

Monarch Nectar Plants

Mid-Atlantic



Left to right: Monarch on New York ironweed, smooth blue aster, and flat-top goldenrod.

The Mid-Atlantic region encompasses the states of North Carolina, Virginia, West Virginia, Maryland, Delaware, and New Jersey, as well as southeast Pennsylvania and the District of Columbia. These coastal states support a rich diversity of habitats, from salt marshes, pine forests, and bottomland hardwoods to an incredibly diverse array of freshwater wetland communities. Abundant wildlife can be found within these habitats, including hundreds of native pollinators such as summer breeding and fall migrating monarchs.

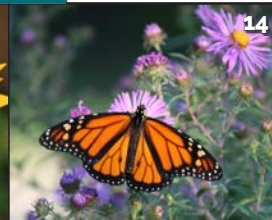
Each spring, monarchs leave overwintering sites in the mountains of central Mexico and fan out across North America to breed and lay eggs on milkweed, the monarch's host plant. Several generations are produced over the course of the spring and summer. In late summer and early fall, adults from the northern 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 Mid-Atlantic native plants that have documented monarch visitation, bloom during the times of year 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 nwf.org/nativeplantfinder. The species in this guide are adaptable to growing conditions found across the Mid-Atlantic. Please consult regional floras, the Biota of North America's North American Plant Atlas (bonap.net/napa), or the USDA's PLANTS database (plants.usda.gov) for details on species' distributions in your area.



This list of monarch nectar plants for Mid-Atlantic region was produced by the Xerces® Society. For more information about monarch conservation, please visit www.xerces.org							 XERCES SOCIETY for Invertebrate Conservation
Bloom	Common Name	Scientific Name	Flower Color	Max. Height	Water Needs	Notes	
Summer	Forbs			(Feet)	Low, Med, or High	All species perennials, unless otherwise noted.	
	1	Common milkweed	<i>Asclepias syriaca</i>	Pink	8	M	Monarch caterpillar host plant. Drought tolerant. Considered undesirable in livestock forage.
	2	Joe-Pye weed	<i>Eutrochium fistulosum</i>	Pink /purple	7	M	Great nectar plant that attracts many pollinator species.
	3	Swamp milkweed	<i>Asclepias incarnata</i>	Pink	4	M	Monarch caterpillar host plant.
	4	Wild bergamot	<i>Monarda fistulosa</i>	Purple / pink	3	L	Aromatic foliage. Flowers attract butterflies, bees, and hummingbirds.
Summer to Fall	5	Blackeyed Susan	<i>Rudbeckia hirta</i>	Yellow	3	L	Can be biennial or annual. Butterfly attractant. Drought tolerant.
	6	Blue mistflower	<i>Conoclinium coelestinum</i>	Blue / purple	3	M	Thin regularly to control spread by runners.
	7	Butterfly milkweed	<i>Asclepias tuberosa</i>	Orange / yellow	2	L	Monarch caterpillar host plant. Drought tolerant.
	8	Common boneset	<i>Eupatorium perfoliatum</i>	White	6	M / H	Tolerates sandy or clay soils but needs constant moisture.
	9	Dense blazing star	<i>Liatris spicata</i>	Purple	4	M	Highly adaptable and easy to grow. Attracts many butterflies, bees, and hummingbirds.
	10	Flat-top goldentop	<i>Euthamia graminifolia</i>	Yellow	6	M	Attracts many species of bees, wasps, flies, butterflies, moths, and beetles.
	11	Grass-leaved blazing star	<i>Liatris pilosa</i>	Purple	4	L	
	12	Narrow-leaved mountainmint	<i>Pycnanthemum tenuifolium</i>	White	3	L	Attracts bees, butterflies, and birds.
	13	Narrow-leaved sunflower	<i>Helianthus angustifolius</i>	Yellow	3	M	Important nectar source for fall migrating monarchs. Latest flowering sunflower species.
	14	New England aster	<i>Symphyotrichum novae-angliae</i>	Pink /purple	6	L / M	One of the latest fall-blooming plants. Frequented by bees and pre-hibernation bumble bee queens.
	15	New York ironweed	<i>Vernonia noveboracensis</i>	Purple	8	M	Easy to grow and tolerates a wide range of soils, although prefers rich, moist soils.
	16	Seaside goldenrod	<i>Solidago sempervirens</i>	Yellow	8	L / M	Tolerates saltwater spray and sandy soils. An important nectar source for coastal migrating monarchs.
	17	Smooth blue aster	<i>Symphyotrichum laeve</i> var. <i>laeve</i>	Blue / purple	4	M	Larval host of the pearl crescent butterfly.
	18	Spotted bee balm	<i>Monarda punctata</i>	White / pink / yellow	3	L	Drought tolerant. Annual plant.
	19	Wingstem	<i>Verbesina alternifolia</i>	Yellow	6	M	Attracts numerous insects, especially bumble bees.
	20	Wreath goldenrod	<i>Solidago caesia</i>	Yellow	3	L / M	Drought tolerant.
Shrubs and Trees							
Spring	21	Wild plum	<i>Prunus americana</i>	White	35	L / M	Edible fruits. Relatively easy to grow.
Summer to Fall	22	Buttonbush	<i>Cephalanthus occidentalis</i>	White	12	M	Fragrant, showy flowers that attract butterflies.
	23	Climbing hempvine	<i>Mikania scandens</i>	White	9	M	Low-climbing vine used by butterflies for nectar. Height of flower stalks is ~1 ft.
	24	Eastern baccharis	<i>Baccharis halimifolia</i>	White	15	M	Tolerates saltwater spray and sandy soils. Good for erosion control.



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 April through July and again from late August through November in the Mid-Atlantic. Providing nectar plants that bloom from spring 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 English ivy (*Hedera helix*), 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 year-round 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: <https://tinyurl.com/89cmcaeb>.

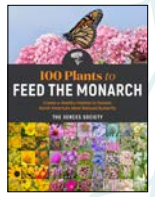
Protect Monarchs from Pesticides

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



Websites

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

Community Science Efforts in the Mid-Atlantic

- Cape May Monitoring Project: monarchmonitoringproject.com
- 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 <https://tinyurl.com/XercesMNPO>

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