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# NEW HAMPSHIRE NATURAL HERITAGE BUREAU

DRED - DIVISION OF FORESTS & LANDS

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## Rare Plant List for New Hampshire

*Technical Copy*



July 2013



### **A Quick Overview of the NH Natural Heritage Bureau's Purpose and Policies**

The Natural Heritage Bureau is mandated by the Native Plant Protection Act of 1987 (NH RSA 217-A) to determine protective measures and requirements necessary for the survival of native plant species in the state, to investigate the condition and degree of rarity of plant species, and to distribute information regarding the condition and protection of these species and their habitats.

The Natural Heritage Bureau provides information to facilitate informed land-use decision-making. We are not a regulatory agency; instead, we work with landowners and land managers to help them protect the State's natural heritage and meet their land-use needs.

The Natural Heritage Bureau has three facets:

***Inventory*** involves identifying new occurrences of sensitive species and classifying New Hampshire's biodiversity. We currently study more than 630 plant and animal species and 190 natural communities. Surveys for rarities on private lands are conducted only with landowner permission.

***Tracking*** is the management of occurrence data. Our database currently contains information about more than 6,000 plant, animal, and natural community occurrences in New Hampshire.

***Interpretation*** is the communication of Natural Heritage Bureau information. Our goal is to cooperate with public and private land managers to help them *protect* rare species populations and exemplary natural communities.

Cover illustration of a riverside seep by  
Caren Caljouw



The NH Natural Heritage Bureau is a bureau in the Division of Forests & Lands. Our mission is to find, track, and facilitate the protection of New Hampshire's rare plants and exemplary natural communities (which are essentially different types of forests, wetlands, grasslands, etc.). We currently study more than 630 plant and animal species and 190 natural communities. Our database contains information about more than 6,000 plant, animal, and natural community occurrences throughout the state.

### ***Plants Tracked by the NH Natural Heritage Bureau***

The following list is our current assessment of the status of the state's rarest and most imperiled plant species. We have developed the list in cooperation with researchers, conservation organizations such as The Nature Conservancy, and knowledgeable amateur botanists. We obtained plant locations from sources including herbarium specimens (some dating from the late 1800s), personal contacts, the scientific literature, and through extensive field research. It is important for readers to remember that this list is dynamic – as new discoveries are made or populations are lost, species may be added to or removed from the list.

For each species, we have provided the following information:

- Common Name*** Readers should remember that common names vary across the range of the plant. For example, "wild lupine" (*Lupinus perennis*) in New Hampshire is called "wild blue lupine" in New York and "sundial lupine" in other parts of its range; the name also commonly leads to confusion with garden lupine (*Lupinus polyphyllus*) which is not native to New Hampshire but grows wild in some areas.
- Scientific Name*** The primary reference used is:  
Haines, Arthur. 2011. New England Wild Flower Society's Flora Novae Angliae A Manual for the Identification of Native and Naturalized Higher Vascular Plants of New England. Yale University Press. New Haven and London.
- Global & State Ranks*** When considering the rarity of a species, it is important to consider the status of a species both in New Hampshire and across its total range. The degree of rarity within New Hampshire is noted with a "State Rank" and throughout its range with a "Global Rank." Ranks are on a scale of 1 to 5, with a 1 indicating critical imperilment, a 3 indicating that the species is vulnerable, and a 5 indicating that the species is secure. Some species, such as Jesup's milk-vetch (*Astragalus robbinsii* var. *jesupi*), are critically imperiled both globally and in New Hampshire. This species has three known populations on the planet, all on a 16-mile stretch of the Connecticut River. Other species, such as yellow lady's-slipper (*Cypripedium parviflorum* var. *makasin*), are very rare in New Hampshire (S1) but quite common in other parts of their range (G5).

***Listing***

Most of New Hampshire's rare plants are listed as Endangered (in danger of extinction in the state) or Threatened (likely to become Endangered) under the NH Native Plant Protection Act of 1987 (NH RSA 217-A). The most recent revision of the list was conducted in 2010. A subset of these species are also listed under the federal Endangered Species Act of 1973 (42 USCA §§ 4321-4370c). State and federal listing represents a political recognition of rarity, so some species that are biologically rare (as indicated by the State and Global Ranks) may not be listed as Threatened or Endangered.

***Known Sites***

There has not been a comprehensive search of the state for rare species, so we are frequently finding or learning about previously unknown populations. Further, many populations have not been checked since they were originally found, sometimes more than 50 years ago, so we do not know the status of these populations. We have therefore separated known sites into two sub-categories: those last seen more than 20 years ago, and those reported within the last 20 years. This distinction helps show the state of our knowledge about a given species and the need for additional research. If no known sites are indicated in the list (- -), the species is known to have once occurred in the state, but specific sites are not in our database.

***You Can Help!***

Our biologists can only cover so much ground, so we are constantly seeking information from other sources. Knowledgeable recommendations for adding or removing species from the list of Endangered and Threatened species are always welcomed. Further, locational information about any of the species we track will help make our database more complete and therefore more useful for land-use planning. A form for reporting rare plant species locations is attached to the back of this list. It is the policy of our agency not to survey on private property without landowner permission, so please respect your neighbor's privacy.

If you have any questions or need additional information, please do not hesitate to contact us.

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### ***Explanation of Global and State Rank Codes***

Ranks describe rarity both throughout a species' range (global or "G" rank) and within New Hampshire (statewide or "S" rank). The rarity of sub-species and varieties is indicated with a taxon ("T") rank. For example, "G5T1" = the species is globally secure (G5) but the sub-species is critically imperiled (T1).

<i>Code</i>	<i>Examples</i>	<i>Description</i>
<b>1</b>	G1 S1	Critically imperiled because extreme rarity (generally one to five occurrences) or some factor of its biology makes it particularly vulnerable to extinction.
<b>2</b>	G2 S2	Imperiled because rarity (generally six to 20 occurrences) or other factors demonstrably make it very vulnerable to extinction.
<b>3</b>	G3 S3	Either very rare and local throughout its range (generally 21 to 100 occurrences), or found locally (even abundantly at some of its locations) in a restricted range, or vulnerable to extinction because of other factors.
<b>4</b>	G4 S4	Widespread and apparently secure, although the species may be quite rare in parts of its range, especially at the periphery.
<b>5</b>	G5 S5	Demonstrably widespread and secure, although the species may be quite rare in parts of its range, particularly at the periphery.
<b>U</b>	GU SU	Status uncertain, but possibly in peril. More information needed.
<b>H</b>	GH SH	Known only from historical records, but may be rediscovered. A G5 SH species is widespread throughout its range (G5), but historical in New Hampshire (SH).
<b>X</b>	GX SX	Believed to be extinct. May be rediscovered, but evidence indicates that this is less likely than for historical species. A G5 SX species is widespread throughout its range (G5), but extirpated from New Hampshire (SX).

Modifiers are used as follows.

<i>Code</i>	<i>Examples</i>	<i>Description</i>
<b>Q</b>	G5Q GHQ	Questions or problems may exist with the species' or sub-species' taxonomy, so more information is needed.
<b>?</b>	G3? S3?	The rank is uncertain due to insufficient information at the state or global level, so more inventories are needed. When no rank has been proposed the global rank may be "G?" or "G5T?"

When ranks are somewhat uncertain or the species' status appears to fall between two ranks, the ranks may be combined. For example:

G4G5	The species may be globally secure (G5), but appears to be at some risk (G4).
G5T2T3	The species is globally secure (G5), but the sub-species is somewhat imperiled (T2T3).
G4?Q	The species appears to be relatively secure (G4), but more information is needed to confirm this (?). Further, there are questions or problems with the species' taxonomy (Q).
G3G4Q S1S2	The species is globally uncommon (G3G4), and there are questions about its taxonomy (Q). In New Hampshire, the species is very imperiled (S1S2).



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Name	Rank		Listing		Known sites	
	Global	State	Federal	State	<1993	1993+
<i>Acalypha virginica</i> (Virginia three-seeded-Mercury)	G5	SH	--	E	5	-
<i>Acer nigrum</i> (Black Maple)	G5	S2	--	T	4	6
<i>Adlumia fungosa</i> (Allegheny-vine)	G4	S1	--	E	10	9
<i>Agalinis maritima</i> (saltmarsh agalinis)	G5	S1	--	E	4	6
<i>Aletris farinosa</i> (White Colic-root)	G5	SH	--	E	1	-
<i>Allium canadense</i> (meadow garlic)	G5	S1	--	E	3	2
<i>Allium schoenoprasum</i> (wild chives)	G5	S1	--	E	4	3
<i>Amerorchis rotundifolia</i> (round-leaved orchid)	G5	SH	--	E	1	-
<i>Ammophila breviligulata</i> (American beach grass)	G5	S2	--	T	4	6
<i>Anemone cylindrica</i> (long-headed windflower)	G5	SH	--	E	11	-
<i>Anthoxanthum monticola</i> (Alpine Sweet Grass)	G5	S2	--	T	2	7
<i>Arabis pycnocarpa</i> (hairy eared-rockcress)	G5T5	S1	--	E	2	2
<i>Arctous alpina</i> (Alpine Bearberry)	G5	S1	--	E	-	4
<i>Arethusa bulbosa</i> (dragon's-mouth)	G4	S1	--	E	16	5
<i>Argentina anserina</i> (common silverweed)	G5	S1	--	--	1	6
<i>Arisaema dracontium</i> (green-dragon)	G5	S1	--	E	-	2
<i>Aristida longespica</i> var. <i>geniculata</i> (red threeawn)	G5T5?	S1	--	E	3	6
<i>Aristida tuberculosa</i> (seaside threeawn)	G5	S1	--	E	-	2
<i>Arnica lanceolata</i> (lance-leaved arnica)	G3	S2	--	T	3	7
<i>Artemisia campestris</i> ssp. <i>caudata</i> (field wormwood)	G5T5	S1	--	E	1	3
<i>Asclepias amplexicaulis</i> (clasping milkweed)	G5	S2	--	T	7	7
<i>Asclepias purpurascens</i> (Purple Milkweed)	G5?	SH	--	E	4	-
<i>Asclepias quadrifolia</i> (Four-leaved Milkweed)	G5	S1	--	E	5	3
<i>Asclepias tuberosa</i> (butterfly milkweed)	G5?	S1	--	E	7	2
<i>Asplenium rhizophyllum</i> (walking spleenwort)	G5	S1	--	E	5	1
<i>Astragalus alpinus</i> var. <i>brunetianus</i> (Alpine Milk-vetch)	G5T3	SX	--	--	4	-
<i>Astragalus robbinsii</i> var. <i>jesupii</i> (Jesup's milk-vetch)	G5T1	S1	E	E	-	3
<i>Atriplex subspicata</i> (saline orache)	G5	S1	--	E	-	-
<i>Aureolaria virginica</i> (Downy False Foxglove)	G5	S1	--	E	9	6
<i>Barbarea orthoceras</i> (American yellow-rocket)	G5	SH	--	E	1	-
<i>Bartonia iodandra</i> (Purple Screwstem)	G3G5	SH	--	E	1	-
<i>Bartonia paniculata</i> (Twining Screwstem)	G5	S1	--	E	-	1
<i>Betula glandulosa</i> (glandular birch)	G5	S2	--	T	3	6
<i>Betula minor</i> (dwarf birch)	G4Q	S2	--	T	5	7
<i>Betula nigra</i> (River Birch)	G5	S2	--	T	7	3
<i>Betula pumila</i> (bog birch)	G5	S1	--	E	-	1
<i>Bidens beckii</i> (Beck's water-marigold)	G4G5	S2	--	T	5	7
<i>Bidens hyperborea</i> (northern beggar-ticks)	G4	SH	--	E	1	-
<i>Bidens laevis</i> (smooth beggar-ticks)	G5	S1	--	E	1	1
<i>Bistorta vivipara</i> (alpine bistort)	G5	S1	--	E	3	2
<i>Boechera canadensis</i> (sicklepod rockcress)	G5	S2	--	T	3	5
<i>Boechera laevigata</i> (smooth rockcress)	G5	S1	--	E	4	2
<i>Boechera missouriensis</i> (green rockcress)	G5	S2	--	T	8	6
<i>Bromus kalmii</i> (Kalm's brome)	G5	SH	--	E	3	-
<i>Bromus pubescens</i> (hairy wood brome)	G5	S1	--	E	3	3
<i>Calamagrostis canadensis</i> var. <i>langsдорffii</i> (Harsh Bluejoint)	G5T5	S1	--	E	1	1
<i>Calamagrostis cinnoides</i> (Nuttall's reed grass)	G5	S1	--	E	5	1
<i>Calamagrostis stricta</i> ssp. <i>inexpansa</i> (northern neglected reed grass)	G5T5	S2	--	T	9	7
<i>Calamagrostis stricta</i> ssp. <i>stricta</i> (neglected reed grass)	G5T5	SH	--	E	1	-
<i>Calypso bulbosa</i> ssp. <i>americana</i> (Fairy-slipper)	G5T5?	SH	--	E	2	-
<i>Calystegia spithamea</i> (upright false bindweed)	G4G5	S1	--	E	7	1
<i>Cardamine bellidifolia</i> (alpine bitter-cress)	G5	S1	--	E	2	3
<i>Cardamine bulbosa</i> (bulbous bitter-cress)	G5	S1	--	E	4	1



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	Global	State	Federal	State	<1993	1993+
<i>Cardamine concatenata</i> (cut-leaved toothwort)	G5	S1	--	E	5	1
<i>Cardamine longii</i> (Long's bitter-cress)	G3?	SH	--	E	1	-
<i>Cardamine maxima</i> (Large Toothwort)	G5	S2	--	T	1	5
<i>Carex adusta</i> (Swarthy Sedge)	G5	SH	--	E	1	-
<i>Carex aestivalis</i> (Summer Sedge)	G4	S1	--	E	2	1
<i>Carex alata</i> (Broad-winged Sedge)	G5	SH	--	E	2	-
<i>Carex albursina</i> (white bear sedge)	G5	S1	--	E	1	1
<i>Carex arctogena</i> (capitate sedge)	G5T4?	S1	--	E	-	2
<i>Carex atratiformis</i> (scabrous black sedge)	G5	S1	--	E	2	1
<i>Carex aurea</i> (Golden-fruited Sedge)	G5	S2	--	T	4	7
<i>Carex backii</i> (Back's Sedge)	G4	S1	--	E	11	3
<i>Carex baileyi</i> (Bailey's Sedge)	G4	S2	--	T	4	7
<i>Carex bigelowii</i> (Bigelow's Sedge)	G5	S2	--	T	3	10
<i>Carex bullata</i> (button sedge)	G5	S1	--	E	3	2
<i>Carex buxbaumii</i> (brown bog sedge)	G5	S1	--	E	-	1
<i>Carex capillaris</i> ssp. <i>fuscidula</i> (Hair-like Sedge)	G5TNR	S1	--	E	1	1
<i>Carex castanea</i> (Chestnut Sedge)	G5	S1	--	E	1	2
<i>Carex cephaloidea</i> (Thin-leaved Sedge)	G5	S2	--	T	4	1
<i>Carex chordorrhiza</i> (rope-root sedge)	G5	S1	--	E	-	3
<i>Carex cristatella</i> (crested sedge)	G5	S1	--	E	7	5
<i>Carex cumulata</i> (clustered sedge)	G4?	S2	--	T	7	12
<i>Carex diandra</i> (lesser tussock sedge)	G5	S2	--	T	3	6
<i>Carex eburnea</i> (bristle-leaved sedge)	G5	S1	--	E	1	1
<i>Carex exilis</i> (meager sedge)	G5	S1	--	E	3	4
<i>Carex festucacea</i> (Fescue Sedge)	G5	SH	--	E	1	-
<i>Carex garberi</i> (elk sedge)	G5	S2	--	T	-	7
<i>Carex glaucodea</i> (blue sedge)	G5T5	S1	--	E	1	1
<i>Carex granularis</i> (limestone-meadow sedge)	G5	S1	--	E	2	4
<i>Carex hitchcockiana</i> (Hitchcock's Sedge)	G5	S1	--	E	-	1
<i>Carex livida</i> (Livid Sedge)	G5	S1	--	E	-	1
<i>Carex molesta</i> (Troublesome Sedge)	G4	SH	--	E	1	-
<i>Carex nigra</i> (smooth black sedge)	G5	S1	--	E	9	2
<i>Carex polymorpha</i> (variable sedge)	G3	S1	--	E	1	1
<i>Carex retroflexa</i> (Reflexed Sedge)	G5	S1	--	E	2	2
<i>Carex rostrata</i> (beaked sedge)	G5	S1	--	E	1	2
<i>Carex scirpoidea</i> (Canadian single-spike sedge)	G5	S2	--	T	8	5
<i>Carex seorsa</i> (weak stellate sedge)	G4	S1	--	E	-	3
<i>Carex siccata</i> (dry land sedge)	G5	S1	--	E	3	2
<i>Carex sparganioides</i> (bur-reed sedge)	G5	S1	--	E	3	2
<i>Carex striata</i> (Walter's Sedge)	G4G5	S1	--	E	-	1
<i>Carex tenuiflora</i> (sparse-flowered sedge)	G5	S1	--	E	-	1
<i>Carex tetanica</i> (Rigid Sedge)	G4G5	SX	--	--	1	-
<i>Carex trichocarpa</i> (Hairy-fruited Sedge)	G4	S1	--	E	1	2
<i>Carex umbellata</i> (parasol sedge)	G5	S1	--	E	11	1
<i>Carex wiegandii</i> (Wiegand's Sedge)	G4	S1	--	E	2	5
<i>Castilleja coccinea</i> (Scarlet Painted-cup)	G5	SX	--	--	2	-
<i>Castilleja septentrionalis</i> (northern painted-cup)	G5	S1	--	E	4	4
<i>Cenchrus longispinus</i> (long-spined sandbur)	G5	S1	--	E	10	1
<i>Chamaecrista nictitans</i> (wild sensitive-pea)	G5	SH	--	E	1	-
<i>Chenopodium foggii</i> (Fogg's Goosefoot)	G2G3	S1	--	E	4	1
<i>Chenopodium rubrum</i> (red goosefoot)	G5	S1	--	E	5	1
<i>Cirsium horridulum</i> (Yellow Thistle)	G5	SH	--	E	3	-
<i>Clematis occidentalis</i> (purple virgin's-bower)	G5	S1	--	E	23	2
<i>Coleataenia longifolia</i> ssp. <i>longifolia</i> (Long-leaved Redtop-panicgrass)	G5T5?	SH	--	E	1	-





Name	Rank		Listing		Known sites	
	Global	State	Federal	State	<1993	1993+
<i>Collinsonia canadensis</i> (northern horsebalm)	G5	SH	--	E	2	-
<i>Corallorhiza odontorhiza</i> (fall coral-root)	G5	S1	--	E	1	3
<i>Corydalis aurea</i> (Golden Corydalis)	G5	SH	--	E	2	-
<i>Crassula aquatica</i> (pygmy-weed)	G5	S1	--	E	2	2
<i>Crataegus faxonii</i> (Faxon's Hawthorn)	G5	S1	--	--	-	1
<i>Crataegus oakesiana</i> (Oakes' hawthorn)	GNR	S1	--	E	-	-
<i>Crataegus populnea</i> (Poplar Hawthorn)	GNRQ	SH	--	--	2	-
<i>Crotalaria sagittalis</i> (arrow-head rattlebox)	G5	SH	--	E	1	-
<i>Cryptogramma stelleri</i> (slender rock-brake)	G5	S1	--	E	3	3
<i>Cuscuta cephalanthi</i> (Buttonbush Dodder)	G5	S1	--	--	-	1
<i>Cynoglossum virginianum</i> ssp. <i>boreale</i> (wild hound's-tongue)	G5T4T5	S1	--	E	5	3
<i>Cyperus erythrorhizos</i> (red-root umbrella sedge)	G5	S1	--	E	1	2
<i>Cyperus grayi</i> (Gray's Umbrella Sedge)	G5	S1	--	E	-	1
<i>Cyperus houghtonii</i> (Houghton's Umbrella Sedge)	G4?	S1	--	E	6	-
<i>Cyperus squarrosus</i> (Incurved Umbrella Sedge)	G5	S1	--	E	5	5
<i>Cypripedium arietinum</i> (ram's-head lady's-slipper)	G3	S1	--	E	10	3
<i>Cypripedium parviflorum</i> var. <i>makasin</i> (greater yellow lady's-slipper)	G5T4Q	S1	--	E	9	1
<i>Cypripedium parviflorum</i> var. <i>pubescens</i> (large yellow lady's-slipper)	G5T5	S2	--	T	12	8
<i>Cypripedium reginae</i> (showy lady's-slipper)	G4	S1	--	E	3	4
<i>Desmodium cuspidatum</i> (large-bracted tick-trefoil)	G5	SH	--	E	3	-
<i>Desmodium marilandicum</i> (smooth small-leaved tick-trefoil)	G5	S1	--	E	2	2
<i>Desmodium obtusum</i> (stiff tick-trefoil)	G4G5	SH	--	E	2	-
<i>Desmodium rotundifolium</i> (round-leaved trailing tick-trefoil)	G5	S2	--	T	5	7
<i>Diapensia lapponica</i> (Diapensia)	G5	S2	--	T	4	12
<i>Dichanthelium sphaerocarpon</i> (round-fruited rosette-panicgrass)	G5	S1	--	E	1	1
<i>Digitaria filiformis</i> var. <i>filiformis</i> (Slender Crabgrass)	G5TNR	SH	--	E	3	-
<i>Digitaria filiformis</i> var. <i>laevigulmis</i> (smooth slender crabgrass)	G5TNR	SH	--	E	1	-
<i>Diphasiastrum sitchense</i> (Sitka ground-cedar)	G5	S1	--	E	4	1
<i>Diplazium pycnocarpon</i> (narrow-leaved glade fern)	G5	S1	--	E	3	3
<i>Draba cana</i> (Canescent Whitlow-mustard)	G5	S1	--	E	-	1
<i>Dryopteris filix-mas</i> ssp. <i>brittonii</i> (male wood fern)	G5T4?	S1	--	E	-	1
<i>Dryopteris fragrans</i> (fragrant wood fern)	G5	S2	--	T	5	10
<i>Echinochloa walteri</i> (Coast Barnyard Grass)	G5	SH	--	E	1	-
<i>Elatine americana</i> (American Waterwort)	G4	SH	--	E	2	-
<i>Eleocharis diandra</i> (Wright's spikesedge)	G1G2	SH	--	E	3	-
<i>Eleocharis erythropoda</i> (red-footed spikesedge)	G5	S1	--	E	3	1
<i>Eleocharis intermedia</i> (mudflat spikesedge)	G5	S1	--	E	3	1
<i>Eleocharis nitida</i> (quill spikesedge)	G4	SH	--	E	2	-
<i>Eleocharis obtusa</i> var. <i>peasei</i> (Pease's blunt spikesedge)	G5TNR	SH	--	--	1	-
<i>Eleocharis ovata</i> (ovoid spikesedge)	G5	SH	--	E	12	-
<i>Eleocharis parvula</i> (little-headed spikesedge)	G5	S2	--	T	9	14
<i>Eleocharis quinqueflora</i> ssp. <i>feraldii</i> (few-flowered spikesedge)	G5TNRQ	S1	--	E	4	2
<i>Eleocharis tuberculosa</i> (long-tubercled spikesedge)	G5	SH	--	E	5	-
<i>Eleocharis uniglumis</i> (one-glumed spikesedge)	G5?	S2	--	T	4	8
<i>Elymus macgregorii</i> (early wild-rye)	GNR	S1	--	E	-	-
<i>Epilobium anagallidifolium</i> (pimpernel willow-herb)	G5	SH	--	E	2	-
<i>Epilobium hornemannii</i> (Hornemann's willow-herb)	G5	S2	--	T	7	7
<i>Epilobium lactiflorum</i> (white-flowered willow-herb)	G5	SH	--	E	1	-
<i>Equisetum palustre</i> (Marsh Horsetail)	G5	S1	--	E	10	2
<i>Eragrostis frankii</i> (sandbar lovegrass)	G5	SH	--	E	2	-
<i>Eragrostis hypnoides</i> (teel lovegrass)	G5	SH	--	E	1	-
<i>Eriophorum angustifolium</i> (tall cottonsedge)	G5	S1	--	E	1	3
<i>Eupatorium pubescens</i> (hairy thoroughwort)	G5T5	S1	--	E	1	1
<i>Eupatorium sessilifolium</i> (upland thoroughwort)	G5	SH	--	E	2	-



Name	Rank		Listing		Known sites	
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<i>Euphorbia polygonifolia</i> (seaside sandmat)	G5?	SH	--	--	5	-
<i>Euphrasia oakesii</i> (Oakes' Eyebright)	G4	S1	--	E	-	2
<i>Euthamia caroliniana</i> (coastal plain grass-leaved-goldenrod)	G5	S2	--	T	1	12
<i>Eutrochium fistulosum</i> (hollow Joe-Pye weed)	G5?	S1	--	E	6	4
<i>Festuca prolifera</i> (Proliferous Fescue)	GU	S1	--	E	1	1
<i>Galearis spectabilis</i> (showy orchid)	G5	S2	--	T	5	11
<i>Galium brevipes</i> (Limestone Swamp Bedstraw)	G4?	S1	--	E	-	-
<i>Galium obtusum</i> (blunt-leaved bedstraw)	G5	SH	--	E	2	-
<i>Galium pilosum</i> (Hairy Bedstraw)	G5	SH	--	E	4	-
<i>Gaylussacia bigeloviana</i> (Dwarf Huckleberry)	G5T4T5	S2	--	T	8	3
<i>Gentianella quinquefolia</i> (stiff dwarf-gentian)	G5	S1	--	E	6	1
<i>Gentianopsis crinita</i> (greater fringed-gentian)	G5	S2	--	T	20	8
<i>Geocaulon lividum</i> (false toadflax)	G5	S1	--	E	6	5
<i>Geranium carolinianum</i> (Carolina Crane's-bill)	G5	S1	--	E	3	2
<i>Geum fragarioides</i> (Appalachian barren-strawberry)	G5T5	S2	--	T	5	7
<i>Geum peckii</i> (White Mountain avens)	G2	S2	--	T	2	16
<i>Glyceria acutiflora</i> (sharp-flowered manna grass)	G5	S1	--	E	7	2
<i>Glyceria septentrionalis</i> (floating manna grass)	G5	S1	--	E	-	-
<i>Grappheporum melicoides</i> (grappheporum)	G4	SH	--	E	2	-
<i>Hackelia deflexa</i> ssp. <i>americana</i> (Nodding Stickseed)	G5T5	SH	--	E	1	-
<i>Hackelia virginiana</i> (Virginia stickseed)	G5	S1	--	E	12	10
<i>Halenia deflexa</i> (American spurred-gentian)	G5	S2	--	T	1	6
<i>Harrimanella hypnoides</i> (Moss-plant)	G5	S1	--	E	1	4
<i>Heteranthera dubia</i> (grass-leaved mud-plantain)	G5	S2	--	T	2	10
<i>Hibiscus moscheutos</i> (swamp rose-mallow)	G5	S1	--	E	-	2
<i>Hieracium robinsonii</i> (Robinson's Hawkweed)	G2G3	S1	--	E	-	1
<i>Hieracium umbellatum</i> (narrow-leaved hawkweed)	G5	S1	--	E	-	1
<i>Hippuris vulgaris</i> (common mare's-tail)	G5	S2	--	T	2	8
<i>Honckenya peploides</i> ssp. <i>robusta</i> (seaside-sandwort)	G5T4	SX	--	--	1	-
<i>Hottonia inflata</i> (American featherfoil)	G4	S1	--	E	1	6
<i>Houstonia longifolia</i> (long-leaved bluet)	G4G5	S1	--	E	1	2
<i>Hudsonia ericoides</i> (Golden Heather)	G4	S1	--	E	7	3
<i>Hudsonia tomentosa</i> (Hairy Hudsonia)	G5	S2	--	T	3	14
<i>Huperzia appressa</i> (Mountain Firmoss)	G4G5	S1	--	E	11	3
<i>Huperzia selago</i> (Northern Firmoss)	G5	SH	--	E	3	-
<i>Hydrophyllum virginianum</i> (eastern waterleaf)	G5	S2	--	T	3	13
<i>Hypericum ascyron</i> (Great St. John's-wort)	G4	S1	--	E	4	3
<i>Hypoxis hirsuta</i> (common star-grass)	G5	S2	--	T	10	6
<i>Ilex glabra</i> (evergreen winterberry)	G5	SH	--	E	1	-
<i>Iris prismatica</i> (slender blue iris)	G4G5	S1	--	E	8	3
<i>Isoetes acadiensis</i> (Acadian Quillwort)	G3Q	SH	--	E	3	-
<i>Isoetes engelmannii</i> (Engelmann's Quillwort)	G4	S1	--	E	14	1
<i>Isoetes lacustris</i> (lake quillwort)	G5	SH	--	E	5	-
<i>Isoetes riparia</i> var. <i>canadensis</i> (Canada shore quillwort)	G5?TNRQ	S1	--	E	12	3
<i>Isotria medeoloides</i> (Small Whorled Pogonia)	G2	S2	T	T	13	38
<i>Isotria verticillata</i> (Large Whorled Pogonia)	G5	S1	--	E	2	2
<i>Iva frutescens</i> (Marsh Elder)	G5	S2	--	T	2	9
<i>Juncus alpinoarticulatus</i> ssp. <i>americanus</i> (northern green rush)	G5T5	S1	--	E	-	1
<i>Juncus brachycephalus</i> (small-headed rush)	G5	SH	--	E	6	-
<i>Juncus dichotomus</i> (forked rush)	G5	SH	--	E	1	-
<i>Juncus secundus</i> (lopsided rush)	G5?	SH	--	E	6	-
<i>Juncus stygius</i> ssp. <i>americanus</i> (Moor Rush)	G5T5	S1	--	E	-	1
<i>Juniperus horizontalis</i> (Creeping Juniper)	G5	S1	--	E	-	2
<i>Kalmia procumbens</i> (alpine-azalea)	G5	S2	--	T	2	2



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<i>Lechea tenuifolia</i> (narrow-leaved pinweed)	G5	S1	--	E	2	2
<i>Lemna trisulca</i> (ivy-leaved duckweed)	G5	S1	--	E	3	2
<i>Lemna valdiviana</i> (Pale Duckweed)	G5	SH	--	E	4	-
<i>Leptochloa fusca</i> ssp. <i>fascicularis</i> (bearded sprangletop)	G5T5	SH	--	E	1	-
<i>Lespedeza procumbens</i> (Trailing Bush-clover)	G5	S1	--	E	2	1
<i>Lespedeza virginica</i> (Slender Bush-clover)	G5	S1	--	E	4	3
<i>Leymus mollis</i> (American lyme grass)	G5	S1	--	E	1	1
<i>Liatris novae-angliae</i> (Northern Blazing Star)	G5?T3	S1	--	E	9	7
<i>Lilaeopsis chinensis</i> (eastern grasswort)	G5	S1	--	E	3	1
<i>Lilium superbum</i> (Turk's-cap lily)	G5	S1	--	E	-	1
<i>Limosella australis</i> (Atlantic mudwort)	G4G5	S1	--	E	1	1
<i>Lindernia dubia</i> var. <i>anagallidea</i> (unpretentious yellow-seeded false pimpernel)	G5T4	S1	--	E	2	2
<i>Linum sulcatum</i> (Grooved Yellow Flax)	G5	SH	--	E	1	-
<i>Liparis loeselii</i> (Loesel's wide-lipped orchid)	G5	S2	--	T	19	6
<i>Lipocarpha micrantha</i> (small-flowered dwarf-bulrush)	G5	SH	--	E	3	-
<i>Lobelia kalmii</i> (brook lobelia)	G5	S2	--	T	8	10
<i>Lobelia siphilitica</i> (Great Lobelia)	G5T5	S1	--	E	-	1
<i>Lupinus perennis</i> (Wild Lupine)	G5	S2	--	T	12	17
<i>Luzula confusa</i> (northern wood rush)	G5	SH	--	E	3	-
<i>Luzula spicata</i> (spiked wood rush)	G5	S1	--	E	6	2
<i>Lycopodiella alopecuroides</i> (Foxtail Bog-clubmoss)	G5	S1	--	--	-	1
<i>Lycopodiella appressa</i> (appressed bog-clubmoss)	G5	S1	--	E	1	1
<i>Lygodium palmatum</i> (American climbing fern)	G4	S1	--	E	3	2
<i>Lysimachia thysiflora</i> (tufted yellow-loosestrife)	G5	S2	--	T	4	6
<i>Malaxis monophyllos</i> ssp. <i>brachypoda</i> (white adder's-mouth)	G4Q	SH	--	E	3	-
<i>Malaxis unifolia</i> (green adder's-mouth)	G5	S2	--	T	45	11
<i>Menispermum canadense</i> (Canada moonseed)	G5	SH	--	E	1	-
<i>Mertensia maritima</i> (seaside bluebells)	G5	SX	--	--	1	-
<i>Mikania scandens</i> (climbing hempvine)	G5	S1	--	E	4	7
<i>Mimulus moschatus</i> (musky monkey-flower)	G5	S1	--	E	2	3
<i>Minuartia glabra</i> (Appalachian sandplant)	G4	S1	--	E	3	5
<i>Minuartia michauxii</i> (Michaux's sandplant)	G5	S1	--	E	1	2
<i>Muhlenbergia sobolifera</i> (rock muhly)	G5	S1	--	E	4	1
<i>Muhlenbergia tenuiflora</i> (slender muhly)	G5	SH	--	E	3	-
<i>Nabalus boottii</i> (Boott's rattlesnake-root)	G2	S1	--	E	-	6
<i>Nabalus serpentarius</i> (lion's-foot rattlesnake-root)	G5	SH	--	E	3	-
<i>Neottia auriculata</i> (Auricled Twayblade)	G3G4	S1	--	E	4	4
<i>Neottia convallarioides</i> (Broad-leaved Twayblade)	G5	S2	--	T	9	14
<i>Neottia cordata</i> (Heart-leaved Twayblade)	G5	S2	--	T	16	7
<i>Nuphar microphylla</i> (small-leaved pond-lily)	G5T4T5	SH	--	E	2	-
<i>Oligoneuron album</i> (white flat-topped-goldenrod)	G5	S1	--	E	-	2
<i>Omalotheca supina</i> (alpine arctic-cudweed)	G5	S1	--	E	2	1
<i>Ophioglossum pusillum</i> (northern adder's-tongue fern)	G5	S1	--	E	1	3
<i>Osmorhiza berteroi</i> (mountain sweet-cicely)	G5	S1	--	E	17	5
<i>Oxyria digyna</i> (mountain-sorrel)	G5	S1	--	E	-	2
<i>Packera obovata</i> (running groundsel)	G5	S1	--	E	2	1
<i>Packera paupercula</i> (balsam groundsel)	G5	S2	--	T	4	8
<i>Panax quinquefolius</i> (American ginseng)	G3G4	S2	--	T	12	65
<i>Panicum philadelphicum</i> (Philadelphia panicgrass)	G5	SH	--	E	8	-
<i>Parnassia glauca</i> (fen grass-of-Parnassus)	G5	S2	--	T	1	6
<i>Paronychia argyrocoma</i> (Silverling)	G4	S2	--	T	3	18
<i>Paronychia canadensis</i> (smooth forked whitlow-wort)	G5	S1	--	E	4	4
<i>Pellaea atropurpurea</i> (purple cliff-brake)	G5	S1	--	E	-	1



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<i>Persicaria robustior</i> (stout dotted smartweed)	G4G5	S1	--	E	4	2
<i>Petasites frigidus</i> var. <i>palmatus</i> (northern sweet-coltfoot)	G5T5	S1	--	E	5	4
<i>Phleum alpinum</i> (mountain Timothy)	G5	S1	--	E	2	3
<i>Phragmites americanus</i> (American Reed)	G5T4	S1	--	--	-	1
<i>Phyllodoce caerulea</i> (purple mountain-heath)	G5	S2	--	T	1	6
<i>Pilea fontana</i> (Lesser Clearweed)	G5	S1	--	--	-	1
<i>Pinguicula vulgaris</i> (violet butterwort)	G5	S1	--	E	2	1
<i>Pinus banksiana</i> (Jack Pine)	G5	S2	--	T	2	6
<i>Piptatherum canadense</i> (Canada mountain-rice grass)	G5	S1	--	E	4	2
<i>Platanthera flava</i> var. <i>herbiola</i> (northern tuberclad bog-orchid)	G4?T4Q	S1	--	E	6	5
<i>Pluchea odorata</i> var. <i>succulenta</i> (sweet-scented camphorweed)	G5T3T5	S1	--	E	-	2
<i>Poa glauca</i> (glaucous blue grass)	G5	SH	--	E	6	-
<i>Poa laxa</i> ssp. <i>fernaldiana</i> (wavy blue grass)	G5?T3	S1	--	E	5	2
<i>Poa pratensis</i> ssp. <i>alpigena</i> (alpine Kentucky blue grass)	G5T5	S1	--	E	3	1
<i>Polygala cruciata</i> ssp. <i>aquilonia</i> (Drum-heads Milkwort)	G5T4	SH	--	E	3	-
<i>Polygonum douglasii</i> (Douglas' Knotweed)	G5	S2	--	T	2	10
<i>Polygonum erectum</i> (upright knotweed)	G5	SH	--	E	3	-
<i>Polygonum ramosissimum</i> ssp. <i>prolificum</i> (prolific yellow-flowered knotweed)	G5T4T5	S1	--	E	8	2
<i>Polygonum tenue</i> (Slender Knotweed)	G5	S1	--	E	2	3
<i>Potamogeton alpinus</i> (reddish pondweed)	G5	S1	--	E	6	1
<i>Potamogeton foliosus</i> (Leafy Pondweed)	G5	SH	--	E	5	-
<i>Potamogeton gemmiparus</i> (Budding Pondweed)	G5T3	SH	--	E	6	-
<i>Potamogeton nodosus</i> (long-leaved pondweed)	G5	S2	--	T	8	16
<i>Potamogeton obtusifolius</i> (blunt-leaved pondweed)	G5	SH	--	E	4	-
<i>Potamogeton praelongus</i> (white-stemmed pondweed)	G5	SH	--	E	1	-
<i>Potamogeton richardsonii</i> (Richardson's Pondweed)	G5	SH	--	--	1	-
<i>Potamogeton vaseyi</i> (Vasey's Pondweed)	G4	S1	--	E	8	5
<i>Potamogeton zosteriformis</i> (flat-stem pondweed)	G5	S1	--	E	6	5
<i>Potentilla litoralis</i> (coast cinquefoil)	G5T4T5	SH	--	E	2	-
<i>Potentilla robbinsiana</i> (Robbins' cinquefoil)	G1	S1	--	E	-	2
<i>Proserpinaca pectinata</i> (comb-leaved mermaid-weed)	G5	SH	--	E	3	-
<i>Pseudognaphalium micradenium</i> (Weatherby's rabbit-tobacco)	G4G5T3?	SH	--	E	1	-
<i>Pterospora andromedea</i> (pine-drops)	G5	S1	--	E	2	1
<i>Puccinellia pumila</i> (Tundra Alkali Grass)	G4G5	S1	--	E	5	2
<i>Pycnanthemum incanum</i> (hoary mountain-mint)	G5	S1	--	E	2	3
<i>Pycnanthemum torrei</i> (Torrey's mountain-mint)	G2	SH	--	E	1	-
<i>Pycnanthemum virginianum</i> (Virginia mountain-mint)	G5	S1	--	E	2	1
<i>Pyrola asarifolia</i> (pink shinleaf)	G5	S1	--	E	6	3
<i>Quercus macrocarpa</i> (Mossy-cup Oak)	G5	S1	--	E	1	1
<i>Ranunculus ambigens</i> (water-plantain crowfoot)	G4	S1	--	E	2	1
<i>Ranunculus fascicularis</i> (early crowfoot)	G5	S1	--	E	1	3
<i>Rhinanthus minor</i> ssp. <i>groenlandicus</i> (Greenland little yellow-rattle)	G5T5?	S1	--	E	3	1
<i>Rhododendron lapponicum</i> (Lapland Rosebay)	G5	S1	--	E	-	1
<i>Rhododendron maximum</i> (Giant Rhododendron)	G5	S2	--	T	8	5
<i>Rhododendron periclymenoides</i> (Pink Azalea)	G5	SH	--	E	1	-
<i>Rhynchospora capillacea</i> (needle beaksedge)	G4	S1	--	E	-	1
<i>Rosa acicularis</i> ssp. <i>sayi</i> (bristly rose)	G5T5	S1	--	E	1	1
<i>Rotala ramosior</i> (toothcup)	G5	SH	--	E	1	-
<i>Rubus chamaemorus</i> (baked-apple-berry)	G5	S2	--	T	2	7
<i>Rubus cuneifolius</i> (sand blackberry)	G5	S1	--	E	-	1
<i>Rumex pallidus</i> (seabeach dock)	G4	S1	--	E	-	1
<i>Sagina nodosa</i> ssp. <i>borealis</i> (boreal knotted pearlwort)	G5T5	SH	--	E	1	-
<i>Sagittaria cuneata</i> (northern arrowhead)	G5	S1	--	E	10	2



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<i>Sagittaria montevidensis</i> ssp. <i>spongiosa</i> (Spongy-leaved Arrowhead)	G5T4	S1	--	E	1	1
<i>Sagittaria rigida</i> (Sessile-fruited Arrowhead)	G5	SH	--	E	7	-
<i>Sagittaria teres</i> (quill-leaved arrowhead)	G3	S1	--	E	-	1
<i>Salicornia ambigua</i> (Perennial Glasswort)	GNR	S1	--	E	3	1
<i>Salicornia bigelovii</i> (Dwarf Glasswort)	G5	S1	--	E	2	5
<i>Salix argyrocarpa</i> (Labrador willow)	G4	S1	--	E	-	2
<i>Salix exigua</i> ssp. <i>interior</i> (Sandbar Willow)	G5	S1	--	E	2	5
<i>Salix herbacea</i> (snow-bed willow)	G5	S1	--	E	1	3
<i>Salix pedicellaris</i> (Bog Willow)	G5?	S2	--	--	-	-
<i>Salix pellita</i> (satiny willow)	G5	S1	--	E	15	1
<i>Salix planifolia</i> (Tea-leaved Willow)	G5	S2	--	T	1	6
<i>Salix uva-ursi</i> (Bearberry Willow)	G5	S2	--	T	-	6
<i>Samolus valerandi</i> ssp. <i>parviflorus</i> (seaside brookweed)	G5T5	S1	--	E	3	2
<i>Sanicula canadensis</i> (Canada sanicle)	G5	SH	--	E	2	-
<i>Sanicula odorata</i> (clustered sanicle)	G5	S1	--	E	7	2
<i>Sanicula trifoliata</i> (large-fruited sanicle)	G4	S2	--	T	7	9
<i>Saxifraga cernua</i> (Nodding Saxifrage)	G4	S1	--	E	-	1
<i>Saxifraga paniculata</i> ssp. <i>neogaea</i> (white mountain saxifrage)	G5T5?	S1	--	E	-	2
<i>Saxifraga rivularis</i> (alpine-brook saxifrage)	G5?	S1	--	E	-	2
<i>Scirpus ancistrochaetus</i> (Northeastern Bulrush)	G3	S1	E	E	-	7
<i>Scirpus georgianus</i> (Georgia Bulrush)	G5	S1	--	E	1	2
<i>Scirpus longii</i> (Long's Bulrush)	G2G3	S1	--	E	-	2
<i>Scirpus pendulus</i> (rufous bulrush)	G5	S1	--	E	4	1
<i>Scirpus polyphyllus</i> (Leafy Bulrush)	G5	SH	--	E	3	-
<i>Scleria pauciflora</i> var. <i>pauciflora</i> (Few-flowered Nutsedge)	G5T5?	SH	--	E	1	-
<i>Scleria reticularis</i> (Netted Nutsedge)	G4	S1	--	E	-	1
<i>Sclerolepis uniflora</i> (Sclerolepis)	G4	S1	--	E	-	1
<i>Senna hebecarpa</i> (northern wild senna)	G5	S1	--	E	9	1
<i>Sericocarpus linifolius</i> (narrow-leaved white-topped-aster)	G5	S1	--	E	4	1
<i>Sibbaldia procumbens</i> (Sibbaldia)	G5	S1	--	E	-	1
<i>Silene acaulis</i> (Moss Champion)	G5	S1	--	E	3	1
<i>Silene caroliniana</i> ssp. <i>pensylvanica</i> (Wild Champion)	G5T4T5	SH	--	E	1	-
<i>Sisyrinchium mucronatum</i> (needle-tipped blue-eyed-grass)	G5	SH	--	E	1	-
<i>Solidago leiocarpa</i> (Cutler's Goldenrod)	G4	S2	--	T	4	5
<i>Solidago odora</i> (licorice goldenrod)	G5	S1	--	E	13	8
<i>Solidago patula</i> (rough-leaved goldenrod)	G5	SH	--	E	1	-
<i>Solidago speciosa</i> (Showy Goldenrod)	G5T5?	S1	--	E	-	1
<i>Sparganium androcladum</i> (branched bur-reed)	G4G5	SH	--	E	2	-
<i>Sparganium eurycarpum</i> (great bur-reed)	G5	S2	--	T	6	14
<i>Sparganium natans</i> (arctic bur-reed)	G5	S2	--	T	-	-
<i>Sphagnum andersonianum</i> (Peat Moss)	G3?	S2	--	T	-	1
<i>Sphagnum angermanicum</i> (Peat Moss)	G3G4	S1	--	E	-	1
<i>Sphagnum brevifolium</i> (Peat Moss)	G5T4T5	SH	--	E	1	-
<i>Sphagnum contortum</i> (Peat Moss)	G5	S2	--	T	3	7
<i>Sphagnum flavicomans</i> (Peat Moss)	G3	S1	--	E	-	3
<i>Sphagnum lindbergii</i> (Peat Moss)	G5?	S1	--	E	-	2
<i>Sphagnum majus</i> ssp. <i>norvegicum</i> (Peat Moss)	G5?TNR	S2	--	T	-	1
<i>Sphagnum pylaesii</i> (Peat Moss)	G4	S2	--	T	1	1
<i>Sphagnum riparium</i> (Peat Moss)	G5	S2	--	T	1	3
<i>Sphagnum subfulvum</i> (Peat Moss)	GNR	SH	--	E	1	-
<i>Sphagnum wulfianum</i> (Peat Moss)	G5	S2	--	T	-	1
<i>Sphenopholis obtusata</i> (prairie wedgescale)	G5	SH	--	E	2	-
<i>Spiranthes casei</i> (Case's ladies'-tresses)	G4	S1	--	E	3	1
<i>Spiranthes lucida</i> (shining ladies'-tresses)	G5	S1	--	E	2	4



Name	Rank		Listing		Known sites	
	Global	State	Federal	State	<1993	1993+
<i>Sporobolus cryptandrus</i> (Sand Dropseed)	G5	S1	--	E	3	1
<i>Sporobolus neglectus</i> (Small Dropseed)	G5	SH	--	E	3	-
<i>Staphylea trifolia</i> (American bladdernut)	G5	S2	--	T	-	6
<i>Stuckenia filiformis</i> (thread-leaved false pondweed)	G5	SH	--	E	2	-
<i>Stuckenia pectinata</i> (Sago false pondweed)	G5	S1	--	E	7	2
<i>Suaeda calceoliformis</i> (American sea-blite)	G5	S1	--	E	-	-
<i>Suaeda maritima</i> ssp. <i>richii</i> (Rich's herbaceous sea-blite)	G5T3	S1	--	E	-	1
<i>Subularia aquatica</i> ssp. <i>americana</i> (American water-awwort)	G5T5	S1	--	E	4	1
<i>Symphotrichum ciliolatum</i> (Lindley's American-aster)	G5	S2	--	T	7	5
<i>Symphotrichum patens</i> (late purple American-aster)	G5	S2	--	T	5	6
<i>Symphotrichum tenuifolium</i> (perennial saltmarsh American-aster)	G5	S1	--	E	2	4
<i>Tephrosia virginiana</i> (wild goat's-rue)	G5	S1	--	E	5	2
<i>Thalictrum revolutum</i> (waxy-leaved meadow-rue)	G5	S1	--	--	1	1
<i>Thalictrum thalictroides</i> (anemone meadow-rue)	G5	S1	--	E	4	2
<i>Triantha glutinosa</i> (Sticky False Asphodel)	G4G5	S1	--	E	-	4
<i>Trichomanes intricatum</i> (Appalachian bristle fern)	G4G5	SH	--	E	2	-
<i>Trichophorum planifolium</i> (Bashful Clubsedge)	G4G5	S1	--	E	-	3
<i>Triosteum aurantiacum</i> (orange-fruited horse-gentian)	G5	S1	--	E	1	1
<i>Triphora trianthophora</i> (Three-birds Orchid)	G3G4	S2	--	T	9	13
<i>Triplasis purpurea</i> (purple sandgrass)	G4G5	SH	--	E	1	-
<i>Utricularia resupinata</i> (resupinate bladderwort)	G4	SH	--	E	15	-
<i>Uvularia grandiflora</i> (Large-flowered Bellwort)	G5	S1	--	E	2	5
<i>Uvularia perfoliata</i> (Perfoliate Bellwort)	G5	S1	--	E	1	1
<i>Vaccinium boreale</i> (northern blueberry)	G4	S2	--	T	5	12
<i>Vaccinium cespitosum</i> (dwarf blueberry)	G5	S2	--	T	11	5
<i>Vahlodea atropurpurea</i> (arctic hair grass)	G5	S1	--	E	7	1
<i>Valeriana uliginosa</i> (Marsh Valerian)	G4Q	SH	--	E	1	-
<i>Veronica wormskjoldii</i> (American alpine speedwell)	G4G5	S1	--	E	1	3
<i>Viburnum rafinesquianum</i> (Downy Arrowwood)	G5	S1	--	E	4	3
<i>Viola nephrophylla</i> (northern bog violet)	G5	SH	--	E	8	-
<i>Viola palmata</i> (Palmate Violet)	G5	S1	--	E	4	1
<i>Viola palustris</i> (northern marsh violet)	G5	S2	--	T	1	5
<i>Viola pedata</i> (bird-foot violet)	G5	S2	--	T	6	9
<i>Vulpia octoflora</i> var. <i>tenella</i> (Eight-flowered Six-weeks Grass)	G5TNR	SH	--	E	5	-
<i>Woodsia glabella</i> (smooth cliff fern)	G5	S1	--	E	2	2
<i>Woodsia obtusa</i> (blunt-lobed cliff fern)	G5	S1	--	E	4	5
<i>Woodwardia areolata</i> (Netted Chain Fern)	G5	S1	--	E	3	1
<i>Zannichellia palustris</i> (horned-pondweed)	G5	S1	--	E	4	1
<i>Zanthoxylum americanum</i> (common prickly-ash)	G5	SH	--	E	1	-

**Rank Prefix:**

G = Global Rank  
 S = State Rank  
 T = Global or State Rank for  
 a subspecies or variety

**Rank Suffix:**

1 = Critically imperiled  
 2 = Imperiled  
 3 = Vulnerable  
 4 = Apparently secure  
 5 = Secure

H = Occurred historically, not seen recently  
 X = Extirpated

NR / U = Not ranked / Unknown  
 Q = Questionable taxonomy  
 ? = Uncertain

**Listing Codes:**

E = Endangered  
 T = Threatened

## Rare Species Occurrence Record

Please fill out this form to report the location of a rare plant or animal species to the New Hampshire Natural Heritage Bureau. Required information is indicated by an asterisk; other items are desirable but not required. Rare species lists are at: [www.dred.state.nh.us/divisions/forestandlands/bureaus/naturalheritage/listsforms.htm](http://www.dred.state.nh.us/divisions/forestandlands/bureaus/naturalheritage/listsforms.htm). Call (603) 271-2214 with any questions. Thank you!

If sent to NHB as a Word document, use the naming convention "Name Town Mon dd", where "Name" = what was seen (common or scientific) and town, month & day are where & when it was seen, e.g., "Loon Squam Aug 12" or "Scirpus longii Derry Sep 12".

### What and When

* Scientific Name:	
Common Name:	
* Date(s) Observed:	
* Who Observed It:	Phone # or email:

### Location

Town Name:
* Map. Attach a map with the location marked. Ideally, use a USGS topographic map. If you hand-sketch the map, be sure to include a north arrow, scale, and landmarks such as roads and major water bodies. If you provide GPS coordinates, please tell us the model of the unit and the datum (e.g., WGS 84 or NAD 83). Directions. Write this as if you are telling someone how to get back to the exact site:

### Taxonomy

* How did you identify the species? What traits helped you decide that you had seen this species? What similar species did you consider and how did you exclude them? Photos showing <b>key characteristics</b> are welcome. A specimen is usually required to document a new plant population, however, an entire plant should never be collected if there are < 20 plants present.
* Certainty of ID (1=dubious, 5=absolutely positive): If a specimen was collected, collector, collection number, and where the specimen is stored:

## Biology

\* How many? If there are a few, count them. If there are a lot, estimate (e.g. 50-100)

Plants: how are they distributed, in how large an area? For example: "In a tight clump about 2 feet square" or "Scattered over a 30 x 60 foot area"

Evidence of reproduction? Plants: flowers/fruit/seed. Animals: nests/youngsters... etc.

Local surroundings: what do you see when you look around the area? Is it a steep slope or the middle of a swamp? What are the most common plants?

## Conservation Status (if known):

\* Land ownership: name of owner (private) or area (if public).

Phone number of owner (if known):

Is the landowner aware that you are reporting this find to NH Heritage? Y/N

Factors that indicate how secure the occurrence is (e.g. evidence of disturbance / owner is interested in protecting it...)