          | S2         | E            |
| <i>Hypericum densiflorum</i>                         | Bushy St. John's-wort           | NASS-P SUFF-C   | G5          | S1         | E            |
| <i>Hypericum denticulatum</i>                        | Coppery St. John's-wort         | SUFF-C  | G5          | S1         | E            |
| <i>Hypericum gymnanthum</i>                          | Clasping-leaved St. John's-wort | SUFF-X  | G4          | SX         | U            |
| <i>Hypericum hypericoides</i> ssp. <i>multicaule</i> | St. Andrew's Cross              | NASS-C RICH-C SUFF-C  | G5T4        | S1         | E            |
| <i>Hypericum kalmianum</i>                           | Kalm's St. John's-wort          | NIAG-X  | G4          | SX         | U            |
| <i>Hypericum prolificum</i>                          | Shrubby St. John's-wort         | ALLE-P BRON-? CATT-C CHEN-?<br>COLU-P CORT-P NIAG-? OSWE-P<br>SARA-P SENE-C SUFF-C WEST-C   | G5          | S2         | T            |
| <i>Ipomoea pandurata</i>                             | Wild Potato-vine                | BRON-? CATT-P DUTC-? ERIE-?<br>MONR-C RICH-C ROCK-P   | G5          | S1         | E            |
| <i>Iris prismatica</i>                               | Slender Blue Flag               | BRON-C DUTC-? KING-X NASS-P<br>ONON-X QUEE-X RICH-C ROCK-P<br>SUFF-C WEST-P   | G4G5        | S2         | T            |
| <i>Iris virginica</i> var. <i>shrevei</i>            | Southern Blue Flag              | ERIE-C  | G5T5        | S1         | E            |
| <i>Isoetes riparia</i>                               | Riverbank Quillwort             | BRON-P CLIN-? COLU-C DUTC-P<br>ESSE-P GREE-P ORAN-P RENS-P<br>ROCK-C SARA-P STLA-P SUFF-P<br>SULL-C ULST-P WASH-P                         | G5?         | S1         | E            |
| <i>Isotria medeoloides</i>                           | Small Whorled Pogonia           | NASS-P ONON-P ROCK-P SUFF-P<br>ULST-P WASH-P  | G2          | SH         | E            |
| <i>Jeffersonia diphylla</i>                          | Twin-leaf                       | ALLE-C CATT-P CAYU-C ERIE-C<br>GENE-C JEFF-P LIVI-C MONR-C<br>NIAG-X ONON-C ONTA-C ORLE-P<br>RENS-C SENE-C STEU-C WAYN-P<br>WEST-P YATE-C | G5          | S2         | T            |
| <i>Juncus ambiguus</i>                               | Doubtful Toad-rush              | SUFF-C  | G5          | S1         | E            |
| <i>Juncus biflorus</i>                               | Large Grass-leaved Rush         | BRON-C NASS-C RICH-C SUFF-C   | G5          | S1         | E            |
| <i>Juncus brachycarpus</i>                           | Short-fruit Rush                | BRON-C NASS-P SUFF-P  | G4G5        | S1         | E            |
| <i>Juncus debilis</i>                                | Weak Rush                       | NASS-C ORAN-C SCHE-? SUFF-C   | G5          | S1         | E            |



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| <i>Juncus ensifolius</i>                         | Ensiform Rush             | DELA-C SULL-C   | G5          | S1         | E            |
| <i>Juncus scirpoides</i>                         | Scirpus-like Rush         | BRON-P NASS-P ONON-X OTSE-?<br>QUEE-C RICH-C SUFF-C   | G5          | S1         | E            |
| <i>Juncus stygius</i> ssp. <i>americanus</i>     | Moor Rush                 | ESSE-P HERK-P JEFF-P  | G5T5        | SH         | E            |
| <i>Juncus subcaudatus</i>                        | Woodland Rush             | BRON-P CATT-C DELA-P ERIE-?<br>NASS-C ONEI-P ORAN-C ROCK-?<br>SARA-P SUFF-C SULL-P ULST-C   | G5          | S1         | E            |
| <i>Juncus trifidus</i>                           | Arctic Rush               | ESSE-C ULST-C   | G5          | S2         | T            |
| <i>Juniperus horizontalis</i>                    | Creeping Juniper          | CHEM-P CHEN-P GENE-C LIVI-P<br>MADI-P MONR-P ONEI-P ONON-P  | G5          | S1         | E            |
| <i>Kalmia procumbens</i>                         | Alpine Azalea             | ESSE-C  | G5          | S1         | E            |
| <i>Kosteletzkya virginica</i>                    | Seaside Mallow            | NASS-X  | G5          | SX         | U            |
| <i>Lachnanthes caroliniana</i>                   | Carolina Redroot          | SUFF-C  | G4          | S1         | E            |
| <i>Lactuca floridana</i>                         | False Lettuce             | BRON-C CHEM-? DUTC-? NASS-?<br>ULST-P   | G5          | S1         | E            |
| <i>Lactuca hirsuta</i>                           | Downy Lettuce             | ALBA-? CATT-P CLIN-C DELA-P<br>ERIE-P ESSE-C NASS-P ONEI-?<br>ORAN-P OTSE-P QUEE-X RENS-P<br>RICH-P SCHE-? STLA-C SUFF-P<br>SULL-P TOMP-P ULST-P WARR-C<br>WASH-P | G5?         | S1         | E            |
| <i>Lathyrus venosus</i>                          | Rough Veiny Vetchling     | LIVI-C  | G5          | S1         | E            |
| <i>Lechea pulchella</i> var. <i>moniliformis</i> | Bead Pinweed              | NASS-C RICH-? SUFF-C WEST-?   | G5T4        | S1         | E            |
| <i>Lechea tenuifolia</i>                         | Slender Pinweed           | BRON-P NASS-C ORAN-C SUFF-C<br>WEST-C   | G5          | S2         | T            |
| <i>Lemna perpusilla</i>                          | Minute Duckweed           | BRON-P CLIN-P CORT-P KING-C<br>MONR-? NEWY-? OSWE-C QUEE-P<br>RENS-? RICH-C ROCK-? SUFF-C<br>TOMP-C WEST-P  | G5          | S1         | E            |
| <i>Lemna valdiviana</i>                          | Pale Duckweed             | NASS-C QUEE-C RICH-? SUFF-P   | G5          | S1         | E            |
| <i>Leptochloa fusca</i> ssp. <i>fascicularis</i> | Salt-meadow Grass         | CAYU-C NASS-C ONON-C ROCK-P<br>SUFF-C WAYN-C  | G5T5        | S1         | E            |
| <i>Lespedeza angustifolia</i>                    | Narrow-leaved Bush-clover | NASS-C SUFF-C WEST-P  | G5          | S2         | R            |





## 2010 Rare Plant Status List - Active Inventory List

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| <i>Lespedeza stuevei</i>                          | Velvety Bush-clover      | ERIE-? NASS-P RICH-C SCHE-?<br>SUFF-C TIOG-P ULST-P WASH-P<br>WEST-P   | G4?         | S2         | T            |
| <i>Liatris cylindracea</i>                        | Slender Blazing-star     | NIAG-C   | G5          | S1         | E            |
| <i>Liatris scariosa</i> var. <i>nieuwlandii</i>   | Nieuwland's Blazing-star | CHEM-C   | G5?T3T5     | S1         | U            |
| <i>Liatris scariosa</i> var. <i>novae-angliae</i> | Northern Blazing-star    | ALBA-P DUTC-C KING-P NASS-P<br>NEWY-X QUEE-P RICH-X SUFF-C<br>ULST-? WEST-P  | G5?T3       | S2         | T            |
| <i>Ligusticum scothicum</i> ssp. <i>scothicum</i> | Scotch Lovage            | ONON-X SUFF-C  | G5T4T5      | S1         | E            |
| <i>Lilaeopsis chinensis</i>                       | Eastern Grasswort        | BRON-? NASS-P NEWY-? ORAN-C<br>RICH-? ROCK-C SUFF-C WEST-P   | G5          | S2         | T            |
| <i>Lilium michiganense</i>                        | Michigan Lily            | JEFF-C MONR-P ONON-C   | G5          | S1         | E            |
| <i>Linum intercursum</i>                          | Sandplain Wild Flax      | NASS-P SUFF-C  | G4          | S2         | T            |
| <i>Linum medium</i> var. <i>texanum</i>           | Southern Yellow Flax     | BRON-X DUTC-C NASS-P ORAN-C<br>QUEE-X RENS-C RICH-P STLA-C<br>SUFF-C   | G5T5        | S2         | T            |
| <i>Linum sulcatum</i>                             | Yellow Wild Flax         | ALBA-P BRON-P BROO-? COLU-P<br>CORT-? DUTC-C ERIE-P LIVI-P<br>MADI-P ONEI-? ONON-P ROCK-?<br>TOMP-P WASH-P WYOM-P  | G5          | S2         | T            |
| <i>Liparis liliifolia</i>                         | Large Twayblade          | ALBA-C BRON-? CHAU-? CHEM-P<br>DELA-P DUTC-C GREE-P KING-?<br>MONR-P NASS-? NEWY-P ONEI-?<br>ONON-P ORAN-C OSWE-C PUTN-P<br>QUEE-P RENS-P RICH-P ROCK-P<br>SARA-P SCHE-P SENE-P SUFF-P<br>TOMP-P ULST-P WEST-P | G5          | S1         | E            |
| <i>Lipocarpha micrantha</i>                       | Dwarf Bulrush            | DUTC-? ESSE-C MADI-P ONEI-X<br>ORAN-C OSWE-P RENS-P SARA-P<br>SCHE-? SUFF-C WARR-C WEST-?  | G5          | S1         | E            |
| <i>Listera auriculata</i>                         | Auricled Twayblade       | LEWI-P WARR-C  | G3G4        | S1         | E            |
| <i>Listera australis</i>                          | Southern Twayblade       | CATT-P CAYU-P CHEN-C CORT-C<br>ERIE-P FULT-P HAMI-P MADI-P<br>ONEI-P ONON-C OSWE-P OTSE-C<br>SENE-P STLA-P SUFF-C WAYN-C<br>WYOM-P   | G4          | S1S2       | E            |



## *2010 Rare Plant Status List - Active Inventory List*

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|---|-------------------------------|--|-------------|------------|--------------|
| <i>Listera convallarioides</i>                      | Broad-lipped Twayblade        | CHAU-? CORT-? ESSE-C HAMI-?<br>HERK-P JEFF-P LEWI-C ONEI-P<br>ONON-P WEST-?  | G5          | S1         | E            |
| <i>Lithospermum canescens</i>                       | Hoary Puccoon                 | CAYU-X MADI-X MONR-X ONON-?<br>SARA-? SCHE-?   | G5          | SX         | U            |
| <i>Lithospermum carolinense</i> var. <i>croceum</i> | Golden Puccoon                | GENE-P MONR-P ONON-?   | G4G5T4T5    | SH         | E            |
| <i>Littorella uniflora</i>                          | American Shore-grass          | CHAU-P CLIN-C HAMI-P   | G5          | S1         | E            |
| <i>Ludwigia sphaerocarpa</i>                        | Globe-fruited Ludwigia        | NASS-C QUEE-P RICH-P SUFF-C<br>ULST-C WEST-P   | G5          | S2         | T            |
| <i>Luzula spicata</i>                               | Spiked Woodrush               | ESSE-C   | G5          | S1         | E            |
| <i>Lycopus amplexans</i>                            | Water-horehound               | NASS-P SUFF-C  | G5          | S2         | U            |
| <i>Lycopus rubellus</i>                             | Gypsy-wort                    | ALBA-P BRON-P DUTC-C ERIE-P<br>FRAN-P GREE-C HERK-? KING-X<br>MADI-P NASS-P NEWY-X NIAG-P<br>ORAN-C PUTN-C QUEE-P RICH-?<br>SARA-P SUFF-C WEST-P | G5          | S1         | E            |
| <i>Lygodium palmatum</i>                            | Climbing Fern                 | CHEN-P GREE-P ONEI-C ONON-P<br>RICH-C SARA-C SUFF-P  | G4          | S1         | E            |
| <i>Lysimachia hybrida</i>                           | Lowland Yellow Loosestrife    | ALLE-P CLIN-C DUTC-P ESSE-C<br>KING-X NASS-P ONEI-P ORAN-P<br>QUEE-C RICH-P SCHE-? SUFF-C<br>WASH-C WEST-?                                       | G5          | S1         | E            |
| <i>Lysimachia quadriflora</i>                       | Four-flowered Loosestrife     | ERIE-C NIAG-C  | G5?         | S1         | E            |
| <i>Lythrum lineare</i>                              | Saltmarsh Loosestrife         | SUFF-C   | G5          | S1         | E            |
| <i>Magnolia virginiana</i>                          | Sweetbay Magnolia             | BRON-X KING-X NASS-C QUEE-X<br>RICH-C SUFF-C WEST-P  | G5          | S1         | E            |
| <i>Malaxis bayardii</i>                             | Bayard's Adder's-mouth Orchid | ALBA-C NASS-P ORAN-P RICH-P<br>SUFF-P  | G1G2        | S1         | E            |
| <i>Melanthium latifolium</i>                        | Slender Bunchflower           | NASS-X ORAN-X QUEE-X RICH-?<br>ROCK-? WEST-X   | G5          | SX         | U            |
| <i>Melanthium virginicum</i>                        | Virginia Bunchflower          | NASS-P ORAN-P RICH-P ROCK-P<br>SUFF-? WEST-?   | G5          | SH         | E            |
| <i>Micranthemum micranthemoides</i>                 | Micranthemum                  | DUTC-X   | GH          | SX         | U            |



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|--------------------------------------|-----------------------------|--|-------------|------------|--------------|
| Monarda clinopodia                   | Basil-balm                  | CATT-C CAYU-P CHAU-P CHEM-P<br>ERIE-P GENE-P LIVI-P MONR-P<br>NIAG-P ONTA-P STEU-P TIOG-P<br>TOMP-P ULST-? WEST-? WYOM-P<br>YATE-? | G5          | S1S2       | E            |
| Muhlenbergia capillaris              | Long-awn Hairgrass          | NIAG-? SUFF-X  | G5          | SX         | U            |
| Myriophyllum alterniflorum           | Water Milfoil               | CLIN-C ESSE-C FULT-P JEFF-P<br>PUTN-P QUEE-? STLA-P WARR-C   | G5          | S2         | T            |
| Myriophyllum farwellii               | Farwell's Water-milfoil     | CLIN-P ESSE-P FRAN-P FULT-P<br>HAMI-C HERK-C ONEL-P ONON-?<br>RENS-C STLA-C SUFF-P SULL-P  | G5          | S2         | T            |
| Myriophyllum pinnatum                | Green Parrot's-feather      | NASS-P ORAN-P QUEE-? ROCK-P<br>SUFF-C WARR-? WASH-?  | G5          | S1         | E            |
| Najas guadalupensis ssp. muenschleri | Hudson River Water-nymph    | ALBA-C COLU-C DUTC-P GREE-P<br>ORAN-P PUTN-P ROCK-P SARA-P<br>ULST-P WASH-P WEST-P   | G5T1        | S1         | E            |
| Najas guadalupensis ssp. olivacea    | Southern Water-nymph        | CAYU-P SENE-C  | G5T4?       | S1         | E            |
| Najas marina                         | Spiny Water-nymph           | CAYU-P MONR-P ONON-X SENE-C<br>WAYN-P  | G5          | S1         | E            |
| Oenothera laciniata                  | Cut-leaved Evening-primrose | ALBA-P BRON-P NASS-P QUEE-C<br>RICH-P SUFF-C ULST-P  | G5          | S1         | E            |
| Oenothera oakesiana                  | Oakes' Evening-primrose     | CAYU-? FULT-P NASS-C ONTA-P<br>QUEE-C RICH-C SUFF-C WARR-P   | G4G5Q       | S2         | T            |
| Oldenlandia uniflora                 | Clustered Bluets            | BRON-P KING-? NEWY-? QUEE-P<br>RICH-P SUFF-C WEST-?  | G5          | S1         | E            |
| Oligoneuron houghtonii               | Houghton's Goldenrod        | GENE-C ORLE-?  | G3          | S1         | E            |
| Oligoneuron ohioense                 | Ohio Goldenrod              | ALBA-? COLU-C GENE-C LIVI-C<br>MONR-C NIAG-P ONON-C ONTA-P<br>RENS-X SENE-C WAYN-P WYOM-C<br>YATE-?                                | G4          | S2         | T            |
| Oligoneuron rigidum var. rigidum     | Stiff-leaf Goldenrod        | COLU-P DUTC-? ERIE-C GREE-C<br>NASS-P NEWY-P NIAG-C PUTN-P<br>ROCK-C SCHE-? TOMP-? WEST-C  | G5T5        | S2         | T            |
| Omalotheca sylvatica                 | Woodland Cudweed            | HERK-C WYOM-C  | G4          | S1         | E            |



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|----------------------------------|-------------------------|---|-------------|------------|--------------|
| Onosmodium virginianum           | Virginia False Gromwell | ALBA-P DUTC-C KING-X NASS-X<br>NEWY-X NIAG-? ONEI-P ONON-P<br>QUEE-X SARA-P SCHE-? SUFF-P<br>WEST-P   | G4          | S1         | E            |
| Orontium aquaticum               | Golden Club             | BROO-P CHEN-P COLU-C CORT-C<br>DUTC-C FULT-P GREE-C NASS-P<br>ORAN-P OTSE-C QUEE-P RENS-C<br>SUFF-C ULST-P WEST-P   | G5          | S2         | T            |
| Oxalis violacea                  | Violet Wood-sorrel      | ALBA-C BRON-P CATT-P CHEM-P<br>COLU-P DUTC-P NASS-P ORAN-C<br>PUTN-C QUEE-P RICH-X ROCK-C<br>SUFF-C TIOG-P ULST-C WEST-X  | G5          | S2S3       | T            |
| Oxypolis rigidior                | Stiff Cowbane           | KING-P NASS-P QUEE-P RICH-P<br>ROCK-? SUFF-P TIOG-?   | G5          | SH         | E            |
| Panicum anceps                   | Panic Grass             | SUFF-X  | G5          | SX         | U            |
| Panicum rigidulum var. elongatum | Tall Flat Panic Grass   | BRON-P SUFF-P WEST-P  | G5T4T5      | SH         | E            |
| Paspalum laeve                   | Field Beadgrass         | BRON-C RICH-P SUFF-C WEST-P   | G4G5        | S1         | E            |
| Pedicularis lanceolata           | Swamp Lousewort         | ALBA-P BRON-P CAYU-P CHEM-P<br>COLU-C DELA-? DUTC-C ERIE-C<br>GENE-P GREE-C KING-X LIVI-C<br>MADI-? MONR-C NASS-P NEWY-X<br>NIAG-P ONON-? ONTA-C ORAN-C<br>QUEE-X RENS-P RICH-P ROCK-P<br>SARA-P SCHU-P SUFF-P TOMP-C<br>ULST-C WASH-P WAYN-P | G5          | S2         | T            |
| Pellaea glabella ssp. glabella   | Smooth Cliff Brake      | ALBA-C COLU-C DUTC-P ESSE-C<br>GENE-P JEFF-P LEWI-P NIAG-C<br>ROCK-C STLA-C WARR-P WASH-C   | G5T5        | S2         | T            |
| Persicaria careyi                | Carey's Smartweed       | ALBA-C BRON-? CLIN-C DUTC-?<br>FULT-P HERK-? KING-P ONON-P<br>ORAN-C OSWE-? OTSE-? QUEE-P<br>RENS-? ROCK-P SCHE-C SUFF-C<br>ULST-C WARR-P   | G4          | S1S2       | T            |
| Persicaria setacea               | Swamp Smartweed         | ERIE-P MADI-P NASS-P NIAG-?<br>ONEI-P ONON-P ORLE-P OSWE-C<br>ROCK-P SARA-P SUFF-C TOMP-P<br>ULST-P WAYN-C WYOM-P   | G5          | S1S2       | E            |



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|-------------------------------------|------------------------|---|-------------|------------|--------------|
| Petasites frigidus var. palmatus    | Sweet Coltsfoot        | ALBA-C CATT-X CLIN-P ESSE-P<br>GENE-P MADI-P ONON-P RENS-P<br>SENE-C STEU-C STLA-P TOMP-P<br>WARR-P WASH-P WYOM-P YATE-P                  | G5T5        | S1         | E            |
| Phacelia dubia var. dubia           | Scorpion-weed          | ONON-X  | G5T5        | SX         | U            |
| Phlox maculata ssp. maculata        | Wild Sweet-william     | BROO-P CATT-C CHAU-C CHEN-P<br>DELA-P ERIE-? ESSE-P HAMI-P<br>LEWI-C MADI-P ONEI-P ONON-?<br>PUTN-C RENS-P SARA-P TOMP-P                  | G5T4T5      | S1         | E            |
| Phlox pilosa ssp. pilosa            | Downy Phlox            | CHAU-? NIAG-X STLA-P  | G5T5        | SH         | E            |
| Physalis virginiana var. virginiana | Virginia Ground-cherry | ALBA-P BRON-? ERIE-? KING-?<br>MONR-P NASS-P ONEI-P ORAN-P<br>RENS-P RICH-P SCHE-P SUFF-P<br>WASH-P                                       | G5T5        | SH         | E            |
| Pinguicula vulgaris                 | Butterwort             | CHAU-P DELA-P LIVI-C MONR-P<br>TOMP-C WYOM-C  | G5          | S2         | T            |
| Pinus echinata                      | Shortleaf Pine         | ALBA-? RICH-C SUFF-X WEST-?   | G5          | S1         | U            |
| Pinus virginiana                    | Virginia Pine          | NASS-P ORAN-C RICH-C SUFF-?<br>WEST-P   | G5          | S1         | E            |
| Piptatherum canadense               | Canada Ricegrass       | ESSE-P FRAN-C STLA-C  | G5          | S2         | E            |
| Plantago cordata                    | Heartleaf Plantain     | ALBA-P BRON-P CAYU-P COLU-C<br>DUTC-C ERIE-C GENE-P GREE-C<br>NEWY-? ONON-? RENS-P ROCK-P<br>ULST-C                                       | G4          | S3         | T            |
| Plantago maritima var. juncooides   | Seaside Plantain       | NASS-P NEWY-X ONON-X QUEE-C<br>SUFF-C   | G5T5        | S2S3       | T            |
| Platanthera ciliaris                | Orange Fringed Orchid  | ALBA-P KING-X MONR-P NASS-P<br>NEWY-X ONEI-P ONON-P OSWE-P<br>QUEE-X RENS-X RICH-P ROCK-?<br>SCHE-? SENE-P SUFF-C WASH-P<br>WEST-P YATE-P | G5          | S1         | E            |
| Platanthera cristata                | Crested Fringed Orchis | NASS-X QUEE-X SUFF-C  | G5          | S1         | E            |



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|---------------------------|-------------------------|-----------------------------|-------------|------------|--------------|
| Platanthera hookeri       | Hooker's Orchid         | ALBA-P BROO-P CATT-P CAYU-P | G4          | S1         | E            |
|                           |                         | CHEM-P CHEN-P CLIN-C COLU-P |             |            |              |
|                           |                         | CORT-P DELA-P DUTC-P ERIE-P |             |            |              |
|                           |                         | ESSE-P FULT-P GENE-P GREE-P |             |            |              |
|                           |                         | LIVI-P MONR-P NIAG-P ONEI-P |             |            |              |
|                           |                         | ONON-P ONTA-P ORAN-P OSWE-P |             |            |              |
|                           |                         | OTSE-? RENS-P SARA-P SCHE-X |             |            |              |
|                           |                         | SCHO-P STLA-P SULL-P TIOG-P |             |            |              |
|                           |                         | TOMP-C ULST-P WARR-C WASH-P |             |            |              |
|                           |                         | WAYN-P WEST-P WYOM-P        |             |            |              |
|                           |                         | Platanthera leucophaea      |             |            |              |
| OSWE-X WAYN-P             |                         |                             |             |            |              |
| Poa cuspidata             | Bluegrass               | NEWY-P RICH-P YATE-P        | G5          | SH         | E            |
| Poa glauca ssp. glauca    | White Bluegrass         | ESSE-C                      | G5T5        | S1         | E            |
| Poa interior              | Inland Bluegrass        | ESSE-P                      | G5          | SH         | E            |
| Poa laxa ssp. fernaldiana | Fernald's Bluegrass     | ESSE-C                      | G5?T3       | S1         | E            |
| Poa paludigena            | Slender Marsh Bluegrass | ALBA-C BRON-P CAYU-P CHEM-C | G3          | S1         | E            |
|                           |                         | CORT-C LEWI-P MONR-P TIOG-P |             |            |              |
|                           |                         | TOMP-C WAYN-P               |             |            |              |
| Poa sylvestris            | Woodland Bluegrass      | ALBA-C CAYU-P ERIE-P JEFF-C | G5          | S1         | E            |
|                           |                         | KING-C LIVI-P MONR-P NIAG-C |             |            |              |
|                           |                         | ONON-P TOMP-P WYOM-P        |             |            |              |
| Podostemum ceratophyllum  | Riverweed               | CLIN-C DELA-C ESSE-C FRAN-P | G5          | S2         | T            |
|                           |                         | JEFF-P ONEI-? ORAN-C STLA-C |             |            |              |
|                           |                         | SUFF-P SULL-P ULST-C        |             |            |              |
| Polemonium vanbruntiae    | Jacob's-ladder          | ALLE-P CHEN-C CORT-C DELA-C | G3G4        | S3         | R            |
|                           |                         | HERK-P LEWI-C MADI-X MONT-C |             |            |              |
|                           |                         | ONON-P OTSE-C SCHO-C SULL-C |             |            |              |
|                           |                         | TIOG-P ULST-C               |             |            |              |
| Polygala incarnata        | Pink Milkwort           | NASS-X NEWY-X NIAG-X SUFF-X | G5          | SX         | U            |
| Polygala lutea            | Orange Milkwort         | DUTC-? NASS-X QUEE-X RICH-X | G5          | S1         | E            |
|                           |                         | SUFF-C WEST-?               |             |            |              |
| Polygala mariana          | Maryland Milkwort       | SUFF-X                      | G5          | SX         | U            |
| Polygala nuttallii        | Nuttall's Milkwort      | KING-P NASS-C RICH-P SUFF-C | G5          | S2         | U            |



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| Polygonum aviculare ssp. buxiforme | Small's Knotweed       | ALBA-P CHAU-C ERIE-P LIVI-P<br>MADI-P ONEI-P ONON-P RENS-C<br>SCHE-P SUFF-C WARR-P WASH-P   | G5T5        | S1         | E            |
| Polygonum douglasii                | Douglas' Knotweed      | ESSE-C JEFF-C SARA-P STLA-P<br>ULST-P WARR-C WASH-C WEST-P  | G5          | S2         | T            |
| Polygonum glaucum                  | Seabeach Knotweed      | KING-C NASS-C QUEE-C SUFF-C<br>WEST-P   | G3          | S3         | R            |
| Polystichum lonchitis              | Northern Holly-fern    | CATT-P  | G5          | SH         | E            |
| Populus heterophylla               | Swamp Cottonwood       | DUTC-C NASS-P NEWY-? PUTN-?<br>RICH-C SUFF-C ULST-C   | G5          | S2         | T            |
| Porteranthus stipulatus            | Indian Physic          | BROO-? TOMP-X   | G5          | SX         | U            |
| Potamogeton alpinus                | Northern Pondweed      | CAYU-P CHEN-P CLIN-P CORT-P<br>DELA-? ESSE-C FRAN-P HERK-P<br>JEFF-P LEWI-P NIAG-P ONEI-P<br>OSWE-P STLA-C TOMP-? WARR-C<br>WASH-C                                | G5          | S2         | T            |
| Potamogeton diversifolius          | Water-thread Pondweed  | CATT-C CORT-P ESSE-C FRAN-P<br>FULT-P HAMI-P KING-X NASS-P<br>ONEI-P ONTA-P ORAN-C PUTN-P<br>QUEE-P RENS-P RICH-P SUFF-P<br>SULL-P WARR-P WASH-P WEST-P<br>WYOM-C | G5          | S1         | E            |
| Potamogeton hillii                 | Hill's Pondweed        | COLU-P DUTC-P ESSE-C JEFF-C<br>LEWI-C PUTN-? STLA-C TOMP-P<br>WARR-C WASH-C   | G3          | S2         | T            |
| Potamogeton ogdenii                | Ogden's Pondweed       | COLU-C CORT-P DUTC-C OSWE-C<br>WASH-P   | G1G2        | S1         | E            |
| Potamogeton pulcher                | Spotted Pondweed       | BRON-P COLU-P DUTC-C KING-X<br>NASS-P ORAN-C OSWE-C PUTN-C<br>QUEE-P RICH-P ROCK-P SARA-P<br>SUFF-C ULST-P WAYN-P WEST-C  | G5          | S2         | T            |
| Potamogeton strictifolius          | Straight-leaf Pondweed | CAYU-P CLIN-C CORT-P DUTC-P<br>ESSE-C JEFF-P MADI-P MONR-P<br>ONEI-P ONON-P OTSE-P SENE-P<br>STLA-C WARR-C WASH-? YATE-C  | G5          | S1         | E            |
| Potentilla paradoxa                | Bushy Cinquefoil       | CAYU-P CHAU-C ERIE-? MONR-P<br>NIAG-C WAYN-P  | G5          | S1         | E            |



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| <i>Prenanthes boottii</i>                               | Boott's Rattlesnake-root  | ESSE-C   | G2          | S1         | E            |
| <i>Prenanthes crepidinea</i>                            | Nodding Rattlesnake-root  | CATT-P ERIE-P  | G4          | SH         | E            |
| <i>Prenanthes racemosa</i> var. <i>racemosa</i>         | Glaucous Rattlesnake-root | KING-X NASS-X ROCK-X WEST-?  | G5T4        | SX         | U            |
| <i>Primula mistassinica</i>                             | Bird's-eye Primrose       | JEFF-C LEWI-C LIVI-C ONEI-C<br>OSWE-C SCHU-P STEU-C TOMP-P<br>WYOM-C YATE-P  | G5          | S2         | T            |
| <i>Proserpinaca pectinata</i>                           | Comb-leaved Mermaid-weed  | KING-X NASS-X ORAN-P ROCK-P<br>SUFF-C  | G5          | S2         | T            |
| <i>Prunus pumila</i> var. <i>depressa</i>               | Dwarf Sand-cherry         | BRON-X CLIN-C DELA-C ESSE-C<br>HAMI-C JEFF-P LEWI-P ONEI-P<br>ORAN-C SARA-C SULL-C WARR-C  | G5T5        | S2         | T            |
| <i>Prunus pumila</i> var. <i>pumila</i>                 | Low Sand-cherry           | CLIN-C HAMI-C JEFF-C OSWE-C  | G5T4        | S1         | E            |
| <i>Pseudognaphalium helleri</i> ssp. <i>micradenium</i> | Catfoot                   | ONEI-? ROCK-? SUFF-P TOMP-?  | G4G5T3?     | SH         | E            |
| <i>Pseudocyclopiella caroliniana</i>                    | Carolina Clubmoss         | NASS-C SUFF-C WARR-C WASH-C  | G4          | S1         | E            |
| <i>Ptelea trifoliata</i> ssp. <i>trifoliata</i>         | Wafer-ash                 | CATT-C CHAU-C CHEM-? ERIE-C<br>LIVI-P MONR-P NIAG-P TOMP-?<br>WYOM-P   | G5T5        | S1S2       | E            |
| <i>Pteridium aquilinum</i> var. <i>pseudocaudatum</i>   | Southeastern Bracken      | SUFF-P   | G5T5        | SH         | U            |
| <i>Pterospora andromedea</i>                            | Giant Pine-drops          | ALBA-P CATT-P CHEM-P CLIN-P<br>COLU-? CORT-P ERIE-P ESSE-P<br>LEWI-P LIVI-C MONR-P NIAG-P<br>ONEI-P ONTA-P OSWE-P RENS-?<br>SCHE-? SCHO-P TOMP-P WARR-P<br>WASH-P WEST-? WYOM-P YATE-P | G5          | S1         | E            |
| <i>Pycnanthemum clinopodioides</i>                      | Basil Mountain-mint       | BRON-? DUTC-C NEWY-X RICH-?<br>ROCK-C WEST-?   | G1G2        | S1         | E            |
| <i>Pycnanthemum muticum</i>                             | Blunt Mountain-mint       | BRON-? CHAU-P MONR-P NEWY-?<br>ORAN-C RENS-? RICH-C SUFF-C<br>WASH-P WEST-P  | G5          | S2S3       | T            |
| <i>Pycnanthemum torrei</i>                              | Torrey's Mountain-mint    | BRON-? DUTC-C NEWY-P RICH-C<br>ROCK-C SUFF-? WEST-?  | G2          | S1         | E            |





## *2010 Rare Plant Status List - Active Inventory List*

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|---|-----------------------|--|-------------|------------|--------------|
| <i>Pycnanthemum verticillatum</i> var. <i>verticillatum</i> | Whorled Mountain-mint | ALBA-? CATT-C CHEN-? DELA-C<br>GENE-P HERK-? MONR-? ONEI-C<br>PUTN-? RENS-? RICH-? SARA-?<br>STLA-C SUFF-C TOMP-? ULST-P | G5T5        | S1S2       | T            |
| <i>Pyrola asarifolia</i> ssp. <i>asarifolia</i>             | Pink Wintergreen      | ERIE-P GENE-P HERK-C JEFF-P<br>LEWI-P MADI-P ONEI-P ONON-P<br>OTSE-? RENS-? STLA-C WARR-C<br>WAYN-P                      | G5T5        | S2         | T            |
| <i>Pyrola minor</i>   | Snowline Wintergreen  | ESSE-C   | G5          | S1         | E            |
| <i>Pyxidantha barbulate</i>                                 | Flowering Pixiemoss   | SUFF-C   | G4          | S1         | E            |
| <i>Quercus phellos</i>                                      | Willow Oak            | KING-C QUEE-C RICH-C SUFF-X  | G5          | S1         | E            |
| <i>Quercus shumardii</i> var. <i>shumardii</i>              | Shumard Oak           | NIAG-C   | G5T5        | S1         | U            |
| <i>Ranunculus cymbalaria</i>                                | Seaside Crowfoot      | CAYU-C ONON-X QUEE-P SENE-P<br>SUFF-P WAYN-P   | G5          | SH         | E            |
| <i>Ranunculus hispidus</i> var. <i>nitidus</i>              | Swamp Buttercup       | BRON-P CATT-P CHAU-P COLU-P<br>DELA-P KING-? ORAN-C ORLE-P<br>RICH-P STLA-P SULL-C TOMP-P<br>ULST-P WARR-P WYOM-P        | G5T5        | S1         | E            |
| <i>Ranunculus pusillus</i>                                  | Spearwort             | BROO-? NASS-X NEWY-? ONON-X<br>RICH-X WEST-?   | G5          | SX         | U            |
| <i>Rhexia mariana</i> var. <i>mariana</i>                   | Meadow-beauty         | KING-X QUEE-X SUFF-X   | G5T5        | SX         | U            |
| <i>Rhodiola integrifolia</i> ssp. <i>leedyi</i>             | Leedy's Roseroot      | SCHU-C YATE-C  | G5T1        | S1         | E            |
| <i>Rhodiola rosea</i>                                       | Roseroot              | GREE-C MADI-C ORAN-C ULST-C  | G5          | S1         | E            |
| <i>Rhododendron canadense</i>                               | Rhodora               | ESSE-P FRAN-C HERK-P LEWI-P<br>ONEI-C ORAN-C PUTN-P RENS-X<br>STLA-C ULST-C WARR-P                                       | G5          | S2         | T            |
| <i>Rhododendron lapponicum</i>                              | Lapland Rosebay       | ESSE-C   | G5          | S1         | E            |
| <i>Rhynchospora cephalantha</i>                             | Capitate Beakrush     | SUFF-X WEST-X  | G5          | SX         | U            |
| <i>Rhynchospora chalarocephala</i>                          | Loose-headed Beakrush | SUFF-X   | G5          | SX         | U            |
| <i>Rhynchospora inundata</i>                                | Drowned Beakrush      | SUFF-C   | G4?         | S2         | T            |
| <i>Rhynchospora nitens</i>                                  | Short-beaked Beakrush | SUFF-C   | G4?         | S2         | T            |
| <i>Rhynchospora pallida</i>                                 | Pale Beakrush         | SUFF-P   | G3          | SH         | U            |



## *2010 Rare Plant Status List - Active Inventory List*

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|--|--------------------------|---|-------------|------------|--------------|
| <i>Rhynchospora recognita</i>                    | Globe Beakrush           | ORAN-X PUTN-X SUFF-X  | G5?         | SX         | U            |
| <i>Rhynchospora scirpoides</i>                   | Long-beaked Beakrush     | SUFF-C WEST-C   | G4          | S3         | R            |
| <i>Rhynchospora torreyana</i>                    | Torrey's Beakrush        | SUFF-X  | G4          | SX         | E            |
| <i>Rorippa aquatica</i>                          | Lake-cress               | CATT-P CAYU-P CORT-C ERIE-P<br>ESSE-P GENE-P HAMI-P HERK-P<br>JEFF-C MADI-P NIAG-C ONEI-P<br>ONON-C ONTA-P OSWE-P SARA-P<br>SENE-P STLA-C WASH-C WAYN-P | G4?         | S2         | T            |
| <i>Rosa acicularis</i> ssp. <i>sayi</i>          | Prickly Rose             | CLIN-? ESSE-C GENE-P WARR-P<br>WASH-C   | G5T5        | S1         | E            |
| <i>Rotala ramosior</i>                           | Tooth-cup                | ALBA-? KING-? NASS-P ORAN-C<br>PUTN-C QUEE-P RICH-P SUFF-C<br>ULST-P  | G5          | S2         | T            |
| <i>Rubus chamaemorus</i>                         | Cloudberry               | SUFF-X  | G5          | SX         | U            |
| <i>Rubus cuneifolius</i>                         | Sand Blackberry          | RICH-P SUFF-P   | G5          | SH         | E            |
| <i>Rumex fueginus</i>                            | Golden Dock              | CAYU-P CHEM-P DELA-P ERIE-P<br>GENE-P MONR-P NASS-C NEWY-P<br>QUEE-P SENE-P STEU-P SUFF-C<br>TOMP-? WAYN-P  | G4G5        | S1         | E            |
| <i>Rumex hastatulus</i>                          | Heart Sorrel             | NASS-P ONON-? PUTN-P STLA-P<br>SUFF-P   | G5          | SH         | E            |
| <i>Rumex persicarioides</i>                      | Seaside Dock             | SUFF-P  | G3?Q        | SH         | T            |
| <i>Sabatia angularis</i>                         | Rose-pink                | NEWY-X QUEE-X RICH-C WEST-X   | G5          | S1         | E            |
| <i>Sabatia campanulata</i>                       | Slender Marsh-pink       | KING-? NASS-P NEWY-? ONON-X<br>QUEE-? RICH-? SUFF-C   | G5          | S1         | E            |
| <i>Sabatia dodecandra</i> var. <i>dodecandra</i> | Large Marsh-pink         | BRON-X KING-X NASS-X NEWY-X<br>QUEE-X RICH-X ROCK-X   | G5?T4T5     | SX         | U            |
| <i>Sabatia stellaris</i>                         | Sea-pink                 | KING-X NASS-C QUEE-X RICH-P<br>SUFF-C   | G5          | S2         | T            |
| <i>Saccharum giganteum</i>                       | Giant Beardgrass         | SUFF-X  | G5          | SX         | U            |
| <i>Sagina decumbens</i> ssp. <i>decumbens</i>    | Small-flowered Pearlwort | NASS-? NEWY-? RICH-? SUFF-C   | G5T5        | S1         | E            |



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|--|---------------------------|--|-------------|------------|--------------|
| Sagittaria montevidensis var. spongiosa    | Spongy Arrowhead          | ALBA-P COLU-C DUTC-C GREE-C<br>ORAN-C PUTN-C RICH-? ROCK-C<br>ULST-C WEST-C  | G5T4        | S2         | T            |
| Sagittaria teres                           | Quill-leaf Arrowhead      | SUFF-C   | G3          | S1         | E            |
| Salicornia bigelovii                       | Dwarf Glasswort           | BRON-P NASS-P ONON-X QUEE-P<br>RICH-P SUFF-C   | G5          | S2S3       | T            |
| Salix cordata                              | Sand Dune Willow          | JEFF-C OSWE-C  | G4          | S2         | E            |
| Salix herbacea                             | Dwarf Willow              | ESSE-C   | G5          | S1         | E            |
| Salix uva-ursi                             | Bearberry Willow          | ESSE-C   | G5          | S2         | T            |
| Salvia lyrata                              | Lyre-leaf Sage            | ULST-P WEST-P  | G5          | SH         | E            |
| Saxifraga aizoides                         | Yellow Mountain-saxifrage | JEFF-C LIVI-C ONEI-C OSWE-C<br>TOMP-C WYOM-C   | G5          | S2         | T            |
| Saxifraga oppositifolia ssp. oppositifolia | Purple Mountain-saxifrage | HAMI-C   | G4G5T4T5    | S1         | E            |
| Saxifraga paniculata ssp. neogaea          | White Mountain-saxifrage  | ESSE-C   | G5T5?       | S1         | E            |
| Schizaea pusilla                           | Curlygrass Fern           | SUFF-C   | G3G4        | S1         | E            |
| Schoenoplectus heterochaetus               | Slender Bulrush           | CLIN-C ESSE-C FRAN-P JEFF-P<br>MONR-P OSWE-P SCHU-P STEU-P<br>STLA-C SUFF-P WASH-C WAYN-P  | G5          | S1         | E            |
| Schwalbea americana                        | Chaffseed                 | ALBA-X   | G2G3        | SX         | U            |
| Scirpus ancistrochaetus                    | Northeastern Bulrush      | WASH-X   | G3          | SX         | U            |
| Scirpus georgianus                         | Georgia Bulrush           | ALBA-C CATT-C ERIE-P ESSE-P<br>GENE-C GREE-C MONR-P NASS-P<br>ORAN-C ORLE-P OSWE-P PUTN-C<br>QUEE-P STEU-C SUFF-P TOMP-P<br>ULST-P WASH-P WEST-P | G5          | S1         | E            |
| Scirpus longii                             | Long's Bulrush            | QUEE-X   | G2G3        | SX         | U            |
| Scleria minor                              | Slender Nutrush           | NASS-P RICH-? SUFF-C   | G4          | S1         | E            |
| Scleria muehlenbergii                      | Reticulate Nutrush        | NASS-P QUEE-P SUFF-C   | G5          | S1         | E            |
| Scleria pauciflora var. caroliniana        | Few-flowered Nutrush      | DUTC-P NASS-C QUEE-X SUFF-C<br>WEST-P  | G5T4T5      | S1         | E            |



## 2010 Rare Plant Status List - Active Inventory List

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|---|---------------------------|---|-------------|------------|--------------|
| <i>Scleria triglomerata</i>                         | Whip Nutrush              | ALBA-P BRON-P NASS-C NEWY-?<br>ONEI-P QUEE-P RICH-P SUFF-C<br>WARR-C  | G5          | S1         | T            |
| <i>Scleria verticillata</i>                         | Low Nutrush               | GENE-C MONR-C NASS-P ONTA-P<br>QUEE-P SCHU-P SENE-C SUFF-?  | G5          | S1         | E            |
| <i>Scutellaria elliptica</i> var. <i>elliptica</i>  | Hairy Skullcap            | BRON-? DUTC-? KING-X NASS-X<br>NEWY-X QUEE-X RICH-X WEST-X  | G5T5        | SX         | U            |
| <i>Scutellaria incana</i> var. <i>incana</i>        | Hoary Skullcap            | CATT-P  | G5T5        | SH         | E            |
| <i>Scutellaria integrifolia</i>                     | Hyssop-skullcap           | BRON-P NASS-P ORAN-C RICH-P<br>ROCK-P SUFF-? ULST-C WEST-P  | G5          | S1         | E            |
| <i>Scutellaria nervosa</i>                          | Veined Skullcap           | ALBA-? DUTC-X YATE-?  | G5          | SX         | U            |
| <i>Scutellaria serrata</i>                          | Showy Skullcap            | BRON-X NEWY-X WEST-X  | G4G5        | SX         | U            |
| <i>Selaginella eclipes</i>                          | Hidden Spike-moss         | ERIE-P STLA-C   | G4          | S1         | U            |
| <i>Sericocarpus linifolius</i>                      | Flax-leaf Whitetop        | BRON-X NASS-C NEWY-X QUEE-X<br>RICH-X SUFF-C WEST-X   | G5          | S2         | T            |
| <i>Sesuvium maritimum</i>                           | Sea Purslane              | ONON-X SUFF-C   | G5          | S1         | E            |
| <i>Silene caroliniana</i> ssp. <i>pennsylvanica</i> | Wild Pink                 | BRON-C CAYU-? COLU-P DUTC-?<br>NASS-C NEWY-C ONON-? QUEE-P<br>RENS-? RICH-P ROCK-? SCHE-?<br>SUFF-C WEST-C                                | G5T4T5      | S2         | V            |
| <i>Sisyrinchium mucronatum</i>                      | Michaux's Blue-eyed-grass | BROO-P CHEM-C DELA-P ERIE-P<br>HERK-P MONR-P ONTA-P ORAN-P<br>OTSE-P RENS-P RICH-P SENE-C<br>STEU-P STLA-C SUFF-C SULL-P<br>TOMP-P WEST-P | G5          | S1         | E            |
| <i>Smallanthus uvedalius</i>                        | Bear's-foot               | CAYU-P CHAU-? ERIE-P ONON-?<br>ONTA-P TOMP-P YATE-P   | G4G5        | SH         | E            |
| <i>Smilax pseudochina</i>                           | False China-root          | KING-P NASS-C RICH-P  | G4G5        | S1         | E            |
| <i>Smilax pulverulenta</i>                          | Downy Carrion-flower      | BRON-C NEWY-X RICH-C WEST-X   | G4G5        | S1         | E            |
| <i>Solidago latissimifolia</i>                      | Coastal Goldenrod         | BRON-? NASS-P QUEE-X RICH-?<br>SUFF-C WEST-?  | G5          | S1         | E            |
| <i>Solidago leiocarpa</i>                           | Alpine Goldenrod          | ESSE-C FRAN-P   | G4          | S2         | T            |



## 2010 Rare Plant Status List - Active Inventory List

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| <i>Solidago sempervirens</i> var. <i>mexicana</i>    | Seaside Goldenrod          | BRON-P DUTC-P KING-P NASS-P<br>RICH-P SUFF-C WEST-P   | G5T5?       | S1         | E            |
| <i>Solidago simplex</i> var. <i>monticola</i>        | Rand's Mountain Goldenrod  | ESSE-C HAMI-C HERK-C WASH-C   | G5T4        | S2         | T            |
| <i>Solidago simplex</i> var. <i>racemosa</i>         | Mountain Goldenrod         | ESSE-C WASH-P   | G5T3?       | S1         | E            |
| <i>Sparganium natans</i>                             | Small Bur-reed             | ALBA-P CAYU-P CHEN-P CLIN-P<br>CORT-P DUTC-? ESSE-P FRAN-P<br>GREE-? HAMI-C JEFF-C LEWI-C<br>MONR-P ONON-X OSWE-P SENE-P<br>STLA-C TIOG-P TOMP-P WARR-C<br>WASH-C | G5          | S2         | T            |
| <i>Spergularia canadensis</i> var. <i>canadensis</i> | Northern Sand-spurry       | BRON-X RICH-? SUFF-X  | G5T5        | SX         | U            |
| <i>Sphenopholis obtusata</i>                         | Prairie Wedgegrass         | BRON-P CHEM-P DUTC-C JEFF-C<br>NASS-P SUFF-P ULST-P   | G5          | S1         | E            |
| <i>Sphenopholis pensylvanica</i>                     | Swamp Oats                 | BRON-P DELA-P DUTC-? HERK-P<br>MONR-P NEWY-P NIAG-P QUEE-P<br>RICH-P SUFF-C TOMP-P ULST-C<br>YATE-?   | G4          | S1         | E            |
| <i>Spinulum canadense</i>                            | Northern Bristly Club-moss | ESSE-C STLA-P   | G4G5        | S1S2       | U            |
| <i>Spiraea septentrionalis</i>                       | Mountain Meadow-sweet      | ESSE-C  | G2G3Q       | S1         | E            |
| <i>Spiranthes vernalis</i>                           | Spring Ladies'-tresses     | BRON-X DUTC-? NASS-P RICH-P<br>SUFF-C   | G5          | S1         | E            |
| <i>Sporobolus clandestinus</i>                       | Rough Rush-grass           | NASS-P QUEE-C SUFF-C WEST-?   | G5          | S1         | E            |
| <i>Sporobolus heterolepis</i>                        | Northern Dropseed          | ALBA-P GREE-P JEFF-C WARR-C   | G5          | S2         | T            |
| <i>Stachys hyssopifolia</i>                          | Rough Hedge-nettle         | ALBA-P BROO-P KING-P NASS-P<br>QUEE-P RICH-X SCHE-X SUFF-C  | G4G5        | S2         | T            |
| <i>Stellaria longipes</i>                            | Longstalk Starwort         | JEFF-C RENS-? RICH-?  | G5          | S2         | T            |
| <i>Stenanthium leimanthoides</i>                     | Pinebarren Death Camas     | NASS-X SUFF-X   | G4Q         | SX         | U            |
| <i>Strophostyles umbellata</i>                       | Pink Wild Bean             | KING-X NASS-P QUEE-X RICH-C<br>SUFF-P WAYN-P  | G5          | S1         | E            |
| <i>Stuckenia filiformis</i> ssp. <i>alpina</i>       | Slender Pondweed           | CAYU-C CHAU-P CHEM-P ERIE-P<br>JEFF-P LIVI-P MADI-P NIAG-P<br>ONTA-P SENE-P STLA-P TOMP-P   | G5T5        | S1         | E            |



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| <i>Stuckenia filiformis</i> ssp. <i>occidentalis</i>  | Sheathed Pondweed     | CHAU-P CHEM-P CORT-P ERIE-?<br>GENE-P JEFF-P MADI-P MONR-P<br>NIAG-P ONON-C OSWE-P SENE-P<br>STLA-P TOMP-P  | G5T5        | S1         | E            |
| <i>Stylosanthes biflora</i>                           | Pencil-flower         | NASS-X NEWY-X RICH-X SUFF-X<br>WEST-?   | G5          | SX         | U            |
| <i>Suaeda linearis</i>                                | Narrow-leaf Sea-blite | BRON-P NASS-P QUEE-C RICH-P<br>SUFF-C WEST-P  | G5          | S1         | E            |
| <i>Suaeda rolandii</i>                                | Roland's Sea-blite    | KING-C NASS-P QUEE-C SUFF-C   | G1G2        | S1         | E            |
| <i>Subularia aquatica</i> var. <i>americana</i>       | Water Awlwort         | ESSE-P FRAN-P HAMI-P WARR-C<br>WASH-P   | G5T5        | S1S2       | E            |
| <i>Symphotrichum boreale</i>                          | Northern Bog Aster    | CAYU-C CLIN-P COLU-? CORT-P<br>DELA-P DUTC-C ERIE-P ESSE-C<br>FRAN-P GENE-P GREE-? HERK-P<br>JEFF-P LEWI-C MADI-P MONR-C<br>NASS-P NEWY-P ONON-P OSWE-C<br>OTSE-P SCHU-P SENE-? STLA-C<br>SUFF-? SULL-? TIOG-P TOMP-P<br>WARR-P WAYN-C WEST-P | G5          | S2         | T            |
| <i>Symphotrichum ciliolatum</i>                       | Lindley's Aster       | JEFF-C ONON-P STLA-C WASH-P<br>WAYN-P   | G5          | S1         | E            |
| <i>Symphotrichum concolor</i> var. <i>concolor</i>    | Silvery Aster         | KING-X NASS-X QUEE-X RICH-X<br>SUFF-C   | G5T5        | S1         | E            |
| <i>Symphotrichum laeve</i> var. <i>concinnum</i>      | Smooth Blue Aster     | ALBA-P CHEM-P GREE-P MONR-?<br>ULST-P WASH-P  | G5T4        | SH         | E            |
| <i>Symphotrichum lanceolatum</i> var. <i>interior</i> | Tall White Aster      | BRON-P CATT-P CAYU-P CHEM-P<br>ERIE-? MADI-P OTSE-P STLA-P<br>TOMP-P WAYN-P   | G5T5        | SH         | E            |
| <i>Symphotrichum oolentangiense</i>                   | Sky-blue Aster        | CATT-P ERIE-P LIVI-C MONR-P<br>NIAG-C ONEI-P OSWE-P   | G5          | S1         | E            |
| <i>Symphotrichum subulatum</i> var. <i>subulatum</i>  | Saltmarsh Aster       | BRON-P KING-X NASS-P ONON-C<br>PUTN-C QUEE-C RICH-P ROCK-C<br>SUFF-C WEST-P   | G5T5        | S2         | T            |
| <i>Thalictrum venulosum</i> var. <i>confine</i>       | Veiny Meadow-rue      | CLIN-C ESSE-C   | G5T4?Q      | S1         | E            |
| <i>Thaspium barbinode</i>                             | Meadow-parsnip        | CATT-P CHEM-P ERIE-P GENE-P<br>NIAG-P SCHO-? STEU-P TIOG-P<br>ULST-C  | G5          | S1         | U            |



## *2010 Rare Plant Status List - Active Inventory List*

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| <i>Thaspium trifoliatum</i> var. <i>flavum</i>        | Purple Meadow-parsnip    | BRON-? CHEM-? DUTC-? GREE-X<br>MONR-X ONTA-X ORAN-? RICH-X<br>TOMP-X ULST-X WEST-X  | G5T5        | SX         | U            |
| <i>Tilia americana</i> var. <i>heterophylla</i>       | White Basswood           | BROO-? CAYU-P CHEM-? LIVI-P<br>MONR-P ONON-P ONTA-P TOMP-P  | G5T5        | SH         | U            |
| <i>Tipularia discolor</i>                             | Crane-fly Orchid         | MONR-P NEWY-P ONON-? RICH-P<br>SUFF-C   | G4G5        | S1         | E            |
| <i>Triantha glutinosa</i>                             | Sticky False Asphodel    | ERIE-P GENE-C ONON-P SARA-P<br>WARR-C   | G4G5        | S1         | E            |
| <i>Trichomanes intricatum</i>                         | Appalachian Bristle Fern | CATT-C GREE-P SCHO-P ULST-P<br>WEST-P   | G4G5        | S1         | E            |
| <i>Trichophorum cespitosum</i> ssp. <i>cespitosum</i> | Deer's Hair Sedge        | ESSE-C GENE-C MONR-P  | G5T5        | S2         | T            |
| <i>Trichophorum clintonii</i>                         | Clinton's Clubrush       | ERIE-P HAMI-P LEWI-P SARA-P<br>STLA-P WARR-C  | G4          | S1         | E            |
| <i>Trichostema setaceum</i>                           | Tiny Blue-curly          | NASS-P RICH-P SUFF-P WEST-?   | G5          | SH         | E            |
| <i>Triglochin palustre</i>                            | Marsh Arrow-grass        | BRON-P CAYU-P DUTC-? ERIE-?<br>GENE-C HERK-? LIVI-C MADI-C<br>MONR-C NIAG-? ONEL-P ONON-C<br>ONTA-P ORAN-? RENS-? SENE-C<br>WAYN-P                      | G5          | S2         | T            |
| <i>Trillium flexipes</i>                              | Nodding Trillium         | CATT-P CHEN-P ERIE-P GENE-C<br>MONR-C WAYN-P  | G5          | S1         | E            |
| <i>Trillium sessile</i>                               | Toad-shade               | CHAU-C MONR-C   | G4G5        | S1         | E            |
| <i>Triosteum angustifolium</i>                        | Narrow-leaf Feverwort    | CORT-X NASS-X   | G5          | SX         | U            |
| <i>Triphora trianthophora</i>                         | Nodding Pogonia          | ALBA-P BRON-X CAYU-C ERIE-C<br>MONR-P NEWY-P ONEL-P ONON-P<br>OTSE-P RENS-? RICH-P ROCK-P<br>SARA-P SCHE-? SENE-P TOMP-P<br>ULST-C WARR-P WASH-P WAYN-P | G3G4        | S2         | E            |
| <i>Tripsacum dactyloides</i>                          | Northern Gamma Grass     | BRON-C KING-X NASS-C NEWY-P<br>ORAN-P QUEE-C RICH-C ROCK-P<br>SUFF-C WEST-P   | G5          | S2         | T            |
| <i>Trisetum melicoides</i>                            | Melic-oats               | CLIN-C ESSE-C   | G4          | S1         | E            |



## 2010 Rare Plant Status List - Active Inventory List

| Scientific Name                               | Common Name                | Counties of Occurrence  | Global Rank | State Rank | State Status |
|---|----------------------------|---|-------------|------------|--------------|
| <i>Trollius laxus</i>                         | Spreading Globeflower      | BRON-P CAYU-C CHAU-P CORT-C<br>ERIE-P GENE-C HERK-C LIVI-P<br>MADI-C MONR-P ONEI-P ONON-P<br>ONTA-C ORAN-P OTSE-P PUTN-C<br>QUEE-? ROCK-X SCHE-X SCHU-P<br>SENE-P SULL-P TOMP-C ULST-P<br>WEST-? WYOM-C | G4T3        | S3         | R            |
| <i>Ulmus thomasi</i>                          | Cork Elm                   | BROO-? CAYU-P CHEN-P CLIN-?<br>CORT-P ERIE-C GENE-P GREE-P<br>HERK-P JEFF-C LEWI-C MADI-P<br>MONR-P NIAG-C ONEI-P ONON-C<br>SARA-? SCHE-P SCHO-P STLA-C<br>TOMP-P WARR-P WYOM-P YATE-P                  | G5          | S2S3       | T            |
| <i>Utricularia juncea</i>                     | Rush Bladderwort           | NASS-P SUFF-C ULST-?  | G5          | S1         | T            |
| <i>Utricularia radiata</i>                    | Small Floating Bladderwort | ALBA-P HAMI-C NASS-C ONON-X<br>ORAN-C QUEE-P SUFF-C SULL-C<br>WARR-C WEST-C   | G4          | S2         | T            |
| <i>Utricularia striata</i>                    | Fibrous Bladderwort        | NASS-? SUFF-C   | G4G5        | S2         | T            |
| <i>Uvularia puberula</i>                      | Pine Barren Bellwort       | SUFF-C  | G5          | S1         | E            |
| <i>Vaccinium boreale</i>                      | High-mountain Blueberry    | CLIN-P ESSE-C FRAN-P GENE-P<br>HAMI-P   | G4          | S2         | E            |
| <i>Vaccinium cespitosum</i>                   | Dwarf Blueberry            | ESSE-C ONEI-? WARR-P  | G5          | S1         | E            |
| <i>Vahlodea atropurpurea</i>                  | Mountain Hairgrass         | ESSE-X  | G5          | SX         | U            |
| <i>Valeriana uliginosa</i>                    | Marsh Valerian             | ALBA-P CHEM-P COLU-C DUTC-P<br>GENE-C HERK-C LEWI-P MADI-P<br>MONR-C NIAG-P ONEI-P ONON-P<br>ONTA-? OTSE-? WASH-P WAYN-P  | G4Q         | S1S2       | E            |
| <i>Valerianella chenopodiifolia</i>           | Goosefoot Corn-salad       | BROO-? CHEN-P ERIE-P GENE-P<br>MONR-C NIAG-? ONEI-P ONON-P<br>TIOG-? WAYN-?   | G5          | S1         | E            |
| <i>Valerianella umbilicata</i>                | Navel-fruited Corn-salad   | CHEN-P GREE-P ONEI-P RENS-P   | G3G5        | SH         | E            |
| <i>Vernonia gigantea</i> ssp. <i>gigantea</i> | Tall Ironweed              | CATT-P CHAU-C HERK-P LEWI-?<br>MONR-? ONEI-P ULST-P WAYN-?  | G5T5        | S1         | E            |





## *2010 Rare Plant Status List - Active Inventory List*

| Scientific Name                   | Common Name                 | Counties of Occurrence  | Global Rank | State Rank | State Status |
|-----------------------------------|-----------------------------|---|-------------|------------|--------------|
| Veronicastrum virginicum          | Culver's-root               | ALBA-P ALLE-P BRON-P BROO-P<br>CATT-P CAYU-P CHEM-C COLU-C<br>DELA-P DUTC-C ERIE-P HERK-P<br>KING-X LIVI-C MONR-C NASS-P<br>ONTA-P ORAN-C OSWE-P PUTN-C<br>QUEE-X RENS-C RICH-P ROCK-P<br>SARA-P SCHO-P SCHU-P SENE-P<br>STEU-P SULL-P TIOG-P TOMP-P<br>ULST-C WASH-P WEST-P WYOM-P | G4          | S2         | T            |
| Viburnum dentatum var. venosum    | Southern Arrowwood          | BRON-P COLU-X ORAN-P SUFF-C<br>WEST-P   | G5T4T5      | S2         | T            |
| Viburnum edule                    | Squashberry                 | ESSE-C HERK-? ULST-P  | G5          | S2         | T            |
| Viburnum nudum var. nudum         | Possum-haw                  | DUTC-P KING-X NASS-P ONON-P<br>QUEE-X RICH-C SUFF-C WEST-X  | G5T5        | S1         | E            |
| Viola bicolor                     | Field Pansy                 | DUTC-P ERIE-P MONR-? NIAG-C   | G5          | S1         | U            |
| Viola brittoniana                 | Coast Violet                | BRON-X NASS-X QUEE-X RICH-P<br>ROCK-? SUFF-C WEST-P   | G4G5        | S1         | E            |
| Viola hirsutula                   | Southern Wood Violet        | ALBA-P CHEM-P RENS-P RICH-P<br>SUFF-P TIOG-P ULST-P WEST-P  | G4          | SH         | E            |
| Viola nephrophylla                | Northern Bog Violet         | ALBA-P DELA-? ERIE-P ESSE-P<br>FRAN-? GENE-C HAMI-P HERK-P<br>JEFF-? MADI-P MONR-C ONEI-?<br>ONON-P OTSE-? RENS-P ROCK-P<br>SENE-C STLA-C TOMP-? WASH-P<br>WAYN-? WYOM-P  | G5          | S1         | E            |
| Viola novae-angliae               | New England Violet          | WARR-C  | G4          | S1         | E            |
| Viola primulifolia                | Primrose-leaf Violet        | BRON-P NASS-C NEWY-? QUEE-P<br>RICH-C STLA-P SUFF-C SULL-P<br>ULST-P WEST-P   | G5          | S2         | T            |
| Vitis vulpina                     | Winter Grape                | BRON-P NEWY-P RICH-P TIOG-P<br>WEST-C   | G5          | S1         | E            |
| Vittaria appalachiana             | Appalachian Shoestring Fern | CATT-C CHAU-C ULST-C  | G4          | S1         | E            |
| Woodsia alpina                    | Alpine Cliff Fern           | ESSE-C ULST-C   | G4          | S1         | E            |
| Woodsia glabella                  | Smooth Cliff Fern           | ESSE-C GREE-P HAMI-C HERK-P   | G5          | S1         | E            |
| Woodsia oregana ssp. cathcartiana | Oregon Cliff Fern           | ONTA-X  | G5T5        | SX         | U            |



## *2010 Rare Plant Status List - Active Inventory List*

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| <b>Scientific Name</b> | <b>Common Name</b>      | <b>Counties of Occurrence</b> | <b>Global Rank</b> | <b>State Rank</b> | <b>State Status</b> |
|------------------------|-------------------------|-------------------------------|--------------------|-------------------|---------------------|
| Xyris smalliana        | Large Yellow-eyed-grass | NASS-X ORAN-P SUFF-C WEST-C   | G5                 | S2                | U                   |

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## 2010 Rare Plant Status List - Watch List

| Scientific Name                                 | Common Name              | Counties of Occurrence   | Global Rank | State Rank | State Status |
|---|--------------------------|--|-------------|------------|--------------|
| <i>Agalinis fasciculata</i>                     | Fascicled False Foxglove | NASS-C RICH-C SUFF-C   | G5          | S3         | R            |
| <i>Agalinis paupercula</i> var. <i>borealis</i> | Northern False Foxglove  | CAYU-P CLIN-P ERIE-C JEFF-P<br>MONR-P OSWE-C STLA-C WASH-P   | G5T4?       | S3         | T            |
| <i>Agrimonia parviflora</i>                     | Swamp Agrimony           | ALBA-P BRON-P CHAU-C COLU-C<br>DUTC-C ERIE-C GENE-C MONR-C<br>NEWY-? ORAN-C PUTN-C RENS-P<br>RICH-P ROCK-P SCHE-P STEU-C<br>SUFF-? SULL-C TOMP-P ULST-C<br>WEST-C  | G5          | S3         | U            |
| <i>Angelica venenosa</i>                        | Hairy Angelica           | ALBA-P BRON-? CATT-P CAYU-P<br>CHEM-P COLU-P DELA-P DUTC-?<br>ERIE-P LIVI-P MONR-P ONTA-P<br>ORAN-P RENS-? RICH-P SENE-?<br>STEU-P SUFF-P SULL-P TOMP-?<br>ULST-C WEST-?   | G5          | S3         | U            |
| <i>Asclepias verticillata</i>                   | Whorled Milkweed         | ALBA-P BRON-? COLU-P DUTC-P<br>ERIE-? LIVI-? MONR-? NASS-P<br>NIAG-P ORAN-C RENS-P RICH-?<br>ROCK-P SCHE-? SUFF-C ULST-P<br>WEST-C   | G5          | S3         | U            |
| <i>Betula nigra</i>                             | River Birch              | BRON-P CHEM-P DUTC-P GREE-P<br>NIAG-P ONON-P ORAN-C QUEE-C<br>RICH-C SUFF-C SULL-C ULST-C<br>WEST-C  | G5          | S3         | U            |
| <i>Bidens beckii</i>                            | Water-marigold           | ALBA-P CAYU-P CHAU-P CLIN-P<br>COLU-P CORT-P ERIE-P ESSE-C<br>FRAN-P FULT-P GENE-? HERK-P<br>JEFF-P LEWI-C LIVI-P MADI-P<br>NIAG-? ONEI-P ONON-P ORAN-C<br>OSWE-P OTSE-P RENS-? SARA-P<br>SCHU-P SENE-P STEU-P STLA-C<br>WARR-C WASH-P WAYN-P WEST-P<br>WYOM-P | G4G5        | S3         | T            |
| <i>Calamagrostis pickeringii</i>                | Pickering's Reedgrass    | ESSE-C FRAN-P HAMI-C HERK-C<br>NASS-C STLA-C SUFF-C WARR-C   | G4          | S3         | U            |
| <i>Carex albicans</i> var. <i>emmonsii</i>      | Emmons' Sedge            | BRON-P CAYU-P DUTC-P GREE-C<br>MONR-? NASS-P NEWY-P ONEI-?<br>ONON-P ORAN-C OSWE-P PUTN-C<br>QUEE-P ROCK-C STLA-C SUFF-C<br>TOMP-P ULST-C WEST-P YATE-P  | G5T5        | S3         | U            |



## *2010 Rare Plant Status List - Watch List*

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|--|---------------------|---|-------------|------------|--------------|
| <i>Carex atherodes</i>                         | Awned Sedge         | CHAU-P COLU-P JEFF-C LEWI-C<br>MONR-? ONEI-P STLA-C   | G5          | S3         | E            |
| <i>Carex bicknellii</i>                        | Bicknell's Sedge    | ALBA-C BRON-C COLU-P DUTC-C<br>FULT-P NASS-P ORAN-C PUTN-C<br>RENS-C ROCK-C SARA-P SCHE-P<br>TOMP-P WARR-P WEST-C   | G5          | S3         | T            |
| <i>Carex bushii</i>                            | Bush's Sedge        | ALBA-P BRON-C COLU-C DUTC-C<br>FULT-C GREE-C ONEI-C ORAN-C<br>PUTN-C RENS-C ROCK-C SCHE-C<br>SUFF-C ULST-C WASH-C WEST-C<br>YATE-?  | G4          | S3         | U            |
| <i>Carex cryptolepis</i>                       | Northeastern Sedge  | ALBA-C CAYU-C CHAU-C CHEM-C<br>CLIN-C COLU-C DUTC-P ERIE-C<br>ESSE-C FRAN-C GENE-C HAMI-C<br>JEFF-C LEWI-P MADI-C MONR-C<br>NIAG-P ONEI-C ONON-C OSWE-C<br>OTSE-C SARA-C SCHE-C STLA-C<br>TIOG-C ULST-C WARR-C WASH-C<br>WEST-C | G4          | S3         | U            |
| <i>Carex muehlenbergii</i> var. <i>enervis</i> | Muhlenberg's Sedge  | ALBA-P BRON-P CAYU-? CHEM-?<br>DUTC-? MONR-? NASS-P NEWY-P<br>ONEI-P ORAN-P PUTN-P QUEE-P<br>RICH-? SUFF-P TIOG-P TOMP-P<br>WASH-? WEST-P   | G5T5        | S3         | U            |
| <i>Carex oligosperma</i>                       | Few-seed Sedge      | ALLE-C CATT-C CHAU-P ERIE-P<br>ESSE-P FRAN-C HAMI-P HERK-P<br>LEWI-P ONEI-C RENS-P STLA-C   | G5?         | S3         | U            |
| <i>Carex seorsa</i>                            | Weak Stellate Sedge | BRON-P CATT-P DUTC-C ERIE-P<br>MADI-P NASS-P ONEI-P ONON-C<br>ONTA-P ORAN-C OSWE-C PUTN-C<br>RENS-P RICH-P ROCK-C SUFF-C<br>ULST-C WEST-P   | G4          | S4         | T            |
| <i>Carex striata</i> var. <i>brevis</i>        | Walter's Sedge      | NASS-P SUFF-C   | G4G5T4?     | S3         | U            |
| <i>Carex willdenowii</i>                       | Willdenow's Sedge   | BRON-P CAYU-P COLU-P DUTC-C<br>GENE-C JEFF-P LIVI-C ONON-C<br>ORAN-C ROCK-? STEU-P SUFF-P<br>TOMP-C WYOM-C YATE-P   | G5          | S2S3       | T            |



## *2010 Rare Plant Status List - Watch List*

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|-------------------------|--------------------------|-----------------------------|-------------|------------|--------------|
| Celastrus scandens      | American Bittersweet     | ALBA-P BRON-P CAYU-P CORT-P | G5          | S3         | U            |
|                         |                          | ERIE-C ESSE-P GENE-C GREE-P |             |            |              |
|                         |                          | LIVI-P MONR-P NASS-P NEWY-P |             |            |              |
|                         |                          | NIAG-C ONON-P ONTA-P ORAN-C |             |            |              |
|                         |                          | OSWE-P PUTN-P QUEE-C RENS-P |             |            |              |
|                         |                          | RICH-C ROCK-P SARA-P SCHE-P |             |            |              |
|                         |                          | SCHU-C SENE-P STLA-C SUFF-C |             |            |              |
|                         |                          | TIOG-P TOMP-P ULST-P WASH-P |             |            |              |
|                         |                          | WEST-P                      |             |            |              |
|                         |                          |                             |             |            |              |
| Ceratophyllum echinatum | Prickly Hornwort         | COLU-P DELA-C DUTC-C ESSE-P | G4?         | S3         | T            |
|                         |                          | FRAN-P JEFF-C ONEI-P ORAN-C |             |            |              |
|                         |                          | OSWE-P RICH-P STLA-C SUFF-P |             |            |              |
|                         |                          | SULL-P TOMP-P ULST-C WARR-P |             |            |              |
|                         |                          | WEST-C YATE-P               |             |            |              |
|                         |                          |                             |             |            |              |
| Clintonia umbellulata   | Speckled Woodlily        | ALLE-P CATT-C CHAU-P ERIE-P | G5          | S3         | U            |
|                         |                          | LIVI-P WYOM-C               |             |            |              |
| Corydalis flavula       | Yellow Harlequin         | DUTC-C GENE-P NASS-P ONEI?  | G5          | S3         | U            |
|                         |                          | ONON-P ONTA-P ORAN-C PUTN-C |             |            |              |
|                         |                          | ROCK-C ULST-C WEST-C YATE-? |             |            |              |
| Cuscuta compacta        | Sessile Dodder           | KING-C NASS-C ORAN-C RICH-? | G5          | S3         | U            |
|                         |                          | ROCK-C SUFF-C WEST-P        |             |            |              |
| Cuscuta pentagona       | Five-angled Field-dodder | BRON-P ERIE-P HERK-P KING-C | G4G5        | S3         | U            |
|                         |                          | MONR-? NASS-C NEWY-C NIAG-C |             |            |              |
|                         |                          | ONON-? ONTA-P ORAN-C PUTN-C |             |            |              |
|                         |                          | QUEE-C ROCK-C STLA-? SUFF-C |             |            |              |
| Cyperus erythrorhizos   | Red-rooted Flatsedge     | ALBA-C BRON-P CAYU-P CHAU-C | G5          | S3         | U            |
|                         |                          | CHEM-C COLU-P ERIE-P MONR-C |             |            |              |
|                         |                          | NASS-C NEWY-C ONEI-P ORAN-C |             |            |              |
|                         |                          | PUTN-C QUEE-C ROCK-P SARA-C |             |            |              |
|                         |                          | SCHE-C SENE-? SUFF-C TOMP-P |             |            |              |
|                         |                          | ULST-C WAYN-P WEST-P        |             |            |              |
|                         |                          |                             |             |            |              |
|                         |                          |                             |             |            |              |
| Cyperus houghtonii      | Houghton's Flatsedge     | ALBA-C CHEM-P CLIN-C ESSE-C | G4?         | S3         | U            |
|                         |                          | JEFF-C LEWI-C LIVI-P PUTN-P |             |            |              |
|                         |                          | SARA-C SCHE-P STEU-P SUFF-C |             |            |              |
|                         |                          | WARR-P WASH-C WEST-?        |             |            |              |
|                         |                          |                             |             |            |              |



## 2010 Rare Plant Status List - Watch List

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|-----------------------------------|-------------------------|--|-------------|------------|--------------|
| Cyperus odoratus                  | Rusty Flatsedge         | ALBA-C BRON-P CAYU-P CHAU-C<br>COLU-P ERIE-P GREE-C JEFF-C<br>MONR-C NASS-C NIAG-P ONEI-P<br>ONON-C ORAN-C QUEE-P RENS-P<br>RICH-C ROCK-C SARA-P SCHU-P<br>STLA-C SUFF-C ULST-P WAYN-P<br>WEST-P                                       | G5          | S3         | U            |
| Cyperus schweinitzii              | Schweinitz's Flatsedge  | ALBA-C CAYU-P CHAU-P CHEM-P<br>COLU-C ERIE-P GREE-P JEFF-C<br>KING-C LEWI-C MONR-C ONEI-P<br>QUEE-C RENS-P SARA-C SCHE-C<br>STLA-C WAYN-?  | G5          | S3         | R            |
| Drosera filiformis                | Dew-thread              | SUFF-C   | G4          | S3         | R            |
| Eleocharis melanocarpa            | Black-fruited Spikerush | RICH-? SUFF-C  | G4          | S3         | U            |
| Eleocharis robbinsii              | Robbins Spikerush       | ESSE-P FULT-C JEFF-C LEWI-C<br>ORAN-? OSWE-P STLA-C SUFF-C   | G4G5        | S3         | U            |
| Fuirena pumila                    | Dwarf Umbrella-sedge    | NASS-C ORAN-C SUFF-C WEST-P  | G4          | S3         | R            |
| Heteranthera reniformis           | Kidneyleaf Mud-plantain | ALBA-C COLU-C DUTC-C GREE-C<br>ORAN-P RENS-C SUFF-C ULST-C   | G5          | S3         | U            |
| Heuchera americana var. americana | American Alumroot       | BRON-P DUTC-P ORAN-C PUTN-P<br>QUEE-? RENS-C RICH-? ROCK-P<br>ULST-P WASH-P WEST-P   | G5T5        | S3         | U            |
| Huperzia appressa                 | Appalachian Firmoss     | ESSE-C GREE-P ULST-P   | G4G5        | S3         | T            |
| Hydrocotyle umbellata             | Water-pennywort         | ONON-P OSWE-P ROCK-P SUFF-C<br>TOMP-? WEST-?   | G5          | S3         | U            |
| Hypericum ascyron                 | Great St. John's-wort   | ALBA-P BROO-P CATT-C CHEM-P<br>CHEN-? COLU-C CORT-P DELA-C<br>DUTC-? ERIE-C GENE-? HERK-?<br>JEFF-P MONR-? NIAG-? ONEI-P<br>ONON-? ORAN-P OSWE-P PUTN-?<br>RENS-? SCHE-P STEU-P STLA-C<br>SULL-C TIOG-P TOMP-P WARR-C<br>WASH-P WEST-? | G4          | S3         | U            |
| Isoetes lacustris                 | Large-spored Quillwort  | COLU-P ESSE-C GREE-P HERK-P<br>ONEI-? STLA-C WARR-C WASH-?   | G5          | S3         | R            |



## 2010 Rare Plant Status List - Watch List

| Scientific Name             | Common Name          | Counties of Occurrence      | Global Rank | State Rank | State Status |                 |                             |      |    |   |
|-----------------------------|----------------------|-----------------------------|-------------|------------|--------------|-----------------|-----------------------------|------|----|---|
| Juglans cinerea             | Butternut            | ALBA-P ALLE-P BRON-P CATT-P | G4          | S4         | U            |                 |                             |      |    |   |
|                             |                      | CAYU-P CHAU-C CHEM-P CLIN-P |             |            |              |                 |                             |      |    |   |
|                             |                      | COLU-P DELA-P DUTC-P ERIE-P |             |            |              |                 |                             |      |    |   |
|                             |                      | ESSE-P GENE-P GREE-P HAMI-P |             |            |              |                 |                             |      |    |   |
|                             |                      | JEFF-P LEWI-P LIVI-P MADI-P |             |            |              |                 |                             |      |    |   |
|                             |                      | NASS-P NIAG-P ONEL-P ONON-P |             |            |              |                 |                             |      |    |   |
|                             |                      | ONTA-P ORAN-C OSWE-P OTSE-P |             |            |              |                 |                             |      |    |   |
|                             |                      | PUTN-C QUEE-P RENS-C RICH-P |             |            |              |                 |                             |      |    |   |
|                             |                      | ROCK-C SARA-P SCHE-C SCHO-P |             |            |              |                 |                             |      |    |   |
|                             |                      | SCHU-P STEU-P STLA-P SUFF-C |             |            |              |                 |                             |      |    |   |
|                             |                      | SULL-P TIOG-P TOMP-P ULST-P |             |            |              |                 |                             |      |    |   |
|                             |                      | WARR-P WASH-P WEST-C WYOM-P |             |            |              |                 |                             |      |    |   |
|                             |                      | Lathyrus ochroleucus        |             |            |              | Creamy Wild-pea | ALLE-P BROO-? CATT-C CAYU-? | G4G5 | S3 | U |
|                             |                      |                             |             |            |              |                 | CHAU-P CHEM-C CLIN-C ERIE-P |      |    |   |
| GENE-C JEFF-C LIVI-C MONR-? |                      |                             |             |            |              |                 |                             |      |    |   |
| NIAG-P ONON-? ONTA-P ORAN-P |                      |                             |             |            |              |                 |                             |      |    |   |
| SCHU-? SENE-? STLA-P TIOG-P |                      |                             |             |            |              |                 |                             |      |    |   |
| TOMP-P WYOM-C YATE-?        |                      |                             |             |            |              |                 |                             |      |    |   |
|                             |                      |                             |             |            |              |                 |                             |      |    |   |
| Lechea racemulosa           | Illinois Pinweed     | NASS-C NEWY-P ORAN-C PUTN-C | G5          | S3         | R            |                 |                             |      |    |   |
|                             |                      | QUEE-? RICH-? ROCK-C SUFF-C |             |            |              |                 |                             |      |    |   |
|                             |                      | WEST-?                      |             |            |              |                 |                             |      |    |   |
| Lespedeza frutescens        | Violet Bush-clover   | ALBA-C BRON-P CAYU-P CHEM-P | G5          | S3         | R            |                 |                             |      |    |   |
|                             |                      | CHEN-? COLU-P DUTC-C JEFF-P |             |            |              |                 |                             |      |    |   |
|                             |                      | LIVI-C MONR-? NASS-? ONON-? |             |            |              |                 |                             |      |    |   |
|                             |                      | ONTA-C ORAN-C QUEE-P RENS-C |             |            |              |                 |                             |      |    |   |
|                             |                      | RICH-? ROCK-C SARA-P SCHE-? |             |            |              |                 |                             |      |    |   |
|                             |                      | SCHO-? SUFF-C TIOG-? TOMP-P |             |            |              |                 |                             |      |    |   |
|                             |                      | ULST-C WEST-P WYOM-C YATE-? |             |            |              |                 |                             |      |    |   |
|                             |                      |                             |             |            |              |                 |                             |      |    |   |
|                             |                      |                             |             |            |              |                 |                             |      |    |   |
|                             |                      |                             |             |            |              |                 |                             |      |    |   |
|                             |                      |                             |             |            |              |                 |                             |      |    |   |
| Lespedeza repens            | Trailing Bush-clover | BRON-P CHEM-P NASS-C RICH-C | G5          | S3         | R            |                 |                             |      |    |   |
|                             |                      | SARA-P SUFF-C TOMP-? ULST-P |             |            |              |                 |                             |      |    |   |
|                             |                      | WEST-P                      |             |            |              |                 |                             |      |    |   |
| Limosella australis         | Mudwort              | ALBA-P COLU-P DUTC-P GREE-P | G4G5        | S3         | R            |                 |                             |      |    |   |
|                             |                      | ORAN-C PUTN-P QUEE-? ROCK-C |             |            |              |                 |                             |      |    |   |
|                             |                      | SUFF-C ULST-P WEST-C        |             |            |              |                 |                             |      |    |   |
| Linum striatum              | Stiff Yellow Flax    | BRON-? CHAU-C NASS-C ORAN-P | G5          | S3         | R            |                 |                             |      |    |   |
|                             |                      | RICH-P STLA-C SUFF-C WARR-C |             |            |              |                 |                             |      |    |   |
|                             |                      | WEST-C                      |             |            |              |                 |                             |      |    |   |
| Lobelia nuttallii           | Nuttall's Lobelia    | ALBA-P NASS-X QUEE-X SUFF-C | G4G5        | S3         | R            |                 |                             |      |    |   |
|                             |                      | ULST-C                      |             |            |              |                 |                             |      |    |   |



## *2010 Rare Plant Status List - Watch List*

| Scientific Name                      | Common Name          | Counties of Occurrence   | Global Rank | State Rank | State Status |
|--------------------------------------|----------------------|--|-------------|------------|--------------|
| Lupinus perennis                     | Wild Lupine          | ALBA-C BROO-P CHEM-C CHEN-P<br>CLIN-P COLU-P DUTC-P ERIE-P<br>KING-P MONR-C NASS-P ONEI-P<br>ORAN-P OSWE-P PUTN-P QUEE-P<br>RENS-P RICH-P SARA-C SCHE-C<br>SCHU-P SENE-P SUFF-C SULL-C<br>TIOG-P TOMP-C ULST-C WARR-P<br>WASH-P WEST-P | G5          | S3         | U            |
| Luzula bulbosa                       | Hairy Woodrush       | GREE-C ORAN-? SUFF-C WARR-C  | G5          | S3         | U            |
| Luzula echinata                      | Spiny Woodrush       | BRON-P DUTC-P MONR-P NIAG-P<br>ONEI-? ONON-? ORAN-? ROCK-P<br>SUFF-C TOMP-P ULST-?   | G5          | S3         | U            |
| Mimulus alatus                       | Winged Monkeyflower  | BRON-C DUTC-C GENE-C NIAG-C<br>ORAN-C ORLE-C RICH-C SULL-C<br>ULST-C WEST-C  | G5          | S3         | R            |
| Minuartia caroliniana                | Pine-barren Sandwort | RICH-? SUFF-C  | G5          | S3         | R            |
| Minuartia glabra                     | Appalachian Sandwort | GREE-C ORAN-P SULL-P ULST-C  | G4          | S3         | T            |
| Minuartia groenlandica               | Mountain Sandwort    | ESSE-C HAMI-C ULST-C   | G5          | S3         | U            |
| Oclemena nemoralis                   | Bog Aster            | ESSE-C FRAN-P HAMI-C HERK-C<br>LEWI-P RENS-C RICH-? STLA-C<br>SUFF-C TIOG-C WARR-? WEST-?  | G5          | S3         | U            |
| Oligoneuron album                    | Upland Goldenrod     | ALBA-P JEFF-C MONR-P NIAG-C<br>RENS-C SARA-C STLA-C WASH-C   | G5          | S3         | U            |
| Panicum amarum                       | Bitter Panic Grass   | QUEE-C RICH-C SUFF-C   | G5          | S3         | U            |
| Panicum flexile                      | Wiry Panic Grass     | ERIE-C GENE-C JEFF-C MADI-P<br>ORAN-P SENE-P STLA-C SUFF-?<br>WASH-C YATE-P  | G5          | S3         | T            |
| Phragmites australis ssp. americanus | American Phragmites  | JEFF-C STLA-C WASH-?   | G5T4        | S3         | U            |
| Pinus banksiana                      | Jack Pine            | CLIN-C DUTC-C ESSE-P HAMI-P<br>ONEI-? ORAN-C STLA-P WARR-P   | G5          | S3         | R            |
| Polygala cruciata var. aquilonia     | Cross-leaf Milkwort  | KING-P NASS-P QUEE-P RICH-P<br>SUFF-C  | G5T4        | S3?        | U            |





## 2010 Rare Plant Status List - Watch List

| Scientific Name                      | Common Name             | Counties of Occurrence  | Global Rank | State Rank | State Status |
|--------------------------------------|-------------------------|---|-------------|------------|--------------|
| Polygonum erectum                    | Erect Knotweed          | ALBA-P BRON-P CATT-P CAYU-P<br>CHEM-P CHEN-P CORT-P DUTC-P<br>ERIE-P GREE-P HERK-P JEFF-P<br>KING-P LIVI-P MADI-P MONT-?<br>NASS-P NIAG-P ONEI-P ONON-P<br>ONTA-P OSWE-P QUEE-P RENS-P<br>RICH-P SARA-P SCHE-P STLA-P<br>SUFF-P SULL-P TOMP-P ULST-P<br>WARR-P WASH-P WAYN-P WEST-P<br>YATE-P | G5          | S2S3       | E            |
| Polygonum tenue                      | Slender Knotweed        | ALBA-C BRON-P COLU-C DUTC-P<br>ESSE-P GREE-P NASS-P ONON-P<br>ORAN-C QUEE-P RENS-C RICH-C<br>ROCK-C SARA-C SCHE-P SCHO-P<br>SUFF-C ULST-C WASH-? WEST-P   | G5          | S3         | R            |
| Potamogeton confervoides             | Algae-like Pondweed     | ESSE-C HAMI-C HERK-C NASS-P<br>RENS-C SARA-P STLA-P SUFF-P<br>SULL-P WARR-P   | G4          | S3         | T            |
| Ptilimnium capillaceum               | Mock Bishop's-weed      | BRON-P NASS-P RICH-P ROCK-C<br>SUFF-C WEST-?  | G5          | S3         | U            |
| Quercus marilandica var. marilandica | Blackjack Oak           | KING-C NASS-C RICH-C SUFF-C   | G5T4T5      | S3         | U            |
| Ranunculus micranthus                | Small-flowered Crowfoot | BRON-P COLU-C ONEI-P ORAN-C<br>PUTN-? RENS-P ROCK-C SUFF-P<br>ULST-P WEST-P   | G5          | S3         | T            |
| Rhynchospora fusca                   | Sooty Beakrush          | DUTC-? ESSE-P FRAN-C HAMI-P<br>HERK-P KING-P ONEI-P OSWE-C<br>ROCK-C STLA-C SUFF-C ULST-P<br>WARR-P WEST-C  | G4G5        | S3S4       | U            |
| Rhynchospora macrostachya            | Tall Beakrush           | SUFF-C  | G4          | S3         | U            |
| Sagittaria subulata                  | Strap-leaf Arrowhead    | ALBA-P COLU-C DUTC-C GREE-C<br>ORAN-C RENS-? ROCK-C ULST-C<br>WEST-C  | G4          | S3         | U            |
| Salix pyrifolia                      | Balsam Willow           | CLIN-C ESSE-C FRAN-C HAMI-P<br>JEFF-C LEWI-C STLA-C   | G5          | S3         | T            |



## 2010 Rare Plant Status List - Watch List

| Scientific Name                            | Common Name             | Counties of Occurrence  | Global Rank | State Rank | State Status |
|--|-------------------------|---|-------------|------------|--------------|
| Scheuchzeria palustris                     | Pod Grass               | ALBA-C ALLE-C CAYU-P COLU-P<br>DUTC-P ERIE-C ESSE-C FRAN-C<br>HAMI-P HERK-P MADI-C MONR-P<br>ONEI-P ONON-P OSWE-C OTSE-C<br>RENS-P SCHU-C STLA-C WARR-C<br>WAYN-C                                       | G5          | S3         | R            |
| Scleria reticularis                        | Reticulated Nutrush     | GENE-P NASS-X QUEE-X SUFF-C<br>WEST-?   | G4          | S3         | U            |
| Scutellaria parvula var. parvula           | Small Skullcap          | ESSE-C JEFF-C NIAG-C STLA-C<br>ULST-C   | G4T4        | S3         | U            |
| Symphotrichum ontarionis                   | Ontario Aster           | CHEM-? CLIN-C FRAN-C JEFF-C<br>LEWI-C NIAG-? OSWE-? STLA-C  | G5          | S3         | U            |
| Symphotrichum tenuifolium var. tenuifolium | Slender Saltmarsh Aster | BRON-P KING-P NASS-P ONON-?<br>QUEE-P RICH-P SUFF-C WEST-P  | G5T5        | S3         | U            |
| Trichostema brachiatum                     | False-pennyroyal        | ALBA-C COLU-P DUTC-P JEFF-C<br>NIAG-P RENS-C STLA-C ULST-P  | G5          | S3         | U            |
| Utricularia geminiscapa                    | Hiddenfruit Bladderwort | CATT-P CLIN-C DELA-P DUTC-C<br>ESSE-C FRAN-? HAMI-C HERK-C<br>JEFF-C LEWI-C NASS-? ONEI-?<br>ONTA-? OSWE-P PUTN-C RICH-C<br>SARA-P SENE-P STLA-C SUFF-C   | G4G5        | S3         | U            |
| Utricularia minor                          | Lesser Bladderwort      | CATT-C CAYU-C CHAU-P CLIN-?<br>COLU-P DUTC-C ESSE-P GENE-?<br>HAMI-C HERK-P LEWI-C MADI-P<br>MONR-P ONEI-P ORAN-P OSWE-C<br>RENS-P ROCK-P SARA-? SCHE-P<br>SENE-C STLA-C SUFF-P TIOG-P<br>WAYN-? WEST-C | G5          | S3         | T            |
| Utricularia subulata                       | Zigzag Bladderwort      | ORAN-? RICH-C SUFF-C  | G5          | S3         | U            |
| Vaccinium uliginosum                       | Bog Bilberry            | ESSE-C  | G5          | S3         | R            |
| Veronica peregrina ssp. xalapensis         | Neckweed                | ALBA-C CATT-C CAYU-C CLIN-C<br>JEFF-C NIAG-C SCHE-C STLA-C  | G5T5        | S3         | U            |
| Viola pedata                               | Bird's-foot Violet      | ALBA-C BROO-? DUTC-? ERIE-P<br>LEWI-? NASS-P NEWY-X ONEI-?<br>QUEE-? RICH-P SARA-? SCHE-P<br>SUFF-C WEST-?  | G5          | S3         | U            |



## *2010 Rare Plant Status List - Native Pioneer Plant Watch List*

| Scientific Name                 | Common Name          | Counties of Occurrence   | Global Rank | State Rank | State Status |
|---------------------------------|----------------------|--|-------------|------------|--------------|
| <i>Chenopodium standleyanum</i> | Standley's Goosefoot | BRON-C GREE-C RICH-C WEST-C  | G5          | S1S3       | U            |
| <i>Eclipta prostrata</i>        | False-daisy          | BRON-P NEWY-X ORAN-C RICH-P<br>ROCK-C SUFF-C ULST-P  | G5          | S1         | E            |
| <i>Eupatorium serotinum</i>     | Late Boneset         | BRON-C NASS-C RICH-C ROCK-C<br>SUFF-C  | G5          | S2S3       | E            |
| <i>Gamochaeta purpurea</i>      | Purple Everlasting   | ALBA-P CATT-C KING-? NASS-C<br>NEWY-C ONON-? ONTA-? QUEE-C<br>RICH-C ROCK-P SUFF-C WEST-C  | G5          | S1         | E            |
| <i>Geum vernum</i>              | Spring Avens         | BRON-P CHAU-C CHEN-C DUTC-C<br>HERK-? KING-? LIVI-C NIAG-?<br>ONEI-P ONON-P ONTA-P ORAN-C<br>SCHU-C SUFF-P TOMP-C ULST-C<br>WEST-P | G5          | S2S3       | E            |
| <i>Juncus diffusissimus</i>     | Diffuse Rush         | SUFF-C   | G5          | S1S3       | U            |
| <i>Utricularia inflata</i>      | Swollen Bladderwort  | FRAN-C HAMI-C HERK-C ORAN-C<br>ROCK-C  | G5          | S2         | E            |



## *2010 Rare Plant Status Lists – Review List*

This review list contains species that may be rare within New York, but more work is needed to determine their distribution within the state, resolve taxonomic/identification problems, etc. before their state rarity can be documented. Within the list you will find the species, their global and estimated state rarity rank, and the reasons why each species is listed. We welcome and encourage anyone to submit comments about these species.

| Scientific Name                                       | Common Name             | Reasons for including on the review list   | Global Rank | State Rank |
|---|-------------------------|--|-------------|------------|
| <i>Agalinis tenuifolia</i> var. <i>macrophylla</i>    | Bessey's False-Foxglove | HERBARIUM AND FIELD WORK: There is some taxonomic confusion with this variety. Judith Canne-Hilliker lumped this under var. <i>tenuifolia</i> , but Mitchell currently has this listed as a unique variety. Kartesz and the USDA Plants Database recognize this as a distinct variety. If recognized separately, it is rare within New York. | G5T4T5      | SR         |
| <i>Agalinis tenuifolia</i> var. <i>parviflora</i>     | Slender Foxglove        | HERBARIUM AND FIELD WORK: Most authorities recognize this variety. There are very few recent records and this is likely rare. More research on its distribution and clarification of the taxonomy are needed.  | G5T4        | SR         |
| <i>Anemone virginiana</i> var. <i>cylindroidea</i>    | Thimbleweed             | HERBARIUM WORK: There are very few records of this variety, but it may be overlooked. All specimens of <i>Anemone virginica</i> need to be reviewed and identified to variety to better determine the rarity of this variety. We also need to determine field characters to identify this variety.   | G5TNR       | S3?        |
| <i>Angelica venenosa</i>                              | Hairy Angelica          | FIELD WORK: This plant may be on the decline as upland open sites are developed. New York is at the northeastern edge of its range and it is rare in nearby states. Fieldwork is needed to check present distribution.   | G5          | S3?        |
| <i>Aristida longespica</i> var. <i>geniculata</i>     | Slender Three-Awn grass | FIELD WORK: This appears to only occur on Long Island and NYC. We need to know how common this is there. It may be limited to pine barren areas and the sands around coastal plain ponds.  | G5T5?       | S3?        |
| <i>Aristida longespica</i> var. <i>longespica</i>     | Slender Three-Awn grass | FIELD WORK: This appears to only occur on Long Island and NYC. We need to know how common this is there. It may be limited to pine barren areas and the sands around coastal plain ponds.  | G5T5?       | S3?        |
| <i>Athyrium felix-femina</i> ssp. <i>asplenioides</i> | Southern Lady Fern      | FIELD WORK: We would like to know if this is rare in the Lower Hudson area and Long Island   | G5T5        | S3?        |
| <i>Aureolaria flava</i> var. <i>macrantha</i>         | Yellow Foxglove         | HERBARIUM AND FIELD WORK: There are only seven records of this variety, with the most recent collection in 1926. There are a number of herbarium specimens not identified to variety. The specimens need to be identified to variety to better determine the rarity of this variety.   | G5TNR       | S1?        |
| <i>Bartonia paniculata</i> ssp. <i>iodandra</i>       | Twining Screw-stem      | HERBARIUM WORK: This is found in nearby New England states and may have been overlooked here in New York. Verify all <i>Bartonia paniculata</i> herbarium specimens and key to subspecies.   | G5T3T5      | S?         |
| <i>Cakile edentula</i> var. <i>lacustris</i>          | American Sea Rocket     | HERBARIUM AND FIELD WORK: This is restricted to the shores of the Great Lakes where it may be possible to see both varieties. There are many herbarium specimens that need to be identified to variety. We need to hear from the Great Lakes botanists regarding how often they see this variety.  | G5T3T5      | S3?        |



## 2010 Rare Plant Status Lists – Review List

| Scientific Name  | Common Name         | Reasons for including on the review list  | Global Rank | State Rank |
|--|---------------------|---|-------------|------------|
| <i>Calamagrostis canadensis</i> var. <i>langsдорffii</i> | Bluejoint Grass     | HERBARIUM WORK: This is separated from the more common <i>C. canadensis</i> by a larger inflorescence. If recognized, it is likely a northern taxon reaching its southern limit in New York. All <i>Calamagrostis canadensis</i> specimens need to be annotated to variety to better determine the rarity of this variety. Synonymous with var. <i>scabra</i> . | G5T5        | S1?        |
| <i>Calamovilfa longifolia</i>                            | Prairie Sandreed    | HERBARIUM AND FIELD WORK: This is listed as a waif in New York (a single collection from a waste area in Buffalo) but it is native to all other Great Lake states/provinces. It needs more herbarium and fieldwork to determine if it is appearing along Lakes Erie and Ontario.  | G5          | S1?        |
| <i>Calystegia sepium</i> varieties                       | Wild Morning Glory  | HERBARIUM WORK: Little is known about these varieties. More herbarium work is needed to determine rarity.   | G5T5        | S?         |
| <i>Carex adusta</i>                                      | Swarthy Sedge       | FIELD WORK: More fieldwork is needed to see if it is in New York. It may appear in gravel pits or in areas after a fire in the Adirondacks. It is present in nearby Ontario and Quebec.   | G5          | S1?        |
| <i>Carex scoparia</i> var. <i>tesselata</i>              | Pointed Broom Sedge | HERBARIUM WORK: There is only a single dot from Suffolk County, attributed to a single collection from Montauk. Reznicek has said it is a good taxon. The Suffolk County specimen needs to be verified and many of the <i>Carex scoparia</i> specimens, particularly those from Suffolk County, need to be identified to variety.                               | G5TNR       | SH?        |
| <i>Chamaecrista fasciculata</i>                          | Prairie Senna       | HERBARIUM AND FIELD WORK: The House/Smith cards at the State Museum have 20 specimens, 12 citations and 3 observations listed. More work is needed to document how common this is.  | G5          | S3S4       |
| <i>Chenopodium berlandieri</i> var. <i>boscianum</i>     | Bosc's Goosefoot    | FIELD WORK: Based on the Flora of North America this is native to far western New York. More fieldwork is needed to study how common its habitat is and if it exists in the state.  | G5T?        | S1?        |
| <i>Chenopodium foggii</i>                                | Fogg's Goosefoot    | HERBARIUM WORK: It is unknown if any vouchers exist from New York. Further studies needed to determine the validity of this species.  | G3Q         | SR         |
| <i>Corallorhiza odontorhiza</i> var. <i>pringlei</i>     | Autumn Coral-Root   | HERBARIUM WORK: Little is known about this variety. At the variety level, it is globally rare. The monograph of <i>Corallorhiza</i> by John Freudenstein (Harvard Papers in Botany, 1997) does include New York within the range of this variety, with at least one specimen identified to this variety.  | G5T2T4      | SR         |
| <i>Cornus amomum</i> ssp. <i>obliqua</i>                 | Pale Dogwood        | HERBARIUM AND FIELD WORK: The House/Smith cards at the State Museum have 4 specimens, 3 citations, and 7 observations listed. More work is needed to document how common this is. It may be common when people become familiar with it and start looking for it.  | G5T5        | S2?        |
| <i>Crataegus flabellata</i> var. <i>grayana</i>          | Fanleaf Hawthorn    | HERBARIUM WORK: One Atlas record from Cattaraugus County. House/Smith Cards have 5 records from Essex, Hamilton and St. Lawrence Cos. Specimens need to be examined to determine correct identification and distribution.   | G5T5?       | S1?        |



## 2010 Rare Plant Status Lists – Review List

| Scientific Name   | Common Name                   | Reasons for including on the review list  | Global Rank | State Rank |
|---|-------------------------------|---|-------------|------------|
| <i>Cuscuta gronovii</i> var. <i>latiflora</i>             | Two-flowered Gronovius Dodder | FIELD WORK: This may be common on Long Island and more fieldwork is needed to determine distribution and abundance. It closely resembles <i>C. var. obtusiflora</i> var. <i>glandulosa</i> .  | G5T5?       | S3?        |
| <i>Dichanthelium ovale</i>                                | Egg-leaf Witchgrass           | HERBARIUM WORK: many specimens are probably misidentified and this may be common on Long Island. All specimens of this and closely related species must be examined to determine abundance and location.  | G5          | S1?        |
| <i>Eleocharis compressa</i> var. <i>compressa</i>         | Flatstem Spike-rush           | HERBARIUM WORK: <i>Eleocharis compressa</i> was recently separated from <i>Eleocharis elliptica</i> . New York has both taxa, but no one has yet reviewed all <i>Eleocharis elliptica</i> specimens to determine which are truly <i>E. elliptica</i> and which are <i>E. compressa</i> . Until this review is complete, the distribution for these two taxa is inaccurate.  | G4T4        | S?         |
| <i>Eleocharis wolfii</i>                                  | Wolf's spikerush              | HERBARIUM AND FIELD WORK: This species has a “wide range” but is apparently rare throughout much of its northern range (NatureServe Explorer 2002). It is poorly known and may be overlooked due to lack of inventory. It is threatened by the loss of its native wetland and grassland habitat. Fernald lists Long Island as a disjunct population, but Mitchell considered the Long Island plants adventive. Based upon its global distribution, this could be a true native in western New York as there are populations in neighboring states. More work is needed to determine its distribution. Closely related taxa should be verified to determine no <i>E. wolfii</i> are hiding in these folders. | G3?         | SE         |
| <i>Elymus macgregorii</i>                                 | MacGregor's Wildrye           | HERBARIUM AND FIELD WORK: This has been cited as being from New York. It needs more herbarium and fieldwork.  | G?          | S?         |
| <i>Epilobium ciliatum</i> ssp. <i>glandulosum</i>         | Willow-Herb                   | HERBARIUM WORK: Specimens need more study to determine native status.   | G5T5        | SH?        |
| <i>Eupatorium sessilifolium</i> var. <i>brittonianum</i>  | Upland Boneset                | HERBARIUM AND FIELD WORK: Very few herbarium specimens of <i>Eupatorium sessilifolium</i> are identified to variety. This needs to be identified to variety to better determine the rarity of both varieties.   | G5T3T5      | S?         |
| <i>Eupatorium sessilifolium</i> var. <i>sessilifolium</i> | Upland Boneset                | HERBARIUM AND FIELD WORK: Very few herbarium specimens of <i>Eupatorium sessilifolium</i> are identified to variety. This needs to be identified to variety to better determine the rarity of both varieties.   | G5T5        | S?         |
| <i>Glyceria obtusa</i>                                    | Blunt Manna-Grass             | FIELD WORK: This appears to only occur on Long Island and NYC with a disjunct from Cayuga County. We need to know how common this is on Long Island.  | G5          | S3?        |
| <i>Huperzia porophila</i>                                 | Rock Clubmoss                 | FIELD WORK: Within New York, we do have a single population of <i>Huperzia lucidula</i> x <i>porophila</i> (= <i>H. x bartleyi</i> ), but no known populations of <i>Huperzia porophila</i> are located within New York. With this hybrid of <i>H. porophila</i> located within the state, we need to keep an eye open for this species.  | G4          | SU         |



## *2010 Rare Plant Status Lists – Review List*

| Scientific Name  | Common Name             | Reasons for including on the review list   | Global Rank | State Rank |
|--|-------------------------|--|-------------|------------|
| <i>Isoetes acadensis</i>                               | Acadian Quillwort       | HERBARIUM AND FIELD WORK: A specimen from Stoner Lakes has been identified to this species. This is a southern Adirondack lake, typical of the many other lakes throughout the Adirondacks. More surveys are needed to determine if this is known from other shallow acidic lakes. It is closely aligned with <i>Isoetes tuckermanii</i> and is known to hybridize with <i>Isoetes lacustris</i> , both well known from the Adirondack Lakes. More studies are needed to determine if there are consistent, dependable morphological characters that may be used to identify this species. The Stoner Lake specimen should also be confirmed to determine that it is not a hybrid with either <i>I. tuckermanii</i> or <i>I. lacustris</i> as one of the parents. Broader studies are needed to determine if this is a good entity or not. | G2G3        | S1?        |
| <i>Lemna obscura</i>                                   | Little Duckweed         | HERBARIUM WORK: Flora of North America separates <i>Lemna obscura</i> , <i>Lemna minor</i> , and <i>Lemna turionifera</i> . Mitchell & Tucker lumped these all under <i>Lemna minor</i> . As a result, all <i>Lemna minor</i> specimens need to be reviewed and verified. Undoubtedly, this review will discover that some specimens currently identified as <i>Lemna minor</i> will be annotated to <i>Lemna obscura</i> or <i>Lemna turionifera</i> .  | G5          | S?         |
| <i>Lemna turionifera</i>                               | Turion Duckweed         | HERBARIUM WORK: Flora of North America separates <i>Lemna obscura</i> , <i>Lemna minor</i> , and <i>Lemna turionifera</i> . Mitchell & Tucker lumped these all under <i>Lemna minor</i> . As a result, all <i>Lemna minor</i> specimens need to be reviewed and verified. Undoubtedly, this review will discover that some specimens currently identified as <i>Lemna minor</i> will be annotated to <i>Lemna obscura</i> or <i>Lemna turionifera</i> .  | G5          | S?         |
| <i>Malus glaucescens</i>                               | Sweet Crab-Apple        | HERBARIUM WORK: This is a native crabapple from western New York. There is some taxonomic confusion between this and <i>Malus coronaria</i> . All specimens of both species need to be verified to determine their rarity and distribution. More studies are needed to determine if this is a good entity.   | G4?Q        | S2?        |
| <i>Mertensia paniculata</i> var. <i>paniculata</i>     | Tall Bluebells          | HERBARIUM WORK: Specimens need to be verified and a determination needs to be made on its native status.   | G5T5        | S?         |
| <i>Monarda media</i>                                   | Purple Bergamot         | HERBARIUM WORK: There is some taxonomic confusion around this plant. Some treat it as a species and others as a hybrid. More research on its taxonomic status is needed.   | G4?         | S2?        |
| <i>Monarda punctata</i> var. <i>punctata</i>           | Spotted Bee-Balm        | FIELD WORK: Only known from Suffolk County. We need to know how common this is on Long Island.   | G5T5        | S1?        |
| <i>Nuphar rubrodiscalis</i>                            | Purple-Spotted Pondlily | FIELD WORK: Only mentioned here because of the global rank. We need to know how common this is to better determine the global rank.  | G3G5        | S3S5       |
| <i>Panax quinquefolium</i>                             | American Ginseng        | FIELD WORK: Ginseng is only mentioned because of the global rank. We need an estimate of the total number of naturally occurring populations known within the state in order to provide ample evidence that the global rank should be a G4.  | G3G4        | S3S4       |
| <i>Phaseolus polystachios</i> var. <i>polystachios</i> | Wild Kidney Bean        | HERBARIUM AND FIELD WORK: We need to clarify this species native/non-native status and determine its distribution.   | G4T4        | S1?        |



## *2010 Rare Plant Status Lists – Review List*

| Scientific Name                                     | Common Name              | Reasons for including on the review list  | Global Rank | State Rank |
|---|--------------------------|---|-------------|------------|
| <i>Phoradendron leucarpum</i>                       | American Mistletoe       | HERBARIUM WORK: This plant is mentioned in the literature from Staten Island. We need to locate a voucher and determine if it was ever a native on Staten Island.   | G5          | SX         |
| <i>Piptochaetium avenaceum</i>                      | Blackseed Needlegrass    | HERBARIUM AND FIELD WORK: This seems to be fairly uncommon in New York. It is mostly from Long Island and the Lower Hudson areas. It needs specimen information and field work to assess its present status.  | G5          | S3?        |
| <i>Pityopsis falcata</i>                            | Sickle-Leaf Golden-Aster | FIELD WORK: Only recorded from Long Island, NYC, and Staten Island, but potentially abundant there. Only included because of the global rank. We need to estimate the total number of populations and population sizes to justify changing its global rank to a G4 or G5. | G3G4        | S3?        |
| <i>Polygala verticillata</i> var. <i>ambigua</i>    | Whorled Milkwort         | HERBARIUM WORK: We need to annotate many specimens to variety. The distribution of this variety is not well known.  | G5T5?       | S3?        |
| <i>Polygala verticillata</i> var. <i>isocycla</i>   | Whorled Milkwort         | HERBARIUM WORK: We need to annotate many specimens to variety. The distribution of this variety is not well known.  | G5T5        | S3?        |
| <i>Proserpinaca palustris</i> var. <i>palustris</i> | Mermaid-Weed             | HERBARIUM AND FIELD WORK: There is one record from Suffolk County. We need to know how common this is on Long Island. Both varieties are present on Long Island, but there are few specimens of this variety.   | G5T5        | S1?        |
| <i>Ptilimnium capillaceum</i>                       | Mock Bishop-Weed         | FIELD WORK: Restricted to Long Island. We need to know how common this is on Long Island and the habitats where it is observed.   | G5          | S3?        |
| <i>Rosa blanda</i> var. <i>glabra</i>               | Northern Rose            | HERBARIUM WORK: This is a taxonomically questionable entity. We need to annotate many specimens to variety. The distribution of this variety is not well known.   | G5T4?Q      | S?         |
| <i>Rosa nitida</i>                                  | Shining Rose             | FIELD WORK: This may be on the eastern end of the South Fork but more field work needs to be done to identify plants to species.  | G5          | S?         |
| <i>Rosa setigera</i> var. <i>tomentosa</i>          | Prairie Rose             | HERBARIUM WORK: We need to annotate many specimens to variety. The distribution of this variety is not well known.  | G5T5?       | S1?        |
| <i>Rudbeckia hirta</i> var. <i>hirta</i>            | Black-Eyed Susan         | HERBARIUM WORK: Specimens need more study to determine native status.   | G5T4T5      | SH         |
| <i>Sagittaria australis</i>                         | Appalachian Arrowhead    | HERBARIUM WORK: Flora of North America includes this species for New York with a specimen reported from in or near Monroe County. More research is needed to determine where this specimen is located.  | G5          | S?         |





## 2010 Rare Plant Status Lists – Review List

| Scientific Name                                   | Common Name               | Reasons for including on the review list  | Global Rank | State Rank |
|---|---------------------------|---|-------------|------------|
| <i>Schoenoplectus smithii</i> var. <i>setosus</i> | Bristly Smith's Bulrush   | HERBARIUM AND FIELD WORK: The varieties of <i>Schoenoplectus smithii</i> are under-reported as many sources do not recognize them. As noted by Flora of North America though, these varieites occur in different habitats, so their recognition may be a useful ecological indicator. The habitat differences are: var. <i>levisetus</i> is usually in freshwater tidal habitats, var. <i>setosus</i> is usually in relatively stable water levels, and var. <i>smithii</i> is usually in tidal areas or areas with high water fluctuation. | G5T5        | S?         |
| <i>Schoenoplectus smithii</i> var. <i>smithii</i> | Smith's Bulrush           | HERBARIUM AND FIELD WORK: The varieties of <i>Schoenoplectus smithii</i> are under-reported as many sources do not recognize them. As noted by Flora of North America though, these varieites occur in different habitats, so their recognition may be a useful ecological indicator. The habitat differences are: var. <i>levisetus</i> is usually in freshwater tidal habitats, var. <i>setosus</i> is usually in relatively stable water levels, and var. <i>smithii</i> is usually in tidal areas or areas with high water fluctuation. | G5          | S4         |
| <i>Selaginella eclipses</i>                       | Hidden Spikemoss          | HERBARIUM AND FIELD WORK: More herbarium and field work is needed to determine if this species is in New York.  | G4          | S?         |
| <i>Selaginella selaginoides</i>                   | Northern Spikemoss        | FIELD WORK: Flora of North America indicates that this is known from far northern New York (St. Lawrence Valley). Botanists in this area of the state should keep an eye open for this species to confirm its presence in New York. We need to track down the vouchers used by the FNA authors to support the inclusion of northern New York.   | G5          | S?         |
| <i>Sisyrinchium albidum</i>                       | White Blue-eyed Grass     | FIELD WORK: Flora of North America includes the Southern Tier as part of this species range. We need confirmation that this species is indeed present within New York. Botanists working in central New York near the Pennsylvania border should keep an eye open for this species.   | G5?         | S?         |
| <i>Sisyrinchium montanum</i> var. <i>crebrum</i>  | Blue-eyed Grass           | HERBARIUM AND FIELD WORK: Very few herbarium specimens are identified to variety. We need to identify these to variety and determine its distribution.  | G5T4T5      | S1?        |
| <i>Smilax lasioneura</i>                          | Blue Ridge Carrion-flower | HERBARIUM WORK: Flora of North America includes western New York within the range of <i>Smilax lasioneura</i> . We need to track down the vouchers used by the FNA authors to support the inclusion of western New York.  | G5          | S?         |
| <i>Solidago canadensis</i> var. <i>hargerii</i>   | Canadian Goldenrod        | HERBARIUM AND FIELD WORK: Very few herbarium specimens are identified to variety. We need to identify these to variety and determine its distribution.  | G5T4T5      | S3?        |
| <i>Solidago rugosa</i> ssp. <i>aspera</i>         | Rough-Leaf Goldenrod      | HERBARIUM AND FIELD WORK: Very few herbarium specimens are identified to subspecies. We need to identify these to subspecies and determine its distribution.  | G5T5        | S1         |
| <i>Solidago rugosa</i> var. <i>sphagnophila</i>   | Rough-Leaf Goldenrod      | HERBARIUM AND FIELD WORK: Very few herbarium specimens are identified to variety. We need to identify these to variety and determine its distribution.  | G5T3T5      | SH         |



## *2010 Rare Plant Status Lists – Review List*

| Scientific Name   | Common Name          | Reasons for including on the review list  | Global Rank | State Rank |
|---|----------------------|---|-------------|------------|
| <i>Solidago rugosa</i> ssp. <i>rugosa</i> var. <i>villosa</i> | Rough-Leaf Goldenrod | HERBARIUM AND FIELD WORK: Very few herbarium specimens are identified to variety. We need to identify these to variety and determine its distribution.  | G5T?        | S?         |
| <i>Solidago uliginosa</i> var. <i>levipes</i>                 | Bog Goldenrod        | HERBARIUM AND FIELD WORK: Very few herbarium specimens are identified to variety. We need to identify these to variety and determine its distribution. NatureServe includes only Ontario and New York as the range of this plant. Not listed by Mitchell.   | G4G5T?      | SR         |
| <i>Solidago uliginosa</i> var. <i>linoides</i>                | Bog Goldenrod        | HERBARIUM AND FIELD WORK: Very few herbarium specimens are identified to variety. We need to identify these to variety and determine its distribution.  | G4G5T4T5    | S?         |
| <i>Solidago uliginosa</i> var. <i>uliginosa</i>               | Bog Goldenrod        | HERBARIUM AND FIELD WORK: Very few herbarium specimens are identified to variety. We need to identify these to variety and determine its distribution.  | G4G5T4T5    | S?         |
| <i>Spiraea tomentosa</i> var. <i>rosea</i>                    | Hardhack Spiraea     | HERBARIUM AND FIELD WORK: Very few herbarium specimens are identified to variety. We need to identify these to variety and determine its distribution.  | G5T5        | S?         |
| <i>Symphotrichum lateriflorum</i> var. <i>hirsuticaulis</i>   | Calico Aster         | HERBARIUM WORK: The specimens need more study to separate the varieties. Some sources list this taxon at the species level ( <i>Symphotrichum hirsuticaule</i> ).   | G5TNR       | SH         |
| <i>Symphotrichum novi-belgii</i> var. <i>villicaule</i>       | New York Aster       | HERBARIUM WORK: Based upon the NY Flora Atlas, this is a northern species with a very restricted distribution in New York. Very few herbarium specimens of <i>Aster novi-belgii</i> are identified to variety. The specimens need to be identified to variety to better determine the rarity of this variety. | G5TNR       | S3?        |
| <i>Thaspium trifoliatum</i> var. <i>trifoliatum</i>           | Meadow Parsnip       | HERBARIUM AND FIELD WORK: More herbarium and fieldwork is needed to determine if this variety is in New York.   | G5T5        | S?         |
| <i>Toxicodendron radicans</i> ssp. <i>negundo</i>             | Poison Ivy           | HERBARIUM AND FIELD WORK: Very few herbarium specimens are identified to variety. We need to identify these to variety and determine its distribution.  | G5T5        | S?         |
| <i>Toxicodendron rydbergii</i>                                | Northern Poison Oak  | FIELD WORK: We need more records to determine rarity. In particular, we need to know how abundant this may or may not be within the Adirondacks.  | G5          | S3?        |
| <i>Trillium cernuum</i>                                       | Nodding Trillium     | HERBARIUM AND FIELD WORK: This seems to be fairly uncommon in New York. It is mostly from the Limestone Belt areas. It needs specimen information and field work to assess its present status.  | G5          | S3?        |
| <i>Zizania palustris</i>                                      | Wild Rice            | HERBARIUM AND FIELD WORK: We need to review all <i>Zizania aquatica</i> and <i>Zizania palustris</i> specimens to determine complete distribution and rarity of <i>Zizania palustris</i> . Very few specimens are located in herbaria, but many may be filed under <i>Zizania aquatica</i> .                  | G4G5        | S?         |



## 2010 Rare Plant Status List - Phenology

|  | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|--|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <b><i>Acalypha virginica</i></b>                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     | ■    | ■   |     |     |
| <b><i>Aconitum noveboracense</i></b>             |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     | ■    | ■   |     |     |
| <b><i>Adoxa moschatellina</i></b>                |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     | ■   | ■    | ■    |     |      |     |     |     |
| Fruiting   |     |     |     |     |     | ■    | ■    |     |      |     |     |     |
| <b><i>Agalinis acuta</i></b>                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      | ■   | ■    |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     | ■    | ■   |     |     |
| <b><i>Agalinis maritima var. maritima</i></b>    |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                       |     |     | ■   | ■   | ■   | ■    | ■    | ■   | ■    | ■   | ■   |     |
| Flowering  |     |     |     |     |     |      |      | ■   | ■    |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     | ■    | ■   |     |     |
| <b><i>Agastache nepetoides</i></b>               |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                       |     |     |     |     |     |      | ■    | ■   | ■    | ■   |     |     |
| Flowering  |     |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
| Fruiting   | ■   | ■   | ■   | ■   | ■   |      |      |     |      | ■   | ■   | ■   |
| <b><i>Ageratina aromatica var. aromatica</i></b> |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      | ■   | ■    |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     | ■    | ■   |     |     |
| <b><i>Agrimonia rostellata</i></b>               |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                       |     |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
| Flowering  |     |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
| Fruiting   |     |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| <b><i>Agrostis mertensii</i></b>                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      | ■    | ■   |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      | ■   | ■    |     |     |     |
| <b><i>Aletris farinosa</i></b>                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                       |     |     | ■   | ■   | ■   | ■    | ■    | ■   | ■    | ■   | ■   |     |
| Flowering  |     |     |     |     |     | ■    | ■    | ■   |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| <b><i>Alisma gramineum</i></b>                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      | ■    | ■   |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      | ■   | ■    |     |     |     |
| <b><i>Allium cernuum var. cernuum</i></b>        |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                       |     |     |     |     |     |      | ■    | ■   | ■    | ■   | ■   |     |
| Flowering  |     |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
| Fruiting   |     |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| <b><i>Allium tricoccum var. burdickii</i></b>    |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                       |     |     |     | ■   | ■   | ■    | ■    | ■   |      |     |     |     |
| Flowering  |     |     |     |     |     | ■    | ■    | ■   |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      | ■   | ■    |     |     |     |



## 2010 Rare Plant Status List - Phenology

|   | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|---|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <b><i>Amaranthus pumilus</i></b>                          |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Amelanchier nantucketensis</i></b>                  |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Amerorchis rotundifolia</i></b>                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Amianthium muscaetoxicum</i></b>                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Ammophila breviligulata ssp. champlainensis</i></b> |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Amphicarpum purshii</i></b>                         |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Anemone multifida var. hudsoniana</i></b>           |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Angelica lucida</i></b>                             |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Anthoxanthum monticola ssp. monticola</i></b>       |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Anticlea elegans ssp. glaucus</i></b>               |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Aplectrum hyemale</i></b>                           |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Arethusa bulbosa</i></b>                            |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Argentina egedii ssp. groenlandica</i></b>          |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Arnica lanceolata ssp. lanceolata</i></b>           |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |



## 2010 Rare Plant Status List - Phenology

|  | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|--|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <b><i>Arnoglossum atriplicifolium</i></b>                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     | ■    | ■   |     |     |
| <b><i>Asclepias purpurascens</i></b>                         |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      | ■    | ■   |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| <b><i>Asclepias rubra</i></b>                                |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     | ■   | ■   | ■    | ■    | ■   | ■    | ■   | ■   |     |
| Flowering  |     |     |     |     |     |      | ■    | ■   |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| <b><i>Asclepias variegata</i></b>                            |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      | ■    | ■   |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| <b><i>Asclepias viridiflora</i></b>                          |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      | ■    | ■   | ■    | ■   |     |     |
| Flowering  |     |     |     |     |     |      | ■    | ■   |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| <b><i>Asimina triloba</i></b>                                |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     | ■   | ■    | ■    |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| <b><i>Asplenium bradleyi</i></b>                             |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     | ■   | ■   | ■    | ■    | ■   | ■    | ■   | ■   |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     | ■   | ■    | ■    | ■   | ■    |     |     |     |
| <b><i>Asplenium montanum</i></b>                             |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     | ■   | ■   | ■    | ■    | ■   | ■    | ■   | ■   |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     | ■   | ■    | ■    | ■   | ■    |     |     |     |
| <b><i>Asplenium scolopendrium</i> var. <i>americanum</i></b> |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     | ■   | ■   | ■    | ■    | ■   | ■    | ■   | ■   |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     | ■   | ■    | ■    | ■   | ■    | ■   |     |     |
| <b><i>Asplenium trichomanes-ramosum</i></b>                  |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     | ■   | ■   | ■    | ■    | ■   | ■    | ■   |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| <b><i>Astragalus neglectus</i></b>                           |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      | ■    | ■   |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      | ■   | ■    |     |     |     |
| <b><i>Atriplex dioica</i></b>                                |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      | ■   |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     | ■    | ■   | ■   |     |
| <b><i>Atriplex glabriuscula</i></b>                          |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      | ■   |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     | ■    | ■   | ■   |     |
| <b><i>Bartonia paniculata</i> ssp. <i>paniculata</i></b>     |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      | ■   | ■    |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      | ■   |     |     |



## 2010 Rare Plant Status List - Phenology

|  | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|--|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <b><i>Berula erecta</i></b>                          |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Betula glandulosa</i></b>                      |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Betula minor</i></b>                           |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Betula pumila</i></b>                          |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Bidens bidentoides</i></b>                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Bidens hyperborea var. hyperborea</i></b>      |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Bidens laevis</i></b>                          |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Blephilia ciliata</i></b>                      |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Boechera dentata</i></b>                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Boechera grahamii</i></b>                      |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Boechera missouriensis</i></b>                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Boechera stricta</i></b>                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Bolboschoenus maritimus ssp. paludosus</i></b> |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Bolboschoenus novae-angliae</i></b>            |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |



## 2010 Rare Plant Status List - Phenology

|  | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|--|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <b><i>Botrychium campestre</i></b>                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Botrychium lunaria</i></b>                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Botrychium minganense</i></b>                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Botrychium oneidense</i></b>                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Botrychium rugulosum</i></b>                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Bouteloua curtipendula var. curtipendula</i></b> |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Bromus nottowayanus</i></b>                      |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Buchnera americana</i></b>                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Calamagrostis perplexa</i></b>                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Calamagrostis porteri ssp. porteri</i></b>       |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Calamagrostis stricta ssp. inexpansa</i></b>     |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Calamagrostis stricta ssp. stricta</i></b>       |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Calamintha arkansana</i></b>                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Callitriche hermaphroditica</i></b>              |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |



## 2010 Rare Plant Status List - Phenology

|  | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|--|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <b><i>Callitriche terrestris</i></b>         |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Calypso bulbosa var. americana</i></b> |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Campanulastrum americanum</i></b>      |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Cardamine douglassii</i></b>           |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Cardamine longii</i></b>               |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Cardamine rotundifolia</i></b>         |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Carex abscondita</i></b>               |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Carex aggregata</i></b>                |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Carex amphibola</i></b>                |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Carex arcta</i></b>                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Carex atratiformis</i></b>             |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Carex backii</i></b>                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Carex barrattii</i></b>                |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Carex bigelowii</i></b>                |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                     |     |     |     |     |     |      |      |     |      |     |     |     |





## 2010 Rare Plant Status List - Phenology

|                                   | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|-----------------------------------|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <b>Carex bullata</b>              |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                        |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                         |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                          |     |     |     |     |     |      |      |     |      |     |     |     |
| <b>Carex buxbaumii</b>            |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                        |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                         |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                          |     |     |     |     |     |      |      |     |      |     |     |     |
| <b>Carex capillaris</b>           |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                        |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                         |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                          |     |     |     |     |     |      |      |     |      |     |     |     |
| <b>Carex careyana</b>             |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                        |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                         |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                          |     |     |     |     |     |      |      |     |      |     |     |     |
| <b>Carex caroliniana</b>          |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                        |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                         |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                          |     |     |     |     |     |      |      |     |      |     |     |     |
| <b>Carex chordorrhiza</b>         |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                        |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                         |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                          |     |     |     |     |     |      |      |     |      |     |     |     |
| <b>Carex collinsii</b>            |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                        |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                         |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                          |     |     |     |     |     |      |      |     |      |     |     |     |
| <b>Carex conjuncta</b>            |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                        |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                         |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                          |     |     |     |     |     |      |      |     |      |     |     |     |
| <b>Carex crawei</b>               |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                        |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                         |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                          |     |     |     |     |     |      |      |     |      |     |     |     |
| <b>Carex cumulata</b>             |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                        |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                         |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                          |     |     |     |     |     |      |      |     |      |     |     |     |
| <b>Carex davisii</b>              |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                        |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                         |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                          |     |     |     |     |     |      |      |     |      |     |     |     |
| <b>Carex debilis var. debilis</b> |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                        |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                         |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                          |     |     |     |     |     |      |      |     |      |     |     |     |
| <b>Carex decomposita</b>          |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                        |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                         |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                          |     |     |     |     |     |      |      |     |      |     |     |     |
| <b>Carex echinoides</b>           |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                        |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                         |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                          |     |     |     |     |     |      |      |     |      |     |     |     |



## 2010 Rare Plant Status List - Phenology

|                                |            | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|--------------------------------|------------|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <i>Carex emoryi</i>            | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|                                | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|                                | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Carex formosa</i>           | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|                                | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|                                | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Carex frankii</i>           | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|                                | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|                                | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Carex garberi</i>           | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|                                | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|                                | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Carex glaucodea</i>         | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|                                | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|                                | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Carex gynocrates</i>        | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|                                | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|                                | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Carex haydenii</i>          | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|                                | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|                                | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Carex hormathodes</i>       | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|                                | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|                                | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Carex houghtoniana</i>      | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|                                | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|                                | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Carex jamesii</i>           | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|                                | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|                                | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Carex livida</i>            | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|                                | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|                                | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Carex lupuliformis</i>      | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|                                | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|                                | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Carex meadii</i>            | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|                                | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|                                | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Carex merritt-fernaldii</i> | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|                                | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|                                | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |



## 2010 Rare Plant Status List - Phenology

|   | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|---|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <b>Carex mesochorea</b>                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                              |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                               |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                |     |     |     |     |     |      |      |     |      |     |     |     |
| <b>Carex mitchelliana</b>               |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                              |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                               |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                |     |     |     |     |     |      |      |     |      |     |     |     |
| <b>Carex molesta</b>                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                              |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                               |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                |     |     |     |     |     |      |      |     |      |     |     |     |
| <b>Carex nigra</b>                      |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                              |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                               |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                |     |     |     |     |     |      |      |     |      |     |     |     |
| <b>Carex nigromarginata</b>             |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                              |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                               |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                |     |     |     |     |     |      |      |     |      |     |     |     |
| <b>Carex polymorpha</b>                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                              |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                               |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                |     |     |     |     |     |      |      |     |      |     |     |     |
| <b>Carex retroflexa</b>                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                              |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                               |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                |     |     |     |     |     |      |      |     |      |     |     |     |
| <b>Carex reznicekii</b>                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                              |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                               |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                |     |     |     |     |     |      |      |     |      |     |     |     |
| <b>Carex richardsonii</b>               |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                              |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                               |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                |     |     |     |     |     |      |      |     |      |     |     |     |
| <b>Carex sartwellii</b>                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                              |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                               |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                |     |     |     |     |     |      |      |     |      |     |     |     |
| <b>Carex schweinitzii</b>               |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                              |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                               |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                |     |     |     |     |     |      |      |     |      |     |     |     |
| <b>Carex scirpoidea ssp. scirpoidea</b> |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                              |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                               |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                |     |     |     |     |     |      |      |     |      |     |     |     |
| <b>Carex shortiana</b>                  |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                              |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                               |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                |     |     |     |     |     |      |      |     |      |     |     |     |
| <b>Carex straminea</b>                  |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                              |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                               |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                |     |     |     |     |     |      |      |     |      |     |     |     |



## 2010 Rare Plant Status List - Phenology

|                                 | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|---------------------------------|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <i>Carex striatula</i>          |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                      |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                        |     |     |     |     |     | ■    | ■    |     |      |     |     |     |
| <i>Carex styloflexa</i>         |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                      |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                        |     |     |     |     |     | ■    | ■    |     |      |     |     |     |
| <i>Carex sychnocephala</i>      |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                      |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                        |     |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
| <i>Carex tenuiflora</i>         |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                      |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                        |     |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
| <i>Carex tincta</i>             |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                      |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                        |     |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
| <i>Carex typhina</i>            |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                      |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                        |     |     |     |     |     |      | ■    | ■   | ■    | ■   |     |     |
| <i>Carex vaginata</i>           |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                      |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                        |     |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
| <i>Carex venusta</i>            |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                      |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                        |     |     |     |     |     |      | ■    | ■   |      |     |     |     |
| <i>Carex wiegandii</i>          |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                      |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                        |     |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
| <i>Carya laciniosa</i>          |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                      |     |     |     |     |     | ■    | ■    | ■   | ■    | ■   |     |     |
| Flowering                       |     |     |     |     |     | ■    | ■    | ■   | ■    | ■   |     |     |
| Fruiting                        |     |     |     |     | ■   | ■    | ■    | ■   | ■    | ■   | ■   |     |
| <i>Castilleja coccinea</i>      |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                      |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                       |     |     |     |     |     | ■    | ■    | ■   | ■    |     |     |     |
| Fruiting                        |     |     |     |     |     |      |      | ■   | ■    |     |     |     |
| <i>Ceanothus herbaceus</i>      |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                      |     |     | ■   | ■   | ■   | ■    | ■    | ■   | ■    | ■   | ■   | ■   |
| Flowering                       |     |     |     |     |     | ■    | ■    | ■   | ■    |     |     |     |
| Fruiting                        |     |     |     |     |     | ■    | ■    | ■   | ■    | ■   |     |     |
| <i>Cenchrus tribuloides</i>     |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                      |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                        |     |     |     |     |     |      | ■    | ■   | ■    | ■   |     |     |
| <i>Chaerophyllum procumbens</i> |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                      |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                       |     |     |     |     |     | ■    | ■    |     |      |     |     |     |
| Fruiting                        |     |     |     |     |     |      | ■    | ■   |      |     |     |     |



## 2010 Rare Plant Status List - Phenology

|   |            | Jan                                 | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|---|------------|-------------------------------------|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <b><i>Chamaecyparis thyoides</i></b>                            | Vegetative | [Shaded bar from Jan to Dec]        |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  | [Empty]                             |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   | [Solid black bar from Jan to Dec]   |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Chamaelirium luteum</i></b>                               | Vegetative | [Empty]                             |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  | [Shaded bar from Apr to Nov]        |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   | [Solid black bar from May to Oct]   |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Chasmanthium laxum</i></b>                                | Vegetative | [Empty]                             |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  | [Shaded bar from Aug to Sept]       |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   | [Solid black bar from Sept to Oct]  |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Cheilanthes lanosa</i></b>                                | Vegetative | [Empty]                             |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  | [Shaded bar from May to Oct]        |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   | [Solid black bar from July to Oct]  |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Chenopodium berlandieri</i> var. <i>macrocalyrium</i></b> | Vegetative | [Empty]                             |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  | [Shaded bar from July to Aug]       |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   | [Solid black bar from Sept to Oct]  |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Chenopodium rubrum</i></b>                                | Vegetative | [Empty]                             |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  | [Shaded bar from July to Sept]      |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   | [Solid black bar from Aug to Oct]   |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Chenopodium standleyanum</i></b>                          | Vegetative | [Empty]                             |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  | [Shaded bar from June to Sept]      |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   | [Solid black bar from Sept to Oct]  |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Cirsium altissimum</i></b>                                | Vegetative | [Empty]                             |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  | [Shaded bar from July to Sept]      |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   | [Solid black bar from Sept to Oct]  |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Clematis ochroleuca</i></b>                               | Vegetative | [Empty]                             |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  | [Shaded bar from May to July]       |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   | [Solid black bar from July to Sept] |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Collinsia verna</i></b>                                   | Vegetative | [Empty]                             |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  | [Shaded bar from Apr to May]        |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   | [Empty]                             |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Commelina erecta</i> var. <i>erecta</i></b>               | Vegetative | [Empty]                             |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  | [Shaded bar from July to Aug]       |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   | [Solid black bar from Aug to Sept]  |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Corallorhiza striata</i> var. <i>striata</i></b>          | Vegetative | [Empty]                             |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  | [Shaded bar from May to Aug]        |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   | [Solid black bar from June to Sept] |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Corema conradii</i></b>                                   | Vegetative | [Shaded bar from Mar to Nov]        |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  | [Shaded bar from Apr to May]        |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   | [Solid black bar from May to July]  |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Coreopsis rosea</i></b>                                   | Vegetative | [Empty]                             |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  | [Shaded bar from May to Oct]        |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   | [Solid black bar from July to Oct]  |     |     |     |     |      |      |     |      |     |     |     |



## 2010 Rare Plant Status List - Phenology

|  | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|--|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <b><i>Cornus drummondii</i></b>                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Corydalis aurea</i></b>                      |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Crassula aquatica</i></b>                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Crataegus berberifolia</i></b>               |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Crataegus mollis</i></b>                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Crataegus uniflora</i></b>                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Crocanthemum dumosum</i></b>                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Crocanthemum propinquum</i></b>              |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Crotalaria sagittalis</i></b>                |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Cuscuta campestris</i></b>                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Cuscuta cephalanthi</i></b>                  |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Cuscuta obtusiflora var. glandulosa</i></b>  |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Cuscuta polygonorum</i></b>                  |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Cynoglossum virginianum var. boreale</i></b> |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |



## 2010 Rare Plant Status List - Phenology

|   | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|---|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <b><i>Cynoglossum virginianum</i> var. <i>virginianum</i></b> |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Cyperus echinatus</i></b>                               |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Cyperus flavescens</i></b>                              |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Cyperus lupulinus</i> ssp. <i>lupulinus</i></b>         |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Cyperus plukenetii</i></b>                              |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Cyperus polystachyos</i> var. <i>texensis</i></b>       |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Cyperus retrorsus</i> var. <i>retrorsus</i></b>         |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Cypripedium arietinum</i></b>                           |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Cypripedium candidum</i></b>                            |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Cypripedium parviflorum</i> var. <i>parviflorum</i></b> |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Cystopteris protrusa</i></b>                            |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Descurainia pinnata</i> ssp. <i>brachycarpa</i></b>     |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Desmodium ciliare</i></b>                               |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Desmodium humifusum</i></b>                             |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |



## 2010 Rare Plant Status List - Phenology

|  | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|--|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <b><i>Desmodium laevigatum</i></b>                         |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      | ■    | ■   | ■    | ■   |     |     |
| Flowering  |     |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
| Fruiting   |     |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| <b><i>Desmodium nuttallii</i></b>                          |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      | ■    | ■   | ■    | ■   |     |     |
| Flowering  |     |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
| Fruiting   |     |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| <b><i>Desmodium obtusum</i></b>                            |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      | ■    | ■   | ■    | ■   |     |     |
| Flowering  |     |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
| Fruiting   |     |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| <b><i>Desmodium pauciflorum</i></b>                        |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      | ■    | ■   | ■    | ■   |     |     |
| Flowering  |     |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
| Fruiting   |     |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| <b><i>Diapensia lapponica var. lapponica</i></b>           |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     | ■    | ■    | ■   | ■    | ■   |     |     |
| Flowering  |     |     |     |     | ■   | ■    | ■    | ■   | ■    |     |     |     |
| Fruiting   |     |     |     |     |     | ■    | ■    | ■   | ■    | ■   |     |     |
| <b><i>Diarrhena obovata</i></b>                            |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
| Fruiting   |     |     |     |     |     |      |      | ■   | ■    | ■   | ■   |     |
| <b><i>Dichantherium leibergii</i></b>                      |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     | ■    | ■    | ■   | ■    | ■   |     |     |
| <b><i>Dichantherium oligosanthes var. oligosanthes</i></b> |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      | ■    | ■   | ■    | ■   | ■   |     |
| <b><i>Dichantherium scabriusculum</i></b>                  |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      | ■    | ■   | ■    | ■   |     |     |
| <b><i>Dichantherium scoparium</i></b>                      |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      | ■    | ■   | ■    | ■   |     |     |
| <b><i>Dichantherium wrightianum</i></b>                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      | ■    | ■   | ■    | ■   |     |     |
| <b><i>Digitaria filiformis</i></b>                         |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| <b><i>Diospyros virginiana</i></b>                         |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   | ■   | ■   | ■   | ■   | ■   | ■    | ■    | ■   | ■    | ■   | ■   | ■   |
| Flowering  |     |     |     |     |     | ■    | ■    | ■   | ■    | ■   | ■   | ■   |
| Fruiting   |     |     |     |     |     | ■    | ■    | ■   | ■    | ■   | ■   | ■   |
| <b><i>Diphasiastrum complanatum</i></b>                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     | ■   | ■   | ■    | ■    | ■   | ■    | ■   | ■   | ■   |
| Flowering  |     |     |     | ■   | ■   | ■    | ■    | ■   | ■    | ■   | ■   | ■   |
| Fruiting   |     |     |     |     |     | ■    | ■    | ■   | ■    | ■   |     |     |





## 2010 Rare Plant Status List - Phenology

|                                  | Jan        | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |  |  |
|----------------------------------|------------|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|--|--|
| <i>Diphysastrum sitchense</i>    | Vegetative |     |     |     | █   |      |      |     |      |     |     |     |  |  |
|                                  | Flowering  |     |     |     |     |      |      |     |      |     |     |     |  |  |
|                                  | Fruiting   |     |     |     |     | █    |      |     |      |     |     |     |  |  |
| <i>Dodecatheon meadia</i>        | Vegetative |     |     |     |     |      |      |     |      |     |     |     |  |  |
|                                  | Flowering  |     |     |     |     | █    |      |     |      |     |     |     |  |  |
|                                  | Fruiting   |     |     |     |     |      | █    |     |      |     |     |     |  |  |
| <i>Draba arabisans</i>           | Vegetative |     |     |     |     |      |      |     |      |     |     |     |  |  |
|                                  | Flowering  |     |     |     |     | █    |      |     |      |     |     |     |  |  |
|                                  | Fruiting   |     |     |     |     |      | █    |     |      |     |     |     |  |  |
| <i>Draba glabella</i>            | Vegetative |     |     |     |     |      |      |     |      |     |     |     |  |  |
|                                  | Flowering  |     |     |     |     | █    |      |     |      |     |     |     |  |  |
|                                  | Fruiting   |     |     |     |     |      | █    |     |      |     |     |     |  |  |
| <i>Draba reptans</i>             | Vegetative |     |     |     |     |      |      |     |      |     |     |     |  |  |
|                                  | Flowering  |     |     |     | █   |      |      |     |      |     |     |     |  |  |
|                                  | Fruiting   |     |     |     |     | █    |      |     |      |     |     |     |  |  |
| <i>Dracocephalum parviflorum</i> | Vegetative |     |     |     |     |      |      |     |      |     |     |     |  |  |
|                                  | Flowering  |     |     |     |     |      | █    |     |      |     |     |     |  |  |
|                                  | Fruiting   |     |     |     |     |      |      | █   |      |     |     |     |  |  |
| <i>Dryopteris celsa</i>          | Vegetative |     |     |     | █   |      |      |     |      |     |     |     |  |  |
|                                  | Flowering  |     |     |     |     |      |      |     |      |     |     |     |  |  |
|                                  | Fruiting   |     |     |     |     |      |      | █   |      |     |     |     |  |  |
| <i>Dryopteris fragrans</i>       | Vegetative |     |     |     | █   |      |      |     |      |     |     |     |  |  |
|                                  | Flowering  |     |     |     |     |      |      |     |      |     |     |     |  |  |
|                                  | Fruiting   |     |     |     |     |      | █    |     |      |     |     |     |  |  |
| <i>Echinodorus tenellus</i>      | Vegetative |     |     |     |     |      |      |     |      |     |     |     |  |  |
|                                  | Flowering  |     |     |     |     |      | █    |     |      |     |     |     |  |  |
|                                  | Fruiting   |     |     |     |     |      |      | █   |      |     |     |     |  |  |
| <i>Eclipta prostrata</i>         | Vegetative |     |     |     |     |      | █    |     |      |     |     |     |  |  |
|                                  | Flowering  |     |     |     |     |      | █    |     |      |     |     |     |  |  |
|                                  | Fruiting   |     |     |     |     |      |      | █   |      |     |     |     |  |  |
| <i>Elatine americana</i>         | Vegetative |     |     |     |     |      |      |     |      |     |     |     |  |  |
|                                  | Flowering  |     |     |     |     |      | █    |     |      |     |     |     |  |  |
|                                  | Fruiting   |     |     |     |     |      |      | █   |      |     |     |     |  |  |
| <i>Eleocharis aestuum</i>        | Vegetative |     |     |     |     |      |      |     |      |     |     |     |  |  |
|                                  | Flowering  |     |     |     |     |      |      |     |      |     |     |     |  |  |
|                                  | Fruiting   |     |     |     |     |      |      | █   |      |     |     |     |  |  |
| <i>Eleocharis diandra</i>        | Vegetative |     |     |     |     |      |      |     |      |     |     |     |  |  |
|                                  | Flowering  |     |     |     |     |      |      |     |      |     |     |     |  |  |
|                                  | Fruiting   |     |     |     |     |      |      | █   |      |     |     |     |  |  |
| <i>Eleocharis engelmannii</i>    | Vegetative |     |     |     |     |      |      |     |      |     |     |     |  |  |
|                                  | Flowering  |     |     |     |     |      |      |     |      |     |     |     |  |  |
|                                  | Fruiting   |     |     |     |     |      |      | █   |      |     |     |     |  |  |



## 2010 Rare Plant Status List - Phenology

|  |            | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|--|------------|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <i>Eleocharis equisetoides</i>             | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Eleocharis fallax</i>                   | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Eleocharis ovata</i>                    | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Eleocharis quadrangulata</i>            | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Eleocharis tenuis var. pseudoptera</i>  | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Eleocharis tortilis</i>                 | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Eleocharis tricostata</i>               | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Eleocharis tuberculosa</i>              | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Eleocharis uniglumis var. halophila</i> | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Ellisia nyctelea</i>                    | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Elymus glaucus ssp. glaucus</i>         | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Empetrum atropurpureum</i>              | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Empetrum nigrum</i>                     | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Endodeca serpentaria</i>                | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |



## 2010 Rare Plant Status List - Phenology

|  | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|--|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <b><i>Enemion biternatum</i></b>                                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     | ■   | ■    |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     | ■    |      |     |      |     |     |     |
| <b><i>Epilobium hornemannii</i> ssp. <i>hornemannii</i></b>      |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     | ■    | ■    | ■   | ■    |     |     |     |
| Fruiting   |     |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| <b><i>Equisetum laevigatum</i></b>                               |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     | ■   | ■    | ■    | ■   | ■    |     |     |     |
| Fruiting   |     |     |     |     |     | ■    | ■    | ■   |      |     |     |     |
| <b><i>Equisetum palustre</i></b>                                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     | ■   | ■    | ■    | ■   | ■    |     |     |     |
| Fruiting   |     |     |     |     |     | ■    | ■    | ■   |      |     |     |     |
| <b><i>Equisetum pratense</i></b>                                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     | ■   | ■    | ■    | ■   | ■    |     |     |     |
| Fruiting   |     |     |     |     |     | ■    | ■    | ■   |      |     |     |     |
| <b><i>Erechtites hieraciifolius</i> var. <i>megalocarpus</i></b> |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     | ■    | ■   |     |     |
| <b><i>Eriogenia bulbosa</i></b>                                  |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     | ■   | ■   | ■    |      |     |      |     |     |     |
| Fruiting   |     |     |     |     | ■   | ■    | ■    |     |      |     |     |     |
| <b><i>Erigeron hyssopifolius</i></b>                             |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
| Fruiting   |     |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| <b><i>Erigeron philadelphicus</i> var. <i>provancheri</i></b>    |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     | ■    | ■    | ■   |      |     |     |     |
| Fruiting   |     |     |     |     |     |      | ■    | ■   |      |     |     |     |
| <b><i>Eriocaulon parkeri</i></b>                                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
| Fruiting   |     |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| <b><i>Eriophorum angustifolium</i> ssp. <i>angustifolium</i></b> |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     | ■   | ■    | ■    | ■   | ■    |     |     |     |
| Fruiting   |     |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
| <b><i>Eryngium aquaticum</i></b>                                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     | ■    | ■   | ■   |     |
| <b><i>Euonymus americanus</i></b>                                |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     | ■   | ■   | ■    | ■    | ■   | ■    | ■   | ■   |     |
| Flowering  |     |     |     |     | ■   | ■    | ■    | ■   | ■    | ■   |     |     |
| Fruiting   |     |     |     |     |     |      | ■    | ■   | ■    | ■   | ■   |     |
| <b><i>Eupatorium album</i> var. <i>album</i></b>                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     | ■    | ■    | ■   | ■    |     |     |     |
| Fruiting   |     |     |     |     |     |      |      | ■   | ■    | ■   |     |     |



## 2010 Rare Plant Status List - Phenology

|  | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|--|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <b><i>Eupatorium album</i> var. <i>subvenosum</i></b>      |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     | ■    | ■    | ■   | ■    | ■   |     |     |
| Flowering  |     |     |     |     |     | ■    | ■    | ■   | ■    |     |     |     |
| Fruiting   |     |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| <b><i>Eupatorium leucolepis</i> var. <i>leucolepis</i></b> |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     | ■    | ■    | ■   | ■    | ■   |     |     |
| Flowering  |     |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      | ■   | ■   |     |
| <b><i>Eupatorium pubescens</i></b>                         |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     | ■    | ■   |     |     |
| <b><i>Eupatorium resinosum</i></b>                         |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      | ■   | ■   |     |
| <b><i>Eupatorium rotundifolium</i></b>                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     | ■    | ■   |     |     |
| <b><i>Eupatorium serotinum</i></b>                         |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     | ■    | ■   |     |     |
| <b><i>Eupatorium torreyanum</i></b>                        |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     | ■    | ■    | ■   | ■    | ■   |     |     |
| Flowering  |     |     |     |     |     | ■    | ■    | ■   | ■    | ■   |     |     |
| Fruiting   |     |     |     |     |     |      |      |     | ■    | ■   | ■   |     |
| <b><i>Euphorbia ipecacuanhae</i></b>                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     | ■   |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     | ■    | ■    | ■   |      |     |     |     |
| <b><i>Eurybia radula</i></b>                               |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      | ■    | ■   | ■    | ■   |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      | ■   | ■   |     |
| <b><i>Eurybia spectabilis</i></b>                          |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      | ■    | ■   | ■    | ■   |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      | ■   | ■   |     |
| <b><i>Festuca saximontana</i> var. <i>saximontana</i></b>  |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     | ■    |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     | ■    | ■    |     |      |     |     |     |
| <b><i>Fimbristylis caroliniana</i></b>                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     | ■    | ■    | ■   | ■    | ■   |     |     |
| Fruiting   |     |     |     |     |     |      |      | ■   | ■    | ■   | ■   |     |
| <b><i>Fimbristylis castanea</i></b>                        |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     | ■    | ■    | ■   | ■    | ■   |     |     |
| Fruiting   |     |     |     |     |     |      |      | ■   | ■    | ■   | ■   |     |
| <b><i>Fimbristylis puberula</i> var. <i>puberula</i></b>   |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     | ■    | ■    | ■   | ■    | ■   |     |     |
| Fruiting   |     |     |     |     |     |      |      | ■   | ■    | ■   | ■   |     |



## 2010 Rare Plant Status List - Phenology

|  |            | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|--|------------|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <i>Frasera caroliniensis</i>               | Vegetative |     |     |     |     |     | ■    | ■    | ■   | ■    | ■   |     |     |
|  | Flowering  |     |     |     |     |     | ■    | ■    | ■   | ■    |     |     |     |
|  | Fruiting   |     |     |     |     |     | ■    | ■    | ■   | ■    | ■   |     |     |
| <i>Galactia volubilis</i>                  | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
|  | Fruiting   |     |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
| <i>Galium concinnum</i>                    | Vegetative |     |     |     |     |     | ■    | ■    | ■   | ■    |     |     |     |
|  | Flowering  |     |     |     |     |     | ■    | ■    | ■   | ■    |     |     |     |
|  | Fruiting   |     |     |     |     |     | ■    | ■    | ■   | ■    |     |     |     |
| <i>Galium kamtschaticum</i>                | Vegetative |     |     |     |     |     | ■    | ■    | ■   | ■    |     |     |     |
|  | Flowering  |     |     |     |     |     | ■    | ■    | ■   | ■    |     |     |     |
|  | Fruiting   |     |     |     |     |     | ■    | ■    | ■   | ■    |     |     |     |
| <i>Gamochaeta purpurea</i>                 | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
|  | Fruiting   |     |     |     |     |     |      | ■    | ■   | ■    | ■   |     |     |
| <i>Gaylussacia bigeloviana</i>             | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |     | ■    | ■    | ■   | ■    |     |     |     |
|  | Fruiting   |     |     |     |     |     | ■    | ■    | ■   | ■    |     |     |     |
| <i>Gentiana puberulenta</i>                | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |     |      |      |     | ■    | ■   |     |     |
|  | Fruiting   |     |     |     |     |     |      |      |     | ■    | ■   | ■   |     |
| <i>Gentiana saponaria</i>                  | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |     |      |      |     | ■    | ■   |     |     |
|  | Fruiting   |     |     |     |     |     |      |      |     | ■    | ■   | ■   |     |
| <i>Gentianopsis virgata</i>                | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
|  | Fruiting   |     |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| <i>Geocaulon lividum</i>                   | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |     | ■    | ■    | ■   | ■    |     |     |     |
|  | Fruiting   |     |     |     |     |     | ■    | ■    | ■   | ■    |     |     |     |
| <i>Geum macrophyllum var. macrophyllum</i> | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     | ■   | ■    | ■    | ■   | ■    |     |     |     |
|  | Fruiting   |     |     |     |     | ■   | ■    | ■    | ■   | ■    |     |     |     |
| <i>Geum triflorum var. triflorum</i>       | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     | ■   | ■    | ■    | ■   |      |     |     |     |
|  | Fruiting   |     |     |     |     | ■   | ■    | ■    | ■   |      |     |     |     |
| <i>Geum vernum</i>                         | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     | ■   | ■    | ■    | ■   |      |     |     |     |
|  | Fruiting   |     |     |     |     | ■   | ■    | ■    | ■   |      |     |     |     |
| <i>Geum virginianum</i>                    | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |     | ■    | ■    | ■   | ■    |     |     |     |
|  | Fruiting   |     |     |     |     |     | ■    | ■    | ■   | ■    |     |     |     |



## 2010 Rare Plant Status List - Phenology

|  | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|--|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <b><i>Glycyrrhiza lepidota</i></b>             |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                      |     |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
| Fruiting                                       |     |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| <b><i>Gymnocladus dioicus</i></b>              |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                     | ■   | ■   | ■   | ■   | ■   | ■    | ■    | ■   | ■    | ■   | ■   | ■   |
| Flowering                                      |     |     |     |     | ■   | ■    | ■    | ■   | ■    | ■   | ■   | ■   |
| Fruiting                                       |     |     |     |     |     | ■    | ■    | ■   | ■    | ■   | ■   | ■   |
| <b><i>Hackelia deflexa var. americana</i></b>  |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                      |     |     |     |     |     | ■    |      |     |      |     |     |     |
| Fruiting                                       |     |     |     |     |     |      | ■    | ■   | ■    | ■   |     |     |
| <b><i>Halenia deflexa</i></b>                  |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                      |     |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
| Fruiting                                       |     |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| <b><i>Harrimanella hypnoides</i></b>           |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                      |     |     |     |     |     | ■    | ■    | ■   | ■    |     |     |     |
| Fruiting                                       |     |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| <b><i>Hasteola suaveolens</i></b>              |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                      |     |     |     |     |     |      | ■    | ■   |      |     |     |     |
| Fruiting                                       |     |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| <b><i>Hedeoma hispida</i></b>                  |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                      |     |     |     |     |     | ■    | ■    | ■   | ■    |     |     |     |
| Fruiting                                       |     |     |     |     |     |      | ■    | ■   | ■    | ■   |     |     |
| <b><i>Helianthus angustifolius</i></b>         |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                      |     |     |     |     |     |      | ■    | ■   | ■    | ■   |     |     |
| Fruiting                                       |     |     |     |     |     |      |      | ■   | ■    | ■   | ■   |     |
| <b><i>Helonias bullata</i></b>                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                     |     |     | ■   | ■   | ■   | ■    | ■    | ■   | ■    | ■   | ■   | ■   |
| Flowering                                      |     |     |     | ■   | ■   | ■    | ■    | ■   | ■    | ■   | ■   | ■   |
| Fruiting                                       |     |     |     |     |     | ■    | ■    | ■   | ■    | ■   | ■   | ■   |
| <b><i>Hippuris vulgaris</i></b>                |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                      |     |     |     |     |     |      | ■    | ■   | ■    | ■   |     |     |
| Fruiting                                       |     |     |     |     |     |      |      | ■   | ■    | ■   | ■   |     |
| <b><i>Hottonia inflata</i></b>                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                     |     |     |     | ■   | ■   | ■    | ■    | ■   | ■    | ■   | ■   | ■   |
| Flowering                                      |     |     |     |     | ■   | ■    | ■    | ■   | ■    | ■   | ■   | ■   |
| Fruiting                                       |     |     |     |     |     | ■    | ■    | ■   | ■    | ■   | ■   | ■   |
| <b><i>Houstonia purpurea var. calycosa</i></b> |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                      |     |     |     |     |     | ■    | ■    | ■   | ■    |     |     |     |
| Fruiting                                       |     |     |     |     |     |      |      | ■   | ■    | ■   | ■   |     |
| <b><i>Houstonia purpurea var. purpurea</i></b> |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                      |     |     |     |     |     | ■    | ■    | ■   | ■    | ■   |     |     |
| Fruiting                                       |     |     |     |     |     |      |      | ■   | ■    | ■   | ■   |     |
| <b><i>Huperzia selago</i></b>                  |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                     |     |     |     |     | ■   | ■    | ■    | ■   | ■    | ■   | ■   | ■   |
| Flowering                                      |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                       |     |     |     |     |     |      | ■    | ■   | ■    | ■   |     |     |



## 2010 Rare Plant Status List - Phenology

|   | Jan        | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|---|------------|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <i>Hydrangea arborescens</i>                  | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Hydrastis canadensis</i>                   | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Hydrocotyle ranunculoides</i>              | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Hydrocotyle verticillata</i>               | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Hydrophyllum appendiculatum</i>            | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Hylotelephium telephioides</i>             | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Hypericum adpressum</i>                    | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Hypericum densiflorum</i>                  | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Hypericum denticulatum</i>                 | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Hypericum gymnanthum</i>                   | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Hypericum hypericoides ssp. multicaule</i> | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Hypericum kalmianum</i>                    | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Hypericum prolificum</i>                   | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Ipomoea pandurata</i>                      | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |



## 2010 Rare Plant Status List - Phenology

|  | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|--|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <b><i>Iris prismatica</i></b>                |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Iris virginica var. shrevei</i></b>    |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Isoetes riparia</i></b>                |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Isoetria medeoloides</i></b>           |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Jeffersonia diphylla</i></b>           |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Juncus ambiguus</i></b>                |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Juncus biflorus</i></b>                |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Juncus brachycarpus</i></b>            |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Juncus debilis</i></b>                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Juncus diffusissimus</i></b>           |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Juncus ensifolius</i></b>              |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Juncus scirpoides</i></b>              |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Juncus stygius ssp. americanus</i></b> |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Juncus subcaudatus</i></b>             |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                     |     |     |     |     |     |      |      |     |      |     |     |     |





## 2010 Rare Plant Status List - Phenology

|   | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|---|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <i>Juncus trifidus</i>                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                  |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Juniperus horizontalis</i>             |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                  |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Kalmia procumbens</i>                  |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                  |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Kosteletzkya virginica</i>             |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                  |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Lachnanthes caroliniana</i>            |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                  |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Lactuca floridana</i>                  |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                  |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Lactuca hirsuta</i>                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                  |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Lathyrus venosus</i>                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                  |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Lechea pulchella var. moniliformis</i> |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                  |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Lechea tenuifolia</i>                  |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                  |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Lemna perpusilla</i>                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                  |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Lemna valdiviana</i>                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                  |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Leptochloa fusca ssp. fascicularis</i> |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                  |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Lespedeza angustifolia</i>             |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                  |     |     |     |     |     |      |      |     |      |     |     |     |



## 2010 Rare Plant Status List - Phenology

|  | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|--|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <i>Lespedeza stuevei</i>                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                  |     |     |     |     |     |      |      | █   | █    | █   |     |     |
| Fruiting                                   |     |     |     |     |     |      |      |     | █    | █   | █   |     |
| <i>Liatris cylindracea</i>                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                  |     |     |     |     |     |      | █    | █   | █    |     |     |     |
| Fruiting                                   |     |     |     |     |     |      |      | █   | █    |     |     |     |
| <i>Liatris scariosa var. nieuwlandii</i>   |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                  |     |     |     |     |     |      |      | █   | █    | █   |     |     |
| Fruiting                                   |     |     |     |     |     |      |      |     | █    | █   | █   |     |
| <i>Liatris scariosa var. novae-angliae</i> |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                  |     |     |     |     |     |      |      | █   | █    | █   |     |     |
| Fruiting                                   |     |     |     |     |     |      |      |     | █    | █   | █   |     |
| <i>Ligusticum scothicum ssp. scothicum</i> |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                 |     |     |     |     | █   | █    | █    | █   | █    | █   | █   | █   |
| Flowering                                  |     |     |     |     |     |      | █    | █   | █    | █   | █   |     |
| Fruiting                                   |     |     |     |     |     |      |      |     | █    | █   | █   | █   |
| <i>Lilaeopsis chinensis</i>                |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                 |     |     |     |     | █   | █    | █    | █   | █    | █   | █   |     |
| Flowering                                  |     |     |     |     |     | █    | █    | █   | █    | █   | █   |     |
| Fruiting                                   |     |     |     |     |     |      | █    | █   | █    | █   | █   |     |
| <i>Lilium michiganense</i>                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                  |     |     |     |     |     | █    | █    | █   |      |     |     |     |
| Fruiting                                   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Linum intercursum</i>                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                  |     |     |     |     |     |      | █    | █   | █    | █   | █   |     |
| Fruiting                                   |     |     |     |     |     |      |      | █   | █    | █   | █   | █   |
| <i>Linum medium var. texanum</i>           |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                  |     |     |     |     |     |      | █    | █   | █    | █   | █   |     |
| Fruiting                                   |     |     |     |     |     |      |      | █   | █    | █   | █   | █   |
| <i>Linum sulcatum</i>                      |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                  |     |     |     |     |     | █    | █    | █   | █    | █   | █   |     |
| Fruiting                                   |     |     |     |     |     |      |      | █   | █    | █   | █   | █   |
| <i>Liparis liliifolia</i>                  |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                  |     |     |     |     |     | █    | █    | █   | █    | █   | █   |     |
| Fruiting                                   |     |     |     |     |     |      | █    | █   | █    | █   | █   |     |
| <i>Lipocarpa micrantha</i>                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                                   |     |     |     |     |     |      |      | █   | █    | █   |     |     |
| <i>Listera auriculata</i>                  |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                  |     |     |     |     |     | █    | █    | █   | █    | █   | █   |     |
| Fruiting                                   |     |     |     |     |     |      | █    | █   | █    | █   | █   |     |
| <i>Listera australis</i>                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                  |     |     |     |     | █   | █    | █    | █   | █    | █   | █   |     |
| Fruiting                                   |     |     |     |     |     |      | █    | █   | █    | █   | █   |     |



## 2010 Rare Plant Status List - Phenology

|  | Jan        | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|--|------------|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <i>Listera convallarioides</i>                       | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Lithospermum canescens</i>                        | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Lithospermum caroliniense</i> var. <i>croceum</i> | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Littorella uniflora</i>                           | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Ludwigia sphaerocarpa</i>                         | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Luzula spicata</i>                                | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Lycopus amplexans</i>                             | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Lycopus rubellus</i>                              | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Lygodium palmatum</i>                             | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Lysimachia hybrida</i>                            | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Lysimachia quadriflora</i>                        | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Lythrum lineare</i>                               | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Magnolia virginiana</i>                           | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Malaxis bayardii</i>                              | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |



## 2010 Rare Plant Status List - Phenology

|   |            | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|---|------------|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <i>Melanthium latifolium</i>                | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |     |      | ■    | ■   |      |     |     |     |
|   | Fruiting   |     |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| <i>Melanthium virginicum</i>                | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |     |      | ■    | ■   |      |     |     |     |
|   | Fruiting   |     |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| <i>Micranthemum micranthemoides</i>         | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |     |      |      |     | ■    | ■   |     |     |
|   | Fruiting   |     |     |     |     |     |      |      |     |      | ■   | ■   |     |
| <i>Monarda clinopodia</i>                   | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
|   | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Muhlenbergia capillaris</i>              | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |     |      |      |     | ■    | ■   |     |     |
| <i>Myriophyllum alterniflorum</i>           | Vegetative |     |     |     |     |     |      | ■    | ■   | ■    | ■   |     |     |
|   | Flowering  |     |     |     |     |     |      |      | ■   | ■    |     |     |     |
|   | Fruiting   |     |     |     |     |     |      |      |     | ■    | ■   | ■   |     |
| <i>Myriophyllum farwellii</i>               | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |     | ■    | ■    | ■   |      |     |     |     |
|   | Fruiting   |     |     |     |     |     |      | ■    | ■   | ■    | ■   |     |     |
| <i>Myriophyllum pinnatum</i>                | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |     | ■    | ■    | ■   |      |     |     |     |
|   | Fruiting   |     |     |     |     |     |      | ■    | ■   | ■    | ■   |     |     |
| <i>Najas guadalupensis ssp. muenschleri</i> | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |     |      |      |     | ■    | ■   |     |     |
| <i>Najas guadalupensis ssp. olivacea</i>    | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |     |      |      |     | ■    | ■   |     |     |
| <i>Najas marina</i>                         | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |     |      |      |     | ■    | ■   |     |     |
| <i>Oenothera laciniata</i>                  | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |     | ■    | ■    | ■   | ■    |     |     |     |
|   | Fruiting   |     |     |     |     |     |      | ■    | ■   | ■    | ■   |     |     |
| <i>Oenothera oakesiana</i>                  | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |     |      |      | ■   | ■    |     |     |     |
|   | Fruiting   |     |     |     |     |     |      |      |     | ■    | ■   | ■   |     |
| <i>Oldenlandia uniflora</i>                 | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
|   | Fruiting   |     |     |     |     |     |      |      |     | ■    | ■   | ■   |     |



## 2010 Rare Plant Status List - Phenology

|   | Jan        | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|---|------------|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <i>Oligoneuron houghtonii</i>           | Vegetative |     |     |     |     |      | ■    | ■   | ■    | ■   |     |     |
|   | Flowering  |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
|   | Fruiting   |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| <i>Oligoneuron ohioense</i>             | Vegetative |     |     |     |     |      | ■    | ■   | ■    | ■   |     |     |
|   | Flowering  |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
|   | Fruiting   |     |     |     |     |      |      |     | ■    | ■   | ■   |     |
| <i>Oligoneuron rigidum var. rigidum</i> | Vegetative |     |     |     |     |      | ■    | ■   | ■    | ■   |     |     |
|   | Flowering  |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
|   | Fruiting   |     |     |     |     |      |      |     | ■    | ■   | ■   |     |
| <i>Omalotheca sylvatica</i>             | Vegetative |     |     |     |     |      | ■    | ■   | ■    | ■   |     |     |
|   | Flowering  |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
|   | Fruiting   |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| <i>Onosmodium virginianum</i>           | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     | ■    | ■    |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      | ■   | ■    | ■   | ■   |     |
| <i>Orontium aquaticum</i>               | Vegetative |     |     |     |     |      | ■    | ■   | ■    | ■   |     |     |
|   | Flowering  |     |     |     | ■   | ■    | ■    | ■   | ■    |     |     |     |
|   | Fruiting   |     |     |     |     |      | ■    | ■   | ■    | ■   |     |     |
| <i>Oxalis violacea</i>                  | Vegetative |     |     |     |     | ■    | ■    | ■   |      |     |     |     |
|   | Flowering  |     |     |     | ■   | ■    | ■    |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      | ■    |     |      |     |     |     |
| <i>Oxypolis rigidior</i>                | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      | ■   | ■    |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     | ■    | ■   |     |     |
| <i>Panicum anceps</i>                   | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| <i>Panicum rigidulum var. elongatum</i> | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| <i>Paspalum laeve</i>                   | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      | ■   | ■    | ■   | ■   |     |
| <i>Pedicularis lanceolata</i>           | Vegetative |     |     |     |     |      | ■    | ■   | ■    | ■   |     |     |
|   | Flowering  |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
|   | Fruiting   |     |     |     |     |      |      |     | ■    | ■   | ■   | ■   |
| <i>Pellaea glabella ssp. glabella</i>   | Vegetative |     |     |     |     | ■    | ■    | ■   | ■    | ■   |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      | ■    | ■   | ■    | ■   |     |     |
| <i>Persicaria careyi</i>                | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
|   | Fruiting   |     |     |     |     |      |      |     | ■    | ■   | ■   |     |



## 2010 Rare Plant Status List - Phenology

|  |            | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|--|------------|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <i>Persicaria setacea</i>                  | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Petasites frigidus var. palmatus</i>    | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Phacelia dubia var. dubia</i>           | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Phlox maculata ssp. maculata</i>        | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Phlox pilosa ssp. pilosa</i>            | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Physalis virginiana var. virginiana</i> | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Pinguicula vulgaris</i>                 | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Pinus echinata</i>                      | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Pinus virginiana</i>                    | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Piptatherum canadense</i>               | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Plantago cordata</i>                    | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Plantago maritima var. juncooides</i>   | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Platanthera ciliaris</i>                | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Platanthera cristata</i>                | Vegetative |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |



## 2010 Rare Plant Status List - Phenology

|                                  | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|----------------------------------|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <i>Platanthera hookeri</i>       |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                        |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                         |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Platanthera leucophaea</i>    |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                        |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                         |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Poa cuspidata</i>             |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                        |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                         |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Poa glauca ssp. glauca</i>    |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                        |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                         |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Poa interior</i>              |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                        |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                         |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Poa laxa ssp. fernaldiana</i> |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                        |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                         |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Poa paludigena</i>            |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                        |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                         |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Poa sylvestris</i>            |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                        |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                         |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Podostemum ceratophyllum</i>  |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                        |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                         |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Polemonium vanbruntiae</i>    |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                        |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                         |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Polygala incarnata</i>        |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                        |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                         |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Polygala lutea</i>            |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                        |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                         |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Polygala mariana</i>          |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                        |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                         |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Polygala nuttallii</i>        |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                        |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                         |     |     |     |     |     |      |      |     |      |     |     |     |



## 2010 Rare Plant Status List - Phenology

|  | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|--|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <b><i>Polygonum aviculare ssp. buxiforme</i></b> |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Polygonum douglasii</i></b>                |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Polygonum glaucum</i></b>                  |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Polystichum lonchitis</i></b>              |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Populus heterophylla</i></b>               |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Porteranthus stipulatus</i></b>            |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Potamogeton alpinus</i></b>                |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Potamogeton diversifolius</i></b>          |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Potamogeton hillii</i></b>                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Potamogeton ogdenii</i></b>                |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Potamogeton pulcher</i></b>                |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Potamogeton strictifolius</i></b>          |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Potentilla paradoxa</i></b>                |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Prenanthes boottii</i></b>                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |





## 2010 Rare Plant Status List - Phenology

|   | Jan        | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|---|------------|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <i>Prenanthes crepidinea</i>                            | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Prenanthes racemosa</i> var. <i>racemosa</i>         | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Primula mistassinica</i>                             | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Proserpinaca pectinata</i>                           | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Prunus pumila</i> var. <i>depressa</i>               | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Prunus pumila</i> var. <i>pumila</i>                 | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Pseudognaphalium helleri</i> ssp. <i>micradenium</i> | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Pseudolycopodiella caroliniana</i>                   | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Pseudotaxiphyllum distichaceum</i>                   | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Ptelea trifoliata</i> ssp. <i>trifoliata</i>         | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Pteridium aquilinum</i> var. <i>pseudocaudatum</i>   | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Pterospora andromedea</i>                            | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Pycnanthemum clinopodioides</i>                      | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Pycnanthemum muticum</i>                             | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |



## 2010 Rare Plant Status List - Phenology

|  | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|--|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <b><i>Pycnanthemum torrei</i></b>                                  |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Pycnanthemum verticillatum</i> var. <i>verticillatum</i></b> |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Pyrola asarifolia</i> ssp. <i>asarifolia</i></b>             |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Pyrola minor</i></b>   |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Pyxidantha barbulata</i></b>                                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Quercus phellos</i></b>                                      |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Quercus shumardii</i> var. <i>shumardii</i></b>              |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Ranunculus cymbalaria</i></b>                                |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Ranunculus hispidus</i> var. <i>nitidus</i></b>              |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Ranunculus pusillus</i></b>                                  |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Rhexia mariana</i> var. <i>mariana</i></b>                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Rhodiola integrifolia</i> ssp. <i>leedyi</i></b>             |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Rhodiola rosea</i></b>                                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Rhododendron canadense</i></b>                               |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |



## 2010 Rare Plant Status List - Phenology

|                                    | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|------------------------------------|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <i>Rhododendron lapponicum</i>     |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                         |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                          |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                           |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Rhynchospora cephalantha</i>    |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                         |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                          |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                           |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Rhynchospora chalarocephala</i> |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                         |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                          |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                           |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Rhynchospora inundata</i>       |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                         |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                          |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                           |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Rhynchospora nitens</i>         |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                         |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                          |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                           |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Rhynchospora pallida</i>        |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                         |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                          |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                           |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Rhynchospora recognita</i>      |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                         |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                          |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                           |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Rhynchospora scirpoides</i>     |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                         |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                          |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                           |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Rhynchospora torreyana</i>      |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                         |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                          |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                           |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Rorippa aquatica</i>            |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                         |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                          |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                           |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Rosa acicularis ssp. sayi</i>   |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                         |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                          |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                           |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Rotala ramosior</i>             |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                         |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                          |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                           |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Rubus chamaemorus</i>           |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                         |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                          |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                           |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Rubus cuneifolius</i>           |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                         |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                          |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                           |     |     |     |     |     |      |      |     |      |     |     |     |



## 2010 Rare Plant Status List - Phenology

|  | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|--|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <i>Rumex fueginus</i>                          |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                      |     |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
| Fruiting                                       |     |     |     |     |     |      |      |     | ■    | ■   | ■   |     |
| <i>Rumex hastatulus</i>                        |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                      |     |     |     |     |     | ■    | ■    |     |      |     |     |     |
| Fruiting                                       |     |     |     |     |     | ■    | ■    | ■   |      |     |     |     |
| <i>Rumex persicarioides</i>                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                      |     |     |     |     |     |      | ■    | ■   |      |     |     |     |
| Fruiting                                       |     |     |     |     |     |      | ■    | ■   | ■    | ■   |     |     |
| <i>Sabatia angularis</i>                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                      |     |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
| Fruiting                                       |     |     |     |     |     |      |      |     | ■    | ■   |     |     |
| <i>Sabatia campanulata</i>                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                      |     |     |     |     |     |      |      | ■   | ■    |     |     |     |
| Fruiting                                       |     |     |     |     |     |      |      |     | ■    | ■   |     |     |
| <i>Sabatia dodecandra var. dodecandra</i>      |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                      |     |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
| Fruiting                                       |     |     |     |     |     |      |      |     | ■    | ■   |     |     |
| <i>Sabatia stellaris</i>                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                      |     |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| Fruiting                                       |     |     |     |     |     |      |      |     | ■    | ■   | ■   |     |
| <i>Saccharum giganteum</i>                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                     |     |     | ■   | ■   | ■   | ■    | ■    | ■   | ■    | ■   | ■   | ■   |
| Flowering                                      |     |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| Fruiting                                       |     |     |     |     |     |      |      |     |      | ■   | ■   | ■   |
| <i>Sagina decumbens ssp. decumbens</i>         |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                      |     |     |     |     | ■   | ■    | ■    |     |      |     |     |     |
| Fruiting                                       |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Sagittaria montevidensis var. spongiosa</i> |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                     |     |     |     |     |     | ■    | ■    | ■   | ■    |     |     |     |
| Flowering                                      |     |     |     |     |     |      |      | ■   | ■    |     |     |     |
| Fruiting                                       |     |     |     |     |     |      |      |     | ■    | ■   |     |     |
| <i>Sagittaria teres</i>                        |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                                      |     |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
| Fruiting                                       |     |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| <i>Salicornia bigelovii</i>                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                     |     |     |     |     |     |      | ■    | ■   | ■    | ■   |     |     |
| Flowering                                      |     |     |     |     |     |      |      | ■   | ■    |     |     |     |
| Fruiting                                       |     |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| <i>Salix cordata</i>                           |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                     |     |     |     |     | ■   | ■    | ■    | ■   | ■    | ■   |     |     |
| Flowering                                      |     |     |     |     | ■   | ■    | ■    |     |      |     |     |     |
| Fruiting                                       |     |     |     |     |     | ■    | ■    | ■   |      |     |     |     |
| <i>Salix herbacea</i>                          |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                                     |     |     |     |     |     | ■    | ■    | ■   | ■    |     |     |     |
| Flowering                                      |     |     |     |     |     | ■    | ■    |     |      |     |     |     |
| Fruiting                                       |     |     |     |     |     |      | ■    | ■   | ■    |     |     |     |



## 2010 Rare Plant Status List - Phenology

|   | Jan        | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|---|------------|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <i>Salix uva-ursi</i>                             | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Salvia lyrata</i>                              | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Saxifraga aizoides</i>                         | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Saxifraga oppositifolia ssp. oppositifolia</i> | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Saxifraga paniculata ssp. neogaea</i>          | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Schizaea pusilla</i>                           | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Schoenoplectus heterochaetus</i>               | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Schwalbea americana</i>                        | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Scirpus ancistrochaetus</i>                    | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Scirpus georgianus</i>                         | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Scirpus longii</i>                             | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Scleria minor</i>                              | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Scleria muehlenbergii</i>                      | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Scleria pauciflora var. caroliniana</i>        | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|   | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|   | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |



## 2010 Rare Plant Status List - Phenology

|   | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|---|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <b><i>Scleria triglomerata</i></b>                        |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Scleria verticillata</i></b>                        |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Scutellaria elliptica</i> var. <i>elliptica</i></b> |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Scutellaria incana</i> var. <i>incana</i></b>       |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Scutellaria integrifolia</i></b>                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Scutellaria nervosa</i></b>                         |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Scutellaria serrata</i></b>                         |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Selaginella eclipses</i></b>                        |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Sericocarpus linifolius</i></b>                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Sesuvium maritimum</i></b>                          |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Silene caroliniana</i> ssp. <i>pensylvanica</i></b> |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Sisyrinchium mucronatum</i></b>                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Smallanthus uvedalius</i></b>                       |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Smilax pseudochina</i></b>                          |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |



## 2010 Rare Plant Status List - Phenology

|  | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|--|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <b><i>Smilax pulverulenta</i></b>                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Solidago latissimifolia</i></b>                |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Solidago leiocarpa</i></b>                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Solidago sempervirens var. mexicana</i></b>    |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Solidago simplex var. monticola</i></b>        |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Solidago simplex var. racemosa</i></b>         |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Sparganium natans</i></b>                      |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Spergularia canadensis var. canadensis</i></b> |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Sphenopholis obtusata</i></b>                  |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Sphenopholis pensylvanica</i></b>              |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Spinulum canadense</i></b>                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Spiraea septentrionalis</i></b>                |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Spiranthes vernalis</i></b>                    |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Sporobolus clandestinus</i></b>                |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |



## 2010 Rare Plant Status List - Phenology

|  | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|--|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <b><i>Sporobolus heterolepis</i></b>                 |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Stachys hyssopifolia</i></b>                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Stellaria longipes</i></b>                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Stenanthium leimanthoides</i></b>              |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Strophostyles umbellata</i></b>                |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Stuckenia filiformis ssp. alpina</i></b>       |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Stuckenia filiformis ssp. occidentalis</i></b> |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Stylosanthes biflora</i></b>                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Suaeda linearis</i></b>                        |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Suaeda rolandii</i></b>                        |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Subularia aquatica var. americana</i></b>      |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Symphotrichum boreale</i></b>                  |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Symphotrichum ciliolatum</i></b>               |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Symphotrichum concolor var. concolor</i></b>   |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative   |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering  |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting   |     |     |     |     |     |      |      |     |      |     |     |     |





## 2010 Rare Plant Status List - Phenology

|   | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|---|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <b><i>Symphyotrichum laeve</i> var. <i>concinnum</i></b>      |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      | █   | █    |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     | █    | █   |     |     |
| <b><i>Symphyotrichum lanceolatum</i> var. <i>interior</i></b> |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      | █   | █    |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     | █    | █   |     |     |
| <b><i>Symphyotrichum oolentangiense</i></b>                   |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      | █   | █    |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      | █   | █   |     |
| <b><i>Symphyotrichum subulatum</i> var. <i>subulatum</i></b>  |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      |      | █   | █    |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     | █    | █   |     |     |
| <b><i>Thalictrum venulosum</i> var. <i>confine</i></b>        |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     | █    | █    | █   | █    |     |     |     |
| Flowering   |     |     |     |     |     | █    | █    | █   | █    |     |     |     |
| Fruiting  |     |     |     |     |     |      | █    | █   | █    | █   |     |     |
| <b><i>Thaspium barbinode</i></b>                              |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     | █    | █    |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      | █    | █   |      |     |     |     |
| <b><i>Thaspium trifoliatum</i> var. <i>flavum</i></b>         |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     | █   | █    |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     | █    | █    | █   |      |     |     |     |
| <b><i>Tilia americana</i> var. <i>heterophylla</i></b>        |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     | █   | █    | █    | █   | █    |     |     |     |
| Flowering   |     |     |     |     |     | █    | █    |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      | █    | █   | █    |     |     |     |
| <b><i>Tipularia discolor</i></b>                              |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  | █   | █   | █   | █   | █   | █    | █    |     |      |     | █   | █   |
| Flowering   |     |     |     |     |     |      |      | █   | █    |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     | █    | █   |     |     |
| <b><i>Triantha glutinosa</i></b>                              |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     | █    | █    | █   |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      | █   | █    | █   |     |     |
| <b><i>Trichomanes intricatum</i></b>                          |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     | █   | █   | █   | █    | █    | █   | █    | █   | █   | █   |
| Flowering   |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     |      |     |     |     |
| <b><i>Trichophorum cespitosum</i> ssp. <i>cespitosum</i></b>  |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     | █    | █    | █   | █    |     |     |     |
| Flowering   |     |     |     |     |     | █    | █    | █   |      |     |     |     |
| Fruiting  |     |     |     |     |     |      | █    | █   | █    |     |     |     |
| <b><i>Trichophorum clintonii</i></b>                          |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     | █   | █    |      |     |      |     |     |     |
| Fruiting  |     |     |     |     | █   | █    | █    | █   |      |     |     |     |
| <b><i>Trichostema setaceum</i></b>                            |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative  |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering   |     |     |     |     |     |      | █    | █   |      |     |     |     |
| Fruiting  |     |     |     |     |     |      |      |     | █    | █   |     |     |



## 2010 Rare Plant Status List - Phenology

|                                | Jan | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|--------------------------------|-----|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <i>Triglochin palustre</i>     |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                      |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                       |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Trillium flexipes</i>       |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                      |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                       |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Trillium sessile</i>        |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                      |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                       |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Triosteum angustifolium</i> |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                      |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                       |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Triphora trianthophora</i>  |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                      |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                       |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Tripsacum dactyloides</i>   |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                      |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                       |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Trisetum melicoides</i>     |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                      |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                       |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Trollius laxus</i>          |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                      |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                       |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Ulmus thomasii</i>          |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                      |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                       |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Utricularia inflata</i>     |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                      |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                       |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Utricularia juncea</i>      |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                      |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                       |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Utricularia radiata</i>     |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                      |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                       |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Utricularia striata</i>     |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                      |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                       |     |     |     |     |     |      |      |     |      |     |     |     |
| <i>Uvularia puberula</i>       |     |     |     |     |     |      |      |     |      |     |     |     |
| Vegetative                     |     |     |     |     |     |      |      |     |      |     |     |     |
| Flowering                      |     |     |     |     |     |      |      |     |      |     |     |     |
| Fruiting                       |     |     |     |     |     |      |      |     |      |     |     |     |



## 2010 Rare Plant Status List - Phenology

|  | Jan        | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|--|------------|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <i>Vaccinium boreale</i>               | Vegetative |     |     |     |     | ■    | ■    | ■   | ■    | ■   |     |     |
|  | Flowering  |     |     |     |     |      | ■    | ■   |      |     |     |     |
|  | Fruiting   |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| <i>Vaccinium cespitosum</i>            | Vegetative |     |     |     |     | ■    | ■    | ■   | ■    | ■   |     |     |
|  | Flowering  |     |     |     |     |      | ■    | ■   |      |     |     |     |
|  | Fruiting   |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| <i>Vahlodea atropurpurea</i>           | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
|  | Fruiting   |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| <i>Valeriana uliginosa</i>             | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     | ■    | ■    | ■   |      |     |     |     |
|  | Fruiting   |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| <i>Valerianella chenopodiifolia</i>    | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     | ■    | ■    | ■   |      |     |     |     |
|  | Fruiting   |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
| <i>Valerianella umbilicata</i>         | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     | ■    | ■    | ■   |      |     |     |     |
|  | Fruiting   |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
| <i>Vernonia gigantea ssp. gigantea</i> | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |      |      | ■   | ■    |     |     |     |
|  | Fruiting   |     |     |     |     |      |      |     | ■    | ■   |     |     |
| <i>Veronicastrum virginicum</i>        | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
|  | Fruiting   |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| <i>Viburnum dentatum var. venosum</i>  | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     | ■    | ■    | ■   |      |     |     |     |
|  | Fruiting   |     |     |     |     |      | ■    | ■   | ■    | ■   |     |     |
| <i>Viburnum edule</i>                  | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     | ■    | ■    | ■   |      |     |     |     |
|  | Fruiting   |     |     |     |     |      | ■    | ■   | ■    | ■   |     |     |
| <i>Viburnum nudum var. nudum</i>       | Vegetative |     |     |     | ■   | ■    | ■    | ■   | ■    | ■   |     |     |
|  | Flowering  |     |     |     |     | ■    | ■    | ■   |      |     |     |     |
|  | Fruiting   |     |     |     |     |      |      | ■   | ■    | ■   |     |     |
| <i>Viola bicolor</i>                   | Vegetative |     |     |     |     | ■    | ■    | ■   |      |     |     |     |
|  | Flowering  |     |     |     |     | ■    | ■    | ■   |      |     |     |     |
|  | Fruiting   |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
| <i>Viola brittoniana</i>               | Vegetative |     |     |     |     | ■    | ■    | ■   | ■    |     |     |     |
|  | Flowering  |     |     |     |     | ■    | ■    | ■   |      |     |     |     |
|  | Fruiting   |     |     |     |     |      | ■    | ■   | ■    |     |     |     |
| <i>Viola hirsutula</i>                 | Vegetative |     |     |     |     | ■    | ■    | ■   | ■    |     |     |     |
|  | Flowering  |     |     |     |     | ■    | ■    | ■   |      |     |     |     |
|  | Fruiting   |     |     |     |     |      | ■    | ■   | ■    |     |     |     |



## 2010 Rare Plant Status List - Phenology

|  | Jan        | Feb | Mar | Apr | May | June | July | Aug | Sept | Oct | Nov | Dec |
|--|------------|-----|-----|-----|-----|------|------|-----|------|-----|-----|-----|
| <i>Viola nephrophylla</i>                | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Viola novae-angliae</i>               | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Viola primulifolia</i>                | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Vitis vulpina</i>                     | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Vittaria appalachiana</i>             | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Woodsia alpina</i>                    | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Woodsia glabella</i>                  | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Woodsia oregana ssp. cathcartiana</i> | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |
| <i>Xyris smalliana</i>                   | Vegetative |     |     |     |     |      |      |     |      |     |     |     |
|  | Flowering  |     |     |     |     |      |      |     |      |     |     |     |
|  | Fruiting   |     |     |     |     |      |      |     |      |     |     |     |



**OFFICE USE ONLY**

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**NATURAL HERITAGE REPORTING FORM**

**New York Natural Heritage Program**

**New York State Dept. of Environmental Conservation**

**625 Broadway, 5<sup>th</sup> Floor**

**Albany, NY 12233-4757**

(518) 402-8935

*If you have information on the location of a rare plant, rare animal or ecological community and would like to help us build the Natural Heritage inventory, please complete the form below. - Thank you!*

**INSTRUCTIONS:**

1. Complete this form for **first-hand field observations only**. Please mail fully completed form to the above mailing address or FAX to 518-402-8925.
2. **DO NOT COMPLETE THIS FORM** if the source of your information is a report, letter, conversation or other document. Send us the documentation.
3. **Rare birds**: complete this form only for observations during the breeding season or at large concentration areas during migration or in winter.
4. **Mail or email a copy of a location map** and mark the location of the rare species or community & its boundary (if known).  
You can print copies of topo maps from the Internet at <http://www.topozone.com>. You can also click the location on the map (a red cross appears) and e-mail it. Aerial maps may be printed from Google Maps. Under the "My Maps" tab, aerial maps may be marked up with a point or polygon and e-mailed (we prefer this).
5. **Mail or e-mail a sketch and/or photos from the field** (you can also e-mail a digital photo or scan of your sketch). The plan sketch (looking down from above) of the site and habitat should show the location of the species or ecological community when it is not apparent on the topographic map, aerial photos or site photographs. Show streets and/or trails, nearby landmarks, disturbances, distance scale, route taken, and north arrow.

**SOURCE OF YOUR INFORMATION:** (check one of the following)

Firsthand field observation Does the identification need to be confirmed? yes no

Other: Please **do not complete this form**; send us a copy of the documentation instead. If source is a conversation with someone, send us a note.

**FORM COMPLETED BY** (name):

(address):

Date form completed (mm/dd/yyyy):

E-mail:

Phone:

**IDENTIFICATION**

Complete **only one form per rare plant, animal or ecological community per site**. If you need a list of rare species/communities we are tracking, contact our office.

Name of the rare plant, animal or ecological community:

Last Date Observed (mm/dd/yyyy):

First Date Observed (mm/dd/yyyy):

Observer name(s):

**LOCATION:**

Site name (local or place name):

Directions (describe in detail the precise location of the species or community; include nearby landmarks, street names and mileages. Include directions to separate groups of organisms if needed):

County:

Town:

USGS 7.5' topo name(if known):

**OBSERVATION DATA and GPS:**

Animals: Indicate the number of adults, juveniles, nests, etc.

Plants: Indicate 1) what you counted (i.e., plants, clumps, floating masses, flowering stems) 2) the number or percentage of flowering plants to sterile plants and, if more than one group of plants, 3) the names of separate plant groups and their numbers (i.e., Group 1: 50 plants all in flower, Group 2: 10 plants, 5 flowering).

Ecological communities: Indicate 1) the percent cover of tree, shrub and herb layers and 2) the percent cover of the top three most abundant plants in each layer.

**GPS POINTS (If possible, before recording points, set your unit to UTM format, NAD83 datum and Zone 18, Zone 19 for eastern Long Island and zone 17 for western NY) If possible record a center point for each population group. For communities, record a point somewhere in the community.**

**UTM Datum (NAD83?):**

**UTM Zone** (18 for most of the state, zone 17 is west of a vertical line parallel to the eastern border of Orleans County and down through the center of Allegany County, zone 19 is east of Hither Hills campground on the South Fork of Long Island):

|  |          |          |          |            |          |
|--|----------|----------|----------|------------|----------|
| <b>Group or patch 1.</b>   | <b>E</b> | <b>N</b> |          |            |          |
| <b>location error on unit in feet or meters:</b>   |          |          |          |            |          |
| <b>SIZE:</b> Please indicate the estimated size of the area occupied by the animal, plant or community): |          |          | acres or | sq. meters |          |
| If the area occupied is <u>long, narrow and less than 10 meters wide</u> , please indicate: Length:      |          |          | (meters) | Width:     | (meters) |
| <b>Group or patch 2.</b>   | <b>E</b> | <b>N</b> | acres or | sq. meters |          |
| <b>location error on unit in feet or meters:</b>   |          |          | Length:  | Width:     | (meters) |
| <b>Group or patch 3.</b>   | <b>E</b> | <b>N</b> | acres or | sq. meters |          |
| <b>location error on unit in feet or meters:</b>   |          |          | Length:  | Width:     | (meters) |
| (More groups or patches? Use additional forms)   |          |          |          |            |          |

**HABITAT DESCRIPTION:** Write a word picture of the habitat where the species or community is found. Include ecological communities, dominants, associated species, substrates, soils, aspect, slope, hydrology, etc.

**LANDOWNER(S)** (names, addresses and phone numbers if available):

**LANDSCAPE** (describe the current landscape surrounding the plant, animal or community (i.e., farmland, residential, pristine forest, etc.))

**CURRENT AND POTENTIAL THREATS:**

**MANAGEMENT NEEDS:**

**CONFIRMATION:** plant identifications must be confirmed with a specimen or photograph.

**SPECIMEN:** Was a specimen taken?    yes    no. If yes, indicate the collection # and repository (if not sent to us):

**PHOTOGRAPH:** Was a photo taken?    yes    no. If yes:    slide    print    digital.

Was a copy mailed or e-mailed with the form?    yes    no

