

IN THE SUPREME COURT OF THE STATE OF VERMONT
DOCKET NO. 2021-085

In re: Apple Hill investigation pursuant to 30 V.S.A. §§ 30 and 209 into
whether the petitioner initiated site preparation at Apple Hill in
Bennington, Vermont, for electric generation in violation of 30 V.S.A. §§
248(a)(2)

APPEAL FROM THE VERMONT PUBLIC UTILITY COMMISSION
Docket No. 20-1611-INV

**Supplemental Printed Case for Appellee
Agency of Natural Resources**

STATE OF VERMONT

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TABLE OF CONTENTS

	Page
ANR Classification for Rare and Uncommon Native Vascular Plants of Vermont (August 2018)	1-33
PUC, Procedural Order Deferring Ruling on Request for Stay	34-39



Rare and Uncommon Native Vascular Plants of Vermont
Vermont Natural Heritage Inventory
Vermont Fish & Wildlife Department
09 August 2018



The **Vermont Rare and Uncommon Native Vascular Plants List** is produced by the Vermont Fish & Wildlife Department's Natural Heritage Inventory with assistance from the Scientific Advisory Group on Flora of the VT Endangered Species Committee. The Vermont Natural Heritage Inventory is the state's official repository for records of rare, threatened, and endangered species. Information in the Natural Heritage Database is the result of work of botanists, natural resource professionals and interested amateurs.

This list is intended to inform naturalists, biologists, planners, developers and the general public about our rare native flora. It contains a listing of the rare and uncommon, native, vascular plants of Vermont. These species may be rare because they have very particular habitat requirements, are subject to habitat loss, are at the edge of their range, are vulnerable to disturbance or collection, or have difficulty reproducing for unknown reasons.

Some taxa on this list are rare varieties of otherwise common or exotic species, and are noted as such. Unless noted, varieties/subspecies on this list can be assumed to be the only varieties/subspecies of the species in Vermont.

Species with a state status of Threatened or Endangered (T or E) are protected by **Vermont's Endangered Species Law (10 V.S.A. Chap. 123)**. Those with a federal status of Threatened or Endangered (LT or LE) are protected by the **Federal Endangered Species Act (P.L. 93-205)**.

The state and global ranks are informational categories regarding the rarity and extirpation/extinction risk of the species. A brief explanation of legal status and informational ranks is attached to the end of the rare and uncommon plant list. Members of the Scientific Advisory Group for Flora review the state ranks periodically for changes. Global ranks are developed and reviewed by NatureServe (<http://www.natureserve.org>) and its international network of natural heritage programs and conservation data centers.

Flora Conservanda (FC) status is a designation of a taxon's rarity throughout New England. It is a collaborative effort among all New England Heritage Programs and coordinated by the New England Wild Flower Society. Flora Conservanda statuses were last reviewed and updated in 2012. See Appendix for explanation of ranks.

The Vermont Rare and Uncommon Native Vascular Plants List follows the taxonomy and nomenclature included in the following references:

- Gilman, Arthur V. (2015) *New Flora of Vermont*
- Gilman, Arthur V. (2017) *County Checklist of the Vascular Flora of Vermont*
- Haines, Arthur (2011) *Flora Novae Angliae*
- Haines, Arthur (2017) *Flora Checklist* (<http://www.arthurbaines.com/tracheophyte-checklist>)

If you locate a rare or uncommon species, the Vermont Natural Heritage Inventory would appreciate receiving information on it. A Rare Plant Reporting Form is found at the end of this list. Please obtain landowner permission before accessing private property.

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Scientific Name	Common Name	State Rank	Global Rank	State Status	Federal Status	FC Status
<i>Acalypha gracilens</i>	Slender Copperleaf	S1	G5			
<i>Acer nigrum</i>	Black Maple	S3	G5			
<i>Acorus americanus</i>	American Sweet-flag	S3?	G5			
<i>Adiantum aleuticum</i>	Aleutian Maidenhair-fern	S1	G5?			Div. 2
<i>Adiantum viridimontanum</i>	Green Mountain Maidenhair-fern	S2	G3	T		Div. 1
<i>Agalinis paupercula</i>	Smooth Agalinis	SU	G5			
<i>Agastache nepetoides</i>	Yellow Giant Hyssop	S1	G5	T		Div. 2
<i>Agastache scrophulariifolia</i>	Purple Giant Hyssop	SH	G4	T		Div. 2
<i>Agrimonia parviflora</i>	Southern Agrimony	S1?	G5			Div. 2
<i>Agrimonia pubescens</i>	Hairy Agrimony	SH	G5			
<i>Agrostis mertensii</i> Synonym(s): <i>Agrostis borealis</i>	Boreal Bentgrass	S1	G5			
<i>Allium canadense</i> var. <i>canadense</i>	Wild Garlic	S1	G5T5	T		
<i>Allium schoenoprasum</i>	Siberian Chives	S1	G5			
<i>Allium tricoccum</i> var. <i>burdickii</i> ¹ Synonym(s): <i>Allium burdickii</i>	Burdick's Wild Leek	SH	G4G5			Div. 4
<i>Alnus alnobetula</i> ssp. <i>crispa</i> Synonym(s): <i>Alnus viridis</i> ssp. <i>crispa</i>	Green Alder	S3	G5T5			
<i>Alopecurus aequalis</i>	Short-awn Foxtail	S3	G5			
<i>Amaranthus tuberculatus</i>	Water Hemp	S2	G4G5			Div. 2
<i>Amelanchier canadensis</i>	Canada Shadbush	SH	G5			
<i>Amerorchis rotundifolia</i>	Small Round-leaved Orchis	SH	G5			Div. 2
<i>Ammophila breviligulata</i> ssp. ² <i>champlainensis</i> Synonym(s): <i>Ammophila champlainensis</i>	Champlain Beach Grass	S1	G2G3Q	E		Div. 1
<i>Anemone cylindrica</i>	Long-headed Thimbleweed	S1S2	G5			
<i>Anemone multifida</i> var. <i>multifida</i>	Early Thimbleweed	S1	G5T5	E		Div. 2
<i>Anthoxanthum monticola</i> ssp. <i>monticola</i> Synonym(s): <i>Hierochloe alpina</i> ssp. <i>orthantha</i>	Alpine Sweet-grass	S1	G5T3T5	T		Div. 2

1 Regionally rare variety of an otherwise common native species.

2 Globally rare subspecies of an otherwise introduced (to Vermont) species.

Scientific Name	Common Name	State Rank	Global Rank	State Status	Federal Status	FC Status
<i>Anticlea glauca</i> Synonym(s): <i>Zigadenus elegans ssp. glaucus</i> , <i>Anticlea elegans ssp. glauca</i> , <i>Anticlea elegans ssp. glaucus</i>	White Camas	S1	G5T4T5	E		Div. 2
<i>Aplectrum hyemale</i>	Putty-root	SH	G5	T		Div. 2
<i>Arabidopsis lyrata</i> Synonym(s): <i>Arabis lyrata</i>	Lyre-leaved Rock-cress	S2	G5	T		
<i>Arceuthobium pusillum</i>	Dwarf Mistletoe	S2	G5			
<i>Arethusa bulbosa</i>	Arethusa	S1	G5	T		Div. 3a
<i>Arisaema dracontium</i>	Green Dragon	S2	G5	T		
<i>Aristida dichotoma</i> var. <i>dichotoma</i>	Churchmouse Threeawn	S1?	G5T5?			
<i>Aristida longespica</i> var. <i>geniculata</i>	Spiked Grass	S1?	G5T5?			
<i>Arnica lanceolata</i> ssp. <i>lanceolata</i> Synonym(s): <i>Arnica mollis</i> var. <i>petiolaris</i>	New England Arnica	SX	G5T3T4			Div. 1
<i>Artemisia campestris</i> ssp. <i>canadensis</i>	Boreal Wormwood	S1	G5TNR			Div. 2
<i>Artemisia campestris</i> ssp. <i>caudata</i>	Beach Wormwood	S1	G5T5			Div. 3b
<i>Asclepias amplexicaulis</i>	Blunt-leaved Milkweed	S1	G5	T		
<i>Asclepias exaltata</i>	Poke Milkweed	S3	G5			
<i>Asclepias tuberosa</i> ssp. <i>tuberosa</i>	Butterfly-weed	SH	G5?T5?	T		
<i>Asclepias verticillata</i>	Whorled Milkweed	S1	G5	E		
<i>Asplenium montanum</i>	Mountain Spleenwort	S1	G5	T		Div. 2
<i>Asplenium viride</i> Synonym(s): <i>Asplenium trichomanes-ramosum</i>	Green Spleenwort	S1	G4	T		Div. 2
<i>Astragalus alpinus</i> var. <i>brunetianus</i>	Alpine Milk-vetch	SH	G5T3			Div. 1
<i>Astragalus canadensis</i> var. <i>canadensis</i>	Canada Milk-vetch	S2	G5T5	T		Div. 2
<i>Astragalus robbinsii</i> var. <i>jesupii</i>	Jesup's Milk-vetch	S1	G5T1	E	LE	Div. 1
<i>Astragalus robbinsii</i> var. <i>minor</i>	Blake's Milk-vetch	S2	G5T5			Div. 2
<i>Astragalus robbinsii</i> var. <i>robbinsii</i>	Robbins' Milk-vetch	SX	G5TX			Div. 4
<i>Aureolaria flava</i> var. <i>flava</i>	Smooth False-foxglove	S2	G5T5			
<i>Aureolaria pedicularia</i>	Feverweed	S1	G5			
<i>Aureolaria virginica</i>	Downy False-foxglove	S1	G5			
<i>Baptisia tinctoria</i>	Yellow Wild-indigo	SH	G5			
<i>Bartonia virginica</i>	Yellow Bartonia	S2	G5			
<i>Betula minor</i>	Dwarf Birch	S1	G4G5Q	E		Div. 2

Scientific Name	Common Name	State Rank	Global Rank	State Status	Federal Status	FC Status
<i>Betula x raymundii</i> ³	Raymund's birch	SNA	GNA			
<i>Betula x sandbergii</i> ³	Sandberg's Birch	SNA	GNA			
<i>Bidens discoidea</i>	Small Beggar-ticks	S2	G5			
<i>Bidens tripartita ssp. comosa</i>	Tufted Beggar-ticks	SU	G5T5			
<i>Bistorta vivipara</i> Synonym(s): <i>Polygonum viviparum</i>	Alpine Smartweed	SX	G5			Div. 2
<i>Blephilia ciliata</i>	Downy Wood-mint	SH	G5			Div. 2
<i>Blephilia hirsuta</i> var. <i>glabrata</i>	Smooth Wood-mint	SH	G5?THQ	T		Div. 4
<i>Blephilia hirsuta</i> var. <i>hirsuta</i>	Hairy Wood-mint	S2	G5?T5?	T		Div. 2
<i>Blitum capitatum ssp. capitatum</i> Synonym(s): <i>Chenopodium capitatum</i> var. <i>capitatum</i>	Strawberry Blite	S1	G5T5			
<i>Boechera grahamii</i> ⁴	Graham's Rockcress	S2S3	G5			
<i>Boechera stricta</i> Synonym(s): <i>Arabis drummondii</i>	Drummond's Rock-cress	S1S2	G5	E		
<i>Borodinia missouriensis</i> Synonym(s): <i>Arabis missouriensis</i> , <i>Boechera missouriensis</i>	Green Rock-cress	S1	G5			Div. 2a
<i>Botrychium ascendens</i>	Upswept Moonwort	S1	G3			Div. 1
<i>Botrychium campestre</i>	Prairie Moonwort	S1	G3G4			Div. 1
<i>Botrychium lunaria</i> ⁵	Common Moonwort	SH	G5			Div. 2
<i>Botrychium minganense</i>	Mingan Moonwort	SH	G4G5	E		Div. 4
<i>Botrychium multifidum</i> Synonym(s): <i>Sceptridium multifidum</i>	Leathery Grapefern	S3	G5			
<i>Botrychium oneidense</i> Synonym(s): <i>Sceptridium oneidense</i>	Blunt-lobed Grapefern	S1	G4			Div. 2
<i>Botrychium rugulosum</i> Synonym(s): <i>Sceptridium rugulosum</i>	Rugulose Grapefern	S1	G3			Div. 1
<i>Botrychium simplex</i>	Least Moonwort	S2S3	G5			
<i>Botrychium spathulatum</i>	Spatulate Moonwort	S1	G3			
<i>Botrychium tenebrosum</i> Synonym(s): <i>Botrychium simplex</i> var. <i>tenebrosum</i>	Shade Moonwort	S1	G5T4?			Div. IND
<i>Brachyelytrum erectum</i> (Schreb) Beauv ⁶	Shorthusk	S2S3	G5			
<i>Braya humilis ssp. humilis</i>	Northern Rock-cress	S1	G5T5	T		Div. 2
<i>Bromus kalmii</i>	Wild Chess	S2	G5			

³ One parent, *Betula pumila*, is not known from Vermont but would be considered rare if found.

⁴ Vermont plants formerly attributed to *Arabis divaricarpa*.

⁵ Based on a single historical specimen; now believed to be newly defined *B. neolunaria* or *B. onondagense*.

⁶ Excluding *Brachyeletrum aristosum* Michx. Trel. in Branner & Coville.

Scientific Name	Common Name	State Rank	Global Rank	State Status	Federal Status	FC Status
<i>Calamagrostis canadensis</i> var. ⁷ <i>langsдорffii</i>	Langsdorf's Bluejoint	S1	G5T5			Div. 2
<i>Calamagrostis canadensis</i> var. ⁷ <i>macouniana</i>	Short-flower Bluejoint	SH	G5T5?			Div. IND
<i>Calamagrostis pickeringii</i>	Pickering's Reed-grass	S1	G5	E		
<i>Calamagrostis stricta</i> ssp. <i>inexpansa</i>	Bentgrass	S1	G5T5	E		Div. 2a
<i>Calamagrostis stricta</i> ssp. <i>stricta</i> ⁸	Northern Reedgrass	SNA	G5T5			Div. 2
<i>Callitriche hermaphroditica</i>	Northern Water-starwort	SH	G5			Div. 4
<i>Callitriche heterophylla</i> var. <i>heterophylla</i> Synonym(s): <i>Callitriche heterophylla</i> ssp. <i>heterophylla</i>	Large Water-starwort	S2	G5T5			
<i>Calopogon tuberosus</i> var. <i>tuberosus</i>	Tuberous Grass-pink	S3	G5T5			
<i>Calypso bulbosa</i> var. <i>americana</i> Synonym(s): <i>Calypso bulbosa</i> ssp. <i>americana</i>	Fairy Slipper	S1	G5T5	T		Div. 3a
<i>Calystegia silvatica</i> ssp. <i>fraterniflora</i> Synonym(s): <i>Calystegia sepium</i> var. <i>fraterniflora</i>	Twin-flower Hedge Bindweed	S2	G5T5			Div. 2
<i>Calystegia spithamea</i> ssp. <i>spithamea</i>	Low Bindweed	S2	G4G5T4T5	T		Div. 2a
<i>Cardamine bulbosa</i>	Spring Cress	S1	G5			
<i>Cardamine concatenata</i>	Cutleaf Toothwort	S3	G5			
<i>Cardamine dentata</i> Synonym(s): <i>Cardamine pratensis</i> var. <i>palustris</i>	Cuckoo Flower	S1	G5			Div. 2
<i>Cardamine maxima</i>	Large Toothwort	S2S3	G5			
<i>Cardamine parviflora</i>	Small-flower bittercress	S2	G5			
<i>Carex aestivalis</i>	Summer Sedge	S3	G4			
<i>Carex albicans</i> var. <i>albicans</i>	Whitetinge Sedge	SH	G5T5			
<i>Carex albicans</i> var. <i>emmonsii</i> Synonym(s): <i>Carex emmonsii</i>	Emmon's Sedge	S1	G5T5			
<i>Carex alopecoidea</i>	Foxtail Sedge	S1	G5			Div. 2
<i>Carex aquatilis</i> ssp. <i>altior</i>	Water Sedge	S2S3	G5TU			
<i>Carex arcta</i>	Contracted Sedge	S1	G5	E		
<i>Carex argyrantha</i>	Hay Sedge	S2S3	G5			
<i>Carex atherodes</i>	Awed Sedge	S1	G5			Div. 2

⁷ Regionally rare varieties of an otherwise common native species.

⁸ Based on one historical specimen questionably collected in Vermont.

Scientific Name	Common Name	State Rank	Global Rank	State Status	Federal Status	FC Status
<i>Carex atlantica</i> var. <i>atlantica</i>	Atlantic Sedge	S1	G5T5			
<i>Carex atlantica</i> var. <i>capillacea</i> Synonym(s): <i>Carex atlantica</i> ssp. <i>capillacea</i>	Howe's Sedge	S1	G5T5?			
<i>Carex atratiformis</i>	Blackish Sedge	S1	G5	T		Div. 2
<i>Carex backii</i>	Back's Sedge	S3	G5			
<i>Carex bicknellii</i>	Bicknell's Sedge	SH	G5			Div. 2
<i>Carex bigelowii</i> ssp. <i>bigelowii</i>	Bigelow's Sedge	S1	G5TNR			Div. 3b
<i>Carex brevior</i>	Fescue Sedge	S3	G5			
<i>Carex bushii</i>	Bush's Sedge	S1	G4			Div. 2a
<i>Carex buxbaumii</i>	Buxbaum's Sedge	S1	G5	E		
<i>Carex capillaris</i> ssp. <i>capillaris</i>	Capillary Sedge	S1	G5T5	T		Div. 2
<i>Carex chordorrhiza</i>	Creeping Sedge	S1	G5	E		Div. 3b
<i>Carex cryptolepis</i>	Northeastern Sedge	S2S3	G4G5			
<i>Carex cumulata</i>	Clustered Sedge	S1	G4?			
<i>Carex davisii</i>	Davis' Sedge	S1	G4			Div. 2
<i>Carex echinodes</i> Synonym(s): <i>Carex tenera</i> var. <i>echinodes</i>	Urchin Sedge	S1	G5TNR			
<i>Carex exilis</i>	Bog Sedge	S2	G5			
<i>Carex foenea</i> ⁹	Bronze Sedge	S2	G5	E		
<i>Carex formosa</i>	Handsome Sedge	S3	G4			
<i>Carex garberi</i>	Garber's Sedge	S1	G5	T		Div. 2
<i>Carex glaucoidea</i>	Flaccid Sedge	SH	G5T5			Div. 2
<i>Carex gracilescens</i>	Slender Sedge	S1	G5?			Div. 2
<i>Carex grayi</i>	Gray's Sedge	S3	G4G5			
<i>Carex hitchcockiana</i>	Hitchcock's Sedge	S3	G5			
<i>Carex houghtoniana</i>	Houghton's Sedge	SH	G5			
<i>Carex laevivaginata</i>	Smooth Sedge	S3	G5			
<i>Carex laxiculmis</i> var. <i>laxiculmis</i>	Loose Sedge	S3	G5T5			
<i>Carex lenticularis</i>	Shore Sedge	S2S3	G5			
<i>Carex livida</i>	Pale Sedge	S1	G5	T		Div. 2
<i>Carex longii</i>	Greenish-white Sedge	SH	G5			
<i>Carex lupuliformis</i>	False Hop Sedge	S2	G4			

⁹ *Carex siccata* is the currently accepted name for what was called *Carex foenea* in older manuals. *Carex foenea* is the currently accepted name for what was called *Carex aenea* in older manuals.

Scientific Name	Common Name	State Rank	Global Rank	State Status	Federal Status	FC Status
<i>Carex merritt-fernaldii</i>	Fernald's Sedge	S1	G5			
<i>Carex michauxiana</i>	Michaux Sedge	S2	G5			
<i>Carex molesta</i>	Troublesome Sedge	S1	G4			Div. 2
<i>Carex muehlenbergii</i> var. <i>enervis</i>	Nerveless Muehlenberg Sedge	S1	G5T5	T		Div. 3b
<i>Carex muehlenbergii</i> var. <i>muehlenbergii</i>	Muehlenberg's Sedge	S2	G5T5	T		
<i>Carex nigra</i>	Black Sedge	SH	G5			
<i>Carex oligocarpa</i>	Few-fruited Sedge	S1	G4G5	E		Div. 2
<i>Carex oligosperma</i>	Few-seeded Sedge	S2S3	G5			
<i>Carex pseudocyperus</i>	False Cyperus Sedge	S3	G5			
<i>Carex richardsonii</i>	Richardson's Sedge	S1	G5	E		Div. 2
<i>Carex rostrata</i>	Beaked Sedge	S1?	G5			Div. 2
<i>Carex schweinitzii</i>	Schweinitz's Sedge	S2	G3G4			Div. 1
<i>Carex scirpoidea</i> ssp. <i>scirpoidea</i>	Scirpus-like Sedge	S2	G5T5			Div. 2a
¹⁰ <i>Carex siccata</i>	Hay Sedge	S1	G5	E		
<i>Carex sterilis</i>	Dioecious Sedge	S1	G4G5			Div. 3b
<i>Carex tenuiflora</i>	Thin-flowered Sedge	S1	G5			Div. 2
<i>Carex tinctoria</i>	Tinged Sedge	SU	G4G5			
<i>Carex trichocarpa</i>	Hairy Sedge	S3	G4			
<i>Carex typhina</i>	Cat-tail Sedge	S2S3	G5			
¹¹ <i>Carex umbellata</i> Schkuhr ex Willd Synonym(s): <i>Carex abdita</i>	Hidden Sedge	SU	G5			
<i>Carex vaginata</i>	Sheathed Sedge	S1	G5	E		Div. 3b
<i>Carex wiegandii</i>	Wiegand's Sedge	S1	G4			
<i>Carex willdenowii</i>	Willdenow's Sedge	SH	G5			Div. 2
<i>Carya glabra</i>	Pignut Hickory	S2	G5			
<i>Castilleja septentrionalis</i>	Pale Painted-cup	S1	G5	T		Div. 2a
<i>Ceanothus herbaceus</i> Synonym(s): <i>Ceanothus ovatus</i>	Prairie Redroot	S1	G5	E		Div. 2
<i>Celastrus scandens</i>	American Bittersweet	S3	G5			Div. IND
<i>Cerastium nutans</i> ssp. <i>nutans</i> Synonym(s): <i>Cerastium nutans</i> var. <i>nutans</i>	Nodding Chickweed	S1	G5T5			Div. 2

¹⁰ *Carex siccata* is the currently accepted name for what was called *Carex foenea* in older manuals. *Carex foenea* is the currently accepted name for what was called *Carex aenea* in older manuals.

¹¹ Not including *Carex tonsa* (Fern.) Bickn.

Scientific Name	Common Name	State Rank	Global Rank	State Status	Federal Status	FC Status
<i>Ceratophyllum echinatum</i>	Prickly Hornwort	S2S3	G4			
<i>Chamaecrista nictitans</i> var. <i>nictitans</i> Synonym(s): <i>Cassia nictitans</i>	Wild Sensitive Plant	S2	G5T5			
<i>Chenopodium berlandieri</i> var. ¹² <i>bushmanum</i>	Bush's Goosefoot	S1	G5T4T5			Div. 2
<i>Chenopodium berlandieri</i> var. ¹² <i>macrocalycium</i>	Coastal Pit-seeded Goosefoot	SU	G5T4			
<i>Chenopodium foggii</i>	Fogg's Goosefoot	S1	G2G3			Div. 1
<i>Chimaphila maculata</i>	Spotted Wintergreen	S3	G5			
<i>Cirsium discolor</i>	Field Thistle	S2	G5			
<i>Cladium mariscoides</i>	Bog-rush	S2S3	G5			
<i>Claytonia virginica</i>	Virginia Spring Beauty	S2	G5			Div. 2
<i>Clematis occidentalis</i> ssp. <i>occidentalis</i> Synonym(s): <i>Clematis verticillaris</i> , <i>Clematis occidentalis</i> var. <i>occidentalis</i>	Purple Clematis	S3	G5T5			
<i>Coeloglossum viride</i> Synonym(s): <i>Dactylorhiza viridis</i>	Long-bract Green Orchis	S3	G5			
<i>Coleataenia rigidula</i> ssp. <i>rigidula</i> ¹³ Synonym(s): <i>Sorengia longifolia</i> ssp. <i>rigidula</i>	Redtop Panic-grass	S2S3	G5?TNR			
<i>Collinsia parviflora</i>	Small-flowered Collinsia	SH	G5			Div. 4
<i>Collinsonia canadensis</i>	Canada Horse-balm	S2	G5			
<i>Conopholis americana</i>	Oak-drops	S3	G5			
<i>Corallorhiza odontorhiza</i> var. <i>odontorhiza</i>	Autumn Coral-root	S2	G5T5	T		
<i>Cornus florida</i> Synonym(s): <i>Benthamidia florida</i>	Flowering Dogwood	S1	G5	T		
<i>Corydalis aurea</i>	Golden Corydalis	S2	G5	T		Div. 2
<i>Corylus americana</i>	American Hazelnut	S2S3	G5			
<i>Crassula aquatica</i> Synonym(s): <i>Tillaea aquatica</i>	Pygmyweed	S1	G5			
<i>Crataegus biltmoreana</i>	Biltmore Hawthorn	S1	G5			
<i>Crataegus boyntonii</i>	Stinking Hawthorn	SH	GNR			Div. 4
<i>Crataegus brainerdii</i>	Brainerd's Hawthorn	SU	G5			Div. 2
<i>Crataegus chrysocarpa</i> var. <i>chrysocarpa</i>	Fireberry Hawthorn	S3?	G5TNR			

12 *Chenopodium berlandieri* var. *bushmanum* is rare native variety. *Chenopodium berlandieri* var. *macrocalycium* is rare and unresolved. *Chenopodium berlandieri* var. *zschackei* is a rare exotic variety.

13 *Coleataenia rigidula* (Bosc ex Nees) LeBlond in Gilman (2015). *Sorengia longifolia* ssp. *rigidula* in Haines (2011). Once included in *Panicum agrostoides*.

Scientific Name	Common Name	State Rank	Global Rank	State Status	Federal Status	FC Status
<i>Crataegus chrysocarpa</i> var. <i>praecox</i>	Precocious Hawthorn	SH	G4G5Q			Div. 4
<i>Crataegus coccinioides</i>	Kansas Hawthorn	SH	G4?Q			
<i>Crataegus dissona</i>	Northern Hawthorn	SH	G4G5			
<i>Crataegus dodgei</i>	Dodge's Hawthorn	S1	G4			Div. 4
<i>Crataegus faxonii</i> Synonym(s): <i>Crataegus chrysocarpa</i> var. <i>faxonii</i>	Faxon's Hawthorn	SU	G5			Div. 2
<i>Crataegus flavida</i>	Yellow Hawthorn	SH	GNR			
<i>Crataegus fluviatilis</i>	River Hawthorn	SU	G3G4Q			
<i>Crataegus ideae</i>	Concord Hawthorn	SH	G3G4Q			
<i>Crataegus intricata</i>	Intricate Hawthorn	SH	GNR			
<i>Crataegus irrasa</i> var. <i>blanchardii</i> Synonym(s): <i>Crataegus chrysocarpa</i> var. <i>blanchardii</i>	Blanchard's Hawthorn	SU	G4?TNR			Div. 2
<i>Crataegus irrasa</i> var. <i>irrasa</i>	Zigzag Hawthorn	S1	GNR			
<i>Crataegus jesupii</i>	Jesup's Hawthorn	SH	G4G5			
¹⁴ <i>Crataegus kennedyi</i> Synonym(s): <i>Crataegus x kennedyi</i>	Kennedy's Hawthorn	SH	GNA			Div. 4
<i>Crataegus lucorum</i>	Grove Hawthorn	SU	G4?			Div. 2
¹⁵ <i>Crataegus macracantha</i> var. <i>occidentalis</i>	Western Long-spine Hawthorn	SU	G5TNR			
<i>Crataegus oakesiana</i>	Oakes' Hawthorn	S1S2	GNR			Div. 2
<i>Crataegus populnea</i>	Poplar Hawthorn	S1	GNRQ			Div. 2
<i>Crataegus scabrida</i> var. <i>asperifolia</i> Synonym(s): <i>Crataegus asperifolia</i>	Rough-leaf Hawthorn	SH	G5?TNR			Div. IND
<i>Crataegus scabrida</i> var. <i>cyclophylla</i> Synonym(s): <i>Crataegus cyclophylla</i>	Round-leaf Hawthorn	SH	G5?TNR			Div. IND
<i>Crataegus scabrida</i> var. <i>egglestonii</i> Synonym(s): <i>Crataegus egglestonii</i>	Eggleston's Hawthorn	SH	G5?TNR			Div. IND
<i>Crataegus scabrida</i> var. <i>scabrida</i>	Harsh Hawthorn	SU	G5?TNR			Div. IND
<i>Crataegus succulenta</i> var. <i>pisifera</i> Synonym(s): <i>Crataegus pisifera</i>	Pea Hawthorn	SH	G5TNR			Div. 4
<i>Crataegus succulenta</i> var. <i>succulenta</i>	Fleshy Hawthorn	S1	G5T5			Div. 2
<i>Crepidomanes intricatum</i> Synonym(s): <i>Trichomanes intricatum</i>	Weft Fern	S1	G4G5			Div. 2

14 In Gilman (2015) as *Crataegus brainerdii* x *pruinosa*.

15 Regionally rare variety of an otherwise common native species.

Scientific Name	Common Name	State Rank	Global Rank	State Status	Federal Status	FC Status
<i>Crocianthemum bicknellii</i> Synonym(s): <i>Helianthemum bicknellii</i>	Plains Frostweed	S2	G5	T		
<i>Crocianthemum canadense</i> Synonym(s): <i>Helianthemum canadense</i>	Canada Frostweed	S2S3	G5			
<i>Crotalaria sagittalis</i>	Rattlebox	S1	G5	T		
<i>Cryptogramma stelleri</i>	Fragile Rockbrake	S3	G5			Div. 2
<i>Cuscuta cephalanthi</i>	Buttonbush Dodder	S1	G5			
¹⁶ <i>Cuscuta gronovii</i> var. <i>latiflora</i>	Broad-flower Dodder	SU	G5T5?Q			Div. IND
<i>Cynoglossum virginianum</i> var. <i>boreale</i> Synonym(s): <i>Cynoglossum boreale</i> , <i>Cynoglossum virginianum</i> ssp. <i>boreale</i> , <i>Andersonglossum boreale</i>	Northern Wild Comfrey	S1	G5T4T5	T		Div. 2
<i>Cyperus diandrus</i>	Low Flatsedge	S1	G5	E		
¹⁷ <i>Cyperus engelmannii</i>	Engelmann's Flatsedge	S1	G4Q			Div. IND
<i>Cyperus erythrorhizos</i>	Red-root Flatsedge	S2S3	G5			
<i>Cyperus houghtonii</i>	Houghton's Flatsedge	S2	G4?	T		Div. 2a
¹⁷ <i>Cyperus odoratus</i>	Rusty Flatsedge	SU	GNR			Div. IND
<i>Cyperus squarrosus</i> Synonym(s): <i>Cyperus aristatus</i>	Awed Flatsedge	S3	G5			
<i>Cypripedium arietinum</i>	Ram's Head Lady's-slipper	S2	G3	T		Div. 1
<i>Cypripedium parviflorum</i> var. <i>makasin</i>	Makasin's Yellow Lady's-slipper	S2S3	G5T4T5			Div. 2
<i>Cypripedium parviflorum</i> var. <i>pubescens</i> Synonym(s): <i>Cypripedium calceolus</i> var. <i>pubescens</i> , <i>Cypripedium pubescens</i>	Large Yellow Lady's-slipper	S3	G5T5			
<i>Cypripedium reginae</i>	Showy Lady's-slipper	S3	G4G5			
<i>Cystopteris laurentiana</i>	Laurentian Bladder Fern	S1	G3			Div. 1
<i>Descurainia pinnata</i> var. <i>brachycarpa</i>	Tansy Mustard	S1	G5T5			Div. 2
<i>Desmodium cuspidatum</i>	Large-bracted Tick-trefoil	S1	G5	E		Div. 2
<i>Desmodium paniculatum</i>	Panicled Tick-trefoil	S3	G5			
<i>Desmodium perplexum</i>	Perplexed Tick-trefoil	S2	G5			
<i>Desmodium rotundifolium</i>	Prostrate Tick-trefoil	S1	G5	T		
<i>Diapensia lapponica</i> ssp. <i>lapponica</i>	Diapensia	S1	G4G5	E		Div. 3b

¹⁶ Regionally rare variety of an otherwise common native species.

¹⁷ *Cyperus engelmannii* was recently split from *C. odoratus*, and it appears that both species are present in Vermont.

Scientific Name	Common Name	State Rank	Global Rank	State Status	Federal Status	FC Status
<i>Dichanthelium columbianum</i> Synonym(s): <i>Panicum columbianum</i> , <i>Dichanthelium acuminatum ssp. columbianum</i>	Columbian Rosette-grass	S3	G5T5			
<i>Dichanthelium dichotomum</i> var. <i>dichotomum</i> Synonym(s): <i>Panicum dichotomum</i> var. <i>dichotomum</i> , <i>Dichanthelium dichotomum ssp. dichotomum</i>	Cypress Witchgrass	S3	G5T5			
<i>Dichanthelium oligosanthes ssp. scribnerianum</i> Synonym(s): <i>Dichanthelium oligosanthes</i> var. <i>scribnerianum</i>	Few-flowered Panic-grass	S2	G5T5			
<i>Dichanthelium sphaerocarpon</i> Synonym(s): <i>Panicum sphaerocarpon</i>	Spherical Panic-grass	S1	G5			
<i>Dichanthelium xanthophysum</i> Synonym(s): <i>Panicum xanthophysum</i>	Yellow Panic-grass	S3	G5			
<i>Diphasiastrum complanatum</i> Synonym(s): <i>Lycopodium complanatum</i>	Northern Ground-cedar	S1S2	G5			
<i>Diphasiastrum sabinifolium</i> Synonym(s): <i>Lycopodium sabinifolium</i> , <i>Diphasiastrum x sabinifolium</i>	Ground-fir	S2	G4			
<i>Draba arabisans</i>	Rock Draba	S2S3	G4			Div. 2a
<i>Draba cana</i> Synonym(s): <i>Draba lanceolata</i> , <i>Draba breweri</i> var. <i>cana</i>	Hoary Draba	S1	G5	T		Div. 2
<i>Draba glabella</i>	Smooth Draba	S1	G5	T		Div. 2
<i>Dracocephalum parviflorum</i>	American Dragonhead	SH	G5	T		Div. 4
<i>Drymocallis arguta</i> Synonym(s): <i>Potentilla arguta</i>	Tall Cinquefoil	S3	G5T5			
<i>Dryopteris filix-mas ssp. brittonii</i>	Male Fern	S2	G5T4?	T		Div. 2
<i>Dryopteris fragrans</i>	Fragrant Fern	S2	G5			
<i>Elatine americana</i> Synonym(s): <i>Elatine triandra</i> var. <i>americana</i>	American Waterwort	SH	G4			Div. 2
<i>Elatine minima</i>	Small Waterwort	S1	G5			
<i>Eleocharis aestuum</i>	Tidal Spikerush	S1	G3			Div. 1
<i>Eleocharis compressa</i> var. <i>compressa</i>	Flat-stem Spikerush	SH	G4			Div. 4
<i>Eleocharis diandra</i>	Wright's Spikerush	S2	G2			Div. 1
<i>Eleocharis flavescens</i> var. <i>olivacea</i> Synonym(s): <i>Eleocharis olivacea</i>	Olive Spikerush	S1	G5			
<i>Eleocharis intermedia</i>	Matted Spikerush	S3	G5			
<i>Eleocharis nitida</i>	Slender Spikerush	SH	G4			Div. 2

Scientific Name	Common Name	State Rank	Global Rank	State Status	Federal Status	FC Status
<i>Eleocharis ovata</i>	Ovate Spikerush	S3	G5			Div. IND
<i>Eleocharis quinqueflora</i> Synonym(s): <i>Eleocharis pauciflora</i>	Few-flowered Spikerush	S2	G5	T		
<i>Eleocharis robbinsii</i>	Robbins Spikerush	S1	G4G5			
<i>Elodea nuttallii</i>	Nuttall Waterweed	S3	G5			
<i>Elymus macgregorii</i>	MacGregor's Wild Rye	SH	GNR			Div. 2
<i>Elymus trachycaulus</i> Synonym(s): <i>Agropyron trachycaulum</i>	Slender Wheatgrass	S3	G5			
<i>Elymus villosus</i> var. <i>arkansanus</i>	Southern Wild-rye	SH	G5TNR			Div. IND
<i>Elymus villosus</i> var. <i>villosus</i>	Hairy Wild-rye	S1	G5TNR			Div. IND
<i>Elymus wiegandii</i>	Wild-rye	S3	G4G5			
<i>Empetrum atropurpureum</i> Synonym(s): <i>Empetrum eamesii</i> ssp. <i>atropurpureum</i>	Purple Crowberry	SX	G5T5			
<i>Empetrum nigrum</i>	Black Crowberry	S1	G5			Div. 3b
<i>Epilobium palustre</i>	Marsh Willow-herb	S1S2	G5			
<i>Equisetum palustre</i>	Marsh Horsetail	S2S3	G5	T		
<i>Equisetum pratense</i>	Meadow Horsetail	S3	G5			
<i>Eragrostis capillaris</i>	Lace Love-grass	S2?	G5			
<i>Eragrostis frankii</i>	Frank's Love-grass	S3	G5			
<i>Eragrostis hypnoides</i>	Creeping Love-grass	S2S3	G5			
<i>Erigeron hyssopifolius</i>	Hyssop-leaved Fleabane	S2	G5			Div. 2
¹⁸ <i>Erigeron philadelphicus</i> var. <i>provancheri</i>	Provancher's Dwarf Fleabane	S1	G5T3Q			Div. 1
¹⁹ <i>Eriophorum angustifolium</i> ssp. <i>angustifolium</i>	Tall Cotton-grass	SNA	G5T5			
<i>Eriophorum gracile</i>	Slender Cotton-grass	S1	G5			
<i>Eriophorum tenellum</i>	Rough Cotton-grass	S1S2	G5			
<i>Erythranthe moschata</i> Synonym(s): <i>Mimulus moschatus</i>	Musk Flower	S3	G5			Div. 2
<i>Eupatorium sessilifolium</i>	Sessile-leaved Boneset	S1	G5	E		
<i>Euphorbia glyptosperma</i>	Rib-seed Spurge	S3?	G5			Div. IND
<i>Euphorbia nutans</i> Synonym(s): <i>Chamaesyce nutans</i>	Nodding Spurge	S1?	G5			Div. IND

¹⁸ Regionally rare variety of an otherwise common native species.

¹⁹ Based on a single historical specimen not certainly collected in Vermont.

Scientific Name	Common Name	State Rank	Global Rank	State Status	Federal Status	FC Status
<i>Eurybia radula</i> Synonym(s): <i>Aster radula</i>	Rough-leaved Aster	S2	G5			
<i>Eutrochium fistulosum</i> Synonym(s): <i>Eupatorium fistulosum</i>	Hollow Joe-pye Weed	SU	G5?			
<i>Eutrochium purpureum</i> var. <i>purpureum</i> Synonym(s): <i>Eupatorium purpureum</i> var. <i>purpureum</i>	Sweet Joe-pye Weed	S2S3	G5T5?			
<i>Festuca brachyphylla</i> ssp. <i>brachyphylla</i>	Shortleaf Fescue	S1	G5T5			Div. 2
<i>Festuca rubra</i> ssp. <i>pruinosa</i> ²⁰	Coastal Red Fescue	SH	G5TNR			
<i>Festuca rubra</i> ssp. <i>vallicola</i> ²⁰	Montane Red Fescue	SH	G5TNR			
<i>Fimbristylis autumnalis</i>	Autumn Fimbristylis	S1?	G5	E		
<i>Floerkea proserpinacoides</i>	False Mermaid-weed	SH	G5			Div. 2
<i>Galium boreale</i> ssp. <i>septentrionale</i>	Northern Bedstraw	S3	G5TNR			
<i>Galium brevipes</i>	Limestone Swamp Bedstraw	SH	G4?			Div. 4
<i>Galium kamtschaticum</i>	Boreal Bedstraw	S3	G5			
<i>Galium labradoricum</i>	Bog Bedstraw	S1	G5	T		Div. 3b
<i>Galium obtusum</i> ssp. <i>obtusum</i>	Large Marsh Bedstraw	S2S3	G5T4			
<i>Galium pilosum</i> var. <i>pilosum</i>	Hairy Bedstraw	S1	G5T5?			
<i>Galium trifidum</i> ssp. <i>trifidum</i>	Small Bedstraw	S3	G5T5			
<i>Gentiana andrewsii</i>	Fringe-top Closed Gentian	S2	G5?	T		Div. 2
<i>Gentianella amarella</i> ssp. <i>acuta</i>	Felwort	SH	G5T5	T		Div. 2
<i>Gentianella quinquefolia</i>	Stiff Gentian	S1	G5	T		
<i>Gentianopsis crinita</i>	Fringed Gentian	S3	G5			
<i>Geocaulon lividum</i>	Northern Toadflax	SX	G5			
<i>Geranium bicknellii</i>	Bicknell Northern Crane's-bill	S3	G5			
<i>Geranium carolinianum</i>	Carolina Crane's-bill	SH	G5			
<i>Geum vernum</i>	Spring Avens	S1	G5			Div. 4
<i>Glyceria acutiflora</i>	Sharp Manna-grass	S1	G5	E		
<i>Glyceria septentrionalis</i>	Eastern Manna-grass	S2	G5			

20 Other subspecies are considered introduced in Vermont.

Scientific Name	Common Name	State Rank	Global Rank	State Status	Federal Status	FC Status
<i>Goodyera oblongifolia</i>	Giant Rattlesnake-plantain	SH	G5			Div. 2
<i>Graphephorum melicoides</i> Synonym(s): <i>Trisetum melicoides</i>	Purple False Oats	SH	G4			
²¹ <i>Gymnocarpium jessoense</i> ssp. <i>parvulum</i>	Northern Oak Fern	SNA	G5T4			Div. 4
<i>Hackelia deflexa</i> ssp. <i>americana</i>	Nodding Stickseed	S2	G5T5	T		Div. 2
<i>Halenia deflexa</i> ssp. <i>deflexa</i>	Spurred Gentian	S1	G5T5			
<i>Hedysarum alpinum</i> var. <i>americanum</i>	Alpine Sweet-broom	S1	G5T5?			
<i>Helenium autumnale</i>	Sneezeweed	S1	G5			
<i>Helianthus strumosus</i>	Harsh Sunflower	S2S3	G5	T		
²² <i>Heliopsis helianthoides</i> var. <i>helianthoides</i>	Ox-eye	SH	G5T5			
<i>Hieracium umbellatum</i>	Umbellate Hawkweed	SU	G5			Div. 2
<i>Hieracium venosum</i>	Rattlesnake Hawkweed	S3	G5			
<i>Hippuris vulgaris</i>	Mare's-tail	S1	G5	E		
<i>Homalosorus pycnocarpus</i> Synonym(s): <i>Diplazium pycnocarpon</i>	Glade Fern	S3	G5			
<i>Houstonia longifolia</i>	Longleaf Bluet	S2	G5			
<i>Hudsonia ericoides</i>	Golden-heather	SH	G4			
<i>Hudsonia tomentosa</i> Synonym(s): <i>Hudsonia ericoides</i> ssp. <i>tomentosa</i>	Beach Heather	S1	G5	E		Div. 3b
<i>Huperzia appressa</i> Synonym(s): <i>Huperzia appalachiana</i>	Mountain Fir Clubmoss	S2	G5			Div. IND
<i>Huperzia selago</i>	Fir Clubmoss	S1	G5			Div. 2
<i>Hybanthus concolor</i>	Green Violet	S1	G5			Div. 2
<i>Hydrastis canadensis</i>	Golden-seal	S1	G3G4	E		Div. 2
<i>Hydrophyllum canadense</i>	Broad-leaved Waterleaf	S1	G5	T		Div. 2
<i>Hypericum ascyron</i>	Great St. John's-wort	S2	G4	T		
<i>Hypericum gentianoides</i>	Orange-grass St. John's-wort	S2	G5			
<i>Hypopitys lanuginosa</i>	Red Pine-sap	SU	GNR			Div. IND
<i>Hypoxis hirsuta</i>	Star Grass	SH	G5			

21 Based on a single historical specimen not certainly collected in Vermont.

22 Rare native variety of an otherwise introduced (to Vermont) species.

Scientific Name	Common Name	State Rank	Global Rank	State Status	Federal Status	FC Status
<i>Ilex laevigata</i>	Smooth Holly	S1	G5			
<i>Isoetes engelmannii</i>	Engelmann's Quillwort	S1	G4	T		
<i>Isoetes lacustris</i> Synonym(s): <i>Isoetes macrospora</i>	Lake Quillwort	S1	G5			
<i>Isoetes septentrionalis</i> ²³	River-bank Quillwort	S2	GNR			
<i>Isoetes tuckermanii</i>	Tuckerman's Quillwort	S1	G4G5			
<i>Isoetes viridimontana</i>	Green Mountain Quillwort	S1	G1	E		
<i>Isotria medeoloides</i>	Small Whorled Pogonia	SX	G2?	E	LT	Div. 1
<i>Isotria verticillata</i>	Large Whorled Pogonia	S2	G5	T		
<i>Juncus acuminatus</i>	Tapering Rush	S1	G5			
<i>Juncus alpinoarticulatus</i> Synonym(s): <i>Juncus alpinus</i>	Alpine Rush	S2	G5			
<i>Juncus anthelatus</i>	Greater Poverty Rush	S1?	G5TNR			
<i>Juncus brachycephalus</i>	Broad-head Rush	S3	G5			
<i>Juncus greenii</i>	Greene's Rush	S2	G5	E		
<i>Juncus marginatus</i>	Grass Rush	S3	G5			
<i>Juncus militaris</i>	Soldier Rush	S1	G4	E		
<i>Juncus secundus</i>	Secund Rush	S1	G5?	E		
<i>Juncus subcaudatus</i>	Woodland Rush	S1	G5			
<i>Juncus torreyi</i>	Torrey's Rush	S2	G5			Div. 2
<i>Juncus trifidus</i> Synonym(s): <i>Oreojuncus trifidus</i>	Highland Rush	S1S2	G5			Div. 3b
<i>Juncus vaseyi</i>	Vasey Rush	S1	G5			Div. 2
<i>Juniperus horizontalis</i>	Creeping Juniper	S1	G5	T		Div. 3b
<i>Justicia americana</i>	Common Water-willow	SX	G5			Div. 4
<i>Kalmia latifolia</i>	Mountain Laurel	S3	G5			
<i>Lactuca hirsuta</i>	Hairy Lettuce	S1S2	G5?	T		Div. IND
<i>Lathyrus japonicus</i> var. <i>maritimus</i> Synonym(s): <i>Lathyrus maritimus</i>	Beach Pea	S2	G5T5	T		
<i>Lathyrus ochroleucus</i>	Pale Vetchling	S1S2	G5			Div. 2
<i>Lathyrus palustris</i>	Marsh Vetchling	S2	G5	T		
<i>Lechea maritima</i> var. <i>maritima</i>	Beach Pinweed	S1	G5T5?			

23 Includes all of what Vermont formerly called *Isoetes riparia* (var. *canadensis*).

Scientific Name	Common Name	State Rank	Global Rank	State Status	Federal Status	FC Status
<i>Lechea minor</i>	Lesser Pinweed	SH	G5			Div. IND
<i>Lechea mucronata</i>	Hairy Pinweed	S1	G5	E		
<i>Lemna perpusilla</i>	Minute Duckweed	SH	G5			Div. IND
<i>Lemna turionifera</i>	Turion Duckweed	SH	G5			Div. IND
<i>Lespedeza capitata</i>	Round-head Bush-clover	S3	G5			
²⁴ <i>Lespedeza frutescens</i>	Violet Bush-clover	S1	G5	T		
<i>Lespedeza hirta</i> ssp. <i>hirta</i>	Hairy Bush-clover	S1	G5T5?	T		
<i>Lespedeza procumbens</i>	Trailing Bush-clover	S1	G5			
<i>Lespedeza stuevei</i>	Tall Bush-clover	SH	G4?			
²⁴ <i>Lespedeza violacea</i> (L.) Pers.	Violet Bush-clover	S2S3	G5			
<i>Leucophysalis grandiflora</i>	Large White-flowered Ground-cherry	SH	G4?			Div. 4
Synonym(s): <i>Physalis grandiflora</i>						
<i>Lilium philadelphicum</i>	Wood Lily	S3	G5			
<i>Linum medium</i>	Stiff Yellow Flax	S1	G5			Div. 2
<i>Linum striatum</i>	Ridged Yellow Flax	SU	G5			
<i>Linum sulcatum</i> var. <i>sulcatum</i>	Grooved Yellowflax	SH	G5T5			Div. 2
<i>Liparis liliifolia</i>	Lily-leaved Twayblade	S1	G5	T		Div. 2
<i>Liparis loeselii</i>	Loesel's Twayblade	S3	G5			
<i>Liriodendron tulipifera</i>	Tulip Tree	S1	G5	E		
<i>Littorella americana</i>	American Shore-grass	S2	G5			
<i>Lobelia siphilitica</i> var. <i>siphilitica</i>	Great Blue Lobelia	S1	G5T5			Div. 3b
²⁵ <i>Lobelia spicata</i> var. <i>hirtella</i>	Hairy Spike Lobelia	SH	G5T4T5			Div. IND
<i>Lonicera hirsuta</i>	Hairy Honeysuckle	S2	G5			Div. 2
<i>Lonicera oblongifolia</i>	Swamp Fly-honeysuckle	S2	G4G5			
<i>Lonicera villosa</i>	Mountain Fly-honeysuckle	S3	G5			
<i>Ludwigia polycarpa</i>	Many-fruited False-loosestrife	S1	G4	E		Div. 2
<i>Lupinus perennis</i> ssp. <i>perennis</i>	Wild Lupine	S1	G5T4?	E		Div. 3a
<i>Luzula parviflora</i>	Small-flowered Rush	S2S3	G5			
<i>Luzula spicata</i>	Spiked Wood-rush	S1	G5			Div. 2

24 *Lespedeza frutescens*, the currently accepted name, is synonymous with *Lespedeza violacea* of authors other than (L.) Pers. *Lespedeza violacea* (L.) Pers. was formerly known as *L.intermedia* (S. Watts) Britton.

25 Regionally rare variety of an otherwise common native species.

Scientific Name	Common Name	State Rank	Global Rank	State Status	Federal Status	FC Status
<i>Lycopodiella appressa</i> Synonym(s): <i>Lycopodium appressum</i>	Slender Bog-clubmoss	SH	G5			
<i>Lycopus virginicus</i>	Virginia Bugleweed	S2	G5			
<i>Lygodium palmatum</i>	Climbing Fern	S1	G4	E		Div. 3(b)
<i>Lysimachia hybrida</i> Synonym(s): <i>Lysimachia lanceolata</i> ssp. <i>hybrida</i>	Lance-leaved Loosestrife	S1	G5			
<i>Lythrum alatum</i> ssp. <i>alatum</i> ²⁶	Winged-loosestrife	S1	G5T5			Div. 2
<i>Malaxis bayardii</i>	Bayard's Adder's-mouth	SNA	G1G2			Div. 1
<i>Malaxis monophyllos</i> var. <i>brachypoda</i> Synonym(s): <i>Malaxis monophyllos</i> ssp. <i>brachypoda</i> , <i>Malaxis brachypoda</i>	White Adder's-mouth	S2S3	G4G5Q	T		Div. 2a
<i>Malaxis unifolia</i>	Green Adder's-mouth	S2	G5			
<i>Minuartia groenlandica</i> Synonym(s): <i>Arenaria groenlandica</i> , <i>Mononeuria groenlandica</i>	Mountain Sandwort	S1	G5			Div. 3b
<i>Minuartia marcescens</i> Synonym(s): <i>Arenaria marcescens</i> , <i>Cherleria marcescens</i>	Marcescent Sandwort	S1	G3	T		Div. 1
<i>Minuartia rubella</i> Synonym(s): <i>Arenaria rubella</i> , <i>Sabulina rubella</i>	Marble Sandwort	S1	G5	T		Div. 2
<i>Moehringia macrophylla</i>	Large-leaved Sandwort	S2	G5			Div. 2
<i>Monarda punctata</i>	Dotted Horsemint	S1	G5			Div. 2
<i>Morus rubra</i>	Red Mulberry	S1	G5	T		Div. 2
<i>Muhlenbergia schreberi</i>	Schreber's Muhly	S2	G5			
<i>Muhlenbergia sobolifera</i>	Sprout Muhly	S2	G5			
<i>Muhlenbergia sylvatica</i>	Woodland Muhly	S1	G5			
<i>Muhlenbergia tenuiflora</i>	Slender Muhly	S3	G5			
<i>Muhlenbergia uniflora</i>	Fall Dropseed Muhly	S3	G5			
<i>Myosotis laxa</i>	Smaller Forget-me-not	S2	G5			
<i>Myosotis verna</i>	Spring Forget-me-not	S1S2	G5			
<i>Myriophyllum alterniflorum</i>	Water Milfoil	S2S3	G5			
<i>Myriophyllum farwellii</i>	Farwell's Water-milfoil	S2S3	G5			
<i>Myriophyllum humile</i>	Low Water-milfoil	S1S2	G5			
<i>Myriophyllum verticillatum</i>	Whorled Water-milfoil	S2S3	G5			
<i>Nabalus boottii</i> Synonym(s): <i>Prenanthes boottii</i>	Boott's Rattlesnake-root	S1	G2	E		Div. 1

26 Based on one historical specimen with questionable ID.

Scientific Name	Common Name	State Rank	Global Rank	State Status	Federal Status	FC Status
<i>Nabalus racemosus</i>	Glaucous Rattlesnake-root	SU	G5			
<i>Nabalus trifoliolatus</i> Synonym(s): <i>Prenanthes trifoliolata</i>	Three-leaved Rattlesnake-root	S3	GNR			
<i>Najas gracillima</i>	Slender Naiad	S2	G5?			
<i>Najas guadalupensis</i> ssp. <i>guadalupensis</i>	Guadalupe Naiad	S2	G5T5			
<i>Neottia auriculata</i> Synonym(s): <i>Listera auriculata</i>	Auricled Twayblade	S1	G3G4	E		Div. 1
<i>Neottia bifolia</i> Synonym(s): <i>Listera australis</i>	Southern Twayblade	S1	G4	E		Div. 2
<i>Neottia convallarioides</i> Synonym(s): <i>Listera convallarioides</i>	Broadleaf Twayblade	S3?	G5			
<i>Neottia cordata</i> Synonym(s): <i>Listera cordata</i>	Heartleaf Twayblade	S3	G5			
<i>Nymphaea leibergii</i>	Dwarf Water-lily	S1	G5	E		Div. 2
<i>Nyssa sylvatica</i>	Black Gum or Tupelo	S3	G5			
<i>Oclemena nemoralis</i> Synonym(s): <i>Aster nemoralis</i>	Bog Aster	S2	G5			
<i>Oenothera nutans</i>	Nodding Evening-primrose	SH	G4			Div. 4
<i>Oenothera villosa</i> ssp. <i>villosa</i>	Hairy Evening-primrose	SU	G5T5?			
<i>Omalothea sylvatica</i> Synonym(s): <i>Gnaphalium sylvaticum</i>	Woodland Cudweed	S2?	G4	E		
<i>Ophioglossum pusillum</i>	Northern Adder's-tongue	S1	G5			Div. 3a
<i>Osmorhiza berteroi</i> Synonym(s): <i>Osmorhiza chilensis</i>	Mountain Sweet-cicely	SH	G5			
<i>Osmorhiza depauperata</i>	Blunt-fruited Sweet-cicely	SH	G5			Div. 4
²⁷ <i>Oxalis violacea</i>	Violet Wood-sorrel	SNA	G5			Div. 2
<i>Panax quinquefolius</i>	American Ginseng	S3	G3G4			Div. 1
<i>Panicum flexile</i>	Stiff Witch-grass	S1	G5	E		Div. 2

27 Based on historical specimen and reports that were never fully verified.

Scientific Name	Common Name	State Rank	Global Rank	State Status	Federal Status	FC Status
<i>Panicum philadelphicum</i> ssp. <i>philadelphicum</i> Synonym(s): <i>Panicum philadelphicum</i> var. <i>philadelphicum</i>	Philadelphia Panic-grass	S1	G5?			
<i>Panicum tuckermanii</i> Synonym(s): <i>Panicum philadelphicum</i> var. <i>tuckermanii</i>	Tuckerman's Panic-grass	S3	G3G5			
<i>Panicum virgatum</i>	Switch Grass	S3	G5			
<i>Parathelypteris simulata</i> Synonym(s): <i>Thelypteris simulata</i>	Massachusetts Fern	S2	G4G5			
<i>Paronychia canadensis</i>	Smooth Forked Chickweed	S1	G5			Div. 3b
<i>Paronychia fastigiata</i> var. <i>fastigiata</i>	Hairy Forked Chickweed	SU	G5T5			Div. 2
<i>Paspalum setaceum</i> var. <i>muhlenbergii</i> Synonym(s): <i>Paspalum ciliatifolium</i>	Slender Paspalum	S2S3	G5TNR			
<i>Pellaea atropurpurea</i>	Purple-stem Cliff-brake	S3	G5			
<i>Pellaea glabella</i> ssp. <i>glabella</i>	Smooth Cliff-brake	S3	G5T5			
<i>Peltandra virginica</i>	Arrowleaf	S2S3	G5			
<i>Penstemon hirsutus</i>	Hairy Beardtongue	S3	G4			
<i>Penstemon pallidus</i>	Pale Beardtongue	S1	G5			
<i>Persicaria careyi</i> Synonym(s): <i>Polygonum careyi</i>	Carey's Smartweed	S1	G4			
<i>Persicaria hydropiperoides</i> Synonym(s): <i>Polygonum hydropiperoides</i>	Mild Water-pepper	S3	G5			
<i>Petasites frigidus</i> var. <i>palmatus</i>	Sweet Coltsfoot	S2	G5T5	T		
<i>Phegopteris hexagonoptera</i> Synonym(s): <i>Thelypteris hexagonoptera</i>	Broad Beech-fern	S2S3	G5			
<i>Phragmites americanus</i> Synonym(s): <i>Phragmites australis</i> ssp. <i>americanus</i>	American Reed	S1S2	G5T5			Div. IND
<i>Physalis grisea</i>	Strawberry-tomato	S1?	G5?			
<i>Physalis longifolia</i> var. <i>subglabrata</i>	Smooth Ground-cherry	SH	G5T4T5			
²⁸ <i>Physostegia virginiana</i> ssp. <i>virginiana</i>	Obedient Plant	S2	G5T5	T		
<i>Pilea fontana</i>	Black-seeded Clearweed	S1?	G5			Div. IND
<i>Pinguicula vulgaris</i>	Butterwort	S1	G5			Div. 2
<i>Pinus banksiana</i>	Jack Pine	SH	G5	T		

28 Only Lake Champlain populations are believed to be native. Other populations not tracked in Natural Heritage Database.

Scientific Name	Common Name	State Rank	Global Rank	State Status	Federal Status	FC Status
<i>Piptatheropsis pungens</i> Synonym(s): <i>Piptatherum pungens</i> , <i>Oryzopsis pungens</i>	Slender Mountain-rice	S2	G5	T		
<i>Platanthera blephariglottis</i> var. <i>blephariglottis</i>	White-fringed Orchid	S2	G4G5T4T5			
<i>Platanthera flava</i> var. <i>herbiola</i>	Tubercled Orchid	S2	G4?T4Q	T		
<i>Platanthera hookeri</i>	Hooker's Orchid	S2	G4	T		
<i>Platanthera huronensis</i> Synonym(s): <i>Platanthera hyperborea</i> var. <i>huronensis</i>	Huron Orchid	S3	G5T5?			Div. IND
<i>Platanthera macrophylla</i>	Large Roundleaf Orchid	S1	G5T4			
<i>Platanthera orbiculata</i>	Roundleaf Orchid	S2	G5TNR			
<i>Poa glauca</i> ssp. <i>glauca</i>	Glaucous Bluegrass	SH	G5T5			Div. 2
<i>Poa interior</i>	Inland Bluegrass	S1	G5T5			Div. 2
<i>Poa laxa</i> ssp. <i>fernaldiana</i> Synonym(s): <i>Poa fernaldiana</i>	Wavy Bluegrass	S1	G5?T3			Div. 1
<i>Poa pratensis</i> ssp. <i>agassizensis</i> ²⁹	Agassiz Kentucky Bluegrass	SH	G5TNR			Div. 2
<i>Poa saltuensis</i> ssp. <i>languida</i> Synonym(s): <i>Poa languida</i>	Lax Bluegrass	S1S2	G5T3T4Q			Div. 2
<i>Poa saltuensis</i> ssp. <i>saltuensis</i> Synonym(s): <i>Poa saltuensis</i>	Drooping Bluegrass	S3	G5			
<i>Podophyllum peltatum</i>	May-apple	S1	G5			Div. 2
<i>Podostemum ceratophyllum</i>	Riverweed	S1	G5			
<i>Pogonia ophioglossoides</i>	Rose Pogonia	S3	G5			
<i>Polemonium vanbruntiae</i>	Eastern Jacob's Ladder	S2	G3G4	T		Div. 1
<i>Polygala polygama</i>	Racemed Milkwort	S2	G5			
<i>Polygala sanguinea</i>	Field Milkwort	S3	G5			
<i>Polygala senega</i>	Seneca Snakeroot	S2S3	G4G5			
<i>Polygala verticillata</i> var. <i>ambigua</i> Synonym(s): <i>Polygala ambigua</i>	Ambiguous Milkwort	S1S2	G5T5?			Div. 2
<i>Polygala verticillata</i> var. <i>verticillata</i> Synonym(s): <i>Polygala verticillata</i>	Whorled Milkwort	S1S2	G5T5?			
<i>Polygonatum biflorum</i>	Common Solomon's-seal	S1	G5			
<i>Polygonum douglasii</i>	Douglas' Knotweed	S2	G5	E		
<i>Polygonum erectum</i>	Erect Knotweed	SH	G5			Div. IND

29 Rare, possibly native subspecies of an otherwise common exotic species.

Scientific Name	Common Name	State Rank	Global Rank	State Status	Federal Status	FC Status
<i>Polygonum tenue</i>	Slender Knotweed	SU	G5			
<i>Polymnia canadensis</i>	White-flowered Leafcup	S1	G5	E		Div. 2
<i>Potamogeton bicupulatus</i>	Snail-seed Pondweed	S2	G4			
<i>Potamogeton confervoides</i>	Tuckerman's Pondweed	S2	G4			
<i>Potamogeton friesii</i>	Fries' Pondweed	S3	G5			
<i>Potamogeton hillii</i>	Hill's Pondweed	S3	G3			Div. 1
<i>Potamogeton obtusifolius</i>	Blunt-leaf Pondweed	S3	G5			
<i>Potamogeton strictifolius</i>	Straight-leaf Pondweed	S2S3	G5			
<i>Potamogeton vaseyi</i>	Vasey's Pondweed	S2	G4			
<i>Potamogeton x ogdenii</i> Synonym(s): <i>Potamogeton ogdenii</i>	Ogden's Pondweed	S1	G1G2			Div. 1
<i>Potentilla litoralis</i> Synonym(s): <i>Potentilla pensylvanica</i> var. <i>pectinata</i>	Northern Cinquefoil	SX	G5T5	E		
<i>Primula mistassinica</i>	Bird's-eye Primrose	S1	G5	T		Div. 3b
<i>Proserpinaca palustris</i>	Marsh Mermaid-weed	S2S3	G5			
<i>Prunus americana</i>	Wild Plum	S1?	G5	T		
<i>Prunus pumila</i> var. <i>depressa</i>	Low Sand Cherry	S2	G5T5			
<i>Prunus susquehanae</i> Synonym(s): <i>Prunus pumila</i> var. <i>cuneata</i> , <i>Prunus pumila</i> var. <i>susquehanae</i> , <i>Prunus cuneata</i>	Susquehanna Sand Cherry	S1	G5T4T5	E		
<i>Pseudognaphalium macounii</i> Synonym(s): <i>Gnaphalium macounii</i>	Winged Cudweed	S3	G5			
<i>Pterospora andromedea</i>	Pinedrops	S1	G5	E		Div. 2
<i>Pycnanthemum incanum</i> var. <i>incanum</i>	Hoary Mountain-mint	S1	G5T5	E		
<i>Pycnanthemum muticum</i>	Blunt Mountain-mint	S1	G5			
<i>Pycnanthemum verticillatum</i> var. <i>verticillatum</i>	Whorled Mountain-mint	S2S3	G5T5			
<i>Pyrola asarifolia</i> ssp. <i>asarifolia</i>	Bog Wintergreen	S2	G5T5	T		
<i>Pyrola chlorantha</i> Synonym(s): <i>Pyrola virens</i>	Green-flower Shinleaf	SU	G5			
<i>Pyrola minor</i>	Lesser Pyrola	S1	G5	E		Div. 3b
<i>Quercus coccinea</i>	Scarlet Oak	S1	G5			
<i>Quercus ilicifolia</i>	Scrub Oak	S1	G5	E		

Scientific Name	Common Name	State Rank	Global Rank	State Status	Federal Status	FC Status
<i>Quercus muehlenbergii</i>	Yellow Oak	S3	G5			
<i>Quercus prinoides</i>	Dwarf Chinquapin Oak	S1	G5	E		
<i>Ranunculus allegheniensis</i>	Allegheny Crowfoot	S2	G4G5	T		
<i>Ranunculus aquatilis</i> var. <i>diffusus</i>	White Water-crowfoot	S3	G5T5			
<i>Ranunculus fascicularis</i>	Early Buttercup	SH	G5			
<i>Ranunculus flabellaris</i>	Yellow Water-crowfoot	S3	G5			
<i>Ranunculus hispidus</i> Synonym(s): <i>Ranunculus hispidus</i> var. <i>hispidus</i>	Bristly Buttercup	S1	G5T5			Div. IND
<i>Ranunculus pensylvanicus</i>	Bristly Crowfoot	S3	G5			
<i>Ranunculus sceleratus</i> var. <i>sceleratus</i>	Cursed Crowfoot	S3	G5T5			
<i>Rhexia virginica</i>	Virginia Meadow-beauty	S1	G5	T		
<i>Rhodiola rosea</i> Synonym(s): <i>Sedum rosea</i>	Roseroot	S1	G5	T		Div. 3b
<i>Rhododendron lapponicum</i>	Lapland Rosebay	S1?	G5			Div. 2
<i>Rhododendron maximum</i>	Great Laurel	S2	G5	T		Div. 3b
<i>Rhododendron periclymenoides</i> Synonym(s): <i>Rhododendron nudiflorum</i>	Pinxter-flower	S1?	G5			
<i>Rhus aromatica</i> var. <i>aromatica</i>	Fragrant Sumac	S3	G5T5			
<i>Rhynchospora capillacea</i>	Capillary Beak-rush	S1	G4	T		Div. 2
<i>Rorippa aquatica</i> Synonym(s): <i>Armoracia lacustris</i> , <i>Armoracia aquatica</i> , <i>Neobeckia aquatica</i>	Lake-cress	S1	G4?	T		Div. 2
<i>Rosa acicularis</i> ssp. <i>sayi</i>	Needle-spine Rose	S1	G5T5	E		Div. 2
<i>Rosa nitida</i>	Shining Rose	S2	G5			
<i>Rudbeckia hirta</i> var. <i>hirta</i> ³⁰	Black-eyed Susan	SH	G5T4T5			Div. IND
<i>Rumex occidentalis</i>	Western Dock	SH	G5T5			Div. 4
<i>Rumex pallidus</i>	Seabeach Dock	SH	G4			
<i>Sagina decumbens</i>	Small Pearlwort	SH	G5			Div. IND
<i>Sagittaria australis</i>	Appalachian Arrowhead	S1?	G5			
<i>Sagittaria engelmanniana</i>	Engelmann's Arrowhead	SH	G5?			
<i>Sagittaria rigida</i>	Sessile-fruited Arrowhead	S3	G5			
<i>Salix amygdaloides</i>	Peach-leaf Willow	S1	G5			Div. 4
<i>Salix candida</i>	Hoary Willow	S3	G5			

30 Regionally rare, possibly native, variety of an otherwise exotic species.

Scientific Name	Common Name	State Rank	Global Rank	State Status	Federal Status	FC Status
<i>Salix pedicellaris</i>	Bog Willow	S2	G5			
<i>Salix pellita</i>	Satiny Willow	S1	G5			
<i>Salix planifolia</i> ssp. <i>planifolia</i>	Tea-leaved Willow	S1	G5T5	T		Div. 2
<i>Salix serissima</i>	Autumn Willow	S1	G5			
<i>Salix uva-ursi</i>	Bearberry Willow	S1	G5	E		Div. 2
<i>Samolus valerandi</i> ssp. <i>parviflorus</i> Synonym(s): <i>Samolus parviflorus</i>	Water Pimpernel	S1	G5T5			
<i>Sanguisorba canadensis</i>	Canada Burnet	S2	G5			
<i>Sanicula canadensis</i> var. <i>canadensis</i>	Short-styled Snakeroot	S2S3	G5T5	T		
<i>Sanicula canadensis</i> var. <i>grandis</i>	Long-styled Snakeroot	SH	G5T3T5	T		Div. 4
<i>Sanicula trifoliata</i>	Long-fruited Snakeroot	S3	G4			
<i>Sassafras albidum</i>	Sassafras	S3	G5			
<i>Saxifraga aizoides</i>	Yellow Mountain Saxifrage	S1	G5			Div. 2
<i>Saxifraga oppositifolia</i> ssp. <i>oppositifolia</i>	Purple Mountain Saxifrage	S1	G5T5			Div. 2
<i>Saxifraga paniculata</i> Synonym(s): <i>Saxifraga aizoon</i> var. <i>neogaea</i>	White Mountain Saxifrage	S1	G5			Div. 2
<i>Scheuchzeria palustris</i>	Pod-grass	S2	G5	T		
<i>Schoenoplectiella purshiana</i> var. <i>purshiana</i> Synonym(s): <i>Schoenoplectus purshianus</i> var. <i>purshianus</i> , <i>Scirpus purshianus</i> var. <i>purshianus</i>	Pursh's Bulrush	S3	G4G5T4T5			
<i>Schoenoplectiella smithii</i> var. <i>setosa</i> Synonym(s): <i>Schoenoplectus smithii</i> var. <i>setosus</i> , <i>Scirpus smithii</i> var. <i>setosus</i>	Smith's Bulrush	S1	G5?TNR			
<i>Schoenoplectiella smithii</i> var. <i>smithii</i> Synonym(s): <i>Schoenoplectus smithii</i> var. <i>smithii</i> , <i>Scirpus smithii</i> var. <i>smithii</i>	Smith's Bulrush	S2	G5?TNR			
<i>Schoenoplectus heterochaetus</i> Synonym(s): <i>Scirpus heterochaetus</i>	Slender Bulrush	S1S2	G5			Div. 2
<i>Schoenoplectus subterminalis</i> Synonym(s): <i>Scirpus subterminalis</i>	Water Bulrush	S3	G5			
<i>Schoenoplectus torreyi</i> Synonym(s): <i>Scirpus torreyi</i>	Torrey's Bulrush	S1S2	G5?			
<i>Scirpus ancistrochaetus</i>	Barbed-bristle Bulrush	S2S3	G3	E	LE	Div. 1
<i>Scirpus georgianus</i>	Georgia Bulrush	S1?	G5			Div. IND

Scientific Name	Common Name	State Rank	Global Rank	State Status	Federal Status	FC Status
<i>Scirpus polyphyllus</i>	Many-leaved Sedge	S3	G5			
³¹ <i>Scleria triglomerata</i>	Whip Nutsedge	SNA	G5			Div. 2
<i>Scrophularia lanceolata</i>	Hare Figwort	S3	G5			
<i>Scrophularia marilandica</i>	Carpenter's-square	SU	G5			
<i>Scutellaria parvula</i> var. <i>missouriensis</i>	Shale Barren Skullcap	S1	G4T4			Div. IND
<i>Scutellaria parvula</i> var. <i>parvula</i>	Small Skullcap	S2	G4T4			Div. 2
<i>Selaginella apoda</i>	Meadow Spikemoss	S3	G5			
<i>Selaginella rupestris</i>	Rock Spikemoss	S3	G5			
<i>Senna hebecarpa</i> Synonym(s): <i>Cassia hebecarpa</i>	Wild Senna	S1	G5	T		Div. 2
<i>Sericocarpus asteroides</i> Synonym(s): <i>Aster paternus</i>	White-topped Aster	SH	G5			
<i>Shepherdia canadensis</i>	Canada Buffaloberry	S3	G5			
<i>Silene stellata</i>	Starry Catchfly	SH	G5			Div. 2
<i>Sisyrinchium angustifolium</i>	Narrow Blue-eyed-grass	S2S3	G5			
<i>Sisyrinchium atlanticum</i>	Eastern Blue-eyed-grass	S1	G5			
<i>Sisyrinchium mucronatum</i>	Slender Blue-eyed-grass	SH	G5			
<i>Solidago brendiae</i>	Brenda's Goldenrod	SH	GNR			
<i>Solidago leiocarpa</i> Synonym(s): <i>Solidago cutleri</i>	Cutler's Goldenrod	S1	G4			Div. 2
<i>Solidago odora</i> ssp. <i>odora</i>	Sweet Goldenrod	SH	G5T5	T		
<i>Solidago patula</i>	Roughleaf Goldenrod	S3	G5			
<i>Solidago ptarmicoides</i> Synonym(s): <i>Aster ptarmicoides</i> , <i>Oligoneuron album</i>	Snowy Aster	S2	G5			Div. 2
<i>Solidago racemosa</i> Synonym(s): <i>Solidago simplex</i> var. <i>racemosa</i> , <i>Solidago simplex</i> ssp. <i>randii</i> var. <i>racemosa</i>	River-ledge Goldenrod	S1	G5T3?			Div. IND
<i>Solidago randii</i> Synonym(s): <i>Solidago simplex</i> var. <i>monticola</i> , <i>Solidago simplex</i> ssp. <i>randii</i> var. <i>monticola</i>	Rand's Mountain Goldenrod	S2S3	G5T4			
<i>Solidago speciosa</i> var. <i>speciosa</i>	Showy Goldenrod	SH	G5T5?			
<i>Solidago squarrosa</i>	Squarrose Goldenrod	S2S3	G4?			
<i>Solidago ulmifolia</i>	Elm-leaved Goldenrod	S1	G5	E		
<i>Sorbus decora</i>	Northern Mountain-ash	S3	G5			

31 Based on a single historical specimen not certainly collected in Vermont.

Scientific Name	Common Name	State Rank	Global Rank	State Status	Federal Status	FC Status
<i>Sorghastrum nutans</i>	Indian Grass	S3	G5			
<i>Sparganium androcladum</i>	Branching Bur-reed	S1	G4G5			Div. IND
<i>Sparganium fluctuans</i>	Water Bur-reed	S3	G5			
<i>Sparganium natans</i> Synonym(s): <i>Sparganium minimum</i>	Lesser Bur-reed	S2S3	G5	T		
<i>Sphenopholis nitida</i>	Shiny Wedgegrass	S1	G5	E		Div. 2a
<i>Sphenopholis obtusata</i>	Blunt Sphenopholis	SH	G5	E		Div. 2
<i>Spinulum canadense</i> Synonym(s): <i>Lycopodium annotinum</i> var. <i>pungens</i>	Stiff Clubmoss	S1	G5T4T5			
<i>Spiranthes casei</i> var. <i>casei</i>	Case's Ladies'-tresses	S2?	G4T4			Div. 2
<i>Spiranthes lacera</i> var. <i>gracilis</i>	Southern Slender Ladies'-tresses	SH	G5T4T5			
<i>Spiranthes lacera</i> var. <i>lacera</i>	Northern Slender Ladies'-tresses	S3	G5T5			
<i>Spiranthes lucida</i>	Shining Ladies'-tresses	S3	G4			
<i>Spiranthes ochroleuca</i>	Yellow Nodding Ladies'-tresses	S3	G4			
<i>Spiranthes romanzoffiana</i>	Hooded Ladies'-tresses	S3	G5			
<i>Sporobolus compositus</i> var. <i>compositus</i> Synonym(s): <i>Sporobolus asper</i>	Rough Dropseed	S2	G5T5	E		
<i>Sporobolus neglectus</i>	Small Dropseed	S1?	G5			Div. 2
<i>Stachys hispida</i> Synonym(s): <i>Stachys tenuifolia</i> var. <i>hispida</i>	Rough Hedge-nettle	SU	G5T4Q			Div. IND
<i>Stachys pilosa</i> var. <i>pilosa</i>	Marsh Woundwort	S2?	G5T5			
<i>Stellaria alsine</i>	Trailing Stitchwort	S2	G5			
<i>Stuckenia filiformis</i> Synonym(s): <i>Potamogeton filiformis</i>	Slender Pondweed	S1	G5			Div. 2
³² <i>Stuckenia x fennica</i>	Hybrid Thread-leaved Pondweed	S1	GNA			
<i>Subularia aquatica</i> var. <i>americana</i> Synonym(s): <i>Subularia aquatica</i> ssp. <i>americana</i>	Water Awlwort	SH	G5T5			
³³ <i>Symphoricarpos albus</i> var. <i>albus</i>	Wild Snowberry	S3	G5T5			
<i>Symphyotrichum boreale</i> Synonym(s): <i>Aster borealis</i>	Boreal Aster	SH	G5			

32 Hybrid of *Stuckenia filiformis* and *S. vaginata*. One parent, *S. vaginata*, has never been documented in Vermont. *Stuckenia filiformis* ssp. *occidentalis* and *Stuckenia x suecica* previously misapplied to Vermont plants.

33 Uncommon, native variety of an otherwise introduced (to Vermont) species.

Scientific Name	Common Name	State Rank	Global Rank	State Status	Federal Status	FC Status
<i>Symphyotrichum ciliolatum</i> Synonym(s): <i>Aster ciliolatus</i>	Ciliolate Aster	S1	G5			
<i>Symphyotrichum laeve</i> var. <i>laeve</i> Synonym(s): <i>Aster laevis</i> var. <i>laevis</i>	Smooth Blue Aster	S2S3	G5T5			
<i>Symphyotrichum lanceolatum</i> var. ³⁴ <i>interior</i> Synonym(s): <i>Aster lanceolatus</i> var. <i>interior</i> , <i>Symphyotrichum lanceolatum</i> ssp. <i>lanceolatum</i> var. <i>interior</i>	Inland Lance-leaf Aster	SU	G5T5			Div. IND
<i>Symphyotrichum ontarionis</i> Synonym(s): <i>Aster ontarionis</i>	Ontario Aster	S1S2	G5			Div. 2
<i>Symphyotrichum prenanthoides</i> Synonym(s): <i>Aster prenanthoides</i>	Crooked-stem Aster	S2?	G4G5			Div. 2
<i>Symphyotrichum racemosum</i> Synonym(s): <i>Aster racemosus</i> , <i>Aster vimineus</i>	Small White Aster	S2	G4G5			
<i>Symphyotrichum tradescantii</i> Synonym(s): <i>Aster tradescantii</i> , <i>Aster vimineus</i> var. <i>saxatilis</i>	Tradescant Aster	S2	G4Q			
<i>Symphyotrichum urophyllum</i> Synonym(s): <i>Aster urophyllus</i> , <i>Aster sagittifolius</i>	White-arrow Aster	S1	G4G5			Div. 2
<i>Taenidia integerrima</i>	Yellow Pimpernel	S2	G5	T		Div. 2
<i>Thalictrum revolutum</i> ³⁵	Waxy Meadow-rue	SNA	G5			
<i>Thalictrum thalictroides</i> Synonym(s): <i>Anemonella thalictroides</i>	Rue-anemone	S1	G5			
<i>Thalictrum venulosum</i>	Border Meadow-rue	S2S3	G5			Div. 2
<i>Toxicodendron radicans</i> ssp. <i>negundo</i> ³⁶	Hairy Climbing Poison-ivy	SH	G5T5			Div. 4
<i>Triantha glutinosa</i> Synonym(s): <i>Tofieldia glutinosa</i>	Sticky False-asphodel	S1	G5	T		
<i>Trichophorum cespitosum</i> Synonym(s): <i>Scirpus cespitosus</i>	Deer-hair Sedge	S1	G5			
<i>Trichophorum planifolium</i> Synonym(s): <i>Scirpus verecundus</i>	Bashful Bulrush	S1	G4G5	E		
<i>Trichostema brachiatum</i> Synonym(s): <i>Isanthus brachiatus</i>	False Pennyroyal	S1	G5			Div. 2
<i>Triglochin maritima</i>	Common Arrow-grass	S1	G5	E		Div. 3b
<i>Trillium cernuum</i>	Nodding Trillium	S3	G5			
<i>Triodanis perfoliata</i> Synonym(s): <i>Specularia perfoliata</i>	Venus's-looking-glass	S2S3	G5			

34 Regionally rare variety of an otherwise common, native species.

35 Based on one historical specimen with questionable identification. Uncertain if present.

36 Regionally rare variety of an otherwise common, native species.

Scientific Name	Common Name	State Rank	Global Rank	State Status	Federal Status	FC Status
<i>Triosteum aurantiacum</i> var. <i>aurantiacum</i>	Coffee Tinker's weed	S3	G5T5			
<i>Triphora trianthophora</i> ssp. <i>trianthophora</i> Synonym(s): <i>Triphora trianthophora</i> var. <i>trianthophora</i> , <i>Triphora trianthophoros</i> var. <i>trianthophoros</i>	Three-bird Orchid	S1	G3G4T3T4	T		
<i>Trisetum spicatum</i> var. <i>pilosiglume</i>	Hairy-glumed False Oats	S1?	G5T3?Q			
<i>Trisetum spicatum</i> var. <i>spicatum</i>	Narrow False Oats	S3	G5TNR			
<i>Ulmus thomasii</i>	Cork Elm	S1	G5	T		Div. 2
<i>Utricularia geminiscapa</i>	Hidden-fruited Bladderwort	S3	G4G5			
<i>Utricularia gibba</i>	Humped Bladderwort	S3	G5			
<i>Utricularia minor</i>	Lesser Bladderwort	S3	G5			
<i>Utricularia purpurea</i>	Purple Bladderwort	S3	G5			
<i>Utricularia radiata</i> Synonym(s): <i>Utricularia inflata</i> var. <i>minor</i>	Inflated Bladderwort	S2S3	G4			
<i>Utricularia resupinata</i>	Northeastern Bladderwort	S1	G4	T		
<i>Uvularia perfoliata</i>	Perfoliate Bellwort	S2	G5			
<i>Vaccinium boreale</i>	Boreal Blueberry	S1	G4			
<i>Vaccinium caespitosum</i> Synonym(s): <i>Vaccinium cespitosum</i>	Dwarf Bilberry	S2	G5			
<i>Vaccinium stamineum</i>	Deerberry	S1	G5	E		
<i>Vaccinium uliginosum</i>	Alpine Bilberry	S2	G5			Div. 3b
<i>Vaccinium vitis-idaea</i>	Mountain Cranberry	S2	G5			
<i>Vahlodea atropurpurea</i> Synonym(s): <i>Deschampsia atropurpurea</i>	Mountain Hairgrass	SH	G5			
<i>Valeriana uliginosa</i>	Marsh Valerian	S1	G4	E		Div. 2
<i>Verbena simplex</i>	Narrow-leaved Vervain	SH	G5			Div. 2
<i>Veronica catenata</i>	Water-speedwell	S1	G5			Div. 2
<i>Veronica serpyllifolia</i> var. <i>humifusa</i> Synonym(s): <i>Veronica serpyllifolia</i> ssp. <i>humifusa</i>	Northern Thyme-leaf Speedwell	SH	G5T5?			
<i>Veronicastrum virginicum</i>	Culver's-root	S1	G4	E		Div. IND
<i>Viburnum edule</i>	Squashberry	S1	G5	T		

Scientific Name	Common Name	State Rank	Global Rank	State Status	Federal Status	FC Status
<i>Viburnum rafinesquianum</i> var. <i>rafinesquianum</i>	Downy Arrowwood	S3	G5T4T5			
<i>Viola lanceolata</i> ssp. <i>lanceolata</i>	Lance-leaved Violet	S1	G5T5	T		
<i>Viola nephrophylla</i>	Northern Bog Violet	SH	G5			
<i>Viola palmata</i> L. ³⁷	Early Blue Violet	S2	G5T5?			
<i>Viola subsinuata</i> ³⁷	Lobed Violet	S1	G3G5			Div. IND
<i>Vulpia octoflora</i> var. <i>tenella</i> Synonym(s): <i>Festuca octoflora</i> var. <i>tenella</i>	Eight-flowered Fescue	S1	G5TNR	E		
<i>Wolffia brasiliensis</i>	Brazilian Water-meal	SU	G5			
<i>Woodsia alpina</i>	Alpine Woodsia	S1	G4G5	E		Div. 2
<i>Woodsia glabella</i>	Smooth Woodsia	S2	G5			Div. 2a
<i>Woodsia obtusa</i> ssp. <i>obtusa</i>	Blunt-leaved Woodsia	S3	G5T5			
<i>Woodwardia virginica</i> Synonym(s): <i>Anchistea virginica</i>	Virginia Chain-fern	S1	G5	T		
<i>Xyris difformis</i> var. <i>difformis</i>	Bog Yellow-eyed-grass	SH	G5T5			
<i>Xyris montana</i>	Northern Yellow-eyed-grass	S1	G5	T		
<i>Zannichellia palustris</i>	Horned Pondweed	S1S2	G5			

37 *Viola triloba* is now part of *V. palmata* (L.) *Viola subsinuata* is the currently accepted name for *V. palmata* of authors other than L.

SYNONYMY INDEX

SYNONYM	CURRENT NAME	SYNONYM	CURRENT NAME
Agropyron trachycaulum	Elymus trachycaulus	Clematis occidentalis var. occidentalis	Clematis occidentalis ssp. occidentalis
Agrostis borealis	Agrostis mertensii	Clematis verticillaris	Clematis occidentalis ssp. occidentalis
Allium burdickii	Allium tricoccum var. burdickii	Crataegus asperifolia	Crataegus scabrida var. asperifolia
Alnus viridis ssp. crispa	Alnus alnobetula ssp. crispa	Crataegus chrysocarpa var. blanchardii	Crataegus irrasa var. blanchardii
Anchistea virginica	Woodwardia virginica	Crataegus chrysocarpa var. faxonii	Crataegus faxonii
Andersonglossum boreale	Cynoglossum virginianum var. boreale	Crataegus cyclophylla	Crataegus scabrida var. cyclophylla
Anemonella thalictroides	Thalictrum thalictroides	Crataegus egglestonii	Crataegus scabrida var. egglestonii
Anticlea elegans ssp. glauca	Anticlea glauca	Crataegus pisifera	Crataegus succulenta var. pisifera
Anticlea elegans ssp. glaucus	Anticlea glauca	Cynoglossum boreale	Cynoglossum virginianum var. boreale
Arabis drummondii	Boechnera stricta	Cynoglossum virginianum ssp. boreale	Cynoglossum virginianum var. boreale
Arabis lyrata	Arabidopsis lyrata	Cyperus aristatus	Cyperus squarrosus
Arabis missouriensis	Borodinia missouriensis	Cypripedium calceolus var. pubescens	Cypripedium parviflorum var. pubescens
Arenaria groenlandica	Minuartia groenlandica	Cypripedium pubescens	Cypripedium parviflorum var. pubescens
Arenaria marcescens	Minuartia marcescens	Dactylorhiza viridis	Coeloglossum viride
Arenaria rubella	Minuartia rubella	Deschampsia atropurpurea	Vahlodea atropurpurea
Armoracia aquatica	Rorippa aquatica	Dichanthelium acuminatum ssp. columbianum	Dichanthelium columbianum
Armoracia lacustris	Rorippa aquatica	Dichanthelium dichotomum ssp. dichotomum	Dichanthelium dichotomum var. dichotomum
Arnica mollis var. petiolaris	Arnica lanceolata ssp. lanceolata	Dichanthelium oligosanthes var. scribnerianum	Dichanthelium oligosanthes ssp. scribnerianum
Asplenium trichomanes-ramosum	Asplenium viride	Diphasiastrum x sabinifolium	Diphasiastrum sabinifolium
Aster borealis	Symphyotrichum boreale	Diplazium pycnocarpon	Homalosorus pycnocarpus
Aster ciliolatus	Symphyotrichum ciliolatum	Draba breweri var. cana	Draba cana
Aster laevis var. laevis	Symphyotrichum laeve var. laeve	Elatine triandra var. americana	Elatine americana
Aster lanceolatus var. interior	Symphyotrichum lanceolatum var. interior	Eleocharis pauciflora	Eleocharis quinqueflora
Aster nemoralis	Oclemena nemoralis	Empetrum camesii ssp. atropurpureum	Empetrum atropurpureum
Aster ontarionis	Symphyotrichum ontarionis	Eupatorium fistulosum	Eutrochium fistulosum
Aster paternus	Sericocarpus asteroides	Eupatorium purpureum var. purpureum	Eutrochium purpureum var. purpureum
Aster prenanthoides	Symphyotrichum prenanthoides	Festuca octoflora var. tenella	Vulpia octoflora var. tenella
Aster ptarmicoides	Solidago ptarmicoides	Gnaphalium macounii	Pseudognaphalium macounii
Aster racemosus	Symphyotrichum racemosum	Gnaphalium sylvaticum	Omalotheca sylvatica
Aster radula	Eurybia radula	Helianthemum bicknellii	Crocianthemum bicknellii
Aster sagittifolius	Symphyotrichum urophyllum	Helianthemum canadense	Crocianthemum canadense
Aster tradescantii	Symphyotrichum tradescantii	Hierochloe alpina ssp. orthantha	Anthoxanthum monticola ssp. monticola
Aster urophyllus	Symphyotrichum urophyllum	Hudsonia ericoides ssp. tomentosa	Hudsonia tomentosa
Aster vimineus	Symphyotrichum racemosum	Huperzia appalachiana	Huperzia appressa
Benthamidia florida	Cornus florida	Hypericum pyramidatum	Hypericum ascyron
Boechnera brachycarpa	Boechnera grahamii	Isanthus brachiatus	Trichostema brachiatum
Boechnera missouriensis	Borodinia missouriensis	Isoetes macrospora	Isoetes lacustris
Botrychium simplex var. tenebrosum	Botrychium tenebrosum	Juncus alpinus	Juncus alpinoarticulatus
Callitriche heterophylla ssp. heterophylla	Callitriche heterophylla var. heterophylla	Lathyrus maritimus	Lathyrus japonicus var. maritimus
Calypso bulbosa ssp. americana	Calypso bulbosa var. americana	Lechea villosa	Lechea mucronata
Calystegia sepium var. fraterniflora	Calystegia silvatica ssp. fraterniflora	Listera auriculata	Neottia auriculata
Cardamine pratensis var. palustris	Cardamine dentata	Listera australis	Neottia bifolia
Cardamine rhomboidea	Cardamine bulbosa	Listera convallarioides	Neottia convallarioides
Carex abdita	Carex umbellata	Listera cordata	Neottia cordata
Carex atlantica ssp. capillacea	Carex atlantica var. capillacea	Lycopodium annotinum var. pungens	Spinulum canadense
Carex emmonsii	Carex albicans var. emmonsii	Lycopodium appressum	Lycopodiella appressa
Carex tenera var. echinodes	Carex echinodes	Lycopodium complanatum	Diphasiastrum complanatum
Cassia hebecarpa	Senna hebecarpa	Lycopodium sabinifolium	Diphasiastrum sabinifolium
Cassia nictitans	Chamaecrista nictitans var. nictitans	Lysimachia lanceolata ssp. hybrida	Lysimachia hybrida
Ceanothus ovatus	Ceanothus herbaceus	Malaxis brachypoda	Malaxis monophyllos var. brachypoda
Cerastium nutans var. nutans	Cerastium nutans ssp. nutans		
Chamaesyce nutans	Euphorbia nutans		
Chenopodium capitatum var. capitatum	Blitum capitatum ssp. capitatum		
Cherleria marcescens	Minuartia marcescens		

SYNONYM	CURRENT NAME	SYNONYM	CURRENT NAME
<i>Lycopodium annotinum</i> var. <i>pungens</i>	<i>Spinulum canadense</i>	<i>Scirpus heterochaetus</i>	<i>Schoenoplectus heterochaetus</i>
<i>Lycopodium appressum</i>	<i>Lycopodiella appressa</i>	<i>Scirpus purshianus</i> var. <i>purshianus</i>	<i>Schoenoplectiella purshiana</i> var. <i>purshiana</i>
<i>Lycopodium complanatum</i>	<i>Diphasiastrum complanatum</i>		<i>Schoenoplectiella smithii</i> var. <i>smithii</i>
<i>Lycopodium sabinifolium</i>	<i>Diphasiastrum sabinifolium</i>	<i>Scirpus smithii</i> var. <i>smithii</i>	<i>Schoenoplectiella smithii</i> var. <i>setosa</i>
<i>Lysimachia lanceolata</i> ssp. <i>hybrida</i>	<i>Lysimachia hybrida</i>	<i>Scirpus smithii</i> var. <i>setosus</i>	<i>Schoenoplectus subterminalis</i>
<i>Malaxis brachypoda</i>	<i>Malaxis monophyllos</i> var. <i>brachypoda</i>	<i>Scirpus subterminalis</i>	<i>Schoenoplectus torreyi</i>
<i>Malaxis monophyllos</i> ssp. <i>brachypoda</i>	<i>Malaxis monophyllos</i> var. <i>brachypoda</i>	<i>Scirpus torreyi</i>	<i>Trichophorum planifolium</i>
<i>Mimulus moschatus</i>	<i>Erythranthe moschata</i>	<i>Scirpus verecundus</i>	<i>Rhodiola rosea</i>
<i>Mononeuria groenlandica</i>	<i>Minuartia groenlandica</i>	<i>Sedum rosea</i>	<i>Solidago leiocarpa</i>
<i>Neobeckia aquatica</i>	<i>Rorippa aquatica</i>	<i>Solidago cutleri</i>	<i>Solidago randii</i>
<i>Oligoneuron album</i>	<i>Solidago ptarmicoides</i>	<i>Solidago simplex</i> ssp. <i>randii</i> var. <i>monticola</i>	
<i>Oreojuncus trifidus</i>	<i>Juncus trifidus</i>	<i>Solidago simplex</i> ssp. <i>randii</i> var. <i>racemosa</i>	<i>Solidago racemosa</i>
<i>Oryzopsis pungens</i>	<i>Piptatheropsis pungens</i>		
<i>Osmorhiza chilensis</i>	<i>Osmorhiza berteroi</i>	<i>Sorengia longifolia</i> ssp. <i>rigidula</i>	<i>Coleataenia rigidula</i> ssp. <i>rigidula</i>
<i>Panicum columbianum</i>	<i>Dichanthelium columbianum</i>	<i>Sparganium minimum</i>	<i>Sparganium natans</i>
<i>Panicum dichotomum</i> var. <i>dichotomum</i>	<i>Dichanthelium dichotomum</i> var. <i>dichotomum</i>	<i>Specularia perfoliata</i>	<i>Triodanis perfoliata</i>
<i>Panicum philadelphicum</i> var. <i>philadelphicum</i>	<i>Panicum philadelphicum</i> ssp. <i>philadelphicum</i>	<i>Sporobolus asper</i>	<i>Sporobolus compositus</i> var. <i>compositus</i>
<i>Panicum philadelphicum</i> var. <i>tuckermanii</i>	<i>Panicum tuckermanii</i>	<i>Stachys tenuifolia</i> var. <i>hispida</i>	<i>Stachys hispida</i>
<i>Panicum sphaerocarpon</i>	<i>Dichanthelium sphaerocarpon</i>	<i>Subularia aquatica</i> ssp. <i>americana</i>	<i>Subularia aquatica</i> var. <i>americana</i>
<i>Panicum xanthophyllum</i>	<i>Dichanthelium xanthophyllum</i>	<i>Symphyotrichum lanceolatum</i> ssp. <i>lanceolatum</i> var. <i>interior</i>	<i>Symphyotrichum lanceolatum</i> var. <i>interior</i>
<i>Paspalum ciliatifolium</i>	<i>Paspalum setaceum</i> var. <i>muhlenbergii</i>	<i>Thelypteris hexagonoptera</i>	<i>Phegopteris hexagonoptera</i>
<i>Phragmites australis</i> ssp. <i>americanus</i>	<i>Phragmites americanus</i>	<i>Thelypteris simulata</i>	<i>Parathelypteris simulata</i>
<i>Physalis grandiflora</i>	<i>Leucophysalis grandiflora</i>	<i>Tillaea aquatica</i>	<i>Crassula aquatica</i>
<i>Piptatherum pungens</i>	<i>Piptatheropsis pungens</i>	<i>Tofieldia glutinosa</i>	<i>Triantha glutinosa</i>
<i>Platanthera hyperborea</i> var. <i>huronensis</i>	<i>Platanthera huronensis</i>	<i>Trichomanes intricatum</i>	<i>Crepidomanes intricatum</i>
<i>Poa fernaldiana</i>	<i>Poa laxa</i> ssp. <i>fernaldiana</i>	<i>Triphora trianthophora</i> var. <i>trianthophora</i>	<i>Triphora trianthophora</i> ssp. <i>trianthophora</i>
<i>Poa languida</i>	<i>Poa saltuensis</i> ssp. <i>languida</i>	<i>Triphora trianthophoros</i> var. <i>trianthophoros</i>	<i>Triphora trianthophora</i> ssp. <i>trianthophora</i>
<i>Polygala ambigua</i>	<i>Polygala verticillata</i> var. <i>ambigua</i>	<i>Trisetum melicoides</i>	<i>Graphephorum melicoides</i>
<i>Polygala verticillata</i>	<i>Polygala verticillata</i> var. <i>verticillata</i>	<i>Utricularia inflata</i> var. <i>minor</i>	<i>Utricularia radiata</i>
<i>Polygonum careyi</i>	<i>Persicaria careyi</i>	<i>Vaccinium cespitosum</i>	<i>Vaccinium caespitosum</i>
<i>Polygonum hydropiperoides</i>	<i>Persicaria hydropiperoides</i>	<i>Veronica serpyllifolia</i> ssp. <i>humifusa</i>	<i>Veronica serpyllifolia</i> var. <i>humifusa</i>
<i>Polygonum viviparum</i>	<i>Bistorta vivipara</i>	<i>Zigadenus elegans</i> ssp. <i>glaucus</i>	<i>Anticlea glauca</i>
<i>Potamogeton filiformis</i>	<i>Stuckenia filiformis</i>		
<i>Potamogeton ogdenii</i>	<i>Potamogeton x ogdenii</i>		
<i>Potentilla arguta</i>	<i>Drymocallis arguta</i>		
<i>Potentilla pensylvanica</i> var. <i>pectinata</i>	<i>Potentilla litoralis</i>		
<i>Prenanthes boottii</i>	<i>Nabalus boottii</i>		
<i>Prenanthes trifoliolata</i>	<i>Nabalus trifoliolatus</i>		
<i>Prunus pumila</i> var. <i>cuneata</i>	<i>Prunus susquehannae</i>		
<i>Prunus pumila</i> var. <i>susquehannae</i>	<i>Prunus susquehannae</i>		
<i>Pyrola virens</i>	<i>Pyrola chlorantha</i>		
<i>Ranunculus hispidus</i> var. <i>hispidus</i>	<i>Ranunculus hispidus</i>		
<i>Rhododendron nudiflorum</i>	<i>Rhododendron periclymenoides</i>		
<i>Sabulina rubella</i>	<i>Minuartia rubella</i>		
<i>Samolus parviflorus</i>	<i>Samolus valerandi</i> ssp. <i>parviflorus</i>		
<i>Saxifraga aizoon</i> var. <i>neogaea</i>	<i>Saxifraga paniculata</i>		
<i>Sceptridium multifidum</i>	<i>Botrychium multifidum</i>		
<i>Sceptridium oneidense</i>	<i>Botrychium oneidense</i>		
<i>Sceptridium rugulosum</i>	<i>Botrychium rugulosum</i>		
<i>Schoenoplectus purshianus</i> var. <i>purshianus</i>	<i>Schoenoplectiella purshiana</i> var. <i>purshiana</i>		
<i>Schoenoplectus smithii</i> var. <i>setosus</i>	<i>Schoenoplectiella smithii</i> var. <i>setosa</i>		
<i>Schoenoplectus smithii</i> var. <i>smithii</i>	<i>Schoenoplectiella smithii</i> var. <i>smithii</i>		
<i>Scirpus cespitosus</i>	<i>Trichophorum cespitosum</i>		

Explanation of Legal Status and Information Ranks

State Rank and Global Rank - Value that best characterizes the relative rarity (abundance) or endangerment of a native taxon within Vermont's geographic boundary or throughout its range, respectively. Ranks are as follows:

- 1 - Very rare (Critically imperiled): At very high risk of extinction or extirpation due to extreme rarity (often 5 or fewer populations or occurrences), very steep declines, or other factors
- 2 - Rare (Imperiled): At high risk of extinction or extirpation due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors
- 3 - Uncommon (Vulnerable): Moderate risk of extinction/extirpation due to restricted range, relatively few populations or occurrences (often 80 or fewer), recent and widespread declines, or other factors
- 4 - General, regular, and apparently secure: May be locally uncommon or widely scattered but not uncommon on a statewide basis
- 5 - Common (Secure): widespread and abundant
- H - Possibly extinct/extirpated: Missing; only historical occurrences but potential for rediscovery
- X - Presumed extinct/extirpated: Not located despite intensive searches and little likelihood of rediscovery
- U - Unrankable: Currently unrankable due to lack of information or substantially conflicting information about status or trends
- NR - Not ranked: Not yet assessed
- NA - Not applicable. Element is not a suitable target for conservation for one of the following reasons: Hybrid, Exotic Origin, Accidental/Nonregular, Not Confidently Present, No Definable Occurrences

Uncertainty may be indicated, either in the form of a range rank (e.g. S1S3) or a ? qualifier following a numeric rank. For global ranks only, a T-rank indicates an infraspecies, and a Q qualifier following the rank indicates uncertain taxonomy.

State Status - Legal protection under Vermont Endangered Species Law (10 V.S.A. Chap. 123)

- E = Endangered: in immediate danger of becoming extirpated in the state
- T = Threatened: with high possibility of becoming endangered in the near future
- PDL = Proposed for Delisting
- PE = Proposed for Endangered Status (not legally protected by 10 V.S.A. Chap. 123)
- PT = Proposed for Threatened Status (not legally protected by 10 V.S.A. Chap. 123)
- RE = Recommended (by the Endangered Species Committee) for Endangered Status (not legally protected)
- RT = Recommended (by the Endangered Species Committee) for Threatened Status (not legally protected)
- RDL = Recommended (by the Endangered Species Committee) for Delisting

Federal Status - Legal protection under the federal Endangered Species Act, U.S. Fish & Wildlife Service

- LE = Listed Endangered
- LT = Listed Threatened
- PDL = Proposed for Delisting
- C = Candidate for Listing (not legally protected under ESA)
- SC = Species of Concern (not legally protected under ESA)

FC Status - Flora Conservanda status (2012), New England Plant Conservation Program. Not a legal designation.

See <http://www.newfs.org/conservation/saving-imperiled-plants/flora-conservanda> for more information.

- Div. 1 - Globally and Regionally Rare Taxa in New England
- Div. 2 - Regionally Rare Taxa in New England - typically fewer than 20 populations.
- Div. 2a - Regionally Rare Taxa in New England - slightly more than 20 occurrences, but is vulnerable to extirpation
- Div. 3a - Declining in a substantial portion of their range in New England
- Div. 3b - Disjunct and rare in a portion of New England.
- Div. 4 - Historic or extirpated species in New England
- Div. IND - Indeterminate Taxa - under review for inclusion, but taxonomy, nomenclature, or status in the wild is not clearly understood.

VERMONT RARE PLANT FORM
Vermont Natural Heritage Inventory

rev. Nov.2017

Latin Name: _____ **EO# (if known):** _____ **New:** _____ **Update:** _____

Surveyor(s): _____
Mailing address (phone, email): _____

Survey Date(s): _____ **Report Date:** _____

Survey Site: _____ **Town(s):** _____

Directions to location(s) of plants:

Are plants in same location(s) as previously observed? _____

LANDOWNER(S) / CONTACT(S) (Name, Telephone, Address, Email—if not in a Site Summary Form) **Permission?**

_____ ☐
_____ ☐

BIOLOGY

Approximate #	Population Area(s)	Phenology (% or #)
_____ ramets (Stems originating separately from ground)	(e.g. 30x10ft; 1m ² ; 0.5 acre, 1ha) _____ _____	_____ in leaf _____ in bud _____ in flower
_____ genets (Presumed genetic individuals, e.g. clumps, patches, stems)	_____ _____	_____ immature fruit _____ mature fruit _____ dormant

Verbal synopsis of above biological data and evidence of reproduction (if not found, discuss search effort):

SURVEY SITE & HABITAT INFORMATION (if not provided in a Site Summary Form or previous form)

Survey site description:

Substrate: _____ **Topographic position:** _____

Aspect: _____ **Slope:** _____ **Elevation (in feet):** minimum _____ maximum _____

Light: _____ **Moisture:** _____

Associated plant species observed (immediate vicinity):

IDENTIFICATION Characteristics used for plant ID.Photos taken: ☐

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Specimen collected? ☐ Collection #: _____ Collector (s): _____ Repository: _____
(A permit is required to collect Threatened & Endangered species)

CONSERVATION SUMMARY

Is the habitat likely to persist? _____

Explain any threats: _____

Conservation, management, and inventory needs:

Full extent of population known? Amount or percent of habitat searched:

Comments that do not fit in another field:

MAPPING (required if not provided in a Site Summary)

Attach a copy of Map or Aerial Image showing the rare plant location(s): ☐

(Keep in mind that if an area occupied is longer or wider than 12.5 meters, we prefer to map a polygon or line)

AND/OR: Attach shapefile (must be *NAD83 State Plane*) ☐; GPS point printout ☐; or write out GPS coordinates below:

GPS Points:		Datum (required; NAD83 preferred): _____
		Accuracy (if known): +/- _____ meters ☐ /feet ☐

Optional: Sketches with rare plant location(s), direction & scale: 1) Cross-section of local topography; 2) Diagram of site with survey route

Please send completed forms to Bob Popp: Bob.Popp [at] vermont.gov / Vermont Natural Heritage Inventory, Vermont Fish & Wildlife Department, 5 Perry St., Suite 40, Barre, VT 05641 / (802)-476-0127

STATE OF VERMONT
PUBLIC UTILITY COMMISSION

Case No. 20-1611-INV

Investigation pursuant to 30 V.S.A. §§ 30 and 209 into whether the petitioner initiated site preparation at Apple Hill in Bennington, Vermont, for electric generation in violation of 30 V.S.A. § 248(a)(2)	
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Order entered: 06/11/2021

PROCEDURAL ORDER DEFERRING RULING ON REQUEST FOR STAY

I. INTRODUCTION

On April 1, 2021, the Vermont Public Utility Commission (“Commission”) issued an order in this proceeding finding that Allco Renewable Energy Limited and its affiliates (collectively, “Allco”) had begun site preparation without a certificate of public good (“CPG”), and we enjoined Allco from any further site preparation without a CPG (the “Injunction Order”). We also directed the parties to confer and file a proposed schedule for the penalty phase of this proceeding by no later than the close of business on Friday, April 16, 2021.

On April 2, 2021, Allco filed notice that it was appealing the Injunction Order to the Vermont Supreme Court. Allco also appealed our issuance of a temporary restraining order in this case. On November 5, 2020, the Vermont Supreme Court dismissed that appeal “without prejudice to refile it if a preliminary injunction is granted.”¹

On April 16, 2021, Allco filed a motion (the “Allco Motion”) requesting that the Commission stay the penalty phase of these proceedings because the “Commission has been divested on all matters relating to the scope of the Appeal.”²

¹ See *In re Investigation Pursuant to 30 V.S.A. §§ 30 and 209 into whether Petitioner Initiated Site Preparation at Apple Hill in Bennington, VT (Allco Renewable Energy Limited et al.)*, Supreme Court Docket No. 2020-242, November Term, Entry Order of 11/5/20 at 2.

² Allco Motion at 2. This motion was signed by Michael Melone, Esq., on behalf of Allco Renewable Energy Limited. The motion was written as a request of Otter Creek Solar LLC, a subsidiary of Allco that is not a party in this proceeding. The Allco subsidiaries that are participating in this proceeding include Chelsea Solar LLC, Apple Hill Solar LLC, PLC Vineyard Sky LLC, and PLH LLC, but not Otter Creek Solar LLC. We consider the reference to Otter Creek Solar LLC to be an administrative filing error and that the motion was requested by Allco Renewable Energy Limited, which is a party to this proceeding.

Also on April 16, 2021, the Vermont Agency of Natural Resources (“ANR”) and the Vermont Department of Public Service (“Department”) each filed responses to the Allco Motion. Both ANR and the Department disagreed with Allco’s assertion that the pending appeal divests the Commission of jurisdiction over the penalty phase but did not object to a stay of the penalty phase in this proceeding.

On April 21, 2021, the Intervenor³s filed comments responding to the Allco Motion. The Intervenor³s oppose the Allco Motion, disagree with Allco’s assertion that the Commission has been divested of its jurisdiction by Allco’s appeal, and recommend that the Commission proceed with the penalty phase without delay to preserve the integrity of the Commission’s permitting process.

As discussed below, we also disagree with Allco’s assertion that the Commission is divested of jurisdiction in this matter. Allco’s appeal of the Injunction Order is premature and would not result in a final resolution of this case. We therefore could proceed with the penalty phase of this proceeding. However, to avoid any complications that might arise from going forward while the case is also on appeal, the Commission defers ruling on the Allco Motion until after the Vermont Supreme Court determines whether it will hear Allco’s premature appeal of the Injunction Order. If the Vermont Supreme Court decides it will take jurisdiction of the appeal we will then address the merits of the request to stay the penalty phase of the case.

II. DISCUSSION

The Allco Motion seeks a stay of the penalty phase of this proceeding and contends that our jurisdiction over this proceeding has been divested by Allco’s appeal of the Injunction Order to the Vermont Supreme Court. We are not persuaded for two reasons. First, the Injunction Order is not a final order in this proceeding, and Allco’s appeal is therefore premature. We will issue a final order in this proceeding after a civil penalty is determined at which time our complete decision in this matter will be appealable. Second, even if Allco’s appeal were not premature, Allco has not met the standard for granting a stay. Thus, we cannot grant the Allco Motion at this time. Rather, for the reasons noted above, we defer a ruling on whether to proceed until the Vermont Supreme Court decides whether it will hear Allco’s appeal.

³ Apple Hill Homeowners Association, Mount Anthony Country Club, and Libby Harris.

A. The Allco Appeal Was Filed Prematurely

In Vermont, “when a proper notice of appeal from a final judgment or order of an administrative agency is filed the cause is transferred to the Supreme Court, and the agency is divested of jurisdiction as to all matters within the scope of the appeal.”⁴ Thus, not every appeal automatically divests an agency of jurisdiction. Rather, jurisdiction is removed from the agency only when there has been the filing of a proper notice of appeal “from a *final* judgment.”⁵ The Vermont Supreme Court has declared that “[t]he judgment rendered must *conclude* the litigation in the court below to the extent that if no exceptions were taken, the controversy would end, and the case would pass out of court.”⁶

This proceeding is an investigation pursuant to 30 V.S.A. §§ 30 and 209 into whether the petitioner initiated site preparation at Apple Hill in Bennington, Vermont, for electric generation in violation of 30 V.S.A. § 248(a)(2). The Injunction Order is not a final order in this proceeding, as it does not “conclude the litigation.”⁷ A final order requires our determination of a civil penalty amount.

As part of our response to Allco’s site-clearing activities, the Commission initiated this investigation, conducted two evidentiary hearings, and issued both a temporary restraining order and the Injunction Order. Based on the evidence in the record, we also concluded that Allco’s actions at the Apple Hill site were site preparation for an electric generation facility without a certificate of public good (“CPG”). Allco’s action thus violated 30 V.S.A. § 248(a)(2)(A), which requires a CPG before site preparation may begin. Consequently, as noted multiple times in our Injunction Order, Allco’s violation warrants additional process to address the issuance of a civil penalty for that violation of Section 248 under 30 V.S.A. § 30:

We also direct that Allco communicate with the other parties and file a schedule for the next phase of this proceeding. This next phase of the proceeding will determine the civil penalty Allco must pay under Section 30 of Title 30 for

⁴ *Petition of Ratepayers, et al.*, Docket 4701, Order of 6/7/85, at 2 (alteration marks omitted) (appeal of Commission order directing utilities to take preliminary corrective action was not a final order and did not divest Commission from taking jurisdiction to take further action in show-cause proceeding) (quoting *Kotz v. Kotz*, 134 Vt. 36, 38 (1975)).

⁵ *Id.* (emphasis added).

⁶ Docket 4701, Order of 6/7/85, at 3 (emphasis added) (quoting *Appliance Acceptance Co. v. Raymond*, 121 Vt. 153, 155 (1959)).

⁷ *Id.*

violating Section 248(a)(2) of Title 30 by conducting site preparation without a CPG on Apple Hill in June 2020.⁸

Indeed, it is that same additional process—the determination of a penalty amount—that Allco seeks to have stayed during the pendency of the appeal. Because we have not yet begun, much less concluded, the penalty phase of this proceeding, the Injunction Order does *not* “conclude the litigation in the court below.”⁹ If Allco wished to appeal the Injunction Order, it should have requested the Commission’s permission to bring an interlocutory appeal to allow for piecemeal review by the Vermont Supreme Court before a final order is issued.¹⁰

The Allco appeal was prematurely filed and does not divest the Commission of its jurisdiction to address the penalty phase of this proceeding. Nevertheless, for the reasons noted earlier, we defer a ruling on whether to proceed at this time. We must first see whether the Vermont Supreme Court decides to hear Allco’s appeal.

B. The Allco Motion Does Not Meet the Standard for a Stay

Even assuming, for the sake of argument, that Allco had filed a proper appeal of a final order, Allco has not demonstrated that it meets the standard for obtaining a stay pending appeal. Under Vermont law, “neither the time for filing a notice of appeal nor the filing of a notice of appeal, . . . shall operate as a stay of enforcement of an order of the Commission unless the Commission or the Supreme Court grants a stay.”¹¹ As a general rule, when a court order

⁸ Injunction Order at 3; *see also id.* at 16 (“We direct the parties to propose a schedule for the proceeding to address an appropriate civil penalty to be issued against Allco pursuant to 30 V.S.A. § 30.”); *id.* at 30 (“To further substantiate the extent of that civil penalty, additional proceedings are required to document the factual basis for the amount of that penalty using the criteria addressed in 30 V.S.A. § 30. The parties are therefore directed to confer and Allco is directed to propose a schedule for the penalty phase of this proceeding by no later than the close of business on Friday, April 16, 2021.”); *id.* at 31 Order ¶ 3 (“The parties are directed to confer and Allco is directed to file a proposed schedule for the penalty phase of this investigation by no later than the close of business on Friday, April 16, 2021.”). Although the signature page of the Injunction Order contained the standard “appeal tag” giving notice to parties that any appeal must be filed within 30 days, our inclusion of that language was a clerical error, as is made clear by the fact that multiple other parts of the decision specify that further proceedings—to determine the penalty amount—are necessary.

⁹ *Petition of Ratepayers, et al.*, Docket 4701, Order of 6/7/85, at 3 (quoting *Appliance Acceptance Co. v. Raymond*, 121 Vt. 153, 155 (1959)); *compare State of Vermont Agency on Natural Resources v. Parkway Cleaners*, 209 Vt. 620, 637 (2019) (court issued final order that included injunction as well as findings as to environmental harm and penalty requiring compliance with statutory obligations).

¹⁰ *See* V.R.A.P. 5 & 5.1; 30 V.S.A. § 12 (“[T]he Commission, in its discretion and before final judgment, may permit an appeal to be taken by any party to the Supreme Court for determination of questions of law in such manner as the Supreme Court may by rule provide for appeals before final judgment from a Superior Court.”).

¹¹ 30 V.S.A. § 12.

imposes injunctive relief and requires the payment of a penalty, an appeal of that order to the Vermont Supreme Court does not stay an order on injunctive relief, but does stay the requirement that a respondent pay a penalty.¹²

Allco does not argue that it meets the standard for staying the Injunction Order. To prevail on a motion for a stay, the moving party must demonstrate: (1) a strong likelihood of success on the merits; (2) irreparable injury if the stay is not granted; (3) the stay will not substantially harm other parties; and (4) the stay will serve the best interests of the public.¹³ A trial court (or, here, the Commission) has discretion in granting or denying a motion for stay pending appeal. Discretionary rulings will not be disturbed unless an abuse of discretion is clearly shown.¹⁴ As the moving party, Allco has failed to address the four-part test for a stay of these proceedings. Thus, Allco does not appear to be requesting that we stay the imposition of the Injunction Order. Rather, Allco requests only that we stay any further proceedings.

There is no basis for issuing a stay. We have not yet issued a final order addressing the appropriate civil penalty to be issued against Allco for its unpermitted site preparation activity on Apple Hill. Any delay in doing so would delay the ultimate resolution of this matter.

III. CONCLUSION

For judicial efficiency and in response to the requests of Allco, ANR, and the Department that we avoid proceeding with this case while an appeal is pending, we defer ruling on the Allco Motion until the Vermont Supreme Court determines whether it will hear Allco's appeal. If the Vermont Supreme Court decides it will take jurisdiction of the appeal we will then address the merits of the request to stay the penalty phase of the case.

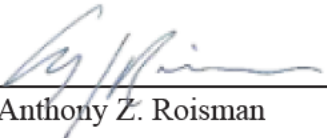
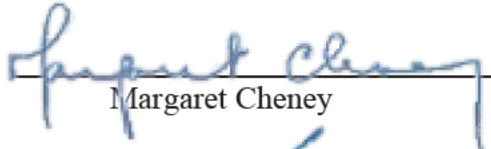
SO ORDERED.

¹² See, e.g., V.R.A.P. 8 (requiring a motion to stay injunctive relief pending appeal); 10 V.S.A. § 8013 (“An appeal by a respondent or the Attorney General to the Supreme Court shall not stay an order, but shall stay payment of a penalty.”); 4 V.S.A. § 1107(a) (“An appeal shall stay payment of a penalty . . .”); V.R.C.P. 80.6(h)(2) (payment of restitution in environmental case stayed pending appeal); see also, e.g., *ANR v. Persons*, 2012 WL 8880772 (Vt. Super. Ct. Envtl. Div. Nov. 16, 2012) at 1. These statutory provisions and cases are further support for our holding above that Allco should have waited until the penalty phase of this proceeding concluded before filing an appeal.

¹³ *Gilbert v. Gilbert*, 163 Vt. 549, 560 (1995) (citing *In re Insurance Servs. Office, Inc.*, 148 Vt. 634, 635, 537 A.2d 134, 134 (1987) (mem.)); *In re Allied Power & Light Co.*, 132 Vt. 554, 556, 326 A.2d 160, 162 (1974).

¹⁴ *Id.* (citing *Vermont Nat'l Bank v. Clark*, 156 Vt. 143, 145, 588 A.2d 621, 622 (1991)).

Dated at Montpelier, Vermont this 11th day of June, 2021.

	)	
Anthony Z. Roisman	)	PUBLIC UTILITY
	)	
	)	
Margaret Cheney	)	COMMISSION
	)	
	)	
Sarah Hofmann	)	OF VERMONT

OFFICE OF THE CLERK

Filed: June 11, 2021

Attest: 
Clerk of the Commission

Notice to Readers: This decision is subject to revision of technical errors. Readers are requested to notify the Clerk of the Commission (by e-mail, telephone, or in writing) of any apparent errors, in order that any necessary corrections may be made. (E-mail address: puc.clerk@vermont.gov)

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