**Supplementary File**

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**Specialist Bees of the Northeast: Host Plants and Habitat Conservation**

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Supplementary Table 1. Northeastern native specialist bee families (n = 6), genera (n = 15), and species (n = 82) with scientific names (*Genus* [*Subgenus*] *species*, Taxonomic authority), native ranges according to records from the six New England states (CT, MA, ME, NH, RI, and VT), seasons of peak activity (Spring, Summer, or Fall), regional conservation status (Common = C, Rare = R, or Uncommon = U), and host plant genera with taxonomic authorities or host plant families. Bee families and member genera and species are presented in ascending alphabetical order. All information was compiled initially from Discover Life (Ascher & Pickering 2016), checked against published sources (e.g. Hurd 1979, and references therein) if available, refined through discussions with regional bee experts, and supplemented and revised with unpublished information provided by J. S. Ascher (pers. comm.).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Family** | **Scientific name** | **Native range** | **Peak activity**  | **Status** | **Host plant** |
| Andrenidae | *Andrena* (*Callandrena* s. l.) *aliciae* Robertson, 1891 | CT-MA | Summer | R | *Helianthus* L. |
|  | *Andrena* (*Scaphandrena*) *arabis* Robertson, 1897 | CT-MA | Spring | U | *Arabis* L.*, Cardamine* L. |
|  | *Andrena* (*Callandrena* s. l.) *asteris* Robertson, 1891 | CT-MA-ME-NH-RI-VT | Fall | C | *Solidago* L.*, Symphyotrichum* Nees |
|  | *Andrena* (*Thysandrena*) *bisalicis* Viereck, 1908 | CT-MA-ME-NH-RI-VT | Spring | C | *Salix* L. |
|  | *Andrena* (*Callandrena* s. l.) *braccata* Viereck, 1907 | CT-MA-ME-NH-RI | Fall | C | *Euthamia* Nutt. ex Cass.*, Solidago* L. |
|  | *Andrena* (*Conandrena*) *bradleyi* Viereck, 1907 | CT-MA-ME-NH-RI | Spring | C | *Gaylussacia* Kunth*, Vaccinium* L. |
|  | *Andrena* (*Cnemidandrena*) *canadensis* Dalla Torre, 1896 | CT-MA-ME-NH-RI-VT | Fall | C | *Solidago* L. |
|  | *Andrena* (*Andrena*) *carolina* Viereck, 1909 | CT-MA-ME-NH-RI | Spring | C | *Vaccinium* L. |
|  | *Andrena* (*Andrena*) *clarkella* (Kirby, 1802) | CT-MA-ME-NH-RI-VT | Spring | C | *Salix* L. |
|  | *Andrena* (*Andrena*) *cornelli* Viereck, 1907 | CT-MA | Spring | U | *Rhododendron* L. |
|  | *Andrena* (*Ptilandrena*) *distans* Provancher, 1888 | CT-MA-NH-RI | Spring | C | *Geranium* L. |
|  | *Andrena* (*Callandrena* s. l.) *duplicata* Mitchell, 1960 | CT | Fall | R | Asteraceae |
|  | *Andrena* (*Ptilandrena*) *erigeniae* Robertson, 1891 | CT-MA-NH | Spring | C | *Claytonia* L. |
|  | *Andrena* (*Tylandrena*) *erythrogaster* (Ashmead, 1890) | CT-MA-ME-NH-RI-VT | Spring | C | *Salix* L. |
|  | *Andrena* (*Leucandrena*) *erythronii* Robertson, 1891 | CT-MA-ME-NH | Spring | U | *Erythronium* L. |
|  | *Andrena* (*Gonandrena*) *fragilis* Smith, 1853 | CT-ME-MA-NH-RI | Summer | C | *Cornus* (*Swida*) L. |
|  | *Andrena* (*Andrena*) *frigida* Smith, 1853 | CT-MA-ME-NH-RI | Spring | C | *Salix* L. |
|  | *Andrena* (*Euandrena*) *geranii* Robertson, 1891 | NH-VT | Spring | U | *Hydrophyllum* L. |
|  | *Andrena* (*Callandrena* s. l.) *helianthi* Robertson, 1891 | CT-MA-NH | Summer | U | *Helianthus* L. |
|  | *Andrena* (*Cnemiandrena*) *hirticincta* Provancher, 1888 | CT-MA-ME-NH-RI-VT | Fall | C | *Euthamia* Nutt. ex Cass.*, Solidago* L. |
|  | *Andrena* (*Gonandrena*) *integra* Smith, 1853 | CT-MA-ME-VT | Summer | U | *Cornus* (*Swida*) L. |
|  | *Andrena* (*Scrapteropsis*) *kalmiae* Atwood, 1934 | CT-MA-ME-NH | Summer | U | *Kalmia* L.*, Lyonia* Nutt., *Vaccinium* L. |
|  | *Andrena* (*Callandrena* s. l.) *krigiana* Robertson, 1901 | CT-MA-NH-VT | Spring | U | *Krigia* Schreb. |
|  | *Andrena* (*Trachandrena*) *mariae* Robertson, 1891 | NH-RI | Spring | U | *Salix* L. |
|  | *Andrena* (*Micrandrena*) *melanochroa* Cockerell, 1898 | CT-MA-ME-NH | Spring | U | Rosaceae e.g. *Fragaria* L. |
|  | *Andrena* (*Parandrena*) *nida* Mitchell, 1960 | CT-VT | Spring | R | *Salix* L. |
|  | *Andrena* (*Micrandrena*) *nigrae* Robertson, 1905 | CT-ME | Spring | U | *Salix* L. |
|  | *Andrena* (*Cnemiandrena*) *nubecula* Smith, 1853 | CT-MA-ME-NH-RI-VT | Fall | C | *Solidago* L.*, Symphyotrichum* Nees |
|  | *Andrena* (*Gonandrena*) *persimulata* Viereck, 1917 | CT-MA-ME-NH | Summer | U | *Cornus* (*Swida*) L. |
|  | *Andrena* (*Callandrena* s. l.) *placata* Mitchell, 1960 | CT-MA-ME-NH-RI-VT | Fall | C | *Solidago* L.*, Symphyotrichum* Nees |
|  | *Andrena* (*Gonandrena*) *platyparia* Robertson, 1895 | CT-MA-NH | Summer | U | *Cornus* (*Swida*) L. |
|  | *Andrena* (*Micrandrena*) *salictaria* Robertson, 1905 | CT-MA-ME-NH-RI-VT | Spring | C | *Salix* L. |
|  | *Andrena* (*Trachandrena*) *sigmundi* Cockerell, 1902 | CT-MA-ME-NH-RI-VT | Spring | C | *Salix* L. |
|  | *Andrena* (*Callandrena* s. l.) *simplex* Smith, 1853 | CT-MA-NH-RI | Fall | C | *Solidago* L.*, Symphyotrichum* Nees |
|  | *Andrena* (*Deranadrena*) *uvulariae* Mitchell, 1960\* | MA-NH | Spring | R | *Uvularia* L. |
|  | *Andrena* (*Iomelissa*) *violae* Robertson, 1891 | CT-MA-NH | Spring | U | *Viola* L. |
|  | *Andrena* (*Parandrena*) *wellesleyana* Robertson, 1897 | CT-MA-RI | Spring | U | *Salix* L. |
|  | *Andrena* (*Micrandrena*) *ziziae* Robertson, 1891 | CT-MA-NH-VT | Spring | C | *Zizia* W.D.J. Koch |
|  | *Andrena* (*Derandrena*) *ziziaeformis* Cockerell, 1908 | CT | Spring | R | *Potentilla* L. |
| Andrenidae | *Calliopsis* (*Verbenapis*) *nebraskensis* Crawford, 1902\*\* | CT | Summer | R | *Verbena* L. |
| Andrenidae | *Panurginus potentillae* (Crawford, 1916) | CT-MA | Spring | R | *Potentilla* L. |
| Andrenidae | *Perdita* (*Perdita*) *halictoides* Smith, 1853 | MA-NH-VT | Summer | U | *Physalis* L. |
|  | *Perdita* (*Alloperdita*) *novaeangliae* Viereck, 1907 | CT-MA-RI | Summer | U | Ericaceae, esp. *Lyonia* Nutt. |
|  | *Perdita* (*Perdita*) *octomaculata* (Say, 1824) | CT-MA-ME-NH-RI-VT | Fall | C | *Solidago* L. |
| Andrenidae | *Pseudopanurgus aestivalis* (Provancher, 1882) | CT-MA-ME-NH-VT | Fall | R | *Solidago* L.*, Symphyotrichum* Nees |
|  | *Pseudopanurgus andrenoides* (Smith, 1853) | CT-MA-ME-NH | Fall | U | Asteraceae e.g. *Eurybia* (Cass.) S.F.Gray, |
|  | *Pseudopanurgus compositarum* (Robertson, 1893) | CT | Fall | R | Asteraceae e.g. *Symphyotrichum* Nees. |
|  | *Pseudopanurgus labrosus* Robertson, 1895 | CT | Summer | R | Asteraceae e.g. *Helianthus* L. |
|  | *Pseudopanurgus pauper* (Cresson, 1878) | CT-MA-RI | Summer | R | *Ceanothus* L. |
| Apidae | *Habropoda laboriosa* (Fabricius, 1804) | CT-MA-ME-NH | Spring | U | *Vaccinium* L. |
| Apidae | *Melissodes* (*Eumelissodes*) *agilis* Cresson, 1878 | CT-MA-NH-RI-VT | Summer | U | Asteraceae e.g. *Helianthus* L. |
|  | *Melissodes* (*Apomelissodes*) *apicatus* Lovell and Cockerell, 1906 | CT-MA-ME-NH | Summer | U | *Pontederia* L. |
|  | *Melissodes* (*Eumelissodes*) *denticulatus* Smith, 1854 | CT-MA-VT | Fall | U | Asteraceae e.g. *Vernonia* Schreb. |
|  | *Melissodes* (*Eumelissodes*) *dentiventris* Smith, 1854 | CT-MA | Fall | U | Asteraceae |
|  | *Melissodes* (*Heliomelissodes*) *desponsus* Smith, 1854 | CT-MA-ME-NH-RI-VT | Fall | C | Asteraceae e.g. *Cirsium* Mill |
|  | *Melissodes* (*Eumelissodes*) *druriellus* (Kirby, 1802) | CT-MA-ME-NH-RI-VT | Fall | U | Asteraceae |
|  | *Melissodes* (*Eumelissodes*) *illatus* Lovell and Cockerell, 1906 | ME | Fall | R | Asteraceae |
|  | *Melissodes* (*Eumelissodes*) *subillatus* LaBerge, 1961 | CT-MA-ME | Summer | U | Asteraceae |
|  | *Melissodes* (*Eumelissodes*) *trinodis* Robertson, 1901 | CT-MA-ME-RI-VT | Summer | U | Asteraceae e.g. *Helianthus* L. |
|  | *Ptilothrix bombiformis* (Cresson, 1878) | CT | Summer | R | *Hibiscus* L. |
| Colletidae | *Colletes aestivalis* Patton, 1879 | MA | Summer | R | *Heuchera* L. |
|  | *Colletes banksi* Swenk, 1908 | CT | Summer | R | *Ilex* L. |
|  | *Colletes compactus* Cresson, 1868 | CT-MA-ME-NH-RI-VT | Fall | C | Asteraceae |
|  | *Colletes latitarsis* Robertson, 1891 | CT-MA-ME | Summer | U | *Physalis* L. |
|  | *Colletes productus* Robertson, 1891 | CT-MA-NH | Spring | U | *Lyonia* Nutt. |
|  | *Colletes simulans* *armatus* Patton, 1879 | CT-MA-ME-NH-RI-VT | Fall | C | *Euthamia* Nutt. ex Cass.*, Solidago* L.*, Symphyotrichum* L. |
|  | *Colletes solidaginis* Swenk, 1906 | CT-MA-NH-VT | Fall | U | *Solidago* L. |
|  | *Colletes speculiferus* Cockerell, 1927 | CT-MA-RI | Fall | R | Asteraceae |
|  | *Colletes validus* Cresson, 1868 | CT-MA-ME-NH-RI | Spring | U | Ericaceae |
| Halictidae | *Dufourea monardae* (Viereck, 1924) | CT-MA | Summer | R | *Monarda* L. |
|  | *Dufourea novaeangliae* (Robertson, 1897) | CT-MA-ME-NH-RI-VT | Summer | C | *Pontederia* L. |
| Halictidae | *Lasioglossum* (*Sphecodogastra*) *oenotherae* (Stevens, 1920) | CT-MA-NH | Summer | U | *Oenothera* L. |
|  | *Lasioglossum* (*Hemihalictus*) *pectinatum* (Robertson, 1890) | CT-MA | Summer | R | *Physalis* L. |
| Megachilidae | *Megachile* (*Sayapis*) *inimica* Cresson,  | CT-MA | Summer | U | Asteraceae |
|  | *Megachile* (*Sayapis*) *pugnata* Say, 1837 | CT-MA-NH | Summer | U | Asteraceae, e.g. *Helianthus* L. |
| Megachilidae | *Osmia* (*Melanosmia*) *distincta* Cresson, 1864 | CT-MA-ME-NH-RI | Spring | U | *Penstemon* Schmidel |
|  | *Osmia* (*Melanosmia*) *virga* Sandhouse, 1939 | CT-MA-ME-NH-RI | Spring | U | *Vaccinium* L. |
| Melittidae | *Macropis* (*Macropis*) *ciliata* Patton, 1880 | CT-MA-ME-NH-RI | Summer | U | *Lysimachia* L. |
|  | *Macropis* (*Macropis*) *nuda* (Provancher, 1882) | CT-MA-ME-NH-RI-VT | Summer | U | *Lysimachia* L. |
|  | *Macropis* (*Macropis*) *patellata* Patton, 1880 | CT-MA-RI-VT | Summer | R | *Lysimachia* L. |
| Melittidae | *Melitta* (*Cilissa*) *americana* (Smith, 1853) | CT-MA | Summer | U | *Vaccinium* L. |
|  | *Melitta* (*Cilissa*) *melittoides* (Viereck, 1909) | CT-MA-NH | Spring | R | *Lyonia* Nutt. |

\* Subgeneric placement and state records based in part on unpublished work by M. Arduser, J. S. Ascher, P. Bernhardt, S. Droege, R. Meier, and S.-X. Ren.

\*\* The first record for New England is from collections made by D. Wagner et al. and identified by J. S. Ascher.

Supplementary Table 2. Northeastern native specialist bee host plant families (n = 22), genera (n = 37, and possible species (n = 220) with taxonomic authorities, common names, plant groups (D = Herbaceous, flowering dicot, S = Broad-leaved woody shrub, M = Herbaceous, flowering monocot, ST = Broad-leaved, woody shrub-tree, and T = Broad-leaved woody tree), habitats (T = Terrestrial, TW = Terrestrial-wetlands, W = Wetlands, A = Aquatic, and AW = Aquatic-wetlands), and native or introduced ranges according to the six New England states (CT, MA, ME, NH, RI, and VT). Plant families and member genera and species are presented in ascending alphabetical order. All information was compiled from Go Botany (New England Wildflower Society 2015). Table 2 is presented as a baseline for future research, but should be considered incomplete due to the generally adventitious nature of collections and observations of bees foraging plants.

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| --- | --- | --- | --- | --- | --- | --- |
| **Family** | **Scientific name** | **Common name** | **Plant group** | **Habitat** | **Native** | **Introduced** |
| Apiaceae | *Zizia aptera* (Gray) Fern. | Heart-leaved golden Alexanders | D | T | CT-RI | . |
|  | *Zizia aurea* (L.) W.D.J. Koch | Common golden Alexanders | D | TW | CT-MA-ME-NH-RI-VT | . |
| Aquifoliaceae | *Ilex glabra* (L.) Gray | Inkberry | S | TW | CT-MA-ME-RI | . |
|  | *Ilex laevigata* (Pursh) Gray | Smooth winterberry | S | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Ilex montana* Torr. & Gray ex Gray | Big-leaved holly | ST | T | CT-MA | . |
|  | *Ilex mucronata* (L.) Pow., Sav., & And. | Mountain holly | S | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Ilex opaca* Ait. | American holly | ST | TW | MA-RI | CT |
|  | *Ilex verticillata* (L.) Gray | Common winterberry | S | TW | CT-MA-ME-NH-RI-VT | . |
| Asteraceae | *Cirsium discolor* (Muhl. ex Willd.) Spreng. | Field thistle | D | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Cirsium flodmanii* (Rydb.) Arthur | Flodman’s thistle | D | T | VT | . |
|  | *Cirsium horridulum* Michx. | Yellow thistle | D | T | CT-MA-ME-NH-RI | . |
|  | *Cirsium muticum* Michx. | Swamp thistle | D | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Cirsium pumilum* (Nutt.) Spreng. | Pasture thistle | D | T | CT-MA-ME-NH-RI-VT | . |
| Asteraceae | *Eurybia divaricata* (L. Nesom | White wood-aster | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Eurybia macrophylla* (L.) Cass. | Large-leaved wood-aster | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Eurybia radula* (Ait.) Nesom | Rough wood-aster | D | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Eurybia schreberi* (Nees) Nees | Schreber’s wood-aster | D | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Eurybia spectabilis* (Ait.) Nesom | Purple wood-aster | D | T | CT-MA-RI | . |
| Asteraceae | *Euthamia caroliniana* (L.) Greene ex Porter & Britt. | Coastal plain grass-leaved-goldenrod | D | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Euthamia graminifolia* (L.) Nutt. | Common grass-leaved-goldenrod | D | TW | CT-MA-ME-NH-RI-VT | . |
| Asteraceae | *Helianthus decapetalus* L. | Thin-leaved sunflower | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Helianthus divaricatus* L. | Woodland sunflower | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Helianthus strumosus* L. | Pale-leaved sunflower | D | TW | CT-MA-ME-NH-RI-VT | . |
| Asteraceae | *Krigia biflora* Walt. | Two-flowered dwarf-dandelion | D | T | CT-MA | ME |
|  | *Krigia virginica* (L.) Willd. | Virginia dwarf-dandelion | D | T | CT-MA-ME-NH-RI-VT | . |
| Asteraceae | *Solidago altissima* L. | Tall goldenrod | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Solidago arguta* Ait. | Forest goldenrod | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Solidago bicolor* L. | White goldenrod | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Solidago caesia* L. | Blue-stem goldenrod | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Solidago canadensis* L. | Canada goldenrod | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Solidago erecta* Pursh | Slender goldenrod | D | T | CT-MA-RI | . |
|  | *Solidago flexicaulis* L. | Zig-zag goldenrod | D | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Solidago gigantea* Ait. | Smooth goldenrod | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Solidago hispida* Muhl. ex Willd. | Hairy goldenrod | D | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Solidago juncea* Ait. | Early goldenrod | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Solidago latissimifolia* P. Mill. | Elliott's goldenrod | D | TW | CT-MA-RI | . |
|  | *Solidago leiocarpa* DC. | Cutler's goldenrod | D | T | ME-NH-VT | . |
|  | *Solidago macrophylla* Pursh | Large-leaved goldenrod | D | T | MA-ME-NH-VT | . |
|  | *Solidago nemoralis* Ait. | Gray goldenrod | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Solidago odora* Ait. | Licorice goldenrod | D | T | CT-MA-NH-RI-VT | . |
|  | *Solidago patula* Muhl. ex Willd. | Rough-leaved goldenrod | D | W | CT-MA-NH-VT | . |
|  | *Solidago puberula* Nutt. | Downy goldenrod | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Solidago rugosa* P. Mill. | Common wrinkle-leaved goldenrod | D | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Solidago sempervirens* L. | Seaside goldenrod | D | W | CT-MA-ME-NH-RI | . |
|  | *Solidago simplex* Kunth. | Rand's goldenrod | D | T | MA-ME-NH-VT | . |
|  | *Solidago speciosa* Nutt. | Showy goldenrod | D | T | CT-MA-ME-RI-VT | . |
|  | *Solidago squarrosa* Muhl. | Squarrose goldenrod | D | T | CT-MA-ME-NH-VT | . |
|  | *Solidago uliginosa* Nutt. | Bog goldenrod | D | W | CT-MA-ME-NH-RI-VT | . |
|  | *Solidago ulmifolia* Muhl. ex Willd. | Elm-leaved goldenrod | D | T | CT-MA-ME-NH-RI-VT | . |
| Asteraceae | *Symphyotrichum anticostense* (Fern.) Nesom | Anticosti American-aster | D | T | ME | . |
|  | *Symphyotrichum boreale* (Torr. & Gray) Nesom | Rush American-aster | D | W | ME-NH-VT | . |
|  | *Symphyotrichum ciliolatum* (Lindl.) A, & D. Löve | Lindley's American-aster | D | T | MA-ME-NH-VT | . |
|  | *Symphyotrichum concolor* (L.) Nesom | Eastern silver American-aster | D | T | MA-RI | . |
|  | *Symphyotrichum cordifolium* (L.) Nesom | Heart-leaved American-aster | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Symphyotrichum dumosum* (L.) Nesom | Bushy American-aster | D | T | CT-MA-ME-NH-RI | . |
|  | *Symphyotrichum ericoides* (L.) Nesom | Heath American-aster | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Symphyotrichum laeve* (L.) A & D. Löve | Smooth American-aster | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Symphyotrichum lanceolatum* (Willd.) Nesom | Lance-leaved American-aster | D | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Symphyotrichum lateriflorum* (L.) A & D. Löve | Calico American-aster | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Symphyotrichum novae-angliae* (L.) Nesom | New England American-aster | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Symphyotrichum novi-belgii* (L.) Nesom | New York American-aster | D | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Symphyotrichum ontarionis* (Weig.) Nesom | Ontario American-aster | D | TW | VT | . |
|  | *Symphyotrichum patens* (Ait.) Nesom | Late purple American-aster | D | T | CT-MA-ME-NH-RI | . |
|  | *Symphyotrichum pilosum* (Willd.) Nesom | Awl American-aster | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Symphyotrichum praealtum* (Poir.) Nesom | Willow-leaved American aster | D | TW | CT-MA | . |
|  | *Symphyotrichum prenanthoides* (Muhl. ex Willd.) Nesom | Crooked-stemmed American-aster | D | TW | CT-MA | . |
|  | *Symphyotrichum puniceum* (L.) A & D. Löve | Purple-stemmed American-aster | D | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Symphyotrichum racemosum* (Ell.) Nesom | Small white American-aster | D | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Symphyotrichum subulatum* (Michx.) Nesom | Annual saltmarsh American-aster | D | W | CT-MA-ME-NH-RI | . |
|  | *Symphyotrichum tenuifolium* (L.) Nesom | Perennial saltmarsh American-aster | D | W | CT-MA-NH-RI | . |
|  | *Symphyotrichum tradescantii* (L.) Nesom | Tradescant's American-aster | D | TW | MA-ME-NH-VT | . |
|  | *Symphyotrichum undulatum* (L.) Nesom | Wavy-leaved American-aster | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Symphyotrichum urophyllum* (Lindl.) Nesom | Arrow-leaved American-aster | D | T | VT | . |
| Asteraceae | *Vernonia noveboracensis* (L.) Michx. | New York ironweed | D | TW | CT-MA-NH-RI | . |
| Boraginaceae | *Hydrophyllum canadense* L. | Blunt-leaved waterleaf | D | TW | MA-VT | . |
|  | *Hydrophyllum virginianum* L. | Eastern waterleaf | D | T | CT-MA-NH-VT | . |
| Brassicaceae | *Arabis pycnocarpa* M. Hopkins | Hairy eared-rockcress | D | T | CT-MA-ME-NH-VT | . |
| Brassicaceae | *Cardamine bellidifolia* L. | Alpine bitter-cress | D | TW | ME-NH | . |
|  | *Cardamine bulbosa* (Schreb. ex Muhl.) B.S.P. | Bulbous bitter-cress | D | TW | CT-MA-NH-VT | . |
|  | *Cardamine concatenata* (Michx.) Sw. | Cut-leaved toothwort | D | T | CT-MA-ME-NH-VT | . |
|  | *Cardamine dentata* Schult. | White cuckoo bitter-cress | D | W | CT-MA-VT | . |
|  | *Cardamine diphylla* (Michx.) Wood | Two-leaved toothwort | D | TW | CT-MA-ME-NH-VT | . |
|  | *Cardamine douglassii* Britt. | Pink bitter-cress | D | TW | CT-MA | . |
|  | *Cardamine maxima* (Nutt.) Wood | Large toothwort | D | T | CT-MA-ME-NH-VT | . |
|  | *Cardamine parviflora* L. | Small-flowered bitter-cress | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Cardamine pensylvanica* Muhl. ex Willd. | Pennsylvania bitter-cress | D | AW | CT-MA-ME-NH-RI-VT | . |
| Colchicaceae | *Uvularia grandiflora* J.E. Sm. | Large-flowered bellwort | M | T | CT-MA-NH-VT | . |
|  | *Uvularia perfoliata* L. | Perfoliate bellwort | M | T | CT-MA-NH-RI-VT | . |
|  | *Uvularia sessilifolia* L. | Sessile-leaved bellwort | M | T | CT-MA-ME-NH-RI-VT | . |
| Cornaceae | *Cornus* (*Swida*) *alternifolia* (L. f.) Small | Alternate-leaved dogwood | S | T | CT-MA-ME-NH-RI-VT | . |
|  | *Cornus* (*Swida*) *amomum* (P. Mill.) Small | Silky dogwood | S | TW | CT-MA-ME-NH-VT | . |
|  | *Cornus* (*Swida*) *racemosa* (Lam.) Moldenke | Gray dogwood | S | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Cornus* (*Swida*) *rugosa* (Lam.) Rydb. | Round-leaved dogwood | S | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Cornus* (*Swida*) *sericea* (L.) Holub | Red-osier dogwood | S | TW | CT-MA-ME-NH-RI-VT | . |
| Ericaceae | *Gaylussacia baccata* (Wagenh.) K. Koch | Black huckleberry | S | T | CT-MA-ME-NH-RI-VT | . |
|  | *Gaylussacia bigeloviana* (Fern.) Sorrie & Weakley | Dwarf huckleberry | S | TW | CT-MA-ME-NH-RI | . |
|  | *Gaylussacia frondosa* (L.) Torr. & Gray ex. Torr | Blue huckleberry | S | TW | CT-MA-NH-RI | . |
| Ericaceae | *Kalmia angustifolia* L. | Sheep American-laurel | S | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Kalmia latifolia* L. | Mountain American-laurel | S | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Kalmia polifolia* Wangenh. | Bog American-laurel | S | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Kalmia procumbens* (L.) Gift, Kron, & Stevens | Alpine-azalea | S | T | ME-NH | . |
| Ericaceae | *Lyonia ligustrina* (L.) DC. | Maleberry | S | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Lyonia mariana* (L.) D. Don | Piedmont staggerbush | S | T | CT-RI | . |
| Ericaceae | *Rhododendron canadense* (L.) Torr | Canada rosebay | S | W | CT-MA-ME-NH-RI-VT | . |
|  | *Rhododendron groenlandicum* (Oeder) Kron & Judd | Labrador-tea | S | TW | CT-MA-ME-NH-VT | . |
|  | *Rhododendron lapponicum* (L.) Wahlenb. | Lapland rosebay | S | T | ME-NH | . |
|  | *Rhododendron maximum* L. | Great rosebay | S | W | CT-MA-ME-NH-RI-VT | . |
|  | *Rhododendron periclymenoides* (Michx.) Shinners | Pink azalea | S | TW | CT-MA-NH-RI-VT | . |
|  | *Rhododendron prinophyllum* (Small) Millais | Early azalea | S | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Rhododendron viscosum* (L.) Torr. | Clammy azalea | S | TW | CT-MA-ME-NH-RI-VT | . |
| Ericaceae | *Vaccinium angustifolium* Ait. | Common lowbush blueberry | S | T | CT-MA-ME-NH-RI-VT | . |
|  | *Vaccinium boreale* Hall & Anders | Northern blueberry | S | T | ME-NH-VT | . |
|  | *Vaccinium caesariense* Mackenzie | New Jersey highbush blueberry  | S | W | MA-ME-NH-RI | . |
|  | *Vaccinium corymbosum* L. | Highbush blueberry | S | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Vaccinium fuscatum* Ait. | Black highbush blueberry  | S | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Vaccinium macrocarpon* Ait. | Large cranberry | S | W | CT-MA-ME-NH-RI-VT | . |
|  | *Vaccinium myrtilloides* Michx. | Velvet-leaved blueberry | S | TW | CT-MA-ME-NH-VT | . |
|  | *Vaccinium oxycoccos* L. | Small cranberry | S | W | CT-MA-ME-NH-RI-VT | . |
|  | *Vaccinium pallidum* Ait. | Hillside blueberry | S | T | CT-MA-ME-NH-RI-VT | . |
|  | *Vaccinium stamineum* L. | Deerberry | S | T | CT-MA-RI-VT | . |
|  | *Vaccinium uliginosum* L. | Alpine blueberry | S | T | ME-NH-VT | . |
|  | *Vaccinium vitis-idaea* L. | Lingonberry | S | TW | CT-MA-ME-NH-VT | . |
| Geraniaceae | *Geranium bicknellii* Britt. | Northern crane’s bill | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Geranium carolinianum* L. | Carolina crane’s bill | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Geranium maculatum* L. | Spotted crane's-bill | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Geranium robertianum* L. | Mountain crane’s-bill | D | T | CT-MA-ME-NH-RI-VT | . |
| Lamiaceae | *Monarda fistulosa* L. | Wild bee-balm | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Monarda punctata* L. | Spotted bee-balm | D | T | CT-MA-VT | . |
| Lilicaeae | *Erythronium albidum* Nutt. | White trout-lily | M | T | CT | . |
|  | *Erythronium americanum* Ker-Gawl. | American trout-lily | M | T | CT-MA-ME-NH-RI-VT | . |
| Malvaceae | *Hibiscus moscheutos* L. | Swamp rose-mallow | D | W | CT-MA-NH-RI | . |
| Myrsinaceae | *Lysimachia borealis* (Raf.) U. Manns & A. Anderb. | Starflower | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Lysimachia ciliata* L. | Fringed yellow-loosestrife | D | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Lysimachia hybrida* Michx. | Lowland yellow-loosestrife | D | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Lysimachia maritima* (L.) Galasso, Banfi, & Soldano | Sea-milkwort | D | TW | MA-ME-NH-RI | . |
|  | *Lysimachia quadriflora* Sims | Four-flowered yellow-loosestrife | D | TW | CT-MA | . |
|  | *Lysimachia quadrifolia* L. | Whorled yellow-loosestrife | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Lysimachia terrestris* (L.) B.S.P. | Swamp yellow-loosestrife | D | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Lysimachia thyrsiflora* L. | Tufted yellow-loosestrife | D | TW | CT-MA-ME-NH-RI-VT | . |
| Onagraceae | *Oenothera biennis* L. | Common evening-primrose | D | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Oenothera fruticosa* L. | Narrow-leaved evening-primrose | D | TW | CT-MA-ME-NH-RI | . |
|  | *Oenothera nutans* Atkinson & Bartlett | Nodding evening-primrose | D | TW | MA-ME-NH-VT | . |
|  | *Oenothera oakesiana* (Gray) Robb. ex Watt. & Coul. | Oakes’ evening-primrose | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Oenothera parviflora* L. | Small-flowered evening-primrose | D | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Oenothera perennis* L. | Little evening-primrose | D | T | CT-MA-ME-NH-RI-VT | . |
| Plantaginaceae | *Penstemon barbatus* (Cav.) Roth | Beard-lip beardtongue | D | T | . | MA |
|  | *Penstemon calycosus* Small | Long-sepaled beardtongue | D | T | . | CT-MA-ME-NH-RI-VT |
|  | *Penstemon digitalis* Nutt. ex Sims | Foxglove beardtongue | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Penstemon grandiflorus* Nutt. | Large beardtongue | D | T | . | CT-MA |
|  | *Penstemon hirsutus* (L.) Willd. | Northeastern beardtongue | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Penstemon laevigatus* Ait. | Eastern smooth beardtongue | D | T | . | CT |
|  | *Penstemon pallidus* Small | Eastern white beardtongue | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Penstemon tubiflorus* Nutt. | Tube beardtongue | D | T | . | CT-MA-ME-NH |
| Pontederiaceae | *Pontederia cordata* L. | Pickerelweed | M | A | CT-MA-ME-NH-RI-VT | . |
| Portulacaceae | *Claytonia virginica* L. | Virginia spring-beauty | D | T | CT-MA-NH-RI-VT | . |
|  | *Claytonia caroliniana* Michx. | Carolina spring-beauty | D | T | CT-MA-ME-NH-VT | . |
| Rhamnaceae | *Ceanothus americanus* L. | New Jersey tea | S | T | CT-MA-ME-NH-RI-VT | . |
|  | *Ceanothus herbaceus* L. | Prairie redroot | S | T | VT | MA |
| Rosaceae | *Fragaria vesca* L. | Woodland strawberry | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Fragaria virginiana* Duchesne | Common strawberry | D | T | CT-MA-ME-NH-RI-VT | . |
| Rosaceae | *Potentilla canadensis* L. | Dwarf cinquefoil | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Potentilla gracilis* Doug. ex Hook | Graceful cinquefoil | D | T | NH | . |
|  | *Potentilla norvegica* L. | Norwegian cinquefoil | D | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Potentilla robbinsiana* Oakes ex Rydb. | Robbins’ cinquefoil | D | T | NH | . |
|  | *Potentilla simplex* Michx. | Common cinquefoil | D | T | CT-MA-ME-NH-RI-VT | . |
| Salicaceae | *Salix amygdaloides* Anderss. | Peach-leaved willow | T | TW | VT | . |
|  | *Salix arctophila* Cockerell ex Heller | Northern willow | S | T | ME | . |
|  | *Salix argyrocarpa* Andress. | Labrador willow | S | T | ME-NH | . |
|  | *Salix bebbiana* Sarg. | Long-beaked willow | S | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Salix candida* Fluegge ex Willd. | Sage willow | S | W | CT-MA-ME-VT | . |
|  | *Salix discolor* Muhl. | Pussy willow | S | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Salix eriocephala* Michx. | Heart-leaved willow | S | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Salix exigua* Nutt. | Sandbar willow | S | TW | CT-MA-ME-NH-VT | . |
|  | *Salix herbacea* L. | Snow-bed willow | S | T | ME-VT | . |
|  | *Salix humilis* Marsh. | Prairie willow | S | T | CT-MA-ME-NH-RI-VT | . |
|  | *Salix lucida* Muhl. | Shining willow | S | W | CT-MA-ME-NH-RI-VT | . |
|  | *Salix myricoides* Muhl. | Bayberry willow | S | T | ME | . |
|  | *Salix nigra* Marsh. | Black willow | T | W | CT-MA-ME-NH-RI-VT | . |
|  | *Salix occidentalis* Walt. | Dwarf prairie willow | S | T | CT-MA-ME-NH-RI | . |
|  | *Salix pedicellaris* Pursh | Bog willow | ST | W | CT-MA-ME-NH-RI-VT | . |
|  | *Salix pellita* (Anderss.) Anderss. ex Schneid. | Satiny willow | S | W | ME-NH-VT | . |
|  | *Salix petiolaris* Sm. | Meadow willow | S | W | CT-MA-ME-NH-RI-VT | . |
|  | *Salix planifolia* Pursh | Tea-leaved willow | S | W | ME-NH-VT | . |
|  | *Salix pyrifolia* Anderss. | Balsam willow | S | W | MA-ME-NH-VT | . |
|  | *Salix sericea* Marsh. | Silky willow | S | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Salix serissima* (Bailey) Fern. | Autumn willow | S | W | CT-MA-VT | . |
|  | *Salix uva-ursi* Pursh | Bearberry willow | S | T | ME-NH-VT | . |
| Saxifragaceae | *Heuchera americana* L. | Common alum-root | D | T | CT | . |
| Solanaceae | *Physalis grisea* (Waterfall) M. Martinez | Downy ground-cherry | D | T | CT-MA-ME-RI-VT | . |
|  | *Physalis heterophylla* Nees | Clammy ground-cherry | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Physalis longifolia* Nutt. | Long-leaved ground-cherry | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Physalis pubescens* L. | Hairy ground-cherry | D | T | CT-MA-RI-VT | . |
|  | *Physalis virginiana* P. Mill. | Virginia ground-cherry | D | T | CT | MA-ME-NH |
| Verbenaceae | *Verbena hastata* L. | Blue vervain | D | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Verbena simplex* Leym. | Narrow-leaved vervain | D | T | CT-MA-VT | . |
|  | *Verbena urticifolia* L. | White vervain | D | TW | CT-MA-ME-NH-RI-VT | . |
| Violaceae | *Viola adunca* Sm. | Hook-spurred violet | D | T | MA-ME-NH-VT | . |
|  | *Viola affinis* Le Conte | Le Conte's violet | D | W | CT-MA-NH-VT | . |
|  | *Viola blanda* Willd. | Sweet white violet | D | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Viola brittoniana* Pollard | Coast violet | D | T | MA | . |
|  | *Viola canadensis* L. | Canada white violet | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Viola cucullata* Ait. | Blue marsh violet | D | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Viola hirsutula* Brainerd | Southern woodland violet | D | T | CT | . |
|  | *Viola labradorica* Schrank | American dog violet | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Viola lanceolata* L. | Lance-leaved violet | D | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Viola nephrophylla* Greene | Northern bog violet | D | W | CT-MA-ME-NH-VT | . |
|  | *Viola novae-angliae* House | New England violet | D | W | ME | . |
|  | *Viola pallens* (Banks ex DC.) Brainerd | Smooth white violet | D | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Viola palmata* L. | Wood violet | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Viola palustris* L. | Northern pale marsh violet | D | TW | ME-NH | . |
|  | *Viola pectinata* Bickn. | Pectinate-leaved violet | D | TW | CT-MA | . |
|  | *Viola pedata* L. | Bird-foot violet | D | T | CT-MA-NH-RI | . |
|  | *Viola pubescens* Ait. | Yellow forest violet | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Viola renifolia* Gray | Kidney-leaved violet | D | TW | CT-MA-ME-NH-VT | . |
|  | *Viola rostrata* Pursh | Long-spurred violet | D | T | CT-MA-NH-VT | . |
|  | *Viola rotundifolia* Michx. | Round-leaved violet | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Viola sagittata* Ait. | Arrowhead violet | D | TW | CT-MA-ME-NH-RI-VT | . |
|  | *Viola selkirkii* Pursh ex Goldie | Great-spurred violet | D | T | CT-MA-ME-NH-VT | . |
|  | *Viola sororia* Willd. | Woolly blue violet | D | T | CT-MA-ME-NH-RI-VT | . |
|  | *Viola subsinuata* Greene | Early blue violet | D | T | CT-MA-RI-VT | . |