

About Us

Project in progress,
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Projects in progress:

Monarch Butterfly Waystation

For this project we partnered up with Monarch Watch

(<https://www.monarchwatch.org/>)



Our Habitats 'Royal Garden' milkweeds

Free milkweed seeds available every spring, pre-order in our online store for 2023





<https://monarchwatch.org/blog/>



Monarch Waystation
Program



Create, Conserve, & Protect
Monarch Habitats
monarchwatch.org

MONARCH BUTTERFLY: TOP TEN FACTS

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MIGRATION

Hundreds of millions of monarch butterflies migrate from eastern North America to Mexico each fall to overwinter in the high elevation oyamel fir forests of the Transvolcanic Range of central Mexico. Monarchs are unable to survive freezing temperatures and those breeding in temperate regions must escape to moderate climates to reproduce the next season.

GENERATIONS

Most of the monarchs joining the migration each fall are 3-4 generations removed from those that made the journey the previous year.

TIME AND DISTANCE

The migration begins in mid August in the north and in September at mid latitudes. The migration progresses at a pace of 25-30 miles per day, although individual butterflies often fly



further during periods when conditions are favorable. Most monarchs originate from locations more than 1500 linear miles from the overwintering sites. The duration of the migration appears to be 2-2.5 months.

RECOLONIZATION OF THE SUMMER BREEDING AREAS

The monarch breeding areas in eastern North America are recolonized by two generations of monarchs; the overwintering butterflies that move north in the spring and their offspring. The latter reach maturity and begin flying N/NE in late April, reaching the northern limits of milkweeds by mid-June.

LONGEVITY

Migratory monarchs that survive the winter in Mexico are 8-9 months of age and may be the longest lived of all butterflies. In contrast, reproductive monarchs breeding during the summer months only live 2-5 weeks due to the high cost of reproduction.

NUMBERS

Monarch populations are measured as the number of hectares (1 hectare = 2.47 acres) of trees occupied by clustering butterflies in mid-December of each year. The size of the population has varied from 2.19 to 18.2 hectares over the last two decades; averaging close to 9 hectares in the 90s and between 5-6 hectares in this decade.

NAVIGATION

Migrating monarchs in the interior of the continent fly in directions that seem to be geographically appropriate given the need to reach Mexico. How the butterfly determines these directions is the unanswered navigation question. Components of the navigational system that are known involve a time-compensated sun compass linked to the circadian clock, and a protein (Cry1) that is sensitive to blue light and ultraviolet wavelengths.

TAGGING

Tagging by Monarch Watch volunteers has helped define the migration window as well as the timing and pace of the migration. Tagging also shows that the probability of reaching Mexico is related to geographic location, size of the butterfly, and the date (particularly as this relates to the migration window for a given location).

DIMINISHING RESOURCES: THREATS TO THE MONARCH MIGRATION

During the breeding season monarchs require milkweed plants upon which to rear their larvae and nectar sources to sustain the adults during reproduction. Nectar sources are also required by the butterflies to fuel the fall migration to Mexico as well as the spring flights northward. Overwintering monarchs require shelter and water. All of these resources are diminishing. Deforestation at the overwintering sites in Mexico has eliminated a number of former colony sites and others have been badly degraded so as to reduce the shelter and water available to wintering butterflies. In the United States, 6000 acres are converted to development each day, eliminating milkweeds needed by monarch larvae and nectar sources required by adult



monarchs. Chemically intensive agriculture and roadside management by excessive mowing and use of herbicides have also eliminated monarchs and their milkweed hosts. Lower numbers of overwintering monarchs in this decade may be related, at least in part, to habitat loss.

CONSERVATION

Sustaining the monarch migration will require the cooperation of all three countries (U.S.A., Canada, Mexico) that are home to monarchs for some portion of the year. Future efforts will be based on the "North American Monarch Conservation Plan" - a program that advocates the implementation of measures to enhance, restore, and protect monarch habitats.

The Honeysuckle Hummingbird project



Credit/reference: <https://garden.org/plants/view/640165/Honeysuckle-Lonicera-periclymenum-Scentsation/>



Last year we found a honeysuckle baby plant. We planted it, watered it, nurtured it, and the plant took roots throughout the year. This year is the first year of our honeysuckle blooming. The flowers smell absolutely amazing, and are so pretty. The flowers have a short life cycle from the moment of bloom, and the children are observing the flowers starting to bloom white, then within one or two days, the flowers turn yellow. We are making a ton of baby plants, and spreading them around to friends, family, neighbors, and are for sale in our online store for non profit prices.





Realized Goals:

Project fruit:

Last year we had our ground cherries for the first year, we planted our berry lane, and added blueberry, and currant bushes.



This year we realized the purchase of Russian white, and trader black mulberry trees, and as we did not have our strawberries survive the winter, and growing them from seed is a serious challenge (for me), we also replaced our plants with some seascape strawberries.





Companion planting project:



In progress, updates are on the way!



Future ambitions:

Native gardening project:

Planting pawpaw trees



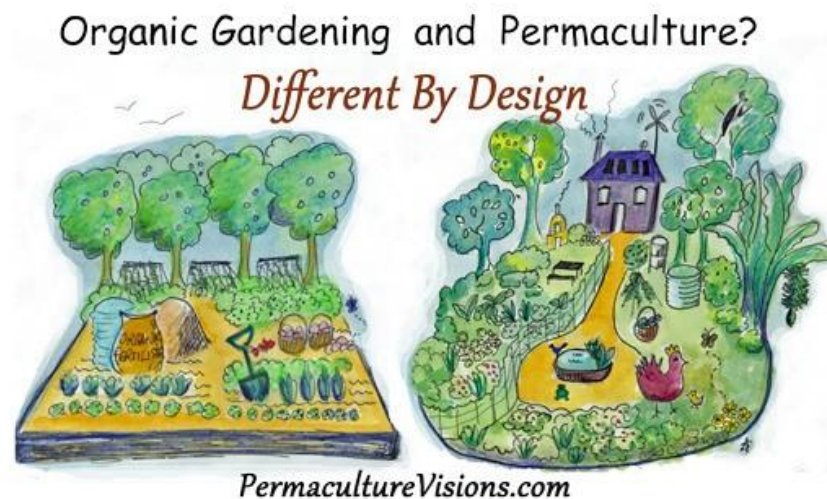
Credits/reference: <https://edibletoronto.ediblecommunities.com/eat/hunting-pawpaw>



Adding a Bug hotel,



Start project perma gardening:



Credits/reference:

<https://permaculturevisions.com/the-difference-between-organic-gardening-and-permaculture/>



Project worm composting, upwards migration.



Credits/reference: <https://learn.eartheasy.com/articles/worm-composting-basics-for-beginners/>

