

Supplement to the Flora of Worcester, Massachusetts July, 2003

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The records below are additions and changes to the *Vascular Flora of Worcester, Massachusetts*, published by the New England Botanical Club in 2000. The majority of the additions are based on the collections of the Worcester Natural History Society (WNHS), currently housed at the Ecotarium in Worcester. I am grateful to Dolores Root, who brought these specimens to my attention after publication of the *Flora*, and to Russell Handsman, who provided access to them. Several other new Worcester specimens were uncovered at the collections at Harvard University (HUH) and the University of Massachusetts (MASS). Additionally, a few new records are based on field observations since 2000, and there are a few corrections to the information published in the flora.

This list is presented in the same order as the *Flora*, with the four major plant groups in the sequence: ferns and fern allies, gymnosperms, monocotyledons, dicotyledons. Families, genera and species are arranged alphabetically within these larger groups. I include records for all new species encountered as well as for species already in the flora but which had not been documented by historical specimens and for which historical specimens have now been found. Specimens are designated by the herbarium and date of collection. Introduced species are denoted with an asterisk.

Ferns and Fern Allies

Aspleniaceae

- Dryopteris clintoniana* (D.C.Eat.) Dowell new species; WNHS 1878
Dryopteris goldiana (Hook.) A.Gray new species; HUH 1878, WNHS 1878
Dryopteris x slossoniae Wherry new hybrid; WNHS 1907

Isoetaceae

- Isoetes echinospora* Durieu specimen; WNHS 1890

Lycopodiaceae

- Lycopodium inundatum* L. new species; WNHS 1889

Ophioglossaceae

- Botrychium oneidense* (Gilbert) House new species; WNHS 1916

Polypodiaceae

- Polypodium virginianum* L. specimen; WNHS no date
Woodsia ilvensis (L.) R.Br. new species; HUH

Gymnosperms

Cupressaceae

- Chamaecyparis thyoides* (L.) BSP. new species; WNHS 1890

Pinaceae

- Larix laricina* (Duroi) K.Koch new species; WNHS 1890
 **Pseudotsuga menziesii* (Mirbel) Franco new species; extant at SJC, specimen RIB 1972

Taxaceae

- Taxus canadensis* Marshall specimen; WNHS 1890

Dicotyledons

Amaranthaceae

- **Amaranthus hypochondriacus* L. new species; WNHS 1886

Anacardiaceae

- Rhus typhina* L. specimen; WNHS 1885

Apiaceae

- **Carum carvi* L. specimen; WNHS no date
Cryptotaenia canadensis (L.) DC. specimen; WNHS 1890

Asclepiadaceae

- Asclepias tuberosa* L. new species; WNHS 1890 and extant at BMB

Asteraceae

- **Artemisia annua* L. specimen; WNHS 1918
 **Artemisia stelleriana* Besser new species; WNHS 1916
 **Bidens aristosa* (Michx.) Britton new species; WNHS 1922
 **Bidens tenuisecta* A. Gray specimen; WNHS 1921
 **Centaurea cyanus* L. specimen; WNHS no date
 **Centaurea solstitialis* L. specimen; WNHS 1922
Cirsium muticum Michx. new species; WNHS 1914
 **Conyza bonariensis* (L.) Cronq. specimen; HUH 1917
 **Coreopsis grandiflora* Hogg specimen; WNHS 1930
 **Coreopsis tinctoria* Nutt. new species; WNHS 1934
 **Eupatorium coelestinum* L. specimen; WNHS 1928
Eupatorium maculatum L. specimen; WNHS 1890
Eupatorium pilosum Walter new species; WNHS 1894
Eupatorium purpureum L. specimen; WNHS 1919
Eupatorium rotundifolium L. new species; WNHS 1934
 **Grindelia squarrosa* (Pursh) Dunal specimen; WNHS 1923
Helianthus decapetalus L. specimen; WNHS 1920
 **Helianthus maximilianii* Schrader specimen; WNHS 1918
 **Helianthus mollis* Lam. specimen; WNHS 1915
 **Helianthus x laetiflorus* Pers. is introduced, not native as indicated in the *Flora*
 **Heliopsis helianthoides* (L.) Sweet specimen; WNHS 1909
Hieracium x marianum Willd. new hybrid; WNHS 1924
 **Lapsana communis* L. specimen; WNHS 1924
Liatris scariosa (L.) Willd. new species; WNHS no date
 **Madia sativa* Molina specimen; WNHS 1929
 **Onopordium acanthium* L. specimen; WNHS 1913
Rudbeckia laciniata L. specimen; WNHS 1934
 **Rudbeckia triloba* L. specimen; WNHS 1920
 **Senecio spartioides* new name for *S. multicapitulata*; specimen WNHS 1922

Solidago rugosa Miller new variety; HUH 1917; var. *sphagnophila* Graves
Vernonia noveboracensis (L.) Michx. new species; WNHS 1890
Xanthium ambrosioides Hook. & Arn. specimen; WNHS 1918

Berberidaceae

- **Berberis vulgaris* L. specimen; WNHS 1890

Boraginaceae

- Myosotis verna* Nutt. new species; HUH 1890
 **Hackelia deflexa* (Wahlenb.) Opiz. specimen; WNHS 1925
 **Lithospermum arvense* L. new species; WNHS 1890
 **Lithospermum officinale* L. new species; WNHS 1890

Brassicaceae

- **Alyssum alyssoides* (L.) L. new species; WNHS 1890
 **Barbarea verna* (Miller) Aschers. specimen; WNHS 1913
Cardamine rhomboidea (Pers.) DC. new species; MASS no date
Cardamine parviflora L. specimen; WNHS 1869
 **Rorippa amphibia* (L.) Besser specimen; HDW 5188

Cabombaceae

Brasenia schreberi J.F.Gmelin specimen; WNHS 1890

Caesalpiaceae

Chamaechrista fasciculata (Michx.) Greene new species; HUH 1879
 **Gleditsia triacanthos* L. specimen; WNHS 1887

Campanulaceae

Campanula aparinoides Pursh specimen; WNHS 1877

Caprifoliaceae

Lonicera canadensis Marshall new species; HUH no date
 **Symphoricarpos orbiculatus* Moench specimen; WNHS 1938
Triosteum aurantiacum E. Bickn. specimen; WNHS 1938
Viburnum nudum L. specimen; WNHS 1890
Viburnum opulus L. specimen; WNHS 1896; var. *opulus*
Viburnum opulus L. new variety; ECOT 1896; var. *americanum* Aiton

Caryophyllaceae

Stellaria borealis Bigelow new species; WNHS 1929

Ceratophyllaceae

Ceratophyllum demersum L. specimen; WNHS 1889

Chenopodiaceae

**Atriplex prostrata* Boucher ex DC. new species; HUH 1913
 **Bassia hyssopifolia* (Pallas) Volk. no recent records; RIB 1284 misidentified
 **Chenopodium multifidum* L. specimen; WNHS 1912
 **Chenopodium murale* L. specimen; WNHS 1936
 **Kochia scoparia* (L.) Schrad. new recent record; RIB 1284 previously
 misidentified as *Bassia hyssopifolia*

Clusiaceae

Hypericum gentianoides (L.)BSP. specimen number is RIB 712, not RIB 821

Convolvulaceae

**Ipomoea coccinea* L. specimen; WNHS 1921

Cornaceae

Cornus rugosa Lam. specimen; WNHS 1912

Crassulaceae

**Sedum purpureum* (L.) J.A.Schultes specimen; WNHS 1885

Cuscutaceae

Cuscuta pentagona Engelm. new species; MASS 1976

Ericaceae

Arctostaphylos uva-ursi (L.) Sprengel new species; WNHS no date
Eubotrys racemosa (L.) Nutt. specimen; WNHS 1889
Kalmia polifolia Wangenh. new species; WNHS no date

<i>Ledum groenlandicum</i> Oeder	new species; WNHS 1890
Fabaceae	
* <i>Cladrastis lutea</i> (Michx.f.) K.Koch	specimen; WNHS 1886
<i>Desmodium glabellum</i> (Michx.) DC.	specimen; WNHS 1918
<i>Desmodium marilandicum</i> (L.) DC.	specimen; WNHS 1918
<i>Desmodium rigidum</i> (Ell.) DC.	new species; WNHS 1890
* <i>Lathyrus latifolius</i> L.	specimen; WNHS 1934
<i>Lespedeza virginica</i> (L.) Britton	new species; WNHS
<i>Lupinus perennis</i> L.	new species; WNHS 1894
* <i>Medicago minima</i> (L.) L.	new species; WNHS 1917
* <i>Robinia hispida</i> L.	specimen; WNHS 1936
<i>Tephrosia virginiana</i> (L.) Pers.	specimen; WNHS 1890
Fumariaceae	
* <i>Corydalis aurea</i> Willd.	new species; WNHS 1935
Gentianaceae	
<i>Bartonia virginica</i> (L.) BSP.	add specimen; RIB 821
* <i>Centaurium erythraea</i> Raf.	specimen; HUH 1923
Hippocastanaceae	
* <i>Aesculus hippocastanum</i> L.	specimen; WNHS 1890
Hydrangeaceae	
* <i>Hydrangea paniculata</i> Sieb.	specimen; WNHS 1919
* <i>Philadelphus coronarius</i> L.	specimen; WNHS 1934
Juglandaceae	
* <i>Juglans nigra</i> L.	specimen; WNHS 1938
Lamiaceae	
* <i>Dracocephalum parviflorum</i> Nutt.	new species; WNHS 1918
* <i>Lamium maculatum</i> L.	specimen; WNHS 1890
* <i>Lamium purpureum</i> L.	specimen; WNHS 1899
* <i>Melissa officinalis</i> L.	new species; WNHS 1890
* <i>Perilla frutescens</i> (L.) Britton	new species; WNHS 1935
<i>Stachys palustris</i> L.	specimen; WNHS 1927; var. <i>pilosa</i>
<i>Teucrium canadense</i> L.	specimen; WNHS 1934
Lythraceae	
<i>Decodon verticillatus</i> (L.) Elliott	specimen; WNHS 1890
Malvaceae	
* <i>Malva alcea</i> L.	specimen; WNHS 1930
* <i>Malva crispa</i> (L.) L.	new species; WNHS 1911
Nymphaeaceae	
<i>Nymphaea odorata</i> Aiton	specimen; WNHS 1886
Oleaceae	

* <i>Ligustrum vulgare</i> L.	new species; WNHS 1931
Onagraceae	
<i>Circaea alpina</i> L.	new species; WNHS 1890
<i>Oenothera parviflora</i> L.	specimen; WNHS 1938
Papaveraceae	
* <i>Papaver rhoeas</i> L.	specimen; WNHS 1935
Polemoniaceae	
* <i>Polemonium reptans</i> L.	specimen; WNHS 1890
Polygalaceae	
<i>Polygala polygama</i> Walter	new species; WNHS 1877
Polygonaceae	
<i>Polygonum arifolium</i> L.	specimen; WNHS 1890
* <i>Polygonum orientale</i> L.	new species; WNHS 1878
* <i>Rumex maritimus</i> L.	new species; WNHS 1928
Primulaceae	
<i>Lysimachia hybrida</i> Michx.	new species; WNHS 1899
Pyrolaceae	
<i>Pyrola rotundifolia</i> L.	specimen; WNHS 1906
<i>Pyrola secunda</i> L.	new species; WNHS 1890
Ranunculaceae	
* <i>Delphinium ajacis</i> L.	new species; WNHS 1935
<i>Ranunculus scleratus</i> L.	specimen; WNHS 1930
Rosaceae	
* <i>Agrimonia rostellata</i> Wallr.	new species; HUH 1910
<i>Crataegus coccinea</i> L.	specimen; WNHS 1898
* <i>Crataegus monogyna</i> Jacq.	specimen; WNHS 1887; extant at SAP
<i>Fragaria vesca</i> L.	new species; WNHS 1885
* <i>Physocarpus opulifolius</i> (L.) Maxim.	specimen; WNHS 1938
* <i>Potentilla anserina</i> L.	specimen; WNHS 1913
<i>Potentilla arguta</i> Pursh	specimen; WNHS 1918
* <i>Prunus padus</i> L.	specimen; WNHS 1927
* <i>Rhodotypos scandens</i> (Thunb.) Makino	extant at CSP, specimen RIB 1973
* <i>Rosa setigera</i> Michx.	specimen; WNHS 1929
* <i>Sanguisorba annua</i> (Nutt.) Torr. & Gray	specimen; WNHS 1930
<i>Sanguisorba canadensis</i> L.	new species; WNHS 1890
* <i>Sanguisorba minor</i> Scop.	new species; WNHS 1911
* <i>Sorbus aucuparia</i> L.	specimen; WNHS 1887
* <i>Spiraea thunbergii</i> Sieb.	specimen; WNHS 1933
* <i>Spiraea x vanhouttei</i> (Briot) Carr.	specimen; WNHS 1934
Rubiaceae	

**Galium sylvaticum* L. specimen; WNHS 1936
Galium trifidum L. new species; WNHS 1916

Salicaceae

**Populus x jackii* Sarg. new species; WNHS no date
Salix alba L. specimen number for var. *vitellina* is RIB 1833

Scrophulariaceae

Agalinis tenuifolia (M.Vahl) Raf. specimen; WNHS 1879
 **Veronica longifolia* L. new species; WNHS 1934
 **Veronica teucrium* L. new species; WNHS 1910

Solanaceae

**Nicotiana alata* Link & Otto new species; WNHS 1934
Physalis heterophylla Nees specimen; WNHS 1886

Ulmaceae

Ulmus americana L. specimen; WNHS 1886
Ulmus rubra Muhl extant at TFL

Urticaceae

Urtica dioica L. specimen; WNHS 1890; var. *gracilis*

Violaceae

**Viola canadensis* L. new species; WNHS 1934
Viola primulifolia L. new species; WNHS 1919
 **Viola striata* Aiton specimen; WNHS 1929

Monocotyledons

Araceae

Calla palustris L. specimen; WNHS 1878

Commelinaceae

Tradescantia ohioensis Raf. new species; MASS 1976

Cyperaceae

Carex albicans Willd. specimen; WNHS 1878
Carex appalachica Mackenzie new species; previously confused with *C. radiata*
Carex communis L. Bailey specimen; WNHS 1878
Carex cristatella Britton delete; specimen at WNHS misidentified
Carex cryptolepis Mackenzie new species; HUH 1879
Carex digitalis Willd. specimen; WNHS 1878
Carex disperma Dewey new species MASS 1880
Carex echinata Murray specimen; WNHS 1878
Carex flava L. specimen; WNHS 1878
Carex hirtifolia Mackenzie new species; HUH 1911
Carex prasina Wahlenb. specimen; WNHS 1878
Carex siccata Dewey new species; HUH 1879
Carex stricta Lam. specimen; WNHS 1878

<i>Cyperus dentatus</i> Torrey	new species; WNHS 1918
<i>Eleocharis palustris</i> (L.) Roemer & Schultes	specimen; WNHS 1878
<i>Eriophorum gracile</i> Koch	new species; WNHS 1878
<i>Eriophorum vaginatum</i> L.	specimen; HUH 1880
<i>Eriophorum virginicum</i> L.	new species; WNHS 1891
<i>Rhynchospora alba</i> (L.) Vahl	new species; WNHS 1878
<i>Scirpus atrovirens</i> Willd.	specimen; WNHS 1878
<i>Scirpus subterminalis</i> Torr.	specimen; WNHS 1890
<i>Scirpus validus</i> Vahl	specimen; WNHS 1878
Hydrocharitaceae	
<i>Elodea canadensis</i> Michx.	specimen; WNHS 1890
Iridaceae	
<i>Sisyrinchium mucronatum</i> Michx.	new species; WNHS 1938
Juncaceae	
<i>Luzula acuminata</i> Raf.	new species; WNHS 1878
Lemnaceae	
<i>Spirodela polyrhiza</i> (L.) Schleiden	specimen; WNHS 1890
<i>Wolffia brasiliensis</i> Weddell	new species; at least some of the <i>W. columbiana</i> records in the flora are actually this species
Liliaceae	
<i>Aletris farinosa</i> L.	new species; WNHS 1890
<i>Allium canadense</i> L.	new species; HUH 1880
* <i>Hemerocallis fulva</i> (L.) L.	specimen; WNHS 1890
* <i>Narcissus poeticus</i> L.	specimen; WNHS 1888
* <i>Narcissus pseudonarcissus</i> L.	specimen; WNHS 1934
* <i>Ornithogalum umbellatum</i> L.	specimen; WNHS 1888
* <i>Polygonatum biflorum</i> (Walter) Elliott	specimen; WNHS 1878
<i>Smilacina trifolia</i> (L.) Desf.	specimen; WNHS 1889
<i>Streptopus roseus</i> Michx.	specimen; WNHS 1878
Najadaceae	
<i>Najas flexilis</i> (Willd.) Rostk. & Schmidt	specimen; WNHS 1889
Orchidaceae	
<i>Cypripedium calceolus</i> L.	specimens; var. <i>parviflora</i> WNHS 1912, var. <i>grandiflora</i> WNHS 1937
<i>Goodyera pubescens</i> (Willd.) R.Br.	specimen; WNHS 1876
<i>Habenaria psycodes</i> (L.) Sprengel <i>psycodes</i>	new variety; NEBC 1879
<i>Habenaria hookeri</i> Torr.	new species; WNHS 1912
<i>Habenaria viridis</i> (L.) R.Br.	new species; WNHS 1912
<i>Liparis loeselii</i> (L.) Rich	new species; MASS 1880
<i>Spiranthes lacera</i> (Raf.) Raf.	new species; WNHS 1885
Poaceae	
<i>Calamagrostis cinnoides</i> (Muhl.) Barton	new species; NEBC 1879
* <i>Cynodon dactylon</i> (L.) Pers.	new species; WNHS 1890

<i>Festuca subverticillata</i> (Pers.) E. Alexeev	specimen; NEBC 1986
* <i>Lolium tementulum</i> L.	specimen; WNHS 1925
<i>Muhlenbergia tenuiflora</i> (Willd.) B.S.P.	extant at TFL
<i>Muhlenbergia uniflora</i> (Muhl.) Fern.	new species; WNHS 1890
* <i>Panicum miliaceum</i> L.	last record should be 1976; MASS
<i>Panicum virgatum</i> L.	specimen; WNHS 1922
<i>Poa alsodes</i> A.Gray	specimen; WNHS 1878
* <i>Secale cereale</i> L.	specimen; WNHS 1878
Potamogetonaceae	
<i>Potamogeton amplifolius</i> Tuckerman	specimen; WNHS 1877
<i>Potamogeton natans</i> L.	specimen; WNHS 1877
Sparganiaceae	
<i>Sparganium angustifolium</i> Michx.	new species; WNHS 1890