Rare Native Plants of Massachusetts

Native Flora & Fauna of Massachusetts No. 6
Climbing Fern (*Lygodium palmatum*) is an evergreen climbing or sprawling fern of open streamside thickets, young pine-oak-maple woods, and clearings such as powerlines. It favors moist, sandy, acid soil. Because of its popularity as decoration and resulting decline in the wild, the Connecticut Legislature in 1869 passed the first conservation law protecting a fern, accounting for its alternate name Hartford Fern. In Massachusetts the species seems to be making a slow comeback and is currently known from 14 sites. Some Hampden and Hampshire County populations are large and vigorous. The cover illustration by Barbara Terkanian clearly shows the elongate twining fronds tipped by branched fertile pinnae.
RARE NATIVE PLANTS OF MASSACHUSETTS

Prepared by

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Division of Fisheries and Wildlife

INTRODUCTION

The following list identifies those native plants of the Commonwealth which are the rarest and most in need of conservation. All of the listed species are threatened by development, recreational pressures, or ecological succession, or are vulnerable because they occur only in rare or fragile habitats. The majority, such as Fir Clubmoss (Lycopodium selago) and Chaffseed (Schwalbea americana), have historically always been rare in the number of occurrences and/or overall state population size. Others, such as Arethusa (Arethusa bulbosa) and Purple Needlegrass (Aristida purpur-ascens), were once fairly numerous but have severely declined during the past 75 years due to habitat alteration. A few, such as Golden Seal (Hydrastis canadensis) and Smooth Woodsia (Woodsia glabella), have been newly discovered in Massachusetts only very recently; they may be new colonizers or may have been overlooked in the past. Several species are nearly endemic to Massachusetts; protection within this state is essential for the continued survival of such species as Terete Arrowhead (Sagittaria teres), Nantucket Shadbush (Amelanchier nantucketensis), Bushy Rockrose (Helianthemum dumosum), Plymouth Gentian (Sabatia kennedyana), and Sandplain Gerardia (Agalinis acuta).

The first comprehensive list of the rare plants of the state is "Rare and endangered vascular plant species in Massachusetts" (Coddington & Field, 1978). In this important publication, the authors document the historical distribution of 243 species and give clear and thoughtful discussions on floristic provinces of the state, preservation of critical habitats, causes of rarity, and criteria for inclusion of species. Since 1978, The Massachusetts Natural Heritage Program has tapped many sources, particularly additional herbarium specimens and published reports. In addition, the author has spent five field seasons verifying the locations and identities of rare plants across the state. That, combined with the reports of other professional and amateur botanists, has made the Natural Heritage Program's data base the largest repository of rare plant information in the state. From the Coddington & Field list 41 species have been deleted, primarily because recent intensive searches indicate that they are more common than previously thought. Similarly, 40 species have been added after careful consideration of their current and historical rarity and vulnerability of their habitats. Only native species are listed.
FUTURE REVISIONS

In any listing of rare species it is expected that changes will be made from time to time. This list is itself a revision of a 1983 list and is based on our current knowledge; it will be subject to revision as the circumstances of a species' rarity change and as our knowledge about the native flora increases. Submission of additional data on these species, or on other species which may warrant listing, is requested and encouraged. Please send information to the Massachusetts Natural Heritage Program, Division of Fisheries & Wildlife, 100 Cambridge St., Boston, MA 02202.

ABOUT THIS LIST

The list is arranged taxonomically by botanical family; within each family plants are arranged alphabetically by genus and species. Trinomials are used to indicate certain subspecies and varieties; in most cases only the listed taxon occurs in Massachusetts.

Status Codes
The status of each species is indicated by letter codes as defined below:

FE = listed as Federally Endangered by U.S. Fish & Wildlife Service.
FT = listed as Federally Threatened by U.S. Fish & Wildlife Service.
E = Endangered. Any reproductively viable native species of wildlife or wild plant which has been documented by biological research and inventory to be in danger of extirpation from the Commonwealth.
T = Threatened. Any reproductively viable native species of wildlife or wild plant which has been documented by biological research and inventory to be rare or declining within the Commonwealth and which is likely to become endangered in the Commonwealth in the foreseeable future.
SC = Special Concern. Any native wildlife or wild plant species which has been documented by biological research and inventory to be suffering a decline that could threaten the species in the Commonwealth if allowed to continue unchecked, or that occurs in such small numbers or with such a restricted distribution or specialized habitat requirements that it could easily become threatened.
X = Extirpated. No longer believed to occur in the Commonwealth; recent searches have failed to locate any populations.
Nomenclature

Nomenclature follows that of Kartesz & Kartesz (1980) which reflects many changes made since the major manuals (Fernald, 1950; Gleason, 1952) were published. Be advised that field guides and most references in the attached bibliography use the older nomenclature. Because of their relative scarcity or obscurity, many rare species have not acquired colloquial names. In such cases common names have been coined.

FURTHER INFORMATION

Lists of Other Rare Species

This list has been developed as one of the Division of Fisheries and Wildlife's lists of rare species in Massachusetts. For those interested, there is also available a "List of Endangered, Threatened, and Special Concern Vertebrate Animals of Massachusetts" and a "List of Endangered, Threatened, and Special Concern Invertebrate Animals of Massachusetts".

Massachusetts Natural Heritage Program

The Massachusetts Natural Heritage Program maintains a set of United States Geological Survey topographic maps on which the locations of all rare species are indicated. The maps accompany manual and computer files containing information on each species' status. The Natural Heritage staff regularly revises and updates this information as data are received.

Planners, developers, conservationists, and interested people who desire to know whether any rare natural features are known from a particular site are encouraged to contact the Natural Heritage Program. Please contact:

Massachusetts Natural Heritage Program
Division of Fisheries and Wildlife
100 Cambridge St.
Boston, MA 02202
(617) 727-9194

ACKNOWLEDGEMENTS

Many people have provided valuable counsel and have shared their knowledge of plants in Massachusetts. In particular, I would like to thank the following individuals: Harry E. Ahles (deceased), Ray Angelo, Josephine B. Bruno, Caren A. Caljouw, Jonathan A. Coddington, Peter W. Dunwiddie, C. Barre Hellquist, Jerry Jenkins, Richard LeBlond, Roberta G. Poland, Charles Quinlan, Thomas J. Rawinski, Marian Rohman, Henry K. Svenson, Alice F. Tryon, Pamela B. Weatherbee, Henry L. Woolsey, Robert Zaremba, Peter F. Zika.
<table>
<thead>
<tr>
<th>Family</th>
<th>Species</th>
<th>Status</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equisetaceae</strong></td>
<td><em>Equisetum palustre</em></td>
<td>X</td>
<td>Marsh Horsetail</td>
</tr>
<tr>
<td></td>
<td><em>E. scirpoides</em></td>
<td>SC</td>
<td>Dwarf Scouring-rush</td>
</tr>
<tr>
<td><strong>Hymenophyllaceae</strong></td>
<td><em>Trichomanes sp.</em></td>
<td>SC</td>
<td>a Filmy-fern</td>
</tr>
<tr>
<td><strong>Adiantaceae</strong></td>
<td><em>Cryptogramma stelleri</em></td>
<td>T</td>
<td>Fragile Rock-brake</td>
</tr>
<tr>
<td></td>
<td><em>Pellaea atropurpurea</em></td>
<td>SC</td>
<td>Purple Cliff-brake</td>
</tr>
<tr>
<td><strong>Aspleniaceae</strong></td>
<td><em>Asplenium montanum</em></td>
<td>T</td>
<td>Mountain Spleenwort</td>
</tr>
<tr>
<td></td>
<td><em>A. ruta-muraria</em></td>
<td>T</td>
<td>Wall-rue Spleenwort</td>
</tr>
<tr>
<td></td>
<td><em>Polystichum braunii</em></td>
<td>E</td>
<td>Braun's Holly-fern</td>
</tr>
<tr>
<td></td>
<td><em>Woodsia glabella</em></td>
<td>E</td>
<td>Smooth Woodsia</td>
</tr>
<tr>
<td><strong>Isoetaceae</strong></td>
<td><em>Isoetes acadiensis</em></td>
<td>SC</td>
<td>Acadian Quillwort</td>
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<tr>
<td></td>
<td><em>I. eatonii</em></td>
<td>E</td>
<td>Eaton's Quillwort</td>
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<tr>
<td></td>
<td><em>I. macrospora</em></td>
<td>SC</td>
<td>Lake Quillwort</td>
</tr>
<tr>
<td><strong>Ophioglossaceae</strong></td>
<td><em>Ophioglossum vulgatum</em></td>
<td>T</td>
<td>Adder’s-tongue Fern</td>
</tr>
<tr>
<td><strong>Schizaeaceae</strong></td>
<td><em>Lygodium palmatum</em></td>
<td>SC</td>
<td>Climbing Fern</td>
</tr>
<tr>
<td><strong>Pteridophyta</strong></td>
<td><em>P. alpinus</em></td>
<td>X</td>
<td>Northern Pondweed</td>
</tr>
<tr>
<td></td>
<td><em>P. friesii</em></td>
<td>T</td>
<td>Fries's Pondweed</td>
</tr>
<tr>
<td></td>
<td><em>P. strictifolius</em></td>
<td>E</td>
<td>Straight-leaved Pondweed</td>
</tr>
</tbody>
</table>
### ALISMATACEAE (Arrowheads, Water-plantains)

- **Echinodorus parvulus** (Burhead)
- **Sagittaria calycina** ssp. **spongiosa** (Estuary Arrowhead)
- **S. cuneata** (Wapato)
- **S. subulata var. subulata** (River Arrowhead)
- **S. teres** (Terete Arrowhead)

### POACEAE (Grasses)

- **Aristida purpurascens** (Purple Needlegrass)
  - **A. tuberculosa** (Seabeach Needlegrass)
- **Calamagrostis pickeringii** (Reed Bentgrass)
- **Dichanthelium acuminatum** var. **wrightianum** (Wright's Panic-grass)
- **D. ovale** var. **addisonii** (Commons's Panic-grass)
- **D. scoparium** (Broom Panic-grass)
- **Diplichne maritima** (Saltpond Grass)
- **Elymus mollis** (Sea Lyme-grass)
- **Eragrostis frankii** (Frank's Love-grass)
- **Milium effusum** (Millet Grass)
- **Muhlenbergia capillaris** (Hairgrass)
- **Panico gattingeri** (Gattinger's Panic-grass)
- **P. longifolium** (Long-leaved Panic-grass)
- **P. philadelphicum** (Philadelphia Panic-grass)
- **Paspalum laeve** var. **circulare** (Meadow Paspalum)
- **Puccinellia langeana** ssp. **alaskana** (Northern Alkali-grass)

### SETARIOIDEAE (Foxtails, Warm-season grasses)

- **Setaria geniculata** (Bristly Foxtail)
- **S. cynosuroides** (Salt Reed-grass)
- **Sporobolus heterolepis** (Northern Dropseed)
- **S. neglectus** (Small Dropseed)
- **Tripsacum dactyloides** (Northern Gama-grass)
- **Tritisetum spicatum** var. **molle** (Spiked False-oats)

### CYPERACEAE (Sedges)

- **Carex alopecoidea** (Foxtail Sedge)
  - **C. baileyi** (Bailey's Sedge)
  - **C. bushii** (Bush's Sedge)
  - **C. castanea** (Chestnut-colored Sedge)
  - **C. chordorrhiza** (Creeping Sedge)
  - **C. davisi** (Davis's Sedge)
  - **C. flaccosperma** var. **glaucoidea** (Glaucous Sedge)
  - **C. formosa** (Handsome Sedge)
  - **C. grayi** (Gray's Sedge)
  - **C. hitchcockiana** (Hitchcock's Sedge)
  - **C. lenticularis** (Shore Sedge)
  - **C. livida** var. **grayana** (Glaucous Sedge)
  - **C. michauxiana** (Michaux's Sedge)
  - **C. oligocarpa** (Rich Woods Sedge)
  - **C. oligosperma** (Few-fruit Sedge)
  - **C. pauciflora** (Few-flowered Sedge)
Carex polymorpha  SC
Variable Sedge

C. salina var. kattegatensis  SC
Saline Sedge

C. schweinitzii  T
Schweinitz's Sedge

C. sterilis  X
Dioecious Sedge

C. tetanica  E
Rigid Sedge

C. trichocarpa  E
Hairy-fruited Sedge

C. typhina  T
Cat-tail Sedge

C. walteriana var. brevis  E
Walter's Sedge

C. wiegandii  SC
Wiegand's Sedge

C. willdenowii  SC
Willdenow's Sedge

Cyperus engelmannii  SC
Engelmann's Umbrella-sedge

Eleocharis equisetoides  X
Horsetail Spike-rush

E. fallax  E
Deceitful Spike-rush

E. intermedia  T
Intermediate Spike-rush

E. melanocarpa  SC
Black-fruited Spike-rush

E. obtusa var. ovata  SC
Ovate Spike-rush

E. quadrangulata  X
Squarestem Spike-rush

E. tricostata  E
Three-angled Spike-rush

Psilocarya nitens  T
Short-beaked Bald-rush

P. scirpoides  SC
Long-beaked Bald-rush

Rhynchospora capitellae  E
Capillary Beak-rush

R. inundata  T
Inundated Horned-rush

R. torreyana  E
Torrey's Beak-rush

Scirpus ancistrochaetus  X
Barbed-bristle Bulrush

S. fluviatilis  SC
River Bulrush

S. hallii  X
Hall's Bulrush

S. longii  X
Long's Bulrush

S. pendulus  SC
Pendulous Bulrush

Scleria pauciflora var. caroliniana  E
Papillose Nut-rush

S. triglomerata  X
Tall Nut-rush

ARACEAE (Arums)
Arisaema dracontium  T
Green Dragon

Orontium aquaticum  T
Golden Club

ERIOCAULACEAE (Pipeworts)
Eriocaulon parkeri  T
Estuary Pipewort

JUNCACEAE (Rushes)
Juncus biflorus  E
Two-flowered Rush

J. pervetus  X
Cape Cod Rush

Luzula parviflora ssp. melanocarpa  E
Black-fruited Woodrush

LILIACEAE (Lilies)
Chamaelirium luteum  E
Devil's-bit

HAEMODORACEAE (Bloodworts, Redroots)
Lachnanthes caroliniana  SC
Redroot
<table>
<thead>
<tr>
<th>FAMILY</th>
<th>COMMON NAME</th>
<th>SC/FE</th>
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<tbody>
<tr>
<td><strong>IRIDACEAE</strong></td>
<td>(Irises)</td>
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<tr>
<td>Sisyrinchium arenicola</td>
<td>Sandplain Blue-eyed Grass</td>
<td>SC</td>
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<tr>
<td><strong>ORCHIDACEAE</strong></td>
<td>(Orchids)</td>
<td></td>
</tr>
<tr>
<td>Aplectrum hyemale</td>
<td>Putty-root</td>
<td>E</td>
</tr>
<tr>
<td>Arethusa bulbosa</td>
<td>Arethusa</td>
<td>T</td>
</tr>
<tr>
<td>Corallorhiza odontorhiza</td>
<td>Autumn Coralroot</td>
<td>SC</td>
</tr>
<tr>
<td>Cypripedium arietinum</td>
<td>Ram's-head Lady's-slipper</td>
<td>X</td>
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<tr>
<td>C. calceolus var. parviflorum</td>
<td>Small Yellow Lady's-slipper</td>
<td>SC</td>
</tr>
<tr>
<td>C. reginae</td>
<td>Showy Lady's-slipper</td>
<td>SC</td>
</tr>
<tr>
<td>Isotria medeoloides</td>
<td>Small Whorled Pogonia</td>
<td>FE</td>
</tr>
<tr>
<td>Listera cordata</td>
<td>Heartleaf Twayblade</td>
<td>E</td>
</tr>
<tr>
<td>Malaxis brachypoda</td>
<td>White Adder's-mouth</td>
<td>T</td>
</tr>
<tr>
<td>Platanthera ciliaris</td>
<td>Orange Fringed Orchis</td>
<td>X</td>
</tr>
<tr>
<td>P. cristata</td>
<td>Crested Fringed Orchis</td>
<td>X</td>
</tr>
<tr>
<td>P. dilatata</td>
<td>Leafy White Orchis</td>
<td>T</td>
</tr>
<tr>
<td>P. flava var. herbiola</td>
<td>Pale Green Orchis</td>
<td>T</td>
</tr>
<tr>
<td>P. obtusata</td>
<td>Blunthead Orchis</td>
<td>X</td>
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<tr>
<td>Spiranthes vernalis</td>
<td>Grass-leaved Ladies'-tresses</td>
<td>SC</td>
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<tr>
<td>Tipularia discolor</td>
<td>Cranefly Orchid</td>
<td>E</td>
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<tr>
<td>Triphora trianthophora</td>
<td>Nodding Pogonia</td>
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</tr>
<tr>
<td><strong>SALICACEAE</strong></td>
<td>(Willows)</td>
<td></td>
</tr>
<tr>
<td>Salix exigua</td>
<td>Sandbar Willow</td>
<td>SC</td>
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<tr>
<td>S. serissima</td>
<td>Autumn Willow</td>
<td>SC</td>
</tr>
<tr>
<td><strong>BETULACEAE</strong></td>
<td>(Birches, Alders)</td>
<td></td>
</tr>
<tr>
<td>Alnus viridis ssp. crispa</td>
<td>Mountain Alder</td>
<td>SC</td>
</tr>
<tr>
<td>Betula pumila</td>
<td>Swamp Birch</td>
<td>T</td>
</tr>
<tr>
<td><strong>FAGACEAE</strong></td>
<td>(Oaks, Beeches)</td>
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<tr>
<td>Quercus macrocarpa</td>
<td>Bur or Mossy-cup Oak</td>
<td>SC</td>
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<tr>
<td>Q. muhlenbergii</td>
<td>Yellow Oak</td>
<td>SC</td>
</tr>
<tr>
<td><strong>LORANTHACEAE</strong></td>
<td>(Mistletoes)</td>
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<td>Arceuthobium pusillum</td>
<td>Dwarf Mistletoe</td>
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<tr>
<td><strong>POLYGONACEAE</strong></td>
<td>(Docks, Knotweeds)</td>
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<tr>
<td>Polygonum puritanorum</td>
<td>Pondshore Knotweed</td>
<td>SC</td>
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<tr>
<td>P. setaceum var. interjectum</td>
<td>Strigose Knotweed</td>
<td>SC</td>
</tr>
<tr>
<td>Rumex pallidus</td>
<td>Seabeach Dock</td>
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<tr>
<td><strong>CHENOPODIACEAE</strong></td>
<td>(Saltworts, Sea-blites)</td>
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<td>Suaeda americana</td>
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<td>SC</td>
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<tr>
<td><strong>AMARANTHACEAE</strong></td>
<td>(Amaranth)</td>
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<tr>
<td>Amaranthus pumilus</td>
<td>Seabeach Amaranth</td>
<td>X</td>
</tr>
<tr>
<td><strong>PORTULACACEAE</strong></td>
<td>(Purslanes, Spring Beauties)</td>
<td></td>
</tr>
<tr>
<td>Claytonia virginica</td>
<td>Narrow-leaved Spring Beauty</td>
<td>T</td>
</tr>
</tbody>
</table>
CARYOPHYLLACEAE (Pinks, Sandworts)

Minuartia stricta SC
   Rock Sandwort
Moehringia macrophylla E
   Large-leaved Sandwort
Paronychia argyrocoma var. albimontana E
   Silverling
Sagina nodosa ssp. nodosa T
   Knotted Pearlwort

PODOSTEMACEAE (Threadfoots)

Podostemum ceratophyllum SC
   Threadfoot

CRASSULACEAE (Sedums)

Crassula aquatica T
   Pygmyweed

RANUNCULACEAE (Buttercups, Crowfoots)

Cimicifuga racemosa E
   Black Cohosh
Clematis occidentalis SC
   Purple Clematis
Hydrastis canadensis E
   Golden Seal
Ranunculus circinatus X
   var. subrigidus
      Stiff White Water-crowfoot
R. micranthus T
   Tiny-flowered Buttercup

SAXIFRAGACEAE (Saxifrages, Currants)

Ribes lacustre SC
   Bristly Black Currant
R. triste SC
   Swamp Red Currant

ROSACEAE (Roses, Shadbushes)

Agrimonia pubescens T
   Hairy Agrimony
Amelanchier bartramiana T
   Bartram's Shadbush
A. nantucketensis SC
   Nantucket Shadbush
A. sanguinea SC
   Roundleaf Shadbush
Prunus pumila var. depressa SC
   Sandbar Cherry
Rosa acicularis E
   Prickly Rose
Sorbus decora E
   Northern Mountain-ash
Waldsteinia fragarioides SC
   Barren Strawberry

MAGNOLIACEAE (Magnolias)

Magnolia virginiana E
   Sweetbay Magnolia

PAPAVERACEAE (Poppies)

Adlumia fungosa T
   Climbing Fumitory

BRASSICACEAE (Mustards)

Arabis lyrata T
   Lyre-leaved Rock-cress
Cardamine douglassii E
   Purple Cress
C. longii X
   Long's Bitter-cress
Draba reptans SC
   Carolina Whitlow-grass

FABACEAE (Beans, Peas, Clovers)

Desmodium sessilifolium X
   Sessile-leaved Tick-trefoil

OXALIDACEAE (Wood-sorrels)

Oxalis violacea T
   Violet Wood-sorrel
### LINACEAE (Flaxes)
- **Linum intercursum** SC
  - Sandplain Flax
- **L. sulcatum** X
  - Grooved Flax

### POLYGALACEAE (Milkworts)
- **Polygala senega** X
  - Seneca Snakeroot

### CALLITRICHACEAE (Water-starworts)
- **Callitriche aniceps** E
  - Northern Water-starwort
- **C. terrestris** SC
  - Terrestrial Starwort

### EMPETRACEAE (Crowberries)
- **Corema conradii** SC
  - Broom Crowberry

### LIMNANTHACEAE (False Mermaids)
- **Floerkea proserpinacoides** X
  - False Mermaid

### AQUIFOLIACEAE (Hollies)
- **Ilex montana** T
  - Mountain Winterberry

### ACERACEAE (Maples)
- **Acer nigrum** SC
  - Black Maple
- **Rhexia mariana** T
  - Maryland Meadow Beauty

### CLUSIACEAE (St. John's-worts)
- **Hypericum adpressum** T
  - Creeping St. John's-wort
- **H. stragulum** E
  - St. Andrew's Cross

### CISTACEAE (Rockroses, Frostweeds)
- **Helianthemum dumosum** SC
  - Bushy Rockrose

### VIOLACEAE (Violets)
- **Viola adunca** E
  - Sand Violet
- **V. brittoniana** T
  - Britton's Violet
- **V. nephrophylla** T
  - Northern Bog Violet

### CACTACEAE (Cacti)
- **Opuntia humifusa** SC
  - Prickly Pear

### LYTHRACEAE (Loosestrifes)
- **Cuphea viscosissima** X
  - Blue Waxweed
- **Rotala ramosior** SC
  - Toothcup

### MELASTOMATACEAE (Meadow Beauties)
- **Rhedia mariana** T
  - Maryland Meadow Beauty

### ONAGRACEAE (Evening Primroses)
- **Ludwigia polycarpa** T
  - Many-fruited False-loosestrife
- **L. sphaerocarpa** T
  - Round-fruited False-loosestrife
HALORAGIDACEAE (Water-milfoils)

Myriophyllum alterniflorum T
Alternate-flowered Water-milfoil
M. pinnatum SC
Pinnate Water-milfoil

ARALIACEAE (Ginsengs)

Panax quinquefolius SC
Ginseng

APIACEAE (Parsleys, Angelicas)

Angelica villosa X
Hairy Angelica
Conioselinum chinense SC
Hemlock Parsley
Hydrocotyle verticillata SC
Saltpond Pennywort

ERICACEAE (Laurels, Blueberries)

Pterospora andromedea X
Pinedrops
Pyrola asarifolia var. purpurea E
Pink Pyrola
Rhododendron maximum T
Great Laurel
Vaccinium vitis-idaea ssp. minus E
Mountain Cranberry

GENTIANACEAE (Gentians)

Halenia deflexa E
Spurred Gentian
Sabatia campanulata E
Slender Marsh Pink
S. kennedyana SC
Plymouth Gentian
S. stellaris E
Sea Pink

ASCLEPIADACEAE (Milkweeds)

Asclepias verticillata T
Linear-leaved Milkweed

HYDROPHYLLACEAE (Waterleafs)

Hydrophyllum canadense E
Broad Waterleaf

BORAGINACEAE (Borages)

Cynoglossum boreale X
Northern Wild Comfrey
Mertensia maritima E
Oysterleaf
Onosmodium virginianum X
False Gromwell

VERBENACEAE (Vervains)

Verbena simplex E
Narrow-leaved Vervain

LAMIACEAE (Mints)

Agastache scrophulariifolia X
Purple Giant Hyssop
Blephilia ciliata E
Downy Wood-mint
B. hirsuta E
Hairy Wood-mint
Pycnanthemum clinopodioides E
Basil Mountain-mint
Scutellaria integrifolia X
Hyssop Skullcap
Trichostema brachiatum E
False Pennyroyal
SCROPHULARIACEAE (Figworts)

Agalinis acuta E
  Sandplain Gerardia
Castilleja coccinea X
  Indian Paintbrush
Mimulus alatus E
  Winged Monkey-flower
M. moschatus T
  Muskflower
Pedicularis lanceolata E
  Swamp Lousewort
Schwalbea americana X
  Chaffseed
Veronica catenata SC
  Sessile Water-speedwell
Veronicastrum virginicum SC
  Culver's-root

LENTIBULARIACEAE (Bladderworts)

Utricularia biflora T
  Two-flowered Bladderwort
U. fibrosa E
  Fibrous Bladderwort
U. subulata SC
  Subulate Bladderwort

RUBIACEAE (Bedstraws, Bluets)

Galium labradoricum SC
  Labrador Bedstraw

CAPRIFOLIACEAE (Honeysuckles)

Lonicera hirsuta E
  Hairy Honeysuckle
Symphoricarpos albus var. albus E
  Snowberry
Viburnum rafinesquianum T
  Downy Arrowwood

CAMPANULACEAE (Bluebells, Lobelias)

Lobelia siphilitica SC
  Great Blue Lobelia

ASTERACEAE (Asters, Composites)

Artemisia campestris ssp. borealis E
  Boreal Wormwood
Aster concolor E
  Eastern Silvery Aster
A. infirmus E
  Cornel-leaved Aster
A. prenanthoides T
  Crooked-stem Aster
A. tradescantii SC
  Tradescant's Aster
Bidens eatonii T
  Eaton's Beggar-ticks
B. hyperborea var. colpophila E
  Estuary Beggar-ticks
Eupatorium aromaticum SC
  Lesser Snakeroot
E. leucoplepis var. novae-angliae T
  New England Boneset
Gnaphalium purpureum E
  Purple Cudweed
Petasites frigidus var. palmatus T
  Sweet Coltsfoot
Sclerolepis uniflora E
  Sclerolepis
Solidago hispida SC
  Hispid Goldenrod
S. macrophylla SC
  Large-leaved Goldenrod
S. ptarmicoides T
  (=Aster p.)
  Upland White Aster
S. rigida X
  Stiff Goldenrod
S. spathulata ssp. randii E
  Rand's Goldenrod
REFERENCES AND ANNOTATED BIBLIOGRAPHY


