Monarch Nectar Plants California



Left to right: Monarch butterflies on rabbitbush, Pacific aster, and clustered together on eucalyptus in a California overwintering site.

California is one of the most floristically biodiverse regions in the world, supporting unique plant communities such as grasslands, chaparral, giant sequoia groves, and Joshua tree woodlands. The native plants that make up these communities in turn support an incredible array of insects and other animals, including the monarch butterfly. During spring and summer, monarchs leave hundreds of overwintering sites along the California coast and fan out across the western landscape to breed and lay eggs on milkweed (*Asclepias* spp.), the monarch's host plant. Several generations are likely produced during this time. In the fall, adults from throughout the western U.S. 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.

Once, millions of monarchs overwintered along the Pacific coast of California and Baja, Mexico. By 2018, the population of western monarchs hit a record low of less than 29,000 butterflies, which represents a 99.4% decline since the 1980's. The significant problems afflicting western monarchs include habitat loss, pesticide use, and climate change. 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 native California plants that have documented monarch visitation, bloom during the times of year when monarchs are present and are commercially available... This list is not exhaustive, but focuses on the plants that appear to be the most important for western monarchs. The list also includes moisture requirements, so that you can choose plants to create a drought-tolerant monarch garden, if needed. 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. Many of the species in this guide will be adaptable to growing conditions across most of the state, but may be less suitable for planting in the High Sierras, Modoc Plateau, and Eastern Interior Desert regions. Please consult Calflora (calflora.org) for details on species' distributions in your specific area.







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Bloom	Common Name	Scientific Name	Flower Color	Max. Height	Water Needs	Notes This list of monarch nectar plants for California was produced by the Xerces® Society. For more information about monarch conservation, please visit www.xerces.org SOCIETY for Invertebrate Conservation
	Forbs			(Feet)	Low, Med., or High	All species perennials, unless otherwise noted. Entire genus is likely attractive to monarchs, visit Calflora.org to find native species best adapted to site conditions.
Spring to Summer 1	Nettleleaf giant hyssop	Agastache urticifolia	Purple / red	2	L	Establishes better from transplant than seed. Tolerates clay soil and wet or dry conditions.
2 3 4 Spring to Fall 5 6	Coastal sand verbena	Abronia latifolia	Yellow	1	L	Tolerates salt spray and prefers sandy soils. Can bloom year-round.
	Cobwebby thistle	Cirsium occidentale	Pink/white/purple	4	L	Biennial. Attracts bees, butterflies, and hummingbirds. Larval host for several butterfly species.
	Common sandaster	Corethrogyne filaginifolia	Pink/white/purple	3	L	Leave it alone in summer: too much watering can kill it.
	Desert globemallow	Sphaeralcea ambigua	Orange	3	L	Drought tolerant. Supports various specialist bees.
	Milkweeds ✓	Asclepias spp.	Pink/white/purple	2–4	L/M	Monarch host plant. ① Do not plant milkweeds within 1 mile of western monarch overwintering sites or outside of its historic range.
	Western vervain	Verbena lasiostachys	Purple	3	L	Good butterfly plant. Tolerates seasonal flooding, sand, and clay. Can be used for erosion control.
	Coyote mint	Monardella villosa	Pink/purple	2	L	Requires good drainage.
	Mountain monardella	Monardella odoratissima	White/purple	1	L	Does best at mid to high elevations. Attracts many species of butterflies.
	Pacific aster	Symphyotrichum chilense	Yellow / violet	4	L	Tolerates clay soils and wet or dry conditions. Supports various specialist bees.
Summer to Fall	Goldenrods	Solidago spp.	Yellow	3	L	Important late-season forage for bees, butterflies, wasps, beetles, and more.
	Smooth beggartick	Bidens laevis	Yellow	3	Н	Prefers wet areas and can be used in bioswales. Attracts beneficial insects and butterflies in the fall.
	Sunflowers₩	Helianthus spp.	Yellow	5–8	М	Excellent butterfly nectar plant. Attractive to many pollinators and beneficial insects.
	Western goldentop	Euthamia occidentalis	Yellow	6	Н	Wetland-riparian. Attractive to many pollinators and beneficial insects.
Winter to Spring 15	Bluedicks	Dipterostemon capitatus	Purple	3	L	Attracts bees, butterflies, and hummingbirds. An early spring bloomer.
Winter to Summer 16	Seaside fleabane	Erigeron glaucus	Purple	2	L	A great butterfly plant. Attracts bees and beneficial insects.
	Shrubs and Trees					
Year-round ₁₇	Coyotebrush, mulesfat, desertbroom ✓	Baccharis spp.	White/yellow/pink	6–10	L	Easy to grow and attractive to many pollinators and beneficial insects.
Spring 19	Willows ✓	Salix spp.	Yellow / green	1–30	Н	Flowers also attractive to native bees.
	California buckeye	Aesculus californica	White	20	L/M	Thrives in poor soils. Seeds toxic to humans if eaten.
	Golden currant	Ribes aureum	Yellow	6	L	Has fragrant flowers. Important nectar source for bumble bee queens and other early emerging bees.
Spring to Summer 21	Sages ✓	Salvia spp.	Pink / purple	1–8	L	Very attractive to native bees, especially bumble bees. Also attracts beneficial insects and hummingbirds.
Summer to Fall 23	Common buttonbush	Cephalanthus occidentalis	White	6	Н	Fragrant, showy flowers that attract butterflies, bees, and beneficial insects.
	Rabbitbrush, goldenbush, mock heather [™]	Ericameria spp.	Yellow	4–8	L	Great late-season nectar source for bees and butterflies. Very drought tolerant.
Winter to Spring 24	Bush sunflower	Encelia californica	Yellow	5	L	Not tolerant of cold winters. Cut it back each fall to keep growth compact.
13	14	16	17		18	19 20 21 22 23 24

Planting for Success

Monarch nectar and host plants often do best in open, sunny sites. You can attract more monarchs by planting flowers in single species clumps and choosing a variety of plants that have overlapping and sequential bloom periods. Monarchs can be present year-round in California, so you may want to provide nectar plants for migrating and breeding monarchs from spring through fall, as well as milkweeds in the spring and summer.

We recommend planting milkweed species in their natural ranges, following nature's patterns as the best example. Using locally sourced native plant materials helps ensure that the plants are well-adapted to the climate of the planting location. Until further research is conducted, please avoid planting milkweed within one (1) mile of known western monarch overwintering sites.

Why Plant Native?

Although monarchs use a variety of nectar plant species, including exotic invasives such as ice plant (*Carpobrotus edulis*) and cape ivy (*Delairea odorata*), 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. Planting milkweed too close to overwintering sites may interfere with monarch migration and overwintering behavior. You can read more about OE in this Monarch Joint Venture fact sheet: https://tinyurl.com/89cmcaeb.

Protect Monarchs from Insecticides

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. Neonicotinoids are toxic to monarch caterpillars. 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













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



- 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 California

- Serces Society Western Monarch Thanksgiving Count: westernmonarchcount.org
- Western Monarch Milkweed Mapper: monarchmilkweedmapper.org
- 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, see 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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