Monarch Butterflies Northern Great Plains

During spring and summer, monarchs breed throughout the U.S. and southern Canada. In the fall, adults of an eastern population migrate to Mexico, flying up to 3,000 miles. In the western U.S., monarchs migrate to scattered groves along the coast of California. The following spring, these butterflies leave their overwintering sites and fly northward in search of host plants on which to lay their eggs. Female monarchs lay eggs on milkweeds and a few other plants in the dogbane family. As monarchs spread across North America, several generations of butterflies are produced. In Florida, some non-migratory individuals remain and breed year-round.

Sadly, population monitoring at overwintering sites in Mexico and California has documented a steady decline. Monarchs are threatened by loss and degradation of habitat, natural disease and predation, adverse weather and the ongoing decline of native milkweeds. Because of the monarch's migratory lifecycle, effective conservation strategies need to protect and restore habitat across their entire range.







Asclepias syriaca Common Milkweed

Habitat: Well-drained soils: fields, roadsides, prairies, pastures, waste areas

Larval host plant, adult nectar source. Plants and seeds available from limited vendors.

Milkweeds

Asclepias speciosa Showy Milkweed

Habitat: Dry to moist, well-drained soils: open woodlands, prairies, fields, roadsides, waste areas

Larval host plant, adult nectar source. Seed available from several vendors.

Asclepias incarnata Swamp Milkweed

Habitat: Moist to wet soils: swamps, marshes, wet prairies, pond margins, roadside ditches

Larval host plant, adult nectar source. Plants and seeds available from several vendors.



Asclepias pumila Plains Milkweed

Habitat: Dry, well-drained sandy to rocky soils: prairies, grasslands

Larval host plant, adult nectar source. Plants and seeds not currently available.



Asclepias viridiflora Green Comet Milkweed

Habitat: Dry to moist, well-drained soils: roadsides, thickets, open woods, woodland margins, prairie openings

Larval host plant, adult nectar source. Plants and seeds available from limited vendors.

Asclepias verticillata Whorled Milkweed

Habitat: Dry to moist soils: prairies, pastures, roadsides, fields, open woods

Larval host plant, adult nectar source. Plants and seeds available from limited vendors.







In addition to providing a food source for monarch larvae, the showy flowers of milkweeds offer abundant, high quality nectar to many pollinators including bees, butterflies and hummingbirds. The handsome plants can also add interest and beauty to any landscape. Milkweeds are named for their milky latex sap, which contains alkaloids and cardenolides, complex chemicals that make the plants unpalatable to most animals. Milkweeds have fleshy, pod-like fruits that split when mature, releasing seeds. Each milkweed seed is attached to fluffy hairs, known as pappus, silk, or floss, that aid in wind dispersal.

Intensifying agriculture, development of rural lands and the use of mowing and herbicides to control vegetation have all reduced the abundance of naturally occurring milkweeds. This has resulted in a substantial loss of critical resources available for monarchs throughout much of the United States. As a result, the North American Monarch Conservation Plan recommends planting native milkweed species to help restore breeding habitat. Sites of any size or location can help, from urban parks, schools and home gardens to commercial developments, municipalities and rural roadsides.

While native milkweeds are crucial for monarchs, commercial sources of plants and seeds remain limited. The Florida Museum of Natural History, the Xerces Society for Invertebrate Conservation, Butterfly Conservation Initiative and the Monarch Joint Venture are working to help raise awareness and produce reliable sources of native milkweed. Inventory is expected to increase steadily over the next several years, to meet demand for home gardens and habitat restoration projects across the region.

Ask for native milkweeds at your local retail garden center! Be sure to ask for plants that have not been treated with pesticides, which may make them toxic to monarchs and other insects.

Butterfly Larvae & Host Plants

Black Swallowtail Papilio polyxenes

> Anise Swallowtail Papilio zelicaon

Spotted Water Hemlock Cicuta maculata



Western Tiger Swallowtail Papilio rutulus Tiger Swallowtail Papilio glaucus **Chokecherry** Prunus virginiana

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Two-tailed Swallowtail Papilio multicaudata

Green Ash Fraxinus pennsylvanica

> Limenitis archippus Eastern Cottonwood Populus deltoides

Painted Lady Vanessa carduii

Wavyleaf Thistle

Cirsium undulatum

Gorgone Checkerspot

Prairie Sunflower Helianthus petiolaris

Chlosyne gorgone

Common Wood-Nymph Cercyonis pegala

Little Bluestem Schizachyrium scoparium



Quaking Aspen



Gray Hairstreak Strymon melinus

Twogrooved Milkvetch Astragalus bisulcatus





Morning Cloak Nymphalis antiopa

Yellow Willow Salix lutea

Stinging Nettle Urtica dioica



Weidemeyer's Admiral Limenitis weidemeyerii

Populus tremuloides



American Lady Vanessa virginiensis

Small-leaf Pussytoes Antennaria parvifolia

Pearl Crescent Phyciodes tharos

White Heath Aster Symphyotrichum ericoides



Spring Azure Celastrina ladon Redosier Dogwood Cornus sericea

Regal Fritillary Speyeria idalia

Prairie Violet Viola pedatifida



Melissa Blue Plebejus melissa

Silvery Lupine upinus argenteus



Variegated Fritillary Euptoieta claudia Stiffstem Flax Linum rigidum





Silver-Spotted Skipper Epargyreus clarus Black Locust

Robinia pseudoacacia



Northern Cloudywing Thorybes pylades

American vetch Vicia americana