## Creating monarch habitat in your Midwestern garden

Iza Redlinski, The Field Museum, Chicago

Photos: John and Jane Balaban, Wendy Caldwell, Candy Sarikonda, Laura Milkert, Iza Redlinski, and John Hilty. Produced by Iza Redlinski, Juliana Philipp and Tyana Wachter © Keller Science Action Center, The Field Museum, Chicago. [fieldguides@fieldmuseum.org] [fieldguides.fieldmuseum.org] [878] version 1 3/2017

The monarch butterfly (Danaus plexippus) captures the imagination of people across North America as it completes an annual migration from Mexico to Canada. The population of this once common butterfly has decreased by more than 80% over the last two decades. Although there are many reasons for its decline, lack of milkweed and nectar plants is a culprit. The good news is that gardeners can help reverse the decline; planting the flowers in this guide will help this iconic butterfly survive its long journey and produce the next generation of transcontinental travelers. And it's not just monarchs; adding these native plants to your garden, balcony or community provides habitat to dozens of other pollinator species too.

Learn to tell the difference between male monarchs, female monarchs, and a common monarch mimic.

**MONARCH:** no line crossing through the hind wing, much larger and a stronger flier that a viceroy. Male has dots on lower wings

**VICEROY:** line crossing through hind wing, quick wing flutter



Danaus plexippus





Limenitis archippus

Adult Monarch - Male Danaus plexippus

**LIFE CYCLE** - A monarch egg usually takes about 4 days to hatch. It is off-white with ridges, and the size of a pinhead. Once it hatches, the larva (caterpillar) goes through 5 stages, called instars, before it forms a pupa (chrysalis) and metamorphoses into an adult monarch butterfly



**Egg and 1<sup>st</sup> instar**, caterpillar 2-6 mm in length, 0.5-1.5 mm in width, looks translucent & shiny with a dark head

**Milkweed:** Monarch butterflies lay their eggs only on milkweeds (genus *Asclepias*). Monarch larvae thrive on a diet of milkweed leaves, which contain a milky sap that protects monarchs from their enemies. The more milkweed there is, the more monarchs make the trip each year



**Poke milkweed** – *A. exaltata* Grows well in part to full shade



**3<sup>rd</sup> instar**, caterpillar 10-14 mm in length, distinct black and yellow bands, front tentacles reach 1.7 mm



**Butterflyweed** – *A. tuberosa* Beautiful orange blooms



**Prairie milkweed** – *A. sullivantii* Harder to establish



5<sup>th</sup> instar, caterpillar 25-45 mm in

length, pronounced yellow, white

Candy Sarikond

**Common milkweed** – *A. syriaca* Easy to plant, spreads quickly



Whorled milkweed – *A. verticillata* Small plant, good garden filler



Monarch butterfly chrysalis



Marsh milkweed – A. incarnata Recommended for moist areas

## Other things to do for pollinators

- Do not use neonicotinoids or other pesticides in your garden
- Certify your garden as wildlife habitat
- Plant season long nectar sources
- (next page) in addition to milkweeds - Provide water and shelter from wind
- Join citizen science efforts tracking the monarch's migration
- For more information, including seeds source for species on this page, visit www.monarchjointventure.org

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☆ Full sun, ☆ Part shade, ★ Shade



Nodding Wild Onion Allium cernuum 学习uly-August (18 in.)



Leadplant Amorpha canescens ₩ June-August (1-3 ft.)



Smooth Aster Aster laevis ※ ※ August-October (4 ft.)



**Big-leaved** Aster Aster macrophyllus ☆ August-October (2-3 ft.)



New England Aster Aster novae–angliae ☆☆ August-October (5 ft.)



Prairie Coreopsis Coreopsis palmata ☆ June-August (1-2.5 ft.)

Virginia Bluebells

Mertensia virginica

\*\* March-May (1.5-2 ft.)

Black-Eyed Susan

Rudbeckia hirta

茶茶 May-October (2-3 ft.)



Echinacea pallida ※ × June-July (3 ft.)



Pale Coneflower





☆☆ June-October (2.5-4 ft.)



Wild Petunia Ruellia humilis ☆☆ June-August (1 ft.)



Sundrops Oenothera spp ☆★ May-September (1-4 ft.)



Culvers Root Veronicastrum virginicum ☆☆ June-August (5 ft.)





Marsh Blazing Star Liatris spicata ☆☆ June-September (5 ft.)



Grey Headed Coneflower Ratibida pinnata 🔆 🔆 July-October (4 ft.)



Zig zag goldenrods Solidago flexicaulis \* August-October (2-3 ft.)

Mountain Mint Pycnanthemum virginianum 茶茶 June-October (3 ft.)



Ironweed Vernonia fasciculata 茶芽July-October (3-5 ft.)









