Monarch Nectar Plants Maritime Northwest

The Maritime Northwest is a region of windswept coastlines, temperate rainforests, sprawling grasslands, and subalpine meadows. It encompasses the coastline and coastal ranges of Washington, Oregon, and northern California; the western slopes and crest of the Cascade mountains to the east; and the open prairies and agricultural lands of the Puget Trough and Willamette Valley in between. The variety of elevations and rainfall patterns found in this area has created diverse plant communities that support a number of native pollinators and other wildlife. Monarch butterflies, while scarce from the Willamette Valley north due to natural limits on milkweed distribution, can still be found in this region during the summer months.

Each spring, monarchs leave hundreds of 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 over the course of the spring and summer, and by May monarchs begin arriving in the Northwest. In late summer and early fall, western monarchs migrate back to overwintering sites in California and central Mexico, 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

Left to right: Monarch on showy milkweed, blueblossum, and Lewis' mock orange.

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 upon 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 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 Maritime Northwest. This guide features native plants that have documented monarch visitation, bloom when monarchs are present in the region, and are commercially available. 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 www. nwf.org/nativeplantfinder. The species in this guide will be adaptable to growing conditions across most of the region. Please consult regional floras or the Biota of North America's Plant Atlas (http://bonap.net/napa) for details on species' distributions in your area.







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Bloom	Common Name	Scientific Name	Flower Color	Max. Height	Water Needs	Notes
1 Spring to Summer 2 3	Forbs			(Feet)	Low, Medium, or High	All species perennials unless otherwise noted. Monarchs are pre
	Bluedicks	Dichelostemma capitatum	Purple	3	L	Attracts other bees, butterflies, and hummingbirds
	California compassplant	Wyethia angustifolia	Yellow	2	М	Drought tolerant with big yellow flowers.
	Common sunflower	Helianthus annuus	Yellow	5	М	Annual. A favorite of many bee species. Easy to est
4 Spring to Fall 5	Coastal sand verbena	Abronia latifolia	Yellow	1	L/M	Tolerates salt spray and prefers sandy soils. Can blo
	Cobwebby thistle	Cirsium occidentale	Pink/white/purple	4	L	Biennial. Attracts bees, butterflies, and hummingb
6 7 Summer 8 9 10	Lyall aster	Symphyotrichum hendersonii	Blue/purple	5	L/M	Good nectar plant for native bees and butterflies.
	Narrow-leaved milkweed	Asclepias fascicularis	Pink/white	3	М	Monarch caterpillar host plant. Tolerates clay soils
	Pacific aster	Symphyotrichum chilense	Purple	5	L	One of the latest fall-blooming plants. Important for
	Sierra larkspur	Delphinium glaucum	Blue/purple	6	Н	Attractive to butterflies and hummingbirds.
	Western vervain	Verbena lasiostachys	Purple	3	L	Can be aggressive in the garden. Long bloom seaso
11 12 13 Summer to Fall 14 15 16	Heartleaf milkweed	Asclepias cordifolia	Pink/purple	3	L	Monarch caterpillar host plant. Extremely drought
	Mountain monardella	Monardella odoratissima	White/purple	1	L	Does best at mid to high elevations. Attracts many
	Rough Canada goldenrod	Solidago canadensis var. salebrosa	Yellow	7	М	Can be aggressive in the garden.
	Showy milkweed	Asclepias speciosa	Pink/green/purple	3	М	Monarch caterpillar host plant. Extremely attractiv
	Sulphur-flower buckwheat	Eriogonum umbellatum	Yellow	3	L	Attracts many species of bees and butterflies.
	Western coneflower	Rudbeckia occidentalis	Brown/green	6	L/M	A favorite of bees.
	Shrubs and Vines					
17 Spring to Summer 18 19	Blueblossom	Ceanothus thyrsiflorus	Blue	15	L	Amazing pollinator plant. Host plant to many butt
	Lewis' mock orange	Philadelphus lewisii	White	10	L	Flowers give off amazing orange fragrance and attr
	Littleflower penstemon	Penstemon procerus	Blue/purple	1	L	Great for rock gardens. Attracts hummingbirds.
Spring to Fall 20	Western white clematis	Clematis ligusticifolia	White	20	М	Semi-woody vine. Widely adaptable and tough spe
21 Summer 22 23	California buckeye	Aesculus californica	White/pink	20	М	Nectar source for many native butterflies.
	Coyotebrush	Baccharis pilularis	White/yellow	6	L	Extremely drought tolerant.
	Nettleleaf giant hyssop	Agastache urticifolia	Purple/red	2	L	Establishes better from transplant than seed. Tolera
Summer to Fall 24	Rubber rabbitbrush	Ericameria nauseosa	Yellow	8	L	Very drought tolerant. Extremely attractive to more



sent May through September in the Maritime NW.

s. An early spring bloomer.

tablish and tolerant of clay soils.

oom year-round.

birds. Larval host for several butterfly species.

and wet or dry conditions.

for pre-hibernation bumble bee queens. Clay tolerant.

on. Attracts butterflies.

t tolerant once established. Appropriate for Southern Oregon gardens.

species of butterflies.

ve monarch nectar plant.

terfly species. Birds will eat the seeds.

ract bees, butterflies, and hummingbirds.

ecies that can form a dense mass if not controlled.

rates clay soil and wet conditions.

narchs.



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 Maritime Northwest, although they are much less frequently seen in the northern part of this region. If you are located further inland, check out our guide for the Inland Northwest, available at: www.xerces.org/monarch-nectar-plants.

Why Plant Native?

Although monarchs use a variety of nectar plant species, including exotic invasives such as butterfly bush and English ivy, 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 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: http://monarchjointventure. org/images/uploads/documents/Oe_fact_sheet.pdf.

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: www.xerces.org/pesticides.

Additional Resources

Gardening for Butterflies

Attracting Birds, Butterflies, and Other Backyard Wildlife





Available through www.xerces.org/books and http://bit.ly/1Xhxfgu.

Conservation Status and Ecology of the Monarch Butterfly in the U.S. Report

www.xerces.org/us-monarch-consv-report

Guide to Milkweeds and Monarchs in the Western U.S. www.xerces.org/western-us-monarch-guide

Guide to the Native Milkweeds of Oregon www.xerces.org/or-mw-guide

Guide to the Native Milkweeds of Washington www.xerces.org/wa-mw-guide

Milkweed Seed Finder www.xerces.org/milkweed-seed-finder

Websites

The Xerces Society www.xerces.org/monarchs

Monarch Joint Venture www.monarchjointventure.org/resources

Natural Resources Conservation Service www.nrcs.usda.gov/monarchs

National Wildlife Federation www.nwf.org/butterflies

Citizen Science Efforts in Oregon & Washington

Xerces Society & USFWS Milkweed and Monarch Survey www.xerces.org/milkweedsurvey

Monarch Butterflies in the Pacific Northwest www.facebook.com/MonarchButterfliesinThePacificNorthwest

Journey North www.learner.org/jnorth/monarch

Monarch Larva Monitoring Project www.mlmp.org

Project Monarch Health www.monarchparasites.org

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Written by Candace Fallon, Nancy Lee Adamson, Sarina Jepsen, Hillary Sardinas, and Mace Vaughan. Designed by Kaitlyn Rich. Formatted by Michele Blackburn. PHOTO CREDITS: Eric Eldrege, USDA NRCS: (left cover). Jason Hollinger*: 1. kqedquest*: 2. Alejandro Bayer Tamayo*: 3. J. Maughn*: 4. Ken-ichi Ueda*: 5. Alfred Brousseau***: 6. Curtis Clark**: 7. Gordon Leppig & Andrea J. Pickart**: 8. Sara Asher*: 9. Joe Decruyenaere*: 11. Jeb Bjerke*: 12. Andrey Zarkikh*: 13. Tom Koerner, USFWS: 14. © 2012 Barry Rice***: 15. Bryant Olsen*: 16. Kirt Edblom*: 17 (cover). born1945*: 18 (cover). Peter Stevens*: 19. Barry Breckling***: 20. Elaine with Grey Cats*: 21. Peter Pearsall, USFWS OR*: 22. Thayne Tuason*: 23. Stan Shebs**: 24. *Courtesy of flickr.com/**Wikimedia Commons/***CalPhotos/****iNaturalist. Photographs remain under the copyright of the photographer.

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