Monarch Nectar Plants

Northeast





Left to right: Monarch on showy goldenrod, coastal sweet-pepperbush, and monarch on buttonbush.

The Northeast region, composed of the New England states of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, and Connecticut, as well as eastern New York, is characterized by shifting coastal dunes, deciduous forests, and riparian corridors. Rich floral diversity within these habitats supports thousands of species of bees, butterflies, and other pollinators, including northern populations of summer breeding and fall migrating monarchs. Depending on the year, monarchs can be found throughout the region, often favoring open fields and meadows, river valleys, and coastlines.

Each spring, monarchs leave overwintering sites in the mountains of central Mexico and fan out across North America to breed and lay eggs on milkweed, the monarch's host plant. Several generations are produced over the course of the spring and summer. In late summer and early fall, adults from the northern U.S. and southern Canada migrate back to the overwintering sites, where they generally remain in reproductive diapause until the spring, when the cycle begins again.

Monarchs at overwintering sites in Mexico and California have declined dramatically since monitoring began in the late 1990s. Across their range in North America, monarchs are threatened by a variety of factors. Loss of milkweed from extensive herbicide use has been a major contributing factor, and habitat loss and degradation from other causes, natural disease and predation, climate change, and widespread insecticide use are probably also contributing to monarch declines. Because of the monarch's migratory life cycle, it is important to protect and restore habitat across their entire range. Adult monarchs depend on diverse nectar sources for food during all stages of the year, from spring and summer breeding to fall migration and overwintering. Caterpillars, on the other hand, are completely dependent on their milkweed host plants. Inadequate milkweed or nectar plant food sources at any point may impact the number of monarchs that successfully arrive at overwintering sites in the fall.

Providing milkweeds and other nectar-rich flowers that bloom where and when monarchs need them is one of the most significant actions you can take to support monarch butterfly populations. This guide features Northeast native plants that have documented monarch visitation, bloom when monarchs are present, are commercially available, and are known to be hardy. These species are well-suited for wildflower gardens, urban greenspaces, and farm field borders. Beyond supporting monarchs, many of these plants attract other nectar- and/or pollen-seeking butterflies, bees, moths, and hummingbirds, and some are host plants for other butterfly and moth caterpillars. For a list of native plants that host butterflies and moths specific to your zip code see <u>nwf.org/nativeplantfinder</u>. The species in this guide are adaptable to growing conditions found across the Northeast. Please consult regional floras, the Biota of North America's North American Plant Atlas (<u>bonap.net/napa</u>), or the USDA's PLANTS database (<u>plants.usda.gov</u>) for details on species' distributions in your area.







Bloom	Common Name	Scientific Name	Flower Color	Max. Height	Water Needs	Notes	This list of monarch nectar plants for the Northea information a
	Forbs			(Feet)	Low, Med, or High	All species perennials, unless otherwise noted.	
Summer	1 Butterfly milkweed	Asclepias tuberosa	Orange / yellow	2	L	Monarch caterpill	lar host plant and nectar source for many bee
	2 Common milkweed	Asclepias syriaca	White / purple	8	L	Monarch caterpill	lar host plant.
	3 Narrowleaf mountain mint	Pycnanthemum tenuifolium	White	3	М	Attracts a huge di	versity of pollinators. Foliage is edible.
	4 Swamp milkweed	Asclepias incarnata	Pink	4	М	Monarch caterpill	lar host plant.
	5 Woodland sunflower	Helianthus divaricatus	Yellow	6	L	Drought tolerant.	
Summer to Fall	6 Boneset thoroughwort	Eupatorium perfoliatum	White	6	M / H	Tolerates sandy o	r clay soils but needs constant moisture.
	7 Canada goldenrod	Solidago altissima	Yellow	4	L	Attracts many spe	ecies of bees and butterflies.
	8 Devil's bite	Liatris scariosa	Purple	3	L	Plant only in resid	dential areas to avoid hybridization with the e
	9 Flat-top goldentop	Euthamia graminifolia	Yellow	6	M / H	Attracts many spe	ecies of bees, wasps, flies, butterflies, moths,
	10 Heart-leaved American-aster	Symphyotrichum cordifolium	Purple	4	L	Easy to grow. Can	be weedy as it self-seeds readily.
	11 New England aster	Symphyotrichum novae-angliae	Pink / purple	6	L	One of the latest f	fall-blooming plants. Frequented by bees and
	12 New York aster	Symphyotrichum novi-belgii	Pink / purple	5	L	Attracts monarch	s and other butterflies and bees.
	13 New York ironweed	Vernonia noveboracensis	Purple	8	L	Easy to grow and	tolerates a wide range of soils, although prefe
	14 Obedient false dragonhead	Physostegia virginiana	Pink / purple	4	L	Tolerates wet soil	s. Great nectar producer that attrats many be
	15 Seaside goldenrod	Solidago sempervirens	Yellow	8	L	Tolerates saltwate	er spray and sandy soils. An important nectar
	16 Showy goldenrod	Solidago speciosa	Yellow	5	L/M	Also frequented b	by a number of beneficial solitary wasps, polle
	17 Sweetscented Joe Pye weed	Eutrochium purpureum	Pink / purple	6	М	Very attractive to	butterflies, with attractive seedheads that pe
	18 Trumpetweed	Eutrochium fistulosum	Pink / purple	7	М	Great nectar plan	t that attracts many pollinator species.
	19 Whitetop aster	Doellingeria umbellata	White	5	М	Nectar and poller	n attract many butterflies, wasps, bees, and fli
	20 Wild bergamot	Monarda fistulosa	Purple	5	L	Aromatic foliage.	Flowers attract butterflies, bees, and hummir
	Shrubs and Trees						
Summer	21 Buttonbush	Cephalanthus occidentalis	White	12	М	Fragrant, showy f	lowers that attract butterflies.
Summer to Fall	22 Climbing hempvine	Mikania scandens	White	10	М	Low-climbing vine	e used by butterflies for nectar.
	23 Coastal sweet-pepperbush	Clethra alnifolia	White / pink	12	М	Tolerates clay soil	ls and shade. Leaves turn yellow and gold in t
	24 White meadowsweet	Spiraea alba	White	4	М/Н	Good for wet area	as. Needs constant moisture.





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ees.

e endemic and at-risk L. scariosa var. novae-angliae.

s, and beetles.

nd pre-hibernation bumble bee queens.

refers rich, moist soils.

bees and butterflies.

tar source for coastal migrating monarchs.

ollen-eating soldier beetles, and more.

persist into winter.

l flies. Birds eat the seeds. ningbirds.

n the fall.



Planting for Success

Monarch nectar plants often do best in open, sunny sites. You can attract more monarchs to your area by planting flowers in single species clumps and choosing a variety of plants that have overlapping and sequential bloom periods. Monarchs are present June through early October in the Northeast. Providing nectar plants that bloom from early summer through fall will be important for breeding and migrating monarchs in the region.

Why Plant Native?

Although monarchs use a variety of nectar plant species, including exotic invasives such as butterfly bush (*Buddleja* spp.) and lantana (*Lantana* spp.), we recommend planting native species. Native plants are often more beneficial to ecosystems, are adapted to local soils and climates, and help promote biological diversity. They can also be easier to maintain in the landscape, once established.

Tropical milkweed (*Asclepias curassavica*) is a non-native plant that is widely available in nurseries. This milkweed can persist yearround in mild climates, allowing monarchs to breed throughout the winter rather than going into diapause. Tropical milkweed may foster higher loads of a monarch parasite called Oe (*Ophryocystis elektroscirrha*), which negatively impacts monarch health. Because of these implications, we recommend planting native species of milkweeds in areas where they historically occurred. You can read more about Oe in a fact sheet by the Monarch Joint Venture: <u>https://tinyurl.com/89cmcaeb</u>.

Protect Monarchs from Pesticides

Both insecticides and herbicides can be harmful to monarchs. Herbicides can reduce floral resources and host plants. Although dependent on timing, rate, and method of application, most insecticides have the potential to poison or kill monarchs and other pollinators. Systemic insecticides, including neonicotinoids, have received significant attention for their potential role in pollinator declines (imidacloprid, dinotefuran, clothianidin, and thiamethoxam are examples of systemic insecticides now found in various farm and garden products). Because plants absorb systemic insecticides as they grow, the chemicals become distributed throughout all plant tissues, including the leaves and nectar. New research has demonstrated that some neonicotinoids are toxic to monarch caterpillars that are poisoned as they feed on leaf tissue of treated plants. You can help protect monarchs by avoiding the use of these and other insecticides. Before purchasing plants from nurseries and garden centers, be sure to ask whether they have been treated with systemic insecticides. To read more about threats to pollinators from pesticides, please visit: xerces.org/pesticides.

Additional Resources

Publications & Resources

- 100 Plants to Feed the Monarch by The Xerces Society: <u>xerces.org/books</u>
- Gardening for Butterflies by the Xerces Society: <u>xerces.org/books</u>
- Attracting Birds, Butterflies, and Other Backyard Wildlife: <u>https://tinyurl.com/2p8c7zjm</u>
- Conservation Status and Ecology of the Monarch Butterfly in the U.S.: <u>xerces.org/us-monarch-</u> <u>consv-report</u>
- Eastern U.S. Monarchs and Milkweeds: xerces. org/publications/brochures/monarchsmilkweeds-eastern-us
- Milkweed Seed Finder: xerces.org/milkweed-seed-finder

Websites

- The Xerces Society: <u>xerces.org/monarchs</u>
- Monarch Joint Venture: monarchjointventure.org/resources
- Natural Resources Conservation Service: <u>nrcs.usda.gov/programs-initiatives/monarch-butterflies</u>
- National Wildlife Federation: <u>nwf.org/butterflies</u>

Community Science Efforts in the Northeast

- Monarch Watch Tagging Program: monarchwatch.org/tagging
- Journey North: journeynorth.org/monarchs
- Monarch Larva Monitoring Project: mlmp.org
- Project Monarch Health: monarchparasites.org

Data Sources

Nectaring data and observations, background information, and other contributions to this publication were taken from the published literature and generously provided by multiple researchers, gardeners, partners, and biologists. For the full list of data sources, please visit our website: xerces.org/monarch-nectar-plants.

Have you seen monarchs on native nectar plants? Share your monarch nectar plant observations with Xerces at <u>https://tinyurl.com/XercesMNPO</u>

Acknowledgments

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