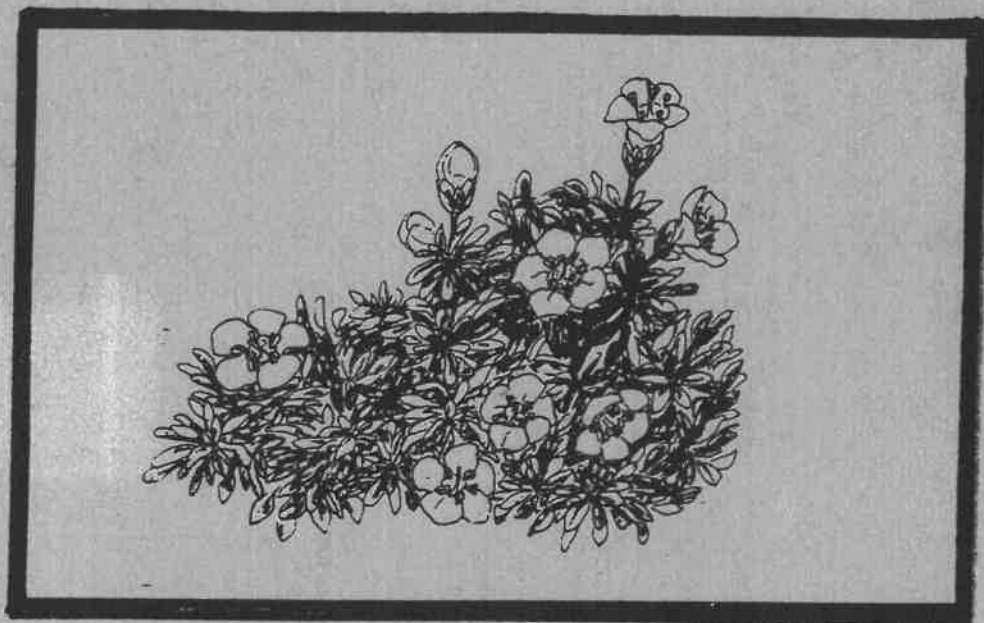


R. Popp

**VERMONT'S
RARE, THREATENED AND ENDANGERED
PLANT SPECIES**



VERMONT NATURAL HERITAGE PROGRAM

Agency of Natural Resources
Vermont Fish and Wildlife Dept.
103 South Main Street
Waterbury, VT 05676

July 1989

**VERMONT'S
RARE, THREATENED AND ENDANGERED
PLANT SPECIES**

**Vermont Natural Heritage Program
July 1989**

This list contains all of the native plants of Vermont which are considered rare in the state. These plants are rare either because they have very particular habitat requirements, because they are at the edges of their ranges here, because they are especially vulnerable to disturbance or collection, or because they have difficulty reproducing for unknown reasons. For most of the species listed here, fewer than 10 localities are known in the state.

This list is intended to assist naturalists, biologists, planners, developers and the general public in locating rare plant species and planning for their protection. The information provided is general in nature, and more specific information, including assistance in identifying plants, can be obtained from the Natural Heritage Program.

The list is arranged by plant family, in taxonomic order, with ferns and fern allies first, then monocots, then dicots. An index to genera is provided on page 34.

If a rare plant is located, it should not be collected. Instead, report the location to the Natural Heritage Program, and if possible, photograph the plant so that its identity can be verified.

Some of the species listed here are protected by the Vermont Endangered Species Law (10 V.S.A. Chap. 123). These are listed on pages 30-32

Some of the plants listed here are protected by the Federal Endangered Species Law (P.L. 93-205) or are proposed for such protection. These species are listed on page 32.

There are a number of species which are considered uncommon but are not believed to be rare enough to warrant the highest level of protection. These plants are listed in the "Watch List" on page 33. Locations of these plants should be reported to the Natural Heritage Program, so that we can keep track of their status.

For further information on rare plants in Vermont, or to report localities of rare plants, please contact:

Vermont Natural Heritage Program
Agency of Natural Resources
Waterbury, VT 05676
802-244-7340

This list was compiled and annotated by Elizabeth Thompson.

RARE PLANTS OF VERMONT
VERMONT NATURAL HERITAGE PROGRAM
JULY 1989

SPECIES	DISTRIBUTION	HABITAT	ABUNDANCE
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BRYOPHYTES

E A peat moss <i>Sphagnum subfulvum</i>	Scattered	fens	a single current site one historical site
E A moss <i>Plagiobryum zierii</i>	Smuggler's Notch	cold cliffs	a single site

FERNS AND FERN ALLIES

HORSETAIL FAMILY - Equisetaceae

T Marsh Horsetail <i>Equisetum palustre</i> 242, 210, 13	north and west VT	lake and river shores	fewer than 5 current sites
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CLUBMOSS FAMILY - Lycopodiaceae

Northern Running-pine <i>Lycopodium complanatum</i> var. <i>complanatum</i> 264-6, 232, 6	northern VT and mountains	spruce-fir forests	historical only (not to be confused with the common <i>L. digitatum</i>)
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Slender Bog clubmoss <i>Lycopodium inundatum</i> var. <i>bigelowii</i> 280-2, 224, 2	Stratton and Woodstock	bogs and shores	historical only
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Ground-fir <i>Lycopodium sabinifolium</i> 270, 232, 4	mostly northern VT	dry woods, old fields	several historical records, few contemporary; may be overlooked
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Fir-clubmoss <i>Lycopodium selago</i> 288, 218, 2	northern VT; mountains	alpine ledges, cliffs	fewer than 5 current sites
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T Alaskan clubmoss <i>Lycopodium sitchense</i> 270, 4	Orleans County	summits, barrens	a single historical station
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QUILLWORT FAMILY - Isoetaceae

T Engelmann's quillwort <i>Isoetes engelmannii</i> 258, 242, 9	southern VT	shallow waters	2 current sites 2 historical sites
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River-bank quillwort <i>Isoetes riparia</i> 256, 242, 10	southern and western VT	shallow, slow waters	a single current site
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Tuckerman's quillwort <i>Isoetes tuckermanii</i> 258, 242, 10	mostly southern Vermont	shallow waters	historical only
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Large-spored quillwort <i>Isoetes macrospora</i> 258, 242, 10	scattered	shallow water	status unknown
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SPECIES	DISTRIBUTION	HABITAT	ABUNDANCE
ADDER'S TONGUE FAMILY - Ophioglossaceae			
E Moonwort <i>Botrychium lunaria</i> 214, 188, 16	Dorset, Westmore, Woodstock	open gravelly areas	2 or 3 historical records
CLIMBING FERN FAMILY - Schizaeaceae			
E Climbing fern <i>Lygodium palmatum</i> 198, 162, 23	Lamoille County (disjunct)	powerline	a single station
FERN FAMILY - Pteridaceae			
Serpentine maidenhair fern <i>Adiantum pedatum</i> var. <i>aleuticum</i> 176, 140, 30	northern Green Mts.	dunite ledges	fewer than 10 sites taxonomy under review
Green Mountain maidenhair fern <i>Adiantum</i> sp. to be named	northern Green Mts.	dunite ledges	fewer than 10 sites recently discovered species taxonomy under review
BEECH-FERN FAMILY - Thelypteridaceae			
Broad beech-fern <i>Thelypteris hexagonoptera</i> 66, 80, 48	scattered throughout	rich woods	status unknown may be more common
Massachusetts fern <i>Thelypteris simulata</i> 72, 88, 48	southern VT	wet places	4 current stations
WOOD FERN FAMILY - Dryopteridaceae			
T Male fern <i>Dryopteris filix-mas</i> 114, 66, 52	throughout	rich woods	4 current sites several historical sites
Fragrant fern <i>Dryopteris fragrans</i> 104, 62, 52	northern VT, mountains	cliffs	5 current sites
Northern oak fern <i>Gymnocarpium jessoense</i> 62-4, 78, 50	Grafton	acidic cliffs	a single historical site
E Alpine woodsia <i>Woodsia alpina</i> 88, 148, 44	mostly northern VT	alpine areas, cliffs	a single current site several historical
Smooth woodsia <i>Woodsia glabella</i> 88, 148, 44	northern VT, mountains	cliffs	10 current stations
SPLEENWORT FAMILY - Aspleniaceae			
T Mountain spleenwort <i>Asplenium montanum</i> 152, 96, 38	Bennington County	cliff	a single station
T Green spleenwort <i>Asplenium viride</i> 164, 98, 38	northern VT	calcareous cliffs	3 current stations

SPECIES	DISTRIBUTION	HABITAT	ABUNDANCE
CHAIN FERN FAMILY - Blechnaceae			
T Virginia chainfern <i>Woodwardia virginica</i> 148, 124, 37	southern VT and Champlain Valley	bogs and wet woods	5 current stations
<u>GYMNOSPERMS</u>			
PINE FAMILY - Pinaceae			
T Jack Pine <i>Pinus banksiana</i> 62	northern VT	dry woodlands	1 or 2 sites; these may not be native
CYPRESS FAMILY - Cupressaceae			
T Creeping juniper <i>Juniperus horizontalis</i> 58	Taconic Mountains	calcareous ledges	1 or 2 current sites
<u>ANGIOSPERMS - MONOCOTS</u>			
BUR-REED FAMILY - Sparganiaceae			
Bur-reed <i>Sparganium angrocladum</i> 71	northern and western VT	damp shores, marshes	current status unknown
Floating bur-reed <i>Sparganium fluctuans</i> 73	northern VT	tannic water ponds	several current sites may be more common
Lesser bur-reed <i>Sparganium minimum</i> 73	scattered throughout	shallow water	a single current site
PONDWEED FAMILY - Potamogetonaceae			
Pondweed <i>Potamogeton bicupulatus</i> 82	southern VT	acid waters	two sites
Tuckerman's pondweed <i>Potamogeton confervoides</i> 79	southern VT	acid, high-elevation ponds	fewer than 10 sites may be more common
Pondweed <i>Potamogeton diversifolius</i> 82	southern Green Mts.	acid waters	a single current station
Slender pondweed <i>Potamogeton filiformis</i> var. <i>borealis</i> 82	northern and western VT	alkaline lakes	ca. 5 sites
Fries' pondweed <i>Potamogeton friesii</i> 80	scattered throughout	moderately alkaline lakes	fewer than 5 sites
New England pondweed <i>Potamogeton lateralis</i> 81	north-central VT	moderately alkaline lakes	a single site taxonomy under study

SPECIES	DISTRIBUTION	HABITAT	ABUNDANCE
Ogden's pondweed <i>Potamogeton ogdenii</i> 81	southern VT	unknown	one current site taxonomy in question
Vasey's pondweed <i>Potamogeton vaseyi</i> 81	scattered	moderately alkaline lakes	status unknown
HORNED PONDWEED FAMILY - Zannichelliaceae			
Horned pondweed <i>Zannichelia palustris</i> 86	Connecticut River Lake Champlain	shallow water; mudflats	fewer than 5 sites
NAJAD FAMILY - Najadaceae			
Slender najad <i>Najas gracillima</i> 85	northern VT	low alkalinity lakes	one or two sites
Guadalupe najad <i>Najas guadalupensis</i> 86	northern VT	moderately alkaline lakes	fewer than 5 sites
ARROW-GRASS FAMILY - Juncaginaceae			
Pod-grass <i>Scheuchzeria palustris</i> ssp. <i>americana</i> 86	throughout	bogs	two current sites; apparently declined
FROG'S-BIT FAMILY - Hydrocharitaceae			
Nuttall's waterweed <i>Elodea nuttallii</i> 94	scattered	moderately rich waters	status unknown
GRASS FAMILY - Poaceae			
Boreal bentgrass <i>Agrostis borealis</i> 167	northern VT, mountains	alpine ledges	2 stations
Champlain beachgrass <i>Ammophila breviligulata</i> var. <i>champlainensis</i> 163	Lake Champlain	sand beaches, dunes	a single station
Spiked grass <i>Aristida longespica</i> 186	southern and western VT	sandplains, disturbed areas	no extant stations known
Bentgrass <i>Calamagrostis inexpansa</i> 160	Green Mountains	subalpine ledges and cliffs	two current stations
Pickering's calamagrostis <i>Calamagrostis pickeringii</i> 163	unknown	high altitudes	a single historical record
Sandbur <i>Cenchrus longispinus</i> 238	Connecticut Valley and Champlain Valley	disturbed sandy areas	five current stations; may be more common
Hairy wild rye <i>Elymus villosus</i> 144	southern VT	low wet woods	fewer than 5 stations known

SPECIES	DISTRIBUTION	HABITAT	ABUNDANCE
Wild rye <i>Elymus wiegandii</i> 144	mostly southern Vermont	lake and river shores	fewer than 5 current sites several historical sites
Lace love-grass <i>Eragrostis capillaris</i> 129	lowlands throughout	wet sandy shores, disturbed areas	fewer than 10 stations
Frank's love-grass <i>Eragrostis frankii</i> 128	Champlain Valley and Connecticut Valley	sandy shores	fewer than 10 stations
Creeping love-grass <i>Eragrostis hypnoides</i> 126	southern and western Vermont	sandy shores	fewer than 10 sites may be more common
Mountain fescue <i>Festuca saximontana</i> 110	northern Green Mountains	alpine cliffs	historical only
Sharp manna-grass <i>Glyceria acutiflora</i> 114	Champlain Valley and Connecticut Valley	wetlands	a single current station
T Alpine sweet-grass <i>Hierochloa alpina</i> 198	Green Mountains	alpine areas	two sites on Mansfield, historical on Camel's Hump
Schreber's muhly <i>Muhlenbergia schreberi</i> 173	western VT	dry rocky woods, waste places	fewer than 3 current sites
Woodland muhly <i>Muhlenbergia sylvatica</i> 175	scattered	woodlands?	historical only
Slender mountain-rice <i>Oryzopsis pungens</i> 182	southern and western VT	dry rocky woods	a single current site
Panic-grass <i>Panicum columbianum</i> 219	southern VT and Champlain Valley	sandplains	a single current site
Stiff witch-grass <i>Panicum flexile</i> 213	Champlain Valley	dry calcareous ledges	a single current site
Few-flowered panic grass <i>Panicum oligosanthos</i> 232	southern CT River valley	dry open sands	ca. 5 current sites
Panic-grass <i>Panicum philadelphicum</i> 213	unknown	shores, open woods	historical only
Spherical panic-grass <i>Panicum sphaerocarpon</i> 223	southern and western VT	limy ledges, open sands	fewer than 5 sites
T Yellow panic-grass <i>Panicum xanthophysum</i> 231	Connecticut Valley Champlain Valley	sandplains, open disturbed sands	ca. 5 sites
Slender paspalum <i>Paspalum ciliatifolium</i> 208	southern Vermont	open sands, fields	fewer than 10 sites may be more common
Wavy bluegrass <i>Poa fernaldiana</i> 123	Mount Mansfield, Smuggler's Notch	alpine ledges	historical only

SPECIES	DISTRIBUTION	HABITAT	ABUNDANCE
Glaucous bluegrass <i>Poa glauca</i> 123	northern and western VT	calcareous ledges	fewer than 5 current sites
Drooping speargrass <i>Poa languida</i> 120	northern and western VT	dry limy woods	a single current site
Bluff meadowgrass <i>Poa nemoralis</i> 122	Lake Champlain	bluffs on lake	status unknown
Woodland meadowgrass <i>Poa saltuensis</i> 120	western VT	rocky woods	a single current site
Shiny wedgegrass <i>Sphenopholis nitida</i> 151	scattered	dry calcareous woods	a single current site
Blunt sphenopholis <i>Sphenopholis obtusata</i> 151	northern and western VT	ledges	a single current site
E Rough dropseed <i>Sporobolus asper</i> 176	Lake Champlain	rocky shore	a single current site
Small dropseed <i>Sporobolus neglectus</i> 178	western VT	dry soil, open areas	fewer than 5 current sites
Purple false-oats <i>Trisetum melicoides</i> 153	northern VT	cliffs, river ledges	historical only
Spiked bristle-grass <i>Trisetum spicatum</i> var. <i>pilosiglume</i> 153	Smugglers Notch	cliffs	a single station
Eight-flowered fescue <i>Vulpia octoflora</i> var. <i>tenella</i> 109	Chittenden County	dry ledge	a single current site
SEDGE FAMILY - Cyperaceae			
Sedge <i>Carex aenea</i> 322	southern VT	clearings, dry rocks	2-3 current sites
Summer sedge <i>Carex aestivalis</i> 342	southern VT	rich woods	one current site, one historical site
Foxtail sedge <i>Carex alopecoidea</i> 313	Champlain Valley	wet meadows	two current sites
Water sedge <i>Carex aquatilis</i> 355	throughout	bogs, fens, wet meadows, pond margins	fewer than 10 current sites
Contracted sedge <i>Carex arcta</i> 315	northern VT	wet meadows and swales	two contemporary sites

SPECIES	DISTRIBUTION	HABITAT	ABUNDANCE
Sedge <i>Carex argyrantha</i> 322	western Vermont	limy cliffs, ledges	2-3 current sites
Eastern sedge <i>Carex atlantica</i> 318	scattered in state	bogs, wet meadows	3 stations
T Black sedge <i>Carex atratifomis</i> 354	Green Mountains	subalpine ledges and openings	two stations
Back's sedge <i>Carex backii</i> 326	Champlain Valley	dry limy woods	approximately 10 sites
Bicknell's sedge <i>Carex bicknellii</i> 324	Otter Creek Valley	dry slopes	one historical station
Bigelow's sedge <i>Carex bigelowii</i> 355	Green Mountains	alpine or subalpine open areas	four stations
Sedge <i>Carex brevior</i> 325	western Vermont	dry limy ledges	status uncertain likely more common
Inflated sedge <i>Carex bullata</i> 364	unknown	bogs, swamps	historical only
Bush's sedge <i>Carex bushii</i> 348	western Vermont	dry sandy fields	historical only
E Buxbaum's sedge <i>Carex buxbaumii</i> 353	western VT	wet meadows	a single current site
T Capillary sedge <i>Carex capillaris</i> 344	northeast VT	calcareous seeps	a single station
Creeping sedge <i>Carex chordorrhiza</i> 307	western VT	bogs and fens	a single current site
Davis' sedge <i>Carex davisii</i> 342	Windham County	rich woods	a single historical site
Emmons' sedge <i>Carex emmonsii</i>	southern and western Vermont	open woods, bogs	rare; status unknown taxonomy uncertain
Bog sedge <i>Carex exilis</i> 316	northern VT	bogs	five contemporary sites
Yellow gaspe sedge <i>Carex flava</i> var. <i>gaspensis</i> 345	northeast VT	bog	a single historical site
Hay sedge <i>Carex foenea</i> 322	western Vermont	open sands	a single station

SPECIES	DISTRIBUTION	HABITAT	ABUNDANCE
T Garber's sedge <i>Carex garberi</i> var. <i>bifaria</i> 332	northern VT	calcareous riverside seeps	three current stations
Gray's sedge <i>Carex grayi</i> 365	Champlain Valley	wet woods, swamps	fewer than 10 current sites
Hayden's sedge <i>Carex haydenii</i> 354	Vermont Valley	wet meadows	ca. 10 contemporary sites
Hitchcock's sedge <i>Carex hitchcockiana</i> 339	western Vermont	rich woods	fewer than 10 current sites
Houghton's sedge <i>Carex houghtoniana</i> 350	scattered throughout	dry clearings	a single contemporary site
Sedge <i>Carex laxiculmis</i> 336	southern and western Vermont	dry woods	a single current site several historical sites
T Pale sedge <i>Carex livida</i> 333	scattered	fens and bogs	a single contemporary site one historical site
False hop sedge <i>Carex lupuliformis</i> 366	Champlain Valley	marshes	five contemporary sites
T Muhlenberg's sedge <i>Carex muhlenbergii</i> 309	unknown	dry open woods	a single current site
Black sedge <i>Carex nigra</i> 356	northern Vermont	openings, riverbanks	a single current site
Few-fruited sedge <i>Carex oligocarpa</i> 339	western VT	dry limy woods	two contemporary sites
False cyperus <i>Carex pseudocyperus</i> 359	southern and western VT	rich wetlands	fewer than 10 current sites
E Richardson's sedge <i>Carex richardsonii</i> 380	Taconic Mountains	calcareous outcrops	a single station
Schweinitz's sedge <i>Carex schweinitzii</i> 364	southwest VT	swamps and marshes	3 current stations
Scirpus-like sedge <i>Carex scirpoidea</i> 329	scattered throughout at higher elevations	high calcareous cliffs	fewer than 10 stations
Thin-flowered sedge <i>Carex tenuiflora</i> 314	northern and western VT	cedar swamps	fewer than 5 current sites
Tinged sedge <i>Carex tinctoria</i> 324	scattered throughout	rich woods, openings	historical only taxonomy uncertain

SPECIES	DISTRIBUTION	HABITAT	ABUNDANCE
Hairy sedge <i>Carex trichocarpa</i> 361	scattered throughout at lower elevations	open floodplains	fewer than 5 current sites
Cat-tail sedge <i>Carex typhina</i> 361	Champlain Valley	marshes, shores	fewer than 5 current sites
Sheathed sedge <i>Carex vaginata</i> 334	northeast VT	cedar swamps	fewer than 5 current sites
Wiegand's sedge <i>Carex wiegandii</i> 318	northern VT	open wetlands	historical only
Willdenow's sedge <i>Carex willdenowii</i> 326	Sudbury	dry limestone ledge	a single historical station
E Shore cyperus <i>Cyperus diandrus</i> 250	southern and western VT	sandy shores	a single current site
Engelmann's cyperus <i>Cyperus engelmannii</i> 251	Brattleboro	sand	a single historical site
Rusty umbrella sedge <i>Cyperus ferruginescens</i>	southeast VT	sandy shores	a single historical locality
T Houghton's cyperus <i>Cyperus houghtonii</i> 252	western VT	sandplains	one contemporary site
Matted spikerush <i>Eleocharis intermedia</i> 264	scattered throughout	muddy shores	fewer than 10 current sites; may be more common
Slender spike-rush <i>Eleocharis nitida</i> 265	Enosburg	boggy pasture	a single historical station
Olive spike-rush <i>Eleocharis olivacea</i> 261	mostly southern VT	muddy pond borders	one contemporary station several historical sites
Ovate spike-rush <i>Eleocharis ovata</i> 261	southern and western VT	river and pond shores	3 current sites 8 historical sites
T Few-flowered spike-rush <i>Eleocharis pauciflora</i> var. <i>fernaldii</i> 262	northern VT	calcareous seepage areas	3 contemporary stations 3 historical stations
Slender bog-cotton <i>Eriophorum gracile</i> 281	southern VT	bogs, swamps	a single current site
Cotton-grass <i>Eriophorum tenellum</i> 281	throughout	bogs, swamps	status unknown
Autumn fimbriatylis <i>Fimbristylis autumnalis</i> 269	southern VT	muddy or sandy pond shores	one contemporary site one historical site
T Capillary beakrush <i>Rhynchospora capillacea</i> 286	northern VT	calcareous cliffs and riverside seeps	two current sites

SPECIES	DISTRIBUTION	HABITAT	ABUNDANCE
T Barbed bulrush <i>Scirpus ancistrochaetus</i> 271	southern VT Connecticut drainage	marshes, wet meadows at water's edge	2 contemporary sites
Deer-hair sedge <i>Scirpus cespitosus</i> 271	northern VT and higher elevations	alpine and subalpine bogs and ledges	2 current sites 2 historical sites
Lake rush <i>Scirpus heterochaetus</i> 274	Lake Champlain	shallow waters	several current sites may be more common
Salt-marsh sedge <i>Scirpus maritimus</i> 275	Lake Champlain	shallow water	one station new to state in 1987
Many-leaved sedge <i>Scirpus polyphyllus</i> 278	Champlain Valley	low wet areas	2 current sites only
Smith's bulrush <i>Scirpus purshianus</i> (incl. <i>S. smithii</i>)	Champlain Valley Connecticut River	wet flats	5 current sites 4 historical sites
T Bashful bulrush <i>Scirpus verecundus</i> 271	scattered	calcareous woodlands	a single current site one or two historical sites
ARUM FAMILY - Araceae			
T Green dragon <i>Arisaema dracontium</i> 368	Champlain Valley and Connecticut Valley	floodplain forests, silty river shores	fewer than 5 current sites 5 historical sites
Arrow-arum <i>Peltandra virginica</i>	southern and western Vermont	bogs, lake shores	2-3 current sites
YELLOW-EYED GRASS FAMILY - Xyridaceae			
Yellow-eyed grass <i>Xyris difformis</i> 377	southeastern VT	pond shores	a single historical site
T Small yellow-eyed grass <i>Xyris montana</i> 376	scattered	sandy, acidic pond shores	two current sites only
RUSH FAMILY - Juncaceae			
Tapering rush <i>Juncus acuminatus</i> 377	southern and western VT	marshes	3 historical sites only
Alpine rush <i>Juncus alpinus</i> 377	Lake Champlain	cobble shores	6 current sites
Shore rush <i>Juncus balticus</i> 388	Middletown Springs	wet places	a single historical site
Black grass <i>Juncus gerardii</i> 390	western Vermont	wet places	a single station which may have been destroyed
Greene's rush <i>Juncus greenei</i> 390	Windham County	dry open sand	a single contemporary site 3 historical sites

SPECIES	DISTRIBUTION	HABITAT	ABUNDANCE
Grass rush <i>Juncus marginatus</i> 393	Windham and Rutland Counties	open, wet disturbed ground	5 current sites 3 historical sites
Bayonet-rush <i>Juncus militaris</i> 399	southern Vermont	shallow water of ponds and rivers	a single current site
Secund rush <i>Juncus secundus</i> 392	scattered throughout	rock-crevices, ledges	a single current site
Torrey's rush <i>Juncus torreyi</i> 397	Champlain Valley	wet ditches and marshes	a single contemporary site 4 historical sites
Highland rush <i>Juncus trifidus</i> 390	high elevations throughout	subalpine cliffs	5 current sites one historical site
Small-flowered rush <i>Luzula parviflora</i> 401	high elevations throughout	alpine summits and ledges	2-3 contemporary sites ca. 10 historical sites
Spiked wood-rush <i>Luzula spicata</i> 401	Stowe	subalpine cliffs	a single historical station
LILY FAMILY - Liliaceae			
T Wild garlic <i>Allium canadense</i> 334 414	western VT	alluvium, meadows	2 contemporary sites 2 historical sites
Siberian chives <i>Allium schoenoprasum</i> var. <i>sibiricum</i> 414	Connecticut River Valley	damp riverside outcrops and seeps	fewer than 5 current sites one historical site
Star grass <i>Hypoxis hirsuta</i> 336 442	Woodstock	unknown	a single historical site
Giant solomon's seal <i>Polygonatum biflorum</i> var. <i>commutatum</i> 342 430	southern VT	alluvial or rich woods	2 current sites 2 historical sites
T Sticky false asphodel <i>Tofieldia glutinosa</i> 344 405	Connecticut, White and Ottawaquechee Rivers	calcareous riverside seeps	3 current sites 2 historical sites
Nodding trillium <i>Trillium cernuum</i> 124 433	Otter Creek Valley	swamps	fewer than 5 current sites
Perfoliate bellwort <i>Uvularia perfoliata</i> 340 428	western VT	calcareous woodlands	less than 10 current sites less than 5 historical sites
White camas <i>Zigadenus glaucus</i> 407	Lake Champlain	rocky shores	a single historical site
IRIS FAMILY - Iridaceae			
Narrow Blue-eyed grass <i>Sisyrinchium angustifolium</i> 332 451	scattered throughout	low wet areas; ditches, meadows	fewer than 10 current sites several historical sites

SPECIES	DISTRIBUTION	HABITAT	ABUNDANCE
Eastern blue-eyed grass <i>Sisyrinchium atlanticum</i> 332 452	southern VT	acidic meadows	historical only
Slender blue-eyed grass <i>Sisyrinchium mucronatum</i> 332 451	mostly northern VT	meadows	historical only
ORCHID FAMILY - Orchidaceae			
Small round-leaved orchis <i>Amerorchis rotundifolia</i>	western VT	cedar swamps	5 historical records only
T Puttyroot <i>Aplectrum hyemale</i> 18 476	western VT	rich woods	one current site 3 historical sites
T Arethusa <i>Arethusa bulbosa</i> 16 466	widely scattered	bogs and fens	4 current sites 12 historical sites; some evidence of decline
T Fairy slipper <i>Calypso bulbosa</i> 20 473	northern and western VT	mature cedar swamps	7 current sites 16 historical sites; may have declined
T Autumn coral-root <i>Corallorhiza odontorhiza</i> 18 475	western VT	dry calcareous woodlands	6 current sites 4 historical sites
T Ram's head lady's slipper <i>Cypripedium arietinum</i> 38 457	scattered throughout	limy woods and swamps	fewer than 15 sites not exceedingly rare
Small whorled pogonia <i>Isotria medeoloides</i> 72 464	western VT historically	acidic woodlands	a single historical site
T Large whorled pogonia <i>Isotria verticillata</i> 72 464	western VT	acidic, open woods	4 current sites no historical records
T Lily-leaved twayblade <i>Liparis lilifolia</i> 22 473	southern VT	moist or dry woods	a single contemporary site 4 historical sites
E Southern twayblade <i>Listera australis</i> 74 467	north-central VT	bogs	one current site one historical site
E Auricled twayblade <i>Listera auriculata</i> 468	central VT	alder thickets along streams	a single current site no verified historical sites
T White adder's mouth <i>Malaxis brachypoda</i> 20 472	northern and western VT	calcareous swamps, open wetlands, cliffs	6 current sites over 15 historical sites
Adder's mouth <i>Malaxis unifolia</i> 46 472	throughout	various: swamps, openings	fewer than 10 current sites
White-fringed orchis <i>Platanthera blephariglottis</i>	scattered throughout	bogs	fewer than 10 current sites

SPECIES	DISTRIBUTION	HABITAT	ABUNDANCE
T Tubercled orchis <i>Platanthera flava</i> var. <i>herbiola</i>	West River Valley and Champlain Valley	grassy river cobble	fewer than 10 sites several historical sites
T Hooker's orchis <i>Platanthera hookeri</i> 461	scattered throughout	hardwood forests	fewer than 10 current sites many historical sites; may be more common
T Three-birds orchid <i>Triphora trianthophora</i> 40 466	Windham and Rutland Counties	hollows in beech woods	3 current sites 3 historical sites

ANGIOSPERMS - DICOTS

WILLOW FAMILY - Salicaceae

Bog willow <i>Salix pedicellaris</i> 14	western VT	bogs and fens	a single current site several historical sites
Satiny willow <i>Salix pellita</i> 18	northern Connecticut River	riverbanks	fewer than 5 sites
Tea-leaved willow <i>Salix planifolia</i> 18	Mount Mansfield	wet alpine meadows and streamsides	a single station
Autumn willow <i>Salix serissima</i> 8	southern VT	calcareous swamps	a single site; needs confirmation
Bearberry willow <i>Salix uva-ursi</i> 14	Mount Mansfield Camel's Hump	alpine ledges	two populations, both very small

WALNUT FAMILY - Juglandaceae

Pignut hickory <i>Carya glabra</i> (incl. <i>C. ovalis</i>) 30	southwest VT	dry woodlands	fewer than 5 current sites 2 historical sites
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BIRCH FAMILY - Betulaceae

Northern birch <i>Betula borealis</i>	northern VT	unknown	one historical locality
Swamp birch <i>Betula pumila</i> 26	northern VT	bogs	one current site one historical site
American hazelnut <i>Corylus americana</i> 32	southern VT	warm dry woodlands	4 current sites

BEECH FAMILY - Fagaceae

Scarlet oak <i>Quercus coccinea</i> 47	southern and western VT	dry oak forests	a single current site 3 historical sites difficult to identify
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SPECIES	DISTRIBUTION	HABITAT	ABUNDANCE
Scrub oak <i>Quercus ilicifolia</i> 45	Windham County	dry barrens	a single current site 2 historical sites
ELM FAMILY - Ulmaceae			
Cork elm <i>Ulmus thomasi</i> 49	western VT	pastures, dry woodlands	historical only
MULBERRY FAMILY - Moraceae			
Red mulberry <i>Morus rubra</i> 52	southwest VT	wood borders	a single site
SANDALWOOD FAMILY -Santalaceae			
Northern toadflax <i>Geocaulon lividum</i>	Mount Mansfield	alpine bogs	a single historical site
BUCKWHEAT FAMILY - Polygonaceae			
Blue knotweed <i>Polygonum achoreum</i> 75	Champlain Valley, mostly	open waste places	fewer than 10 current sites transient species
Carey's knotweed <i>Polygonum careyi</i> 190 79	southern and western VT	marshes	historical only
Douglas' knotweed <i>Polygonum douglasii</i> 74	southern Champlain Valley	dry open woods	a single current site several historical sites
Erect knotweed <i>Polygonum erectum</i> 75	southern and western VT	waste places, roadsides	historical only transient species?
Mild water-pepper <i>Polygonum hydropiperoides</i> 190 82	southern and western VT	open, shallow marshes	a single current site several historical sites
Slender knotweed <i>Polygonum tenue</i> 74	unknown	dry sandy or gravelly openings	historical only
Alpine smartweed <i>Polygonum viviparum</i> 192 76	Camel's Hump and Mount Mansfield	alpine tundra	not seen in this century
Shore dock <i>Rumex maritimus</i> 404 70	southern VT	unknown	a single historical site
Window-dock <i>Rumex occidentalis</i> 67	Rutland County	swamps	historical only
Seabeach dock <i>Rumex pallidus</i> 404 69	Champlain Valley	shores?	historical only

SPECIES	DISTRIBUTION	HABITAT	ABUNDANCE
GOOSEFOOT FAMILY - Chenopodiaceae			
Fogg's goosefoot <i>Chenopodium desiccatum</i>	Fairlee	unknown	a single historical site
AMARANTH FAMILY - Amaranthaceae			
Water hemp <i>Amaranthus tuberculatus</i>	mostly western VT	lake shores	4 current sites 6 historical sites
PURSLANE FAMILY - Portulacaceae			
Virginia spring-beauty <i>Claytonia virginica</i> 270 116	Champlain Valley	dry woodlands	a single contemporary site 4 historical sites
PINK FAMILY - Caryophyllaceae			
Nodding chickweed <i>Cerastium nutans</i> 128	western Vermont	limy ledges	status unknown
Mountain sandwort <i>Minuartia groenlandica</i>	Camel's Hump and Mount Mansfield	alpine and subalpine ledges	two stations only
Serpentine sandwort <i>Minuartia marcescens</i>	Haystack Mountain	ultramafic, subalpine ledge	a single site; only site in U.S.
Marble-sandwort <i>Minuartia rubella</i>	Smugglers Notch	subalpine cliffs	a single site
Large-leaved sandwort <i>Moehringia macrophylla</i> 132	Green Mountains	ultramafic ledges	fewer than 10 current sites
Smooth forked chickweed <i>Paronychia canadensis</i> 276 120	southern and western VT	dry woodlands	3 current sites 2 historical sites
Small pearlwort <i>Sagina decumbens</i> 130	Windham County	unknown	a single historical site
Long-stalked stitchwort <i>Stellaria alsine</i> 274 125	southern Vermont	springy places, streams	two current sites
HORNWORT FAMILY - Ceratophyllaceae			
Prickly hornwort <i>Ceratophyllum echinatum</i> 146	scattered throughout	ponds	two contemporary sites 4 historical sites
BUTTERCUP FAMILY - Ranunculaceae			
Early thimbleweed <i>Anemone multifida</i> 182	northern VT	riverside ledges	a single contemporary site 3 historical sites, all apparently extirpated
Rue-anemone <i>Anemonella thalictroides</i> 398 184	western VT	dry woodlands	a single current site one historical site

SPECIES	DISTRIBUTION	HABITAT	ABUNDANCE
Goldenseal <i>Hydrastis canadensis</i> 420 156	western VT	hardwood forests	a single contemporary site 3 historical sites; exploited, likely declined
Allegheny crowfoot <i>Ranunculus allegheniensis</i> 244 173	western VT	dry calcareous woods	a single current site 2 or 3 historical sites
Early buttercup <i>Ranunculus fascicularis</i> 242 177	Champlain Valley	rocky hills	historical only
Yellow-water crowfoot <i>Ranunculus flabellaris</i> 242 174	scattered throughout	shallow water, marshes, pools	fewer than 5 current sites several historical sites
Bristly buttercup <i>Ranunculus hispidus</i> var. <i>hispidus</i> 242 177	scattered throughout	various	2 current sites 5 historical sites
Cursed crowfoot <i>Ranunculus sceleratus</i> 244 175	Chittenden County	open wetlands, pools	fewer than 5 current sites
White-water crowfoot <i>Ranunculus subrigidus</i>	scattered	shallow water	a single current site 3 historical sites
BARBERRY FAMILY - Berberidaceae			
May-apple <i>Podophyllum peltatum</i> 354 188	southern VT	rich woods	2 current sites occ. escaped from cultivation
MAGNOLIA FAMILY - Magnoliaceae			
Tulip tree <i>Liriodendron tulipifera</i> 154	southern VT	hardwoods forests	historical only; occasionally planted
LAUREL FAMILY - Lauraceae			
Spicebush <i>Lindera benzoin</i> 193	southern and western VT	rich woods	status unknown; may be more common
POPPY FAMILY - Papaveraceae			
Golden corydalis <i>Corydalis aurea</i> 70 201	mostly Champlain Valley	limy cliffs and ledges	5 current sites 9 historical sites
MUSTARD FAMILY - Brassicaceae			
Drummond's rockcress <i>Arabis drummondii</i> 234	western VT	calcareous outcrops	a single contemporary site
Lyre-leaved rockcress <i>Arabis lyrata</i> 150 235	western VT	calcareous outcrops	2 current sites 2 historical sites
Green rockcress <i>Arabis missouriensis</i>	western VT	calcareous outcrops and cliffs	a single current site 2 historical sites

SPECIES	DISTRIBUTION	HABITAT	ABUNDANCE
Lake cress <i>Armoracia aquatica</i> 148 226	Lake Champlain	shallow water	2 current sites 5 historical sites
New England rock-cress <i>Braya humilis</i> 245	northern VT	cold calcareous cliffs	2 current sites one historical site
Spring cress <i>Cardamine bulbosa</i> 140 228	western VT	wet woods	historical only
Cuckoo flower <i>Cardamine pratensis</i> var. <i>palustris</i> 148 228	western VT	wet woods, meadows	one current record ca. 8 historical sites
Tansy-mustard <i>Descurainia pinnata</i> 246	Lake Champlain	dry lakeshores	3 current records
Smooth draba <i>Draba glabella</i> 224	northern VT	calcareous outcrops, Lake Champlain	4 current records 3 historical records
Lanceolate cress <i>Draba lanceolata</i> 224	northern and western VT	calcareous cliffs	3 current records
Water awlwort <i>Subularia aquatica</i> 217	southern VT	shallow water	a single historical site
RIVERWEED FAMILY - Podostemaceae			
Riverweed <i>Podostemum ceratophyllum</i> 255	southern and western VT	rocky riverbeds	fewer than 5 current sites
STONECROP FAMILY - Crassulaceae			
Roseroot <i>Sedum rosea</i> 140 256	southern mountains	ledges, cliffs	2 current sites
Pygmyweed <i>Tillaea aquatica</i> 259	Windham County	shallow waters	fewer than 10 current sites
SAXIFRAGE FAMILY - Saxifragaceae			
Yellow mountain saxifrage <i>Saxifraga aizoides</i> 262	northern mountains	cold calcareous cliffs	2 current sites
Purple mountain saxifrage <i>Saxifraga oppositifolia</i> 262	northern mountains	cold calcareous cliffs	fewer than 5 sites
Livelong saxifrage <i>Saxifraga aizoon</i> var. <i>neogaea</i> 262	northern mountains	cold calcareous cliffs	5 current sites
ROSE FAMILY - Rosaceae			
Hairy agrimony <i>Agrimonia pubescens</i> 320	unknown	unknown	historical only

SPECIES	DISTRIBUTION	HABITAT	ABUNDANCE
Allegheny thorn <i>Crataegus intricata</i> 352	western VT	rocky woods	a single current site
Herb-Bennet <i>Geum laciniatum</i> 232 302	western VT	rivershores, damp places	status unknown
Spring avens <i>Geum vernum</i> 238 301	southern VT	waste places	a single site
Cinquefoil <i>Potentilla pensylvanica</i> 297	Washington County	open gravels and dry fields	a single contemporary record disjunct from normal range which is far to our north
American plum <i>Prunus americana</i> 312 332	western VT	rich woods, openings	status unknown taxonomy in question
Prickly rose <i>Rosa acicularis</i> 326	southern and western VT	calcareous ledges	a single current site several historical sites
Rose <i>Rosa nitida</i> 316 325	northern Vermont	unknown	status unknown
Burnet <i>Sanguisorba canadensis</i> 364 321	West River valley	grassy riverbanks	several sites, all in 5 towns - very local
Northern mountain-ash <i>Sorbus decora</i> 338	Green Mountains	high-elevation forests	fewer than 5 current sites
PEA FAMILY - Fabaceae			
Alpine milk-vetch <i>Astragalus alpinus</i> 419	Connecticut River	riverside outcrops	3 historical sites much of habitat gone
Canadian milk-vetch <i>Astragalus canadensis</i> 66 420	Lake Champlain	gravel lake shores	7 current sites 4 historical sites
Jesup's milk-vetch <i>Astragalus robbinsii</i> var. <i>jesupi</i> 419	Connecticut River	riverside outcrops	a single current site
Blake's milk-vetch <i>Astragalus robbinsii</i> var. <i>minor</i> 419	northern VT	cold calcareous cliffs	6 current sites
Robbin's milk-vetch <i>Astragalus robbinsii</i> var. <i>robbinsii</i> 419	Winooski River	river ledges	one historical site presumed extinct
Wild-indigo <i>Baptisia tinctoria</i> 58 393	southern VT	dry open woodlands	5 historical sites

SPECIES	DISTRIBUTION	HABITAT	ABUNDANCE
Wild senna <i>Cassia hebecarpa</i> 236 384	eastern and western VT	alluvial soil	4 historical records
Wild sensitive plant <i>Cassia nictitans</i> 236 386	southern VT	open disturbed areas	fewer than 10 current sites
Rattle-box <i>Crotalaria sagittalis</i> 40 395	southwest VT	open disturbed areas	a single contemporary site 2 historic sites (same town)
Large-bracted tick-trefoil <i>Desmodium cuspidatum</i> 62 431	western VT	dry woods	2 contemporary sites
Prostrate tick-trefoil <i>Desmodium rotundifolium</i> 110 426	southern VT	dry woods, openings	a single contemporary site 2 historical sites
Alpine sweet-broom <i>Hedysarum alpinum</i> 424	northern VT	cold calcareous cliffs	2 contemporary sites
Beach pea <i>Lathyrus japonicus</i> 114	Lake Champlain	sandy, gravelly or clay lakeshores	5 contemporary sites 4 historical sites
Pale vetchling <i>Lathyrus ochroleucus</i> 112 445	Lake Champlain	dry open woodlands near lake	8 current sites 6 historical sites
Vetchling <i>Lathyrus palustris</i> 114 444	Lake Champlain	wet shores	10 current sites
Hairy bush-clover <i>Lespedeza hirta</i> 64 435	southern and western VT	dry woodlands and openings	2 current sites 3 historical sites
Violet bush-clover <i>Lespedeza violacea</i> 64	western VT	dry open woods	2 current sites
Stueve's bush-clover <i>Lespedeza stuevei</i> 434	southwest VT	dry open areas	a single historical site
Wild lupine <i>Lupinus perennis</i> 66 396	Chittenden County	sandplains	9 historical sites
FLAX FAMILY - Linaceae			
Intermediate flax <i>Linum medium</i> 462	southwest VT	dry fields, roadsides	historical only
Furrowed flax <i>Linum sulcatum</i> 463	southwest VT	roadsides	historical only
GERANIUM FAMILY - Geraniaceae			
Carolina crane's-bill <i>Geranium carolinianum</i> 280 458	unknown	unknown	historical only

SPECIES	DISTRIBUTION	HABITAT	ABUNDANCE
MILKWORT FAMILY - Polygalaceae			
Racemed milkwort <i>Polygala polygama</i> 46 472	Chittenden and Windham Counties	open sands	2 current sites fewer than 5 historical sites
Field milkwort <i>Polygala sanguinea</i> 46 472	southern and western VT	wet meadows, riverbanks	fewer than 5 current sites several historical sites
Whorled milkwort <i>Polygala verticillata</i> 72 473	southern VT	riverbanks, open areas	fewer than 10 current sites
SPURGE FAMILY - Euphorbiaceae			
Slender three-seeded mercury <i>Acalypha gracilens</i> 478	southern Vermont	dry fields	very rare
Three-seeded mercury <i>Acalypha virginica</i> 478	southern and western VT	fields, thickets	historical only
Rough-seeded spurge <i>Euphorbia glyptosperma</i> 483	western Vermont	waste places	very rare
WATER STARWORT FAMILY - Callitrichaceae			
Water-starwort <i>Callitriche hermaphroditica</i> 491	Lake Champlain	shallow water	2 historical sites
CROWBERRY FAMILY - Empetraceae			
Purple crowberry <i>Empetrum atropurpureum</i> 126	Mount Mansfield	alpine areas	a single historical site
Black crowberry <i>Empetrum nigrum</i> 126 493	northern Green Mountains	alpine summits	4 current sites
MERMAID-WEED FAMILY - Limnanthaceae			
False mermaid-weed <i>Floerkea proserpinacoides</i> 122 495	western VT	wet places	3 historical sites
MAPLE FAMILY - Aceraceae			
Black maple <i>Acer nigrum</i> 506	southern Vermont	river banks, rich woods	a few current sites taxonomic uncertainty
BUCKTHORN FAMILY - Rhamnaceae			
Prairie redroot <i>Ceanothus ovatus</i> 514	Chittenden County	open sands	2 historical records

SPECIES	DISTRIBUTION	HABITAT	ABUNDANCE
GRAPE FAMILY - Vitaceae			
New england grape <i>Vitis novae-angliae</i> 519	scattered	unknown	historical only taxonomy in question
ST. JOHNSWORT FAMILY - Clusiaceae			
Orange-grass <i>Hypericum gentianoides</i> 172 544	Windham County	open disturbed areas	8 current records
Great St. John's-wort <i>Hypericum pyramidatum</i> 268 541	scattered throughout	grassy rivershores	9 current records 15 historical records
WATERWORT FAMILY - Elatinaceae			
Small water-wort <i>Elatine minima</i> 546	Windham County	shallow water	a single contemporary site
ROCKROSE FAMILY - Cistaceae			
Beach heather <i>Hudsonia tomentosa</i> 266 548	Chittenden County	beaches and open sands	3 current sites 3 historical sites
Plains frostweed <i>Helianthemum bicknellii</i> 548	southern and western VT	sandplains	2 current sites 5 historical sites
Rockrose <i>Helianthemum canadense</i> 186 548	southern and western VT	sandplains	fewer than 10 current sites
Lesser pinweed <i>Lechea minor</i> 550	Windham County	sandy or ledgy open areas	2 historic sites
Hairy pinweed <i>Lechea villosa</i> 408 550	Windham County	dry open woods or sandplains	one current site 3 historic sites
VIOLET FAMILY - Violaceae			
Green violet <i>Hybanthus concolor</i> 40 567	western VT	rich woods	a single contemporary site
Lance-leaved violet <i>Viola lanceolata</i> 28 562	southern VT	damp open ground	a single current site less than 5 historical sites
Early blue violet <i>Viola palmata</i> 32 559	southern VT	dry open woodlands	fewer than 5 sites
Three-lobed violet <i>Viola triloba</i> 32 559	southern VT	dry open woodlands	fewer than 10 sites taxonomy in question: may be included with <i>Viola palmata</i>

SPECIES	DISTRIBUTION	HABITAT	ABUNDANCE
GUM FAMILY - Nyssaceae			
Black gum <i>Nyssa sylvatica</i> 646	Windham Co. and Champlain Valley	swamps and wet shores	fewer than 10 sites may be locally common
MEADOW-BEAUTY FAMILY - Melastomataceae			
Virginia meadow-beauty <i>Rhexia virginica</i> 160 579	southern VT	damp gravel shores	a single current site 3 historical sites
EVENING PRIMROSE FAMILY - Onagraceae			
Many-fruited false-loosestrife <i>Ludwigia polycarpa</i> 584	Lake Champlain	mud shores	A single current site
Narrow evening-primrose <i>Oenothera cruciata</i> 134 591	southern and western VT	dry places, roadsides	a single current site several historical sites
WATER-MILFOIL FAMILY - Haloragaceae			
Low water-milfoil <i>Myriophyllum humile</i> 600	southern Green Mountains	acid waters	a single site
Farwell's water-milfoil <i>Myriophyllum farwellii</i> 600	scattered	acid ponds and streams	fewer than 5 sites
Whorled water-milfoil <i>Myriophyllum verticillatum</i> 600	western VT	quiet waters low alkalinity	fewer than 5 sites
Mermaid-weed <i>Proserpinaca palustris</i> 602	southern and western VT	acid ponds	a single current site
MARE'S-TAIL FAMILY - Hippuridaceae			
Common mare's-tail <i>Hippuris vulgaris</i> 603	north-central VT	shallow ponds, lakes	2 current sites
PARSLEY FAMILY - Apiaceae			
Mountain sweet-cicely <i>Osmorhiza chilensis</i> 616	northern VT	forests	a single historical site
Blunt-fruited sweet-cicely <i>Osmorhiza depauperata</i> 616	northern VT	woods	a single historical site
Short-styled snakeroot <i>Sanicula canadensis</i> 426 612	southern VT	wooded ledges, open woods	2 current sites
Yellow pimpernel <i>Taenidia integerrima</i> 226 620	Champlain Valley	dry open woods	fewer than 10 current sites several historical sites

SPECIES	DISTRIBUTION	HABITAT	ABUNDANCE
DOGWOOD FAMILY - Cornaceae			
Flowering dogwood <i>Cornus florida</i> 645	southern VT	dry open woodlands	2 current sites 4 historical sites
HEATH FAMILY - Ericaceae			
Spotted wintergreen <i>Chimaphila maculata</i> 284 5	southwest VT	dry acidic woods	6 current sites
Pinedrops <i>Pterospora andromedea</i> 172 4	western VT	softwoods	a single current site one historical site
Great laurel <i>Rhododendron maximum</i> 292 8	northern VT	acid woods and lake shores	fewer than 10 sites
Boreal blueberry <i>Vaccinium boreale</i>	Mount Mansfield	alpine tundra	a single site taxonomy in question
Maleberry <i>Vaccinium stamineum</i> 298 25	southern VT	dry open woods	a single site
Alpine bilberry <i>Vaccinium uliginosum</i> 164 26	northern Green Mts.	alpine and subalpine ledges	fewer than 5 current sites
Mountain cranberry <i>Vaccinium vitis-idaea</i> 128 27	northern VT	alpine ledges, cold woods	2 current sites
PYROLA FAMILY - Pyrolaceae			
Bog wintergreen <i>Pyrola asarifolia</i> 178 6	scattered throughout	calcareous swamps and fens	fewer than 5 current sites several historical sites
Lesser pyrola <i>Pyrola minor</i> 178 7	northern VT	cold woods	a single current site 2 historical sites
DIAPENSIA FAMILY - Diapensiaceae			
Diapensia <i>Diapensia lapponica</i> ssp. <i>lapponica</i> 176 33	Mount Mansfield	alpine areas	a single contemporary site
PRIMROSE FAMILY - Primulaceae			
Lance-leaved loosestrife <i>Lysimachia hybrida</i> 266	Lake Champlain	wet shores, marshes	3 current sites 8 historical sites
Bird's-eye primrose <i>Primula mistassinica</i> 180 35	Orleans County	calcareous ledges and seeps	4 current sites
Water-pimpernel <i>Samolus parviflorus</i> 200	Addison County	clay shores	a single historical site

SPECIES	DISTRIBUTION	HABITAT	ABUNDANCE
GENTIAN FAMILY - Gentianaceae			
Yellow bartonia <i>Bartonia virginica</i> 126 67	southern and western VT	wet woods, sands	4 current sites 7 historical sites
Felwort <i>Gentiana amarella</i> 60	Mount Mansfield	subalpine	2 historical sites
Fringe-top closed gentian <i>Gentiana andrewsii</i> 252 63	Champlain Valley	moist open meadows	3 current sites 8 historic sites
Fringed gentian <i>Gentiana crinita</i> 156 61	southern VT	wet calcareous meadows	11 current sites
Stiff gentian <i>Gentiana quinquefolia</i> 254 60	scattered throughout	dry open woods	2 current sites 11 historical sites
Spurred gentian <i>Halenia deflexa</i> 158 66	scattered throughout	cold wet woods	6 historical sites
MILKWEED FAMILY - Asclepiadaceae			
Blunt-leaved milkweed <i>Asclepias amplexicaulis</i> 264 76	Chittenden County	sandplains	2 current sites 3 historic sites
Butterfly weed <i>Asclepias tuberosa</i> 188 74	southern VT	open ground	3 historical sites
MORNING GLORY FAMILY - Convolvulaceae			
Low bindweed <i>Convolvulus spithameus</i> 198 90	Chittenden County	dry open woods or sandplains	3 current sites
PHLOX FAMILY - Polemoniaceae			
Eastern jacob's ladder <i>Polemonium vanbruntiae</i> 230 101	central and western VT	woodland swales, ditches	6 current sites
WATERLEAF FAMILY - Hydrophyllaceae			
Broad-leaved waterleaf <i>Hydrophyllum canadense</i> 208 106	Bennington County	rich woods/alluvium	a single current site
BORAGE FAMILY - Boraginaceae			
Hound's tongue <i>Cynoglossum boreale</i> 120	mostly southern and western VT	dry open woodlands	one current site 9 historic sites
Northern stickseed <i>Hackelia americana</i> 122	scattered throughout	dry open woodlands	4 current sites 4 historical sites
Trailing forget-me-not <i>Myosotis laxa</i> 194 118	scattered throughout	wet meadows, seeps	historical only

SPECIES	DISTRIBUTION	HABITAT	ABUNDANCE
Spring forget-me-not <i>Myosotis verna</i> 200 118	southern and western VT	dry ledges, hills	fewer than 10 sites
VERVAIN FAMILY - Verbenaceae			
Bracted vervain <i>Verbena bracteata</i> 131	southern and western VT	disturbed areas	fewer than 5 sites
Narrow-leaved vervain <i>Verbena simplex</i> 282 129	southern Vermont	dry fields	historical only
MINT FAMILY - Lamiaceae			
Yellow giant hyssop <i>Agastache nepetoides</i> 82 151	southern VT	thickets	a single current site one historical site
Purple giant hyssop <i>Agastache scrophulariifolia</i> 84 151	scattered throughout	thickets	a single current site several historical sites
Downy woodmint <i>Blephilia ciliata</i> 84 172	southern VT	dry fields	historical only
Hairy woodmint <i>Blephilia hirsuta</i> 84 172	southern VT	unknown	historical only
Canada horse-balm <i>Collinsonia canadensis</i> 82 189	southern VT	woods and thickets	3 current sites several historical sites
American dragonhead <i>Moldavia</i> <i>Dracocephalum parviflorum</i> 154	southern VT	dry open ledges	a single site
Virginia water-horehound <i>Lycopus virginicus</i> 90 185	southern and western VT	swamps, wet banks	status unknown
Dotted horsemint <i>Monarda punctata</i> 82 172	northwestern VT	unknown	a single current site less than 5 historical sites
Obedience <i>Physostegia virginiana</i> 94 157	Connecticut River Lake Champlain	damp gravel shores	fewer than 10 sites
Hoary mountain mint <i>Pycnanthemum incanum</i> 84 182	southern VT	dry open woods	a single current site
Awnless mountain-mint <i>Pycnanthemum muticum</i> 92 178	southern VT	open woods and thickets	historical only
Small skullcap <i>Scutellaria parvula</i> 76 149	western VT	open ledges, shores	fewer than 10 current sites
False pennyroyal <i>Trichostema brachiatum</i> 145	southern VT	dry soil	historical only

SPECIES	DISTRIBUTION	HABITAT	ABUNDANCE
NIGHTSHADE FAMILY - Solanaceae			
White ground-cherry <i>Physalis grandiflora</i> 193	Lake Champlain	shores	historical only
Hairy ground-cherry <i>Physalis pubescens</i> 195	western Vermont	waste places	historical only
Yellow ground-cherry <i>Physalis subglabrata</i> 204 198	unknown	waste places	historical only
SNAPDRAGON FAMILY - Scrophulariaceae			
Smooth false-foxglove <i>Aureolaria flava</i> 278 241	southern VT	dry hilltops	fewer than 10 sites
Feverweed <i>Aureolaria pedicularia</i> 286 240	southern VT	dry hills	fewer than 5 current sites
Pale painted cup <i>Castilleja septentrionalis</i> 48 252	Smugglers Notch	subalpine cliffs	a single site
Small-flowered collinsia <i>Collinsia parviflora</i> 228	southern VT	unknown	historical only
Musk flower <i>Mimulus moschatus</i> 213	Connecticut River	damp river ledges	2 current sites; also cultivated
Hairy beardtongue <i>Penstemon hirsutus</i> 102 223	southern and western VT	dry woods and fields	fewer than 10 current sites
Pale beardtongue <i>Penstemon pallidus</i> 224	mostly southern VT	sandy fields	status unknown
Tubular beardtongue <i>Penstemon tubiflorus</i> 222	southern and western VT	unknown	historical only
Hare figwort <i>Scrophularia lanceolata</i> 100 226	mostly southern VT	openings	fewer than 5 sites
Brook pimpernel <i>Veronica anagallis-aquatica</i> 96 237	unknown	wet ditches	status unknown
Water-speedwell <i>Veronica catenata</i> 237	southern VT	slow streams	a single current site 3 historical sites
Culver's-root <i>Veronicastrum virginicum</i> 160 232	Chittenden County	damp open fields	a single site escaped from cultivation?
BROOMRAPE FAMILY - Orobanchaceae			
Squaw-root <i>Conopholis americana</i> 18 258	southern and western Vermont	dry open woodlands	fewer than 10 current sites

SPECIES	DISTRIBUTION	HABITAT	ABUNDANCE
BLADDERWORT FAMILY - Lentibulariaceae			
Butterwort <i>Pinguicula vulgaris</i> 24 259	Smugglers Notch	subalpine cliffs	a single station
Humped bladderwort <i>Utricularia gibba</i> 16 262	scattered	marshes, shallow water	5 current sites 2 historical sites
Purple bladderwort <i>Utricularia purpurea</i> 16 261	northeastern VT	low alkalinity waters	fewer than 10 current sites; may be more common
Northeastern bladderwort <i>Utricularia resupinata</i> 260	scattered	acidic waters	a single current site less than 5 historical sites
Inflated bladderwort <i>Utricularia inflata</i> var. <i>minor</i> 16 261	southern VT	ponds	historical only
ACANTHUS FAMILY - Acanthaceae			
Water-willow <i>Justicia americana</i> 78 266	Champlain Valley	marshes	historical only
PLANTAIN FAMILY - Plantaginaceae			
American shore-grass <i>Littorella americana</i> 273	scattered	softwater lakes	fewer than 10 current sites
BEDSTRAW FAMILY - Rubiaceae			
Northern bedstraw <i>Galium boreale</i> 152 284	scattered	wet fields	fewer than 5 sites
Bedstraw <i>Galium brevipes</i> 290	unknown	unknown	historical only taxonomy in question
Bog bedstraw <i>Galium labradoricum</i> 289	scattered	fens	a single current site
Large marsh-bedstraw <i>Galium obtusum</i> 288	scattered	wet woods, meadows	historical only
Hairy bedstraw <i>Galium pilosum</i> 154 284	scattered	dry woods	historical only
Small bedstraw <i>Galium trifidum</i> 126 289	northern VT	bogs, swamps	status unknown
HONEYSUCKLE FAMILY - Caprifoliaceae			
Hairy honeysuckle <i>Lonicera hirsuta</i> 108 301	southwest VT	dry limy woods	fewer than 10 current sites several historical sites
Swamp fly-honeysuckle <i>Lonicera oblongifolia</i> 104 297	Champlain Valley and northeast VT	calcareous swamps	fewer than 10 current sites may be overlooked

SPECIES	DISTRIBUTION	HABITAT	ABUNDANCE
Squashberry <i>Viburnum edule</i> 304 292	Green Mountains, high elevations	high-elevation woods	3 current sites one historical site
VALERIAN FAMILY - Valerianaceae			
Marsh valerian <i>Valeriana uliginosa</i> 286 306	scattered	cedar swamps	historical only?
COMPOSITE FAMILY - Asteraceae			
Hairy arnica <i>Arnica mollis</i> 390 395	Smugglers Notch	subalpine cliffs	historical only may be extirpated from site
Tall wormwood <i>Artemisia campestris</i> 394	Lake Champlain and northern mountains	lakeshores and subalpine ledges	fewer than 10 sites
Bog aster <i>Aster nemoralis</i> 460 450	northern VT	bogs	fewer than 10 current sites
Rush aster <i>Aster junciformis</i> 460 456	mostly southern VT	bogs and swamps	historical only
Arrow-leaved aster <i>Aster sagittifolius</i> 454 448	Bennington County	open woods and fields	a single current site
Small bidens <i>Bidens discoidea</i> 355	Champlain Valley	shores, marshes	a single current site 2 historical sites
Tufted beggar-ticks <i>Bidens comosa</i> 355	Addison County	unknown	a single historical site
Field thistle <i>Cirsium discolor</i> 430 509	southern and western VT	open woods and fields	a single current site several historical sites
Hyssop-leaved fleabane <i>Erigeron hyssopifolius</i> 472	scattered, mostly in northern VT	river gorges and subalpine ledges	fewer than 10 current sites
Upland boneset <i>Eupatorium sessilifolium</i> 434 488	southern VT	dry woods, below cliffs	2 current sites
Woodland cudweed <i>Gnaphalium sylvaticum</i> 481	northern VT	high-elevation woods	a single current site
Sneezeweed <i>Helenium autumnale</i> 376 379	Champlain Valley	shores, meadows	fewer than 5 current sites
Harsh sunflower <i>Helianthus strumosus</i> 388 337	southern and western VT	sandplains and dry woods	fewer than 5 current sites several historical sites
Hairy lettuce <i>Lactuca hirsuta</i> 535	southern and western VT	sandplains and open woods	a single current site less than 5 historical sites
Sweet coltsfoot <i>Petasites frigidus</i> var. <i>palmatus</i> 407	northern VT	cedar swamps and cold woods	fewer than 5 current sites

SPECIES	DISTRIBUTION	HABITAT	ABUNDANCE
White-flowered leafcup <i>Polymnia canadensis</i> 278 365	Rutland County	calcareous woods	2 current sites only
Boott's rattlesnake root <i>Prenanthes boottii</i> 384 520	Mount Mansfield Camel's Hump	alpine ledges	2 sites
Three-leaved rattlesnake-root <i>Prenanthes trifoliolata</i> 384 519	southern VT	cliffs, open woods	a single current site
White-topped aster <i>Sericocarpus asteroides</i> 210 458	southern VT	dry woods	historical only
Cutler's goldenrod <i>Solidago cutleri</i> 452 417	Green Mountains	alpine, subalpine	status unknown
Sweet goldenrod <i>Solidago odora</i> 448 430	southern and western VT	openings	a single current site one historical site
Roughleaf goldenrod <i>Solidago patula</i> 446 426	southern VT	swamps, wetlands	status unknown
Slender-leaved goldenrod <i>Solidago tenuifolia</i> 450 436	Champlain Valley	shores	status unknown
Elm-leaved goldenrod <i>Solidago ulmifolia</i> 446 428	Bennington County	open woods	a single current site one historical site

STATE THREATENED AND ENDANGERED PLANTS

The following species (listed alphabetically by scientific name under each of the two categories) are protected by the Vermont Endangered Species Law (10 V.S.A. Chap. 123).

ENDANGERED 24 Spp.

Ammophila breviligulata var. champlainensis	Champlain beachgrass
Anemone multifida	Early thimbleweed
Astragalus robbinsii var. jesupi	Jesup's milk-vetch
Botrychium lunaria	Moonwort
Carex buxbaumii	Buxbaum's sedge
Carex richardsonii	Richardson's sedge
Ceanothus ovatus	Prairie redroot
Cyperus diandrus	Shore cyperus
Diapensia lapponica ssp. lapponica	Diapensia
Hudsonia tomentosa	Beach heather
Hydrastis canadensis	Goldenseal
Listera auriculata	Auricled twayblade
Listera australis	Southern twayblade
Ludwigia polycarpa	Many-fruited false-loosestrife
Lygodium palmatum	Climbing fern
Plagiobryum zierii	Moss
Prenanthes boottii	Boott's rattlesnake-root
Pyrola minor	Lesser pyrola
Salix uva-ursi	Bearberry willow
Sphagnum subfulvum	Peat moss
Sporobolus asper	Rough rush-grass
Valeriana uliginosa	Marsh valerian
Veronicastrum virginicum	Culver's root
Woodsia alpina	Alpine woodsia

THREATENED 91 Spp.

Agastache nepetoides	Yellow giant hyssop
Agastache scrophulariifolia	Purple giant hyssop
Allium canadense	Wild garlic
Aplectrum hyemale	Puttyroot
Arabis lyrata	Lyre-leaved rockcress
Arethusa bulbosa	Arethusa
Arisaema dracontium	Green dragon
Armoracia aquatica	Lake cress
Asclepias amplexicaulis	Blunt-leaved milkweed
Asclepias tuberosa	Butterfly-weed
Asplenium montanum	Mountain spleenwort
Asplenium viride	Green spleenwort
Astragalus canadensis	Canadian milk-vetch
Blephilia hirsuta	Hairy woodmint
Braya humilis	New England rockcress
Calypso bulbosa	Fairy slipper
Carex atratiformis	Black sedge
Carex capillaris	Capillary sedge

Carex garberi var. *bifaria*
Carex livida
Carex muhlenbergii
Cassia hebecarpa
Castilleja septentrionalis
Convolvulus spithameus
Corallorhiza odontorhiza
Cornus florida
Corydalis aurea
Crotalaria sagittalis
Cynoglossum boreale
Cyperus houghtonii
Cypripedium arietinum
Desmodium rotundifolium
Draba glabella
Draba lanceolata
Dracocephalum parviflorum
Dryopteris filix-mas
Eleocharis pauciflora var. *fernaldii*
Equisetum palustre
Galium labradoricum
Gentiana amarella
Gentiana andrewsii
Gentiana quinquefolia
Hackelia americana
Helianthemum bicknellii
Helianthus strumosus
Hierochloa alpina
Hydrophyllum canadense
Hypericum pyramidatum
Isoetes engelmannii
Isotria verticillata
Juniperus horizontalis
Lathyrus japonicus
Lathyrus palustris
Lespedeza violacea
Liparis lilifolia
Lupinus perennis
Lycopodium sitchense
Malaxis brachypoda
Minuartia marcescens
Minuartia rubella
Morus rubra
Panicum xanthophysum
Petasites frigidus var. *palmatus*
Physostegia virginiana
Pinus banksiana
Platanthera flava var. *herbiola*
Platanthera hookeri
Polemonium vanbruntiae
Polymnia canadensis
Primula mistassinica
Prunus americana
Rhexia virginica
Rhododendron maximum
Rhynchospora capillacea
Salix planifolia

Garber's sedge
Pale sedge
Muhlenberg's sedge
Wild senna
Pale painted-cup
Low bindweed
Autumn coral-root
Flowering dogwood
Golden corydalis
Rattlebox
Hound's tongue
Houghton's cyperus
Ram's head lady's-slipper
Prostrate tick-trefoil
Smooth draba
Lanceolate cress
American dragonhead
Male fern
Few-flowered spike-rush
Marsh horsetail
Bog bedstraw
Felwort
Fringe-top closed gentian
Stiff gentian
Northern stickseed
Plains frostweed
Harsh sunflower
Alpine sweet-grass
Broad-leaved waterleaf
Great St. Johnswort
Engelmann's quillwort
Large whorled pogonia
Creeping juniper
Beach pea
Vetchling
Violet bush-clover
Lily-leaved twayblade
Wild lupine
Alaskan clubmoss
White adder's mouth
Serpentine sandwort
Marble sandwort
Red mulberry
Yellow panic-grass
Sweet coltsfoot
Obedience
Jack pine
Tubercled orchis
Hooker's orchis
Eastern Jacob's-ladder
White-flowered leafcup
Bird's-eye primrose
American plum
Virginia meadow-beauty
Great laurel
Capillary beakrush
Tea-leaved willow

Sanicula canadensis
Scheuchzeria palustris ssp. *americana*
Scirpus ancistrochaetus
Scirpus verecundus
Sedum rosea
Solidago odora
Solidago ulmifolia
Taenidia integerrima
Tofieldia glutinosa
Triphora trianthophora
Utricularia gibba
Utricularia resupinata
Viburnum edule
Viola lanceolata
Woodwardia virginica
Xyris montana

Short-styled snakeroot
 Pod-grass
 Barbed-bristle bulrush
 Bashful bulrush
 Roseroot
 Sweet goldenrod
 Elm-leaved goldenrod
 Yellow pimpernel
 Sticky false-asphodel
 Three-birds orchid
 Humped bladderwort
 Northeastern bladderwort
 Squashberry
 Lance-leaved violet
 Virginia chainfern
 Small yellow-eyed grass

FEDERALLY LISTED OR PROPOSED SPECIES

As per the Federal Endangered Species Law (P.L. 93-205)

LISTED ENDANGERED ✓ T.

<i>Astragalus robbinsii</i> var. <i>jesupi</i>	<i>E</i>	Jesup's milk-vetch
<i>Isotria medeoloides</i>	<i>NL</i>	Small whorled pogonia

UNDER CONSIDERATION FOR LISTING (Category 2)

<i>Listera auriculata</i>	<i>E</i>	Auricled twayblade
<i>Scirpus ancistrochaetus</i>	<i>T</i>	Barbed bristle bulrush
<i>Polemonium vanbruntiae</i>	<i>T</i>	Eastern Jacob's-ladder
<i>Prenanthes boottii</i>	<i>E</i>	Boott's rattlesnake-root

WATCH LIST: OCCASIONAL SPECIES

The following plants (listed in alphabetical order by scientific name) are considered uncommon in Vermont, but not as rare as those in the preceding pages. The Natural Heritage Program keeps track of their locations but does not give them high priority for protection. Most of them are indicators of unusual habitat which should be protected in its own right.

Agropyron trachycaulon 140	Wheat-grass
Alopecurus aequalis 169	Foxtail
Asclepias exaltata 75	Poke-milkweed
Asclepias quadrifolia 77	Four-leaved milkweed
Aster ptarmicoides 460	Snowy aster
Aster laevis 454	Smooth aster
Aureolaria virginica 240	Downy false-foxglove
Carex michauxiana 358	Michaux's sedge
Cirsium muticum 511	Swamp thistle
Cladium mariscoides 291	Twig-rush
Clematis occidentalis	Purple clematis
Cryptogramma stelleri 31	Steller's cliff-brake
Cyperus aristatus 251	Recurved cyperus
Cypripedium parviflorum 456	Small yellow lady's-slipper
Cypripedium pubescens 456	Large yellow lady's slipper
Cypripedium reginae	Showy lady's slipper
Diplazium pycnocarpon 43	Narrow-leaved spleenwort
Dryopteris goldiana 54	Goldie's fern
Eriophorum tenellum 281	Small cotton-grass
Eupatorium purpureum 486	Purple boneset
Geranium bicknellii 459	Bicknell's cranebill
Hieracium venosum 525	Poor-Robin's plantain
Houstonia longifolia 276	Ledge bluets
Kalmia latifolia 14	Mountain laurel
Liparis loeselii 473	Loesel's twayblade
Lonicera villosa 299	Swamp-fly honeysuckle
Lyonia ligustrina 18	Maleberry
Milium effusum 180	Wild millet
Panax quinquefolius 605	Ginseng
Pellaea glabella 33	Smooth cliff-brake
Pellaea atropurpurea 33	Purple-stemmed cliff-brake
Polygala senega 471	Seneca snakeroot
Potamogeton obtusifolius 80	Pondweed
Potamogeton strictifolius 80	Pondweed
Potentilla arguta 298	Tall cinquefoil
Quercus muhlenbergii 43	Yellow oak
Quercus prinus 43	Chestnut oak
Ranunculus pensylvanicus 176	Pennsylvania crowfoot
Salsola kali 100	Saltwort
Shepherdia canadensis 573	Buffalo-berry
Solidago macrophylla var thyrsoides 416	Large-leaved goldenrod
Solidago calcicola 432	Lime-loving goldenrod
Spiranthes romanzoffiana 468	Hooded ladies'-tresses
Spiranthes lacera	Slender ladies'-tresses
Spiranthes lucida 468	Shining ladies'-tresses
Triosteum aurentiacum 303	Feverwort
Utricularia geminiscapa 262	Bladderwort
Vaccinium cespitosum 27	Dwarf bilberry
Viburnum rafinesquianum 294	Downy arrowwood

INDEX TO GENERA

Acalypha	20
Acer	20
Adiantum	2
Agastache	25, 30
Agrimonia	17
Agropyron	33
Agrostis	4
Allium	11, 30
Alopecurus	33
Amaranthus	15
Amerorchis	12
Ammophila	4, 30
Anemone	15, 30
Anemonella	15
Aplectrum	12, 30
Arabis	16, 30
Arethusa	12, 30
Arisaema	10, 30
Aristida	4
Armoracia	17, 30
Arnica	28
Artemisia	28
Asclepias	24, 30, 33
Asplenium	2, 30
Aster	28, 33
Astragalus	18, 30, 32
Aureolaria	26, 33
Baptisia	18
Bartonia	24
Betula	13
Bidens	28
Blephilia	25, 30
Botrychium	2, 30
Braya	17, 30
Calamagrostis	4
Callitriche	20
Calypso	12, 31
Cardamine	17
Carex	6, 30, 31, 33
Carya	13
Cassia	19, 31
Castilleja	26, 31
Ceanothus	20, 30
Cenchrus	4
Cerastium	15
Ceratophyllum	15
Chenopodium	15
Chimaphila	23
Cirsium	28, 33
Cladium	33
Claytonia	15
Clematis	33
Collinsia	26
Collinsonia	25
Conopholis	26
Convolvulus	24, 31

Corallorhiza	12, 31
Cornus	23, 31
Corydalis	16, 31
Corylus	13
Crataegus	18
Crotalaria	19, 31
Cryptogramma	33
Cynoglossum	24, 31
Cyperus	9, 30, 31, 33
Cypripedium	12, 31, 33
Descurainia	17
Desmodium	19, 31
Diapensia	23, 30
Diplazium	33
Draba	17, 31
Dracocephalum	25, 31
Dryopteris	2, 31
Elatine	21
Eleocharis	9, 31
Elodea	4
Elymus	4
Empetrum	20
Equisetum	1, 31
Eragrostis	5
Erigeron	28
Eriophorum	9, 33
Eupatorium	28, 33
Euphorbia	20
Festuca	5
Fimbristylis	9
Floerkea	20
Galium	27, 31
Gentiana	24, 31
Geocaulon	14
Geranium	19, 33
Geum	18
Glyceria	5
Gnaphalium	28
Gymnocarpium	2
Hackelia	24, 31
Halenia	24
Hedysarum	19
Helenium	28
Helianthemum	21, 31
Helianthus	28, 31
Hieracium	33
Hierochloa	5, 31
Hippuris	22
Houstonia	33
Hudsonia	21, 30
Hybanthus	21
Hydrastis	16, 30
Hydrophyllum	24, 31
Hypericum	21, 31
Hypoxis	11
Isoetes	1, 31
Isotria	12, 31, 32

Juncus	10
Juniperus	3, 31
Justicia	27
Kalmia	33
Lactuca	28
Lathyrus	19, 31
Lechea	21
Lespedeza	19, 31
Lindera	16
Linum	19
Liparis	12, 31, 33
Liriodendron	16
Listera	12, 30, 32
Littorella	27
Lonicera	27, 33
Ludwigia	22, 30
Lupinus	19, 31
Luzula	11
Lycopodium	1, 31
Lycopus	25
Lygodium	2, 30
Lyonia	33
Lysimachia	23
Malaxis	12, 31
Milium	33
Mimulus	26
Minuartia	15, 31
Moehringia	15
Monarda	25
Morus	14, 31
Muhlenbergia	5
Myosotis	24
Myriophyllum	22
Najas	4
Nyssa	22
Oenothera	22
Oryzopsis	5
Osmorhiza	22
Panax	33
Panicum	5, 31
Paronychia	15
Paspalum	5
Pellaea	33
Peltandra	10
Penstemon	26
Petasites	28, 31
Physalis	26
Physostegia	25, 31
Pinguicula	27
Pinus	3, 31
Plagiobryum	30, 31
Platanthera	12, 13, 31
Poa	5
Podophyllum	16
Podostemum	17
Polemonium	24, 31, 32
Polygala	20, 33

Polygonatum	11
Polygonum	14
Polymnia	29, 31
Potamogeton	3, 33
Potentilla	18
Prenanthes	29, 30, 32
Primula	23, 32
Proserpinaca	22
Prunus	18, 32
Pterospora	23
Pycnanthemum	25
Pyrola	23, 30
Quercus	13, 33
Ranunculus	16, 33
Rhexia	22, 32
Rhododendron	23, 32
Rhynchospora	9, 32
Rosa	18
Rumex	14
Sagina	15
Salix	13, 30, 32
Salsola	33
Samolus	23
Sanguisorba	18
Sanicula	22, 32
Saxifraga	17
Scheuchzeria	4, 32
Scirpus	10, 32
Scrophularia	26
Scutellaria	25
Sedum	17, 32
Sericocarpus	29
Shepherdia	33
Sisyrinchium	11
Solidago	29, 32, 33
Sorbus	18
Sparganium	3
Sphagnum	30, 32
Sphenopholis	6
Spiranthes	33
Sporobolus	6, 30
Stellaria	15
Subularia	17
Taenidia	22, 32
Thelypteris	2
Tillaea	17
Tofieldia	11, 32
Trichostema	25
Trillium	11
Triosteum	33
Triphora	13, 32
Trisetum	6
Ulmus	14
Utricularia	27, 32, 33
Uvularia	11
Vaccinium	23, 33
Valeriana	28, 30

Verbena	25
Veronica	26
Veronicastrum	26, 30
Viburnum	28, 32, 33
Viola	21, 32
Vitis	21
Vulpia	6
Woodsia	2, 30
Woodwardia	3, 32
Xyris	10, 32
Zannichelia	4
Zigadenus	11