Monarch Nectar Plants Inland Northwest



Left to right: Monarch on showy milkweed, yellow spiderflower, and monarch on annual sunflower.

The Inland Northwest encompasses much of eastern Oregon and Washington stretching from the eastern slopes of the Cascades into parts of western Idaho and northern Nevada. The landscapes in this region are dominated by shrub steppe and open prairie interspersed with juniper woodlands and pine forests. Nectar-rich shrubs and forbs take on special importance in this often arid landscape and are critically important resources for a number of insects and other wildlife, including breeding and migrating monarch butterflies.

Each spring, monarchs leave overwintering sites along the California coast and fan out across the western landscape to breed and lay eggs on milkweed, the monarch's host plant. Several generations are likely produced during this time. In the fall, adults 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 their decline. 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 in the Inland Northwest. This guide features native Northwest 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. The list also includes moisture requirements, so that you can choose plants to create a drought-tolerant garden. 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. 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 will be adaptable to growing conditions across most of the region. 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.







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Bloom	Common Name	Scientific Name	Flower Color		Water Needs	Notes This list of monarch nectar plants for the Inland Northwest Region was produced by the Xerces® Society. For more information about monarch conservation, please visit www.xerces.org For Invertebrate Conservation
	Forbs			(Feet)	Low, Med., or High	All species perennials, unless otherwise noted.
1 Spring to Summer 3 4	Clasping-leaved dogbane	Apocynum cannabinum	White / yellow / green	4	М	Spreads aggressively via rhizomes. Use only in large properties.
	Heartleaf milkweed	Asclepias cordifolia	Pink / purple	3	L	Monarch caterpillar host plant.
	Purple sage	Salvia dorrii	Blue	3	М	Excellent plant for dry desert gardens. Attracts birds, butterflies, and moths.
	Wavy leaf thistle	Cirsium undulatum	Purple / pink / white	4	L	Biennial. Drought tolerant.
	Yellow spiderflower	Peritoma lutea	Yellow	3	L	Annual.
Summer 8	Mountain monardella	Monardella odoratissima	White / blue / purple	1	L	Does best at mid to high elevations. Attracts many species of butterflies.
	Narrow-leaved milkweed	Asclepias fascicularis	Pink / white	3	М	Monarch caterpillar host plant. Tolerates clay soils and wet or dry conditions.
	Nettleleaf giant hyssop	Agastache urticifolia	Purple / red	2	L	Establishes better from transplant than seed. Tolerates clay soil and wet conditions.
	Nuttall's sunflower	Helianthus nuttallii ssp. nuttallii	Yellow	10	M/H	A showy perennial sunflower that prefers moist soils.
	Showy milkweed	Asclepias speciosa	Pink / green / purple	3	М	Monarch caterpillar host plant.
1 Summer to Fall 1 1	Blanketflower	Gaillardia aristata	Red / yellow	2	L	Excellent nectar plant for butterflies.
	Canada goldenrod	Solidago canadensis	Yellow	5	М	Drought tolerant once established.
	Common sunflower	Helianthus annuus	Yellow	5	М	Annual. A favorite of many bee species. Easy to establish and tolerant of clay soils.
	Missouri goldenrod	Solidago missouriensis	Yellow	3	L	Easy to grow. Host plant to a number of moth species and an important pollinator plant.
	Sulphur-flower buckwheat	Eriogonum umbellatum	White / yellow	2	L	Attracts many species of bees and butterflies.
	Western coneflower	Rudbeckia occidentalis	Yellow / green	7	М	A favorite of bees.
	Western goldentop	Euthamia occidentalis	Yellow	6	M/H	Wetland-riparian.
	Shrubs and Trees					
Spring ¹	Golden currant	Ribes aureum	Yellow	6	L	Has fragrant flowers and delicious berries.
Spring to Summer 20	Black chokecherry	Prunus virginiana var. melanocarpa	White	20	М	Flowers attract early butterflies. Birds will eat the fruits.
	Shrubby cinquefoil	Dasiphora fruticosa	Yellow	4	М	A durable member of the rose family with a long bloom period. Prefers moist soils.
	Woods' rose	Rosa woodsii var. ultramontana	Pink	6	L/M	Fragrant flowers and large rosehips. Excellent bird plant.
Summer to Fall	Rubber rabbitbrush	Ericameria nauseosa	Yellow	6	L	Very drought tolerant.
	Yellow rabbitbrush	Chrysothamnus viscidiflorus	Yellow	3	L	Host plant for the northern checkerspot. Nectar plant for many butterfly species.
Winter to Summer 2.	Arroyo willow	Salix lasiolepis	Yellow / purple	16	М	Tolerates sand and seasonal flooding; good for erosion control. Important wildlife plant.
13	14	15	17		18	20 21 22 23 24

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 from May through September in the Inland Northwest. If you are located to the west of the Cascade mountains, check out our guide for the Maritime Northwest, available at: xerces.org/monarch-nectar-plants.

Why Plant Native?

Although monarchs use a variety of nectar plant species, including exotic invasives such as butterfly bush (Buddleja spp.) and purple loosestrife (Lythrum salicaria), 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: https:// tinyurl.com/89cmcaeb.

Protect Monarchs from Pesticides

Both in secticides 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

- lants to Feed the Monarch by The Xerces Society: xerces.org/books
- Sardening for Butterflies by the Xerces Society: xerces.org/books
- lackyard Attracting Birds, Butterflies, and Other Backyard Wildlife: https://tinyurl.com/2p8c7zjm
- Sconservation Status & Ecology of the Monarch Butterfly in the U.S.: xerces.org/us-monarch-consv-report
- Guide to Milkweeds and Monarchs in the Western U.S.: xerces.org/western-us-monarch-guide
- Guide to the Native Milkweeds of Oregon: xerces. org/or-mw-guide
- Guide to the Native Milkweeds of Washington: xerces.org/wa-mw-guide
- Milkweed Seed Finder: xerces.org/milkweed-seed-finder



- The Xerces Society: <u>xerces.org/monarchs</u>
- 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 Oregon & Washington

- Western Monarch Milkweed Mapper: monarchmilkweedmapper.org
- Monarch Butterflies in the Pacific Northwest: facebook.com/ MonarchButterfliesinThePacificNorthwest
- 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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