**Research-based native plants to support MA bumblebee species at risk. Plants supporting butterfly and other bee species at risk are also indicated. List created by Dr. Robert J Gegear, UMASS Dartmouth (rgegear@umassd.edu).**

## Pollen Sources

'At risk' species

| | | | | | BLOOM TIME | | | | | | | | BUMBLEBEES | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LATIN NAME | COMMON NAME | PLANT TYPE | SUN | SOIL | Early | | | Mid | | Late | | | B. terricola | B. fervidus | B. vagans | BUTTER FLIES | OTHER BEES |
| | | | | | M | A | M | J | J | A | S | O | | | | | |
| *Hypericum ascyron* | Great St. John's-wort | Herb. perenn. | Full-Part | Med | | | | | | | | | | | | NA | |
| *Hypericum majus* | Greater St. John's-wort | Herb. perenn. | Full-Part | Med, Wet | | | | | | | | | | | | NA | |
| *Hypericum punctatum* | Spotted St. John's-wort | Herb. perenn. | Full-Part | Med, Dry | | | | | | | | | | | | NA | |
| *Hypericum prolificum* | Shrubby St. John's-wort | Shrub | Full-Part | Med, Dry | | | | | | | | | | | | NA | |
| *Rosa acicularis* | Bristly rose | Shrub | Full-Shade | Med, Dry | | | | | | | | | | | | NA | |
| *Rosa blanda* | Smooth rose | Shrub | Full-Part | Med, Dry | | | | | | | | | | | | NA | |
| *Rosa carolina* | Carolina rose | Shrub | Full-Part | Wet, Med, Dry | | | | | | | | | | | | NA | |
| *Rosa nitida* | Shining rose | Shrub | Full-Part | Wet, Med | | | | | | | | | | | | NA | |
| *Rosa palustris* | Swamp rose | Shrub | Full-Part | Med | | | | | | | | | | | | NA | |
| *Rosa virginiana* | Virginia rose | Shrub | Full-Part | Med | | | | | | | | | | | | NA | |
| *Rubus odoratus* | Flowering raspberry | Shrub | Full-Part | Med | | | | | | | | | | | | NA | |
| *Salix discolor* | Pussy willow (male) | Shrub | Full | Med | | | | | | | | | | | | NA | |
| *Salix humilis* | Prairie willow (male) | Shrub | Full-Part | Med, Dry | | | | | | | | | | | | NA | |
| *Salix lucida* | Shining willow (male) | Shrub | Full-Part | Med, wet | | | | | | | | | | | | NA | |
| *Salix occidentalis* | Dwarf prairie willow (male) | Shrub | Full-Part | Med, Dry | | | | | | | | | | | | NA | |
| *Salix petiolaris* | Meadow willow (male) | Shrub/sm tree | Full-Part | Med | | | | | | | | | | | | NA | |
| *Salix bebbiana* | Bebb willow (male) | Shrub | Full-Part | Dry, Med, Wet | | | | | | | | | | | | NA | |
| *Spiraea alba* | White meadowsweet | Shrub | Full-Part | Wet, Med | | | | | | | | | | | | NA | |
| *Spiraea tomentosa* | Steeplebush | Shrub | Full-Part | Wet | | | | | | | | | | | | NA | |

## Nectar sources

| | | | | | BLOOM TIME | | | | | | | | BUMBLEBEES | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LATIN NAME | COMMON NAME | PLANT TYPE | SUN | SOIL | Early | | | Mid | | Late | | | B. terricola | B. fervidus | B. vagans | BUTTER FLIES | OTHER BEES |
| | | | | | M | A | M | J | J | A | S | O | | | | | |
| *Eupatorium perfoliatum* | Boneset Thoroughwort | Herb. perenn. | Full, part | Wet, Med | | | | | | | | | | | | | |
| *Asclepias amplexicaulis* | Clasping milkweed | Herb. perenn. | Full-Part | Dry | | | | | | | | | | | | | |
| *Asclepias exaltata* | Poke milkweed | Herb. perenn. | Part, Shade | Med, Dry | | | | | | | | | | | | | |
| *Asclepias incarnata* | Swamp milkweed | Herb. perenn. | Full-Part | Med, Dry | | | | | | | | | | | | | |
| *Asclepias purpurascens* | Purple milkweed | Herb. perenn. | Full-Part | Wet, Med,Dry | | | | | | | | | | | | | |
| *Asclepias quadrifolia* | Four-leaved milkweed | Herb. perenn. | Full-Part | Med, Dry | | | | | | | | | | | | | |
| *Asclepias syriaca* | Common milkweed | Herb. perenn. | Full | Wet, Med, Dry | | | | | | | | | | | | | |
| *Asclepias tuberosa* | Butterfly milkweed | Herb. perenn. | Full-Part | Dry | | | | | | | | | | | | | |
| *Asclepias verticillata* | Whorled milkweed | Herb. perenn. | Full-Part | Med, Dry | | | | | | | | | | | | | |
| *Cercis canadensis* | Eastern Redbud | Tree | Part | Med, Dry | | | | | | | | | | | | | |
| *Eutrochium dubium* | Coastal Plain Joe-Pye weed | Herb. perenn. | Full-Part | Wet, Med | | | | | | | | | | | | | |
| *Eutrochium fistulosum* | Hollow Joe-Pye weed | Herb. perenn. | Full-Part | Wet, Med | | | | | | | | | | | | | |
| *Eutrochium maculatum* | Spotted Joe-Pye weed | Herb. perenn. | Full-Part | Wet, Med | | | | | | | | | | | | | |
| *Eutrochium purpureum* | Purple Joe-Pye weed | Herb. perenn. | Part | Wet,Med, Dry | | | | | | | | | | | | | |
| *Ilex opaca* | American holly | Tree | Full-Shade | Med, Dry | | | | | | | | | | | | | |
| *Symphyotrichum lateriflorum* | Calico aster | Herb. perenn. | Full-Part | Med Wet, Med dry | | | | | | | | | | | | | |
| *Salix discolor* | Pussy willow (female) | Shrub | Full | Med | | | | | | | | | | | | | |
| *Salix humilis* | Prairie willow (female) | Shrub | Full-Part | Med, Dry | | | | | | | | | | | | | |
| *Salix lucida* | Shining willow (female) | Shrub | Full-Part | Med, wet | | | | | | | | | | | | | |
| *Salix occidentalis* | Dwarf prairie willow (female) | Shrub | Full-Part | Med, Dry | | | | | | | | | | | | | |
| *Salix petiolaris* | Meadow willow (female) | Shrub/sm tree | Full-Part | Med | | | | | | | | | | | | | |
| *Salix bebbiana* | Bebb willow (female) | Shrub | Full-Part | Wet, Med, Dry | | | | | | | | | | | | | |
| *Solidago speciosa* | Showy goldenrod | Herb. perenn. | Part | Med | | | | | | | | | | | | | |
| *Baptisia tinctoria* | Yellow wild indigo | Herb. perenn. | Full-Part | Wet, Med, Dry | | | | | | | | | | | | | |
| *Cephalanthus occidentalis* | Common buttonbush | Shrub | Full-Part | Wet, Med | | | | | | | | | | | | | |
| *Chamerion angustifolium* | Narrow-leaved fireweed | Herb. perenn. | Full | Med, Dry | | | | | | | | | | | | | |
| *Chelone glabra* | White turtlehead | Herb. perenn. | Full-Part | Wet, Med | | | | | | | | | | | | | |
| *Cirsium discolor* | Field thistle | Herb. perenn. | Full-Part | Med, Dry | | | | | | | | | | | | | |
| *Cirsium horridulum* | Yellow thistle | Herb. perenn. | Full | Med, Dry | | | | | | | | | | | | | |
| *Cirsium muticum* | Swamp thistle | Herb. perenn. | Full-Part | Wet, Med | | | | | | | | | | | | | |
| *Cirsium pumilum* | Pasture thistle | Herb. perenn. | Full | Med, Dry | | | | | | | | | | | | | |
| *Diervilla lonicera* | Northern bush honeysuckle | Shrub | Full-Shade | Dry, Med | | | | | | | | | | | | | |
| *Desmodium canadense* | Showy tick trefoil | Herb. perenn. | Full-Part | Med, Dry | | | | | | | | | | | | | |
| *Agastache scrophulariaefolia* | Purple giant hyssop | Herb. perenn. | Sun, Shade | Dry, Med, Wet | | | | | | | | | | | | | |
| *Gentiana clausa* | Closed gentian | Herb. perenn. | Full-Part | Med | | | | | | | | | | | | | |
| *Impatiens capensis* | Spotted touch me not | Annual | Full-Part | Wet, Med | | | | | | | | | | | | | |
| *Lobelia siphilitica* | Blue lobelia | Herb. perenn. | Full-Part | Wet, Med | | | | | | | | | | | | | |
| *Lupinus perennis* | Wild lupine | Herb. perenn. | Full-Part | Med, Dry | | | | | | | | | | | | | |
| *Mimulus alatus* | Winged monkey-flower | Herb. perenn. | Full-Part | Wet- Med | | | | | | | | | | | | | |
| *Mimulus ringens* | Allegheny monkey-flower | Herb. perenn. | Full-Part | Wet, Med wet | | | | | | | | | | | | | |
| *Monarda fistulosa* | Wild bergamot | Herb. perenn. | Full-Part | Wet, Med, Dry | | | | | | | | | | | | | |
| *Monarda didyma* | Scarlet bee balm | Herb. perenn. | Full-Part | Wet, Med | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Pedicularis canadensis* | Wood betony | Herb. perenn. | Full-Part | Wet, Med, Dry | | | | | | | | | | | | | |
| *Penstemon digitalis* | Foxglove beardtongue | Herb. perenn. | Full-Part | Wet, Med, Dry | | | | | | | | | | | | | |
| *Penstemon hirsutus* | Northeastern beardtongue | Herb. perenn. | Full-Shade | Wet, Med, Dry | | | | | | | | | | | | | |
| *Pontederia cordata* | Pickerelweed | Herb. perenn. | Full-Part | Aquatic | | | | | | | | | | | | | |
| *Physostegia virginiana* | Obedient plant | Herb. perenn. | Full-Part | Wet, Med | | | | | | | | | | | | | |
| *Prunella vulgaris* | Common selfheal | Herb. perenn. | Full-Part | Med | | | | | | | | | | | | | |
| *Scutellaria galericulata* | Hooded skullcap | Herb. perenn. | Full-Part | Wet, Med | | | | | | | | | | | | | |
| *Scutellaria lateriflora* | Mad dog skullcap | Herb. perenn. | Full-Part | Wet, Med | | | | | | | | | | | | | |
| *Stachys pilosa* | Hairy hedge-nettle | Herb. perenn. | Full-Part | Med | | | | | | | | | | | | | |
| *Vaccinium angustifolium* | Lowbush blueberry | Shrub | Full-Part | Med, Dry | | | | | | | | | | | | | |
| *Vaccinium corymbosum* | Highbush blueberry | Shrub | Full-Shade | Wet, Med, Dry | | | | | | | | | | | | | |
| *Vaccinium fuscatum* | Black highbush blueberry | Shrub | Full-Part | Med, wet | | | | | | | | | | | | | |
| *Vaccinium myrtilloides* | Velvet-leaved blueberry | Shrub | Full-Shade | Med | | | | | | | | | | | | | |
| *Vaccinium oxycoccos* | Small cranberry | Shrub | Full-Shade | Med, wet | | | | | | | | | | | | | |
| *Vaccinium pallidum* | Hillside blueberry | shrub | Full-Shade | Wet, Med, Dry | | | | | | | | | | | | | |
| **Host plants (all regions)** | | | | | **BLOOM TIME** | | | | | | | | **BUMBLEBEES** | | | **BUTTER FLIES** | **OTHER BEES** |
| **LATIN NAME** | **COMMON NAME** | **PLANT TYPE** | **SUN** | **SOIL** | **Early** | | **Mid** | | | **Late** | | | **B. terricola** | **B. fervidus** | **B. vagans** | | |
| | | | | | **M** | **A** | **M** | **J** | **J** | **A** | **S** | **O** | | | | | |
| *Viola sororia* | Common violet | Herb. perenn. | Full-Shade | Wet, Med, Dry | | | | | | | | | | | | See accompanying table for species present in your region | |
| *Viola pedata* | Bird's foot violet | Herb. perenn. | Full-Part | Med, Dry | | | | | | | | | | | | | |
| *Viola pedatifida* | Prairie violet | Herb. perenn. | Full-Part | Med, Dry | | | | | | | | | | | | | |
| *Viola sororia* | Common Blue Violet | Herb. perenn. | Full-Shade | Wet, Med, Dry | | | | | | | | | | | | | |
| *Viola pubescens* | Smooth Yellow Violet | Herb. perenn. | Part | Wet, Med, Dry | | | | | | | | | | | | | |
| *Viola striata* | Cream Violet | Herb. perenn. | Part, Shade | Wet, Med, Dry | | | | | | | | | | | | | |
| *Baptisia tinctoria* | Small Yellow Wild Indigo | Herb. perenn. | Full-Part | Wet, Med, Dry | | | | | | | | | | | | | |
| *Doellingeria umbellate* | Flat topped aster | Herb. perenn. | Full-Part | Wet, Med | | | | | | | | | | | | | |
| *Rumex spp.* | Water dock | Herb. perenn. | | | | | | | | | | | | | | | |
| *Vaccinium macrocarpon* | Cranberry | trailing shrub | Part | Wet | | | | | | | | | | | | | |
| *Quercus spp.* | Oak | Tree | | | | | | | | | | | | | | | |
| *Juniperus virginiana* | Eastern red cedar | Tree | Full-Shade | Dry | | | | | | | | | | | | | |
| *Ribes spp.* | Gooseberry | Herb. perenn. | Full-Shade | Wet, Med, Dry | | | | | | | | | | | | | |
| *Cardamine spp.* | Bitter-cress | Herb. perenn. | | | | | | | | | | | | | | | |
| *Fagus grandifolia* | American Beech | Tree | Shade, Part | Med | | | | | | | | | | | | | |
| *Carex stricta* | Tussock sedge | Grass | Part-Full | Wet, Med | | | | | | | | | | | | | |
| *Andropogon gerardii* | Big bluestem | Grass | Full | Med, Dry | | | | | | | | | | | | | |
| *Schizachyrium scoparium* | Little bluestem | Grass | Part-Full | Med, Dry | | | | | | | | | | | | | |
| *Panicum virgatum* | Switch grass | Grass | Part-Full | Wet, Med | | | | | | | | | | | | | |
| *Poa pratensis* | Kentucky bluegrass | Grass | Full | Wet, Med | | | | | | | | | | | | | |
| *Sorghastrum nutans* | Indiangrass | Grass | Full-Shade | Wet, Med | | | | | | | | | | | | | |
| *Chasmanthium latifolia* | Indian woodoats grass | Grass | Full-Part | Wet, Med | | | | | | | | | | | | | |
| *Eragrostis spp.* | Lovegrass | Grass | Full | Med, Dry | | | | | | | | | | | | | |
| *Agrostis perennans* | Bentgrass | Grass | Part | Wet | | | | | | | | | | | | | |
| *Danthonia spicata* | Poverty grass | Grass | Full-Part | Dry | | | | | | | | | | | | | |
| *Calamagrostis canadensis* | Reed grass | Grass | Full-Shade | Wet, Med | | | | | | | | | | | | | |
| *Bromus spp.* | Brome | Grass | Full | Med | | | | | | | | | | | | | |
| **Nectar/pollen - butterflies and other bees at risk** | | | | | **BLOOM TIME** | | | | | | | | **BUMBLEBEES** | | | **BUTTER FLIES** | **OTHER BEES** |
| **LATIN NAME** | **COMMON NAME** | **PLANT TYPE** | **SUN** | **SOIL** | **Early** | | **Mid** | | | **Late** | | | **B. terricola** | **B. fervidus** | **B. vagans** | | |
| | | | | | **M** | **A** | **M** | **J** | **J** | **A** | **S** | **O** | | | | | |
| *Zizia aurea* | Golden alexander | Herb. perenn. | Full-Part | Med | | | | | | | | | | | | | |
| *Zizia aptera* | Meadow zizia | Herb. perenn. | Full-Part | Med | | | | | | | | | | | | | |
| *Geranium maculatum* | Wild geranium | Herb. perenn. | Full-Part | Med | | | | | | | | | | | | | |
| *Lysimachia spp.* | Loosestrife | Herb. perenn. | Part-Shade | Wet- Med | | | | | | | | | | | | | |
| *Cardamine spp.* | Bitter-cress | Herb. perenn. | Part | Wet- Med | | | | | | | | | | | | | |
| *Solidago altissima* | Tall goldenrod | Herb. perenn. | Full-Part | Med, Dry | | | | | | | | | | | | | |
| *Solidago arguta* | Forest goldenrod | Herb. perenn. | Part | Med, Dry | | | | | | | | | | | | | |
| *Solidago gigantea* | Smooth goldenrod | Herb. perenn. | Full-Part | Wet, Med | | | | | | | | | | | | | |
| *Solidago juncea* | Early goldenrod | Herb. perenn. | Full-Part | Med, Dry | | | | | | | | | | | | | |
| *Solidago odora* | Sweet goldenrod | Herb. perenn. | Full-Part | Med, Dry | | | | | | | | | | | | | |
| *Solidago rugosa* | Rough-stemmed goldenrod | Herb. perenn. | Full-Part | Med | | | | | | | | | | | | | |
| *Rubus allegheniensis* | Common blackberry | Shrub | Full-Part | Med | | | | | | | | | | | | | |
| *Rubus canadensis* | Smooth blackberry | Shrub | Full-Part | Med, Dry | | | | | | | | | | | | | |
| *Rubus flagellaris* | Northern blackberry | Shrub | Full-Part | Med, Dry | | | | | | | | | | | | | |
| *Rubus pensilvanicus* | Pennsylvania blackberry | Shrub | Full-Part | Med, Dry | | | | | | | | | | | | | |
| *Hydrophyllum virginianum* | Virginia waterleaf | Herb. perenn. | Part-Shade | Med | | | | | | | | | | | | | |

Thank you to Amy Meltzer for help with compiling plant information!