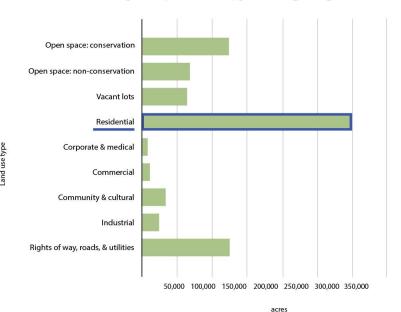
Field Museum Monarch Community Science



Does Nature Need Cities?

Plantable space by land use type: Chicago Region



*Agricultural land removed



Urban Residential Milkweed Gardens

















Community Science



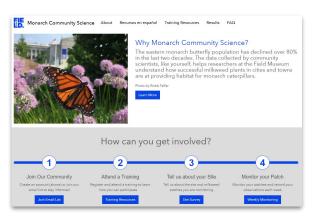
Monarch Community Science Report

EGGS OBSERVED

CATERPILLARS OBSERVED

SUMMER 2019 - PILOT YEAR

COMMUNITY DESILITS







1st Insta

Neither the front nor back tentacles are fully visible to the naked eye.
 Newly hatched caterpillars are a faint pale green or white in color.



.....

- The front tentacles now resemble nodes, while the back tentacles



The white, black, and yellow banding is now clearly visible.



rd Instant

The front tentacles now almost extend to the face.
 The banding is now darker and more distinct.

The banding is now darker and more distinct



th Instar

- The front tentacles now extend past the face.

The banding pattern on the front of caterpillar has continued to darken.



5th Instar

The front tentacles are about twice as long as a 4th instar

The coloring is more vivid and the black bands become almost velvety

 The coloring is more vivid and the black bands become almost velvely in texture.

- They also feed at a much faster pace on milkweed.



Visit bit.ly/monarchmonitors for additional project resources and further information.



Dear Monarch Enthusiasts and Monitors,

It's been another great start to data collection this year from our participants! Since the start of the season, **94 sites** have been submitted and participants have monitored over **200 times**, recording **176 aggs and 78 caterpillars**. No chrysalises have been seen yet but at least **6** participants have seen an **adult monarch fulter** by

It's not too late

If you haven't started monitoring yet, don't worrn, it's not too late to start. Once you've submitted your Side and Patches Survey, check your email for yourr customized links to submit your weekly data for the patch(es) you are monitoring. Every time you usbmit the weekly patch survey, you will receive an email with a summary of your observations and a link to use for submitting your next week's data. You will also receive a reminder email 6 days after your last observation.



Plant giveaway recap

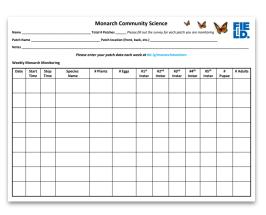
Thank you to all those who came out for one of our plant giveaways at the beginning of June. We had over 150 people attend and we handed out 401 milkweed plants and 390 other native plants.

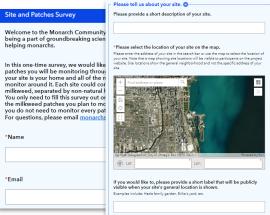
We really enjoyed meeting many of you in person, answering garden questions and getting more milkweed out into yards around the city.





Community **Science**



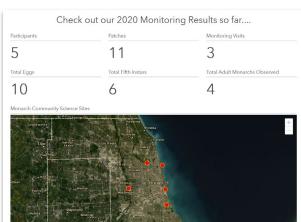


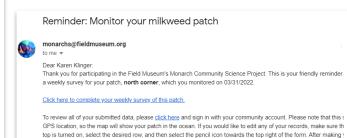
the **Submit** button to save your changes.

Please email us if you have any questions. Thanksl

Monarch Community Science Team

Weekly Patch Survey	Tell us about the first milkweed species in your patch. *Please select your milkweed species.
Welcome to the Monarch Community Science Pr being a part of groundbreaking science to show helping monarchs.	-Please Select-
	Common Milkweed (Asclepias syriaca)
In this survey, we would like you to tell us about monitoring this week. Please fill out this survey f	Butterfly Milkweed (Asclepias tuberosa) efault value is your last plant count. Please changed. This number will likely change
week. If you have used the emailed survey link, r (including patch name, milkweed species, and n plants) will automatically be filled in based on yo	Swamp Milkweed (Asclepias incarnata)
Please make sure to fill in any remaining fields on umber of plants) if there are any changes. For q monarchs@fieldmuseum.org.	Whorled Milloweed (Asclepias
monarchs@netumuseum.org.	Did you count any eggs?*
*What is the name of your patch?	
Please make sure you are consistent with how the patch is name	Yes
	O No
*What day did you monitor?	*How many eggs did you count?
m/d/yyyy	₩2°





Abigail Derby Lewis



Participation and Retention

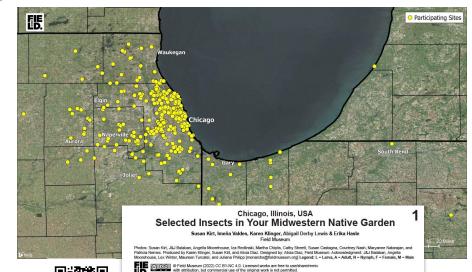
- 410 Participants submit 428 Sites
- 100 Participants & Sites returned
- Avg weeks monitored: 4.66 8.125
- **5,900** Monitoring observations
- 1,600 Photos received













Each section of this guide highlights a different group of insects or spiders commonly found in midwestern gardens. While this is not an exhaustive list of insects, it is intended to spark your curiosity to find examples in your garden. In the references, we provide suggestions for other sources of identification information. Taking a photo and posting it to iNaturalist is also a good way to get your

YOUR MIDWESTERN NATIVE GARDEN Native plant gardens attract a host of native and non-native wildlife. Most of the images in this guide were captured in and

around the Chicago area and were supplied by local gardeners and nature enthusiasts, just like you! Gardens change throughout the day and over the course of the season: he sure to note how your garden changes week to week.



landscape over thousands of years. These plants have unique relationships with local wildlife and some. like milkweed, are host species, meaning they are the only food source for part of the nsect's life. Milkweed plants are the host species for monarch butterfly caterpillars. If you have milkweed in your garden, consider reporting your sightings to our Monarch Community Science Project (bit.ly/monarchmonitors). Milkweed is also home to a wide range of other species. See if you can spot them this year!









Eggs and Caterpillars















Garden Characteristics

















Key Takeaways

- Reduce barriers
 - Free plants, Training, Data entry
- Engage participants
 - Newsletters, Emails, Celebrations
- Collect data
- Time and teamwork
- Sharing results







