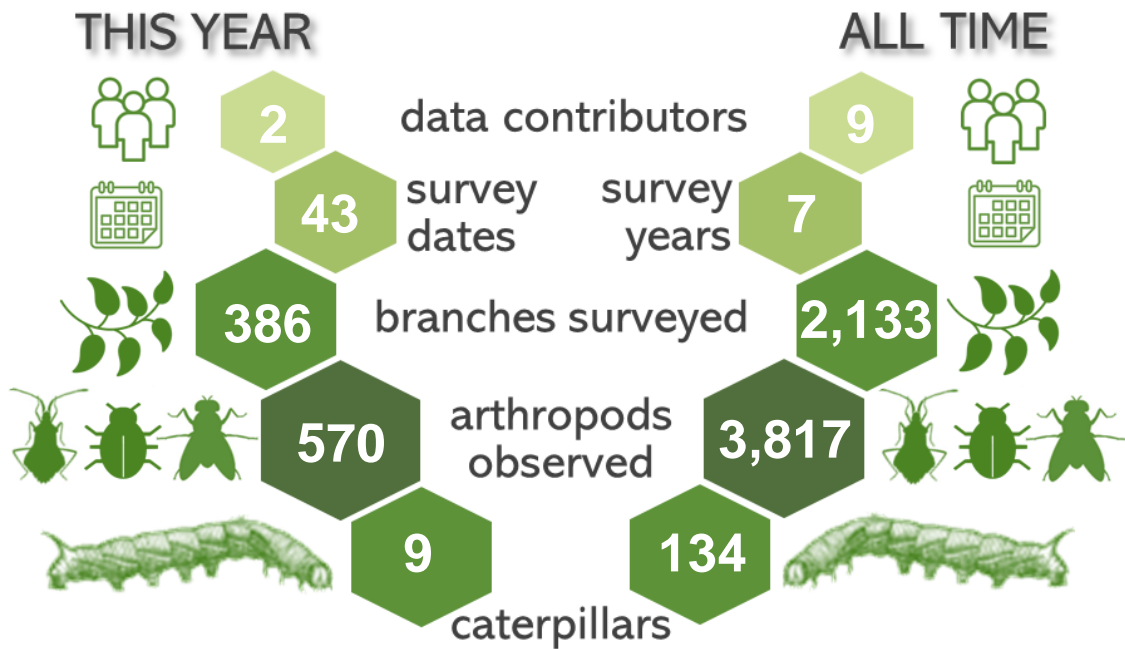




Walker Nature Center, 2024 Summary



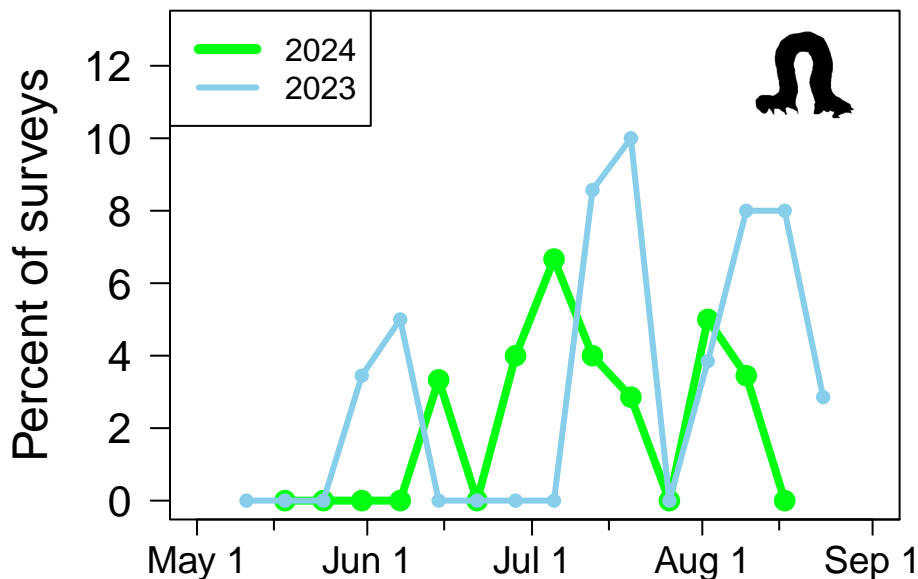
The **386** total surveys conducted at **Walker Nature Center** this year ranks **14th** out of the **78** sites that participated in 2024.

Top Participants of 2024

User	Surveys	Arthropods	Caterpillars	% Caterpillars
A Stocking	15	35	1	6.67
D CSB	371	535	8	1.89

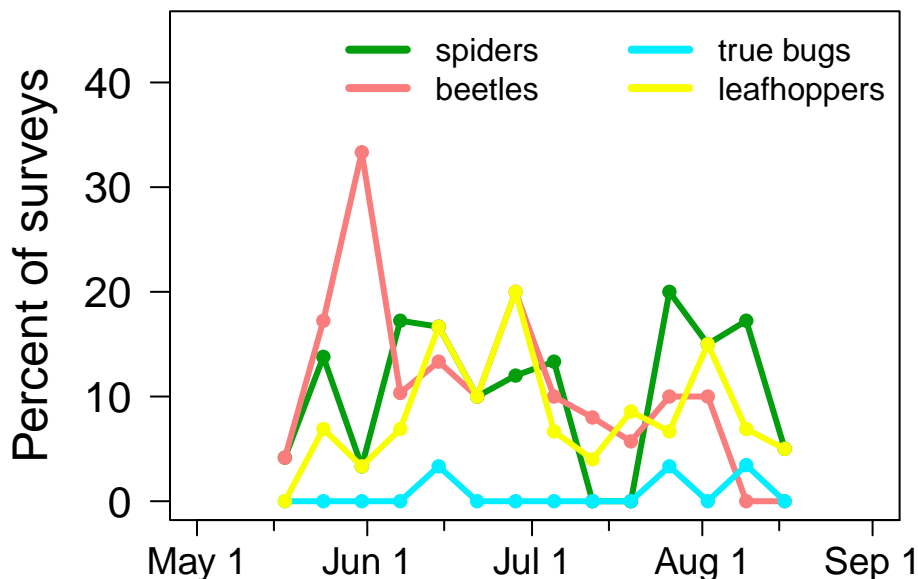
Caterpillar Phenology

As a major source of food for nestlings of migratory birds, we are especially interested in the timing of caterpillar availability. At **Walker Nature Center** in **2024**, caterpillar occurrence peaked at **6.7%** of surveys on **4 July**. Do you see other peaks as well? How does the pattern compare to the previous year?



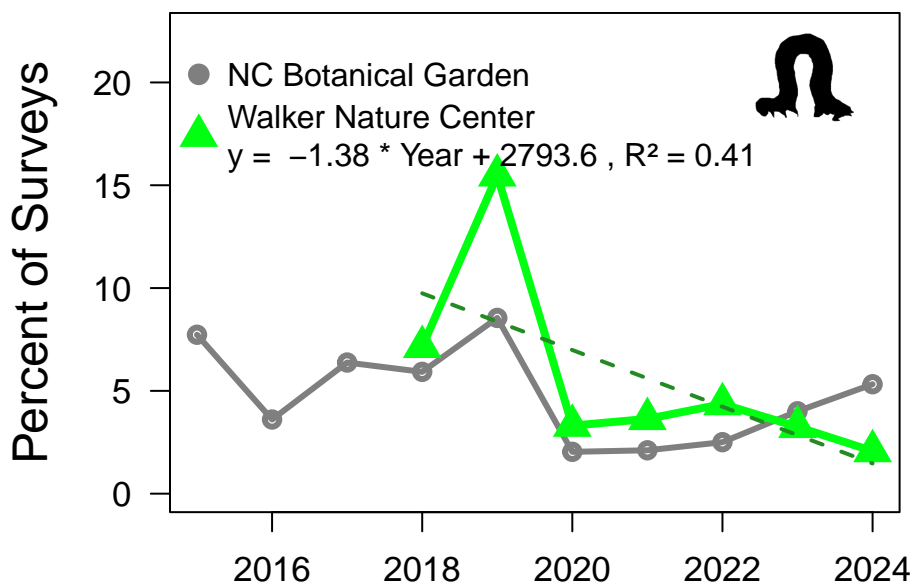
Other Arthropod Phenology

While caterpillars tend to have pronounced seasonal peaks, other groups are more variable. What patterns do you see below for **2024**? You can explore the phenology of other groups on the ***Caterpillars Count!*** website.



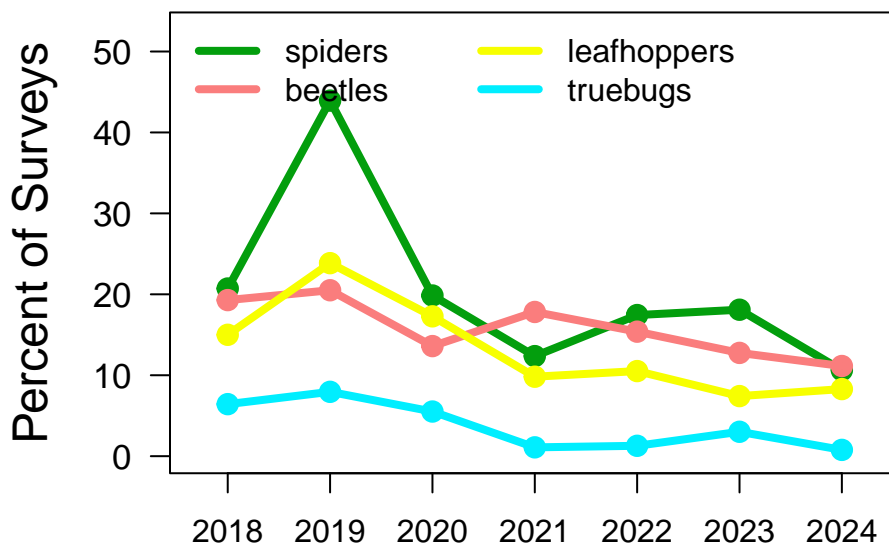
Arthropod Trends

Annual monitoring is critical for assessing the health of ecosystems and evaluating the impacts of environmental change that may be happening in your area. There have been worrying reports of insect declines around the world but there is much we don't know, so your efforts help to fill in pieces of the puzzle. Keep it up!



Above you can see how the proportion of surveys with caterpillars has varied over time at your site, with the trend for one of our flagship sites, **NC Botanical Garden**, for comparison. If you've surveyed for at least 3 years, then you will also see the average dashed trend line displayed.

Below are trends for some other common arthropod groups. Do the different groups go up and down in sync, or seem to vary independently?

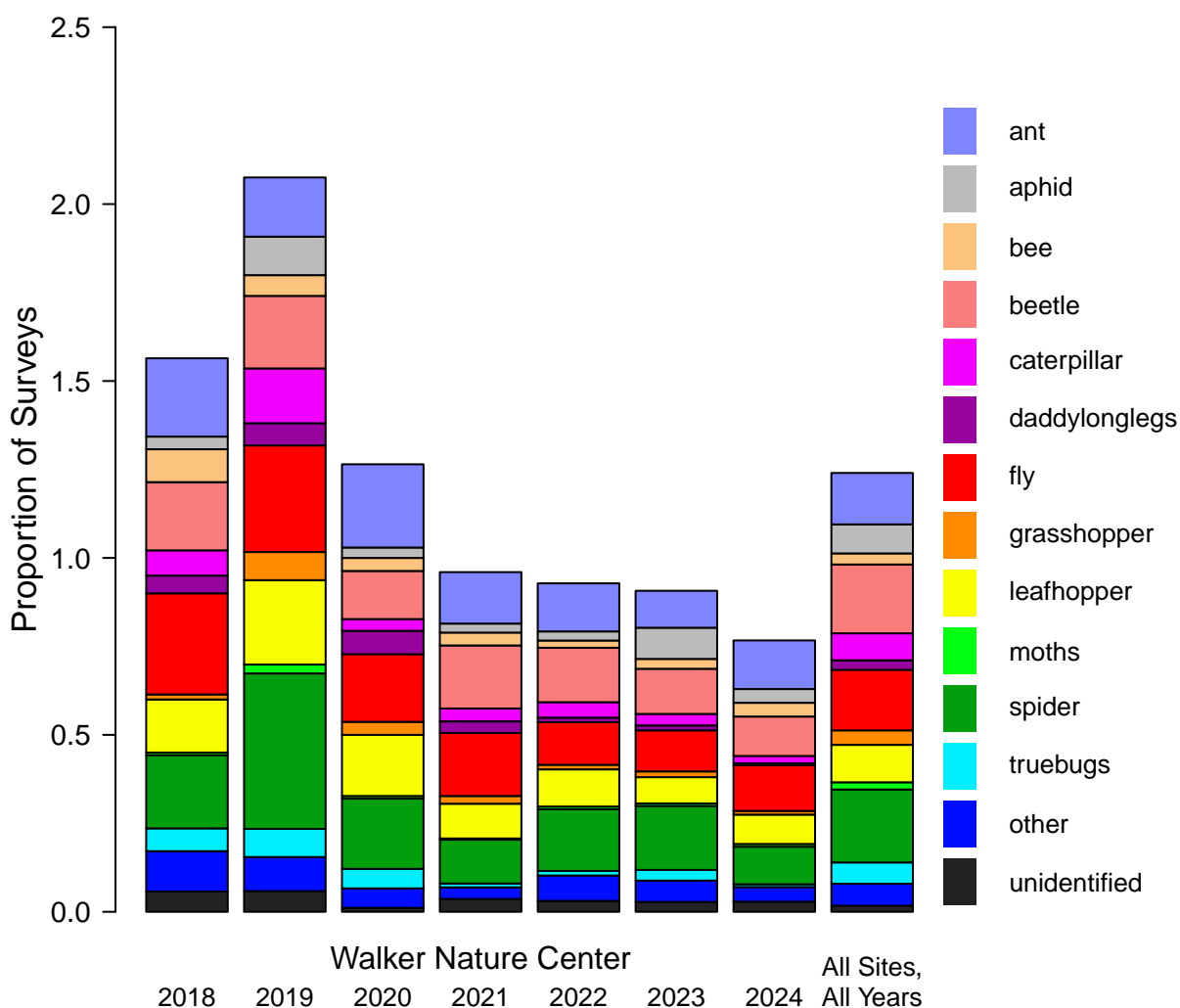


You can explore trends for more arthropod groups, and compare trends at different sites, on your site's **Trends Page**. See also our **November 2021 newsletter** for more on how to interpret these trends.

Site Arthropod Composition

Some arthropods are more commonly encountered than others. The graph below portrays the occurrence (proportion of surveys where a given group was found) for each arthropod group found at your site. See how what was found varies by year (if the site has been participating for multiple years), and how it compares to what has been found across all sites in the **Caterpillars Count!** network (*right bar*).

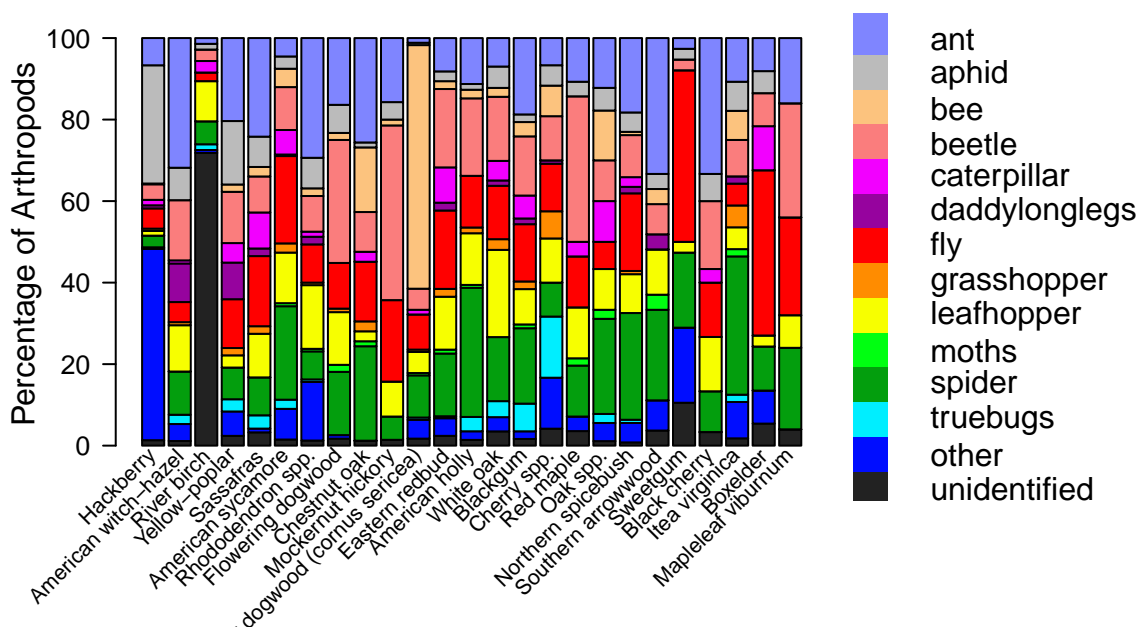
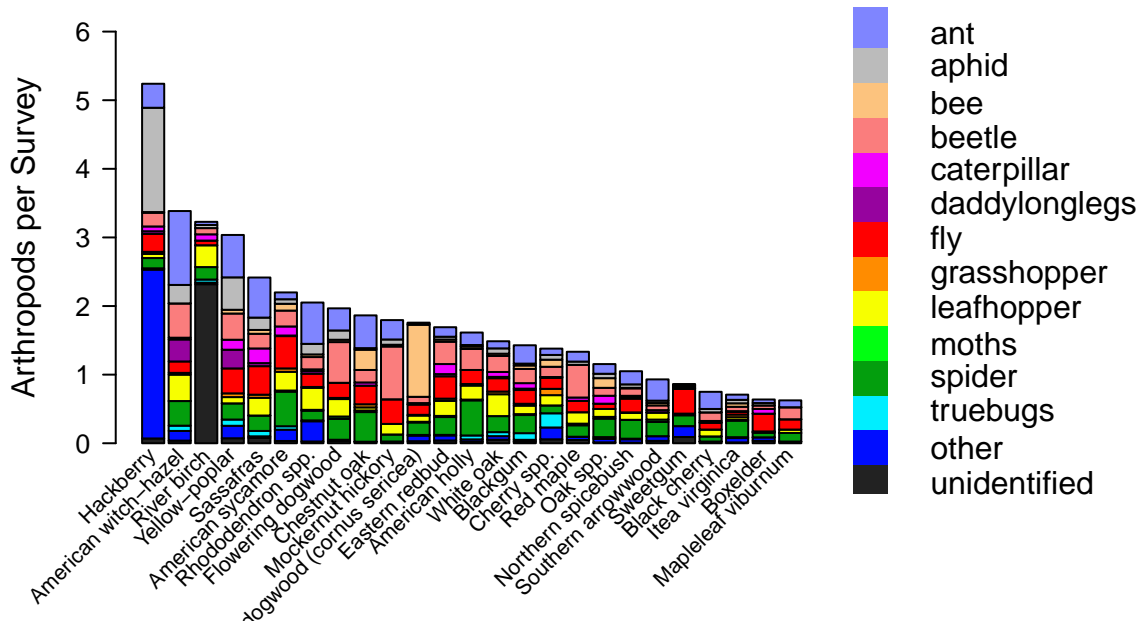
- What are the most common arthropod groups found at your site?
- Has that varied by year?
- Is anything noticeably different about **Walker Nature Center** compared to all other participating sites?
- If arthropod photos were submitted as part of your site's surveys, check the last section of this report for a summary of any finer taxonomic id's that have been made.



Arthropod Composition by Plant Species

For some arthropods like spiders, trees and leaves are merely habitat—a place where they live, hide, and hunt. For others like caterpillars, the leaves are not just habitat, but also food.

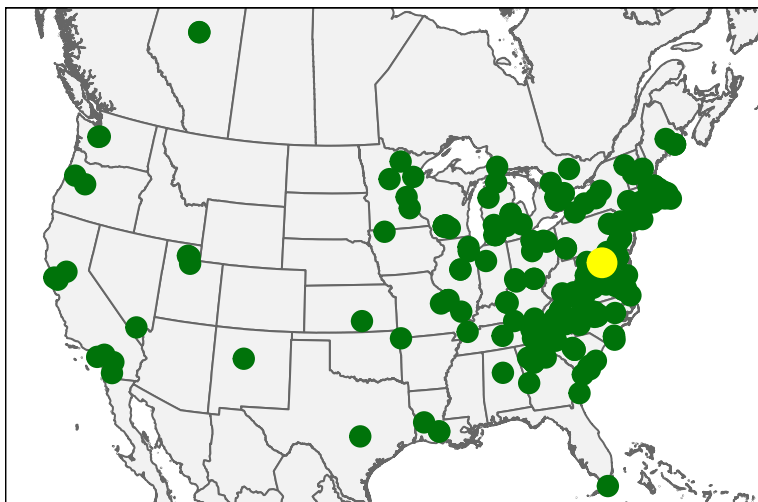
- Which plant species supports the most arthropods per survey?
- Which plant species supports the most **caterpillars**?
- Are any plant species dominated by just one or two types of arthropods?
- Or do they support a diversity of arthropod types?



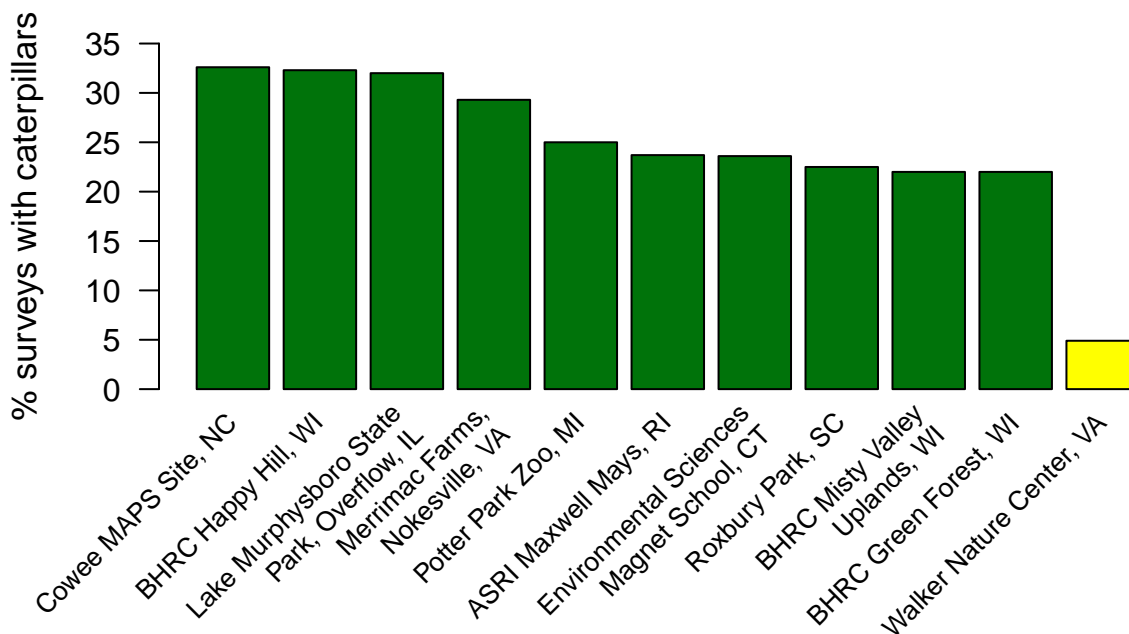
This bottom panel shows, of the arthropods found on a given plant species, what proportion were from each taxonomic group. At most, only the top 25 plant species are shown.

Broader Patterns

Thanks to participants like yourself, **Caterpillars Count!** observers have now submitted a total of **310,306** arthropod observations—including **20,843 caterpillars**—from **257** different sites.



Across all surveys ever done at **Walker Nature Center**, caterpillars have been found **4.9%** of the time, which ranks **103rd** across the **189** sites with ≥ 20 surveys. The top 10 sites are shown for comparison.



Caterpillar occurrence and phenology vary as a function of climate, land cover, tree species, and other local factors, and **your data** are helping us understand this variation and what it might mean for birds. Thank you for participating in **Caterpillars Count!**

Expert Identifications

815 photo observations from **Caterpillars Count!** surveys have been submitted from your site which ranks **8th** out of the **177** sites with photos. You can check them all out at the site's **iNaturalist page**. Based on these photo observations, experts on **iNaturalist** have identified the following taxa, including at least **73** unique species. Taxa seen for the first time this year are marked with a *.

Caterpillars

Depressariidae

Machimia tentoriferella

Erebidae

Zale sp.

Halysidota harrisii

Halysidota tessellaris

Hyphantria cunea

Orgyia leucostigma

Geometridae

Ennomos subsignaria

Noctuidae

Acronicta americana

Acronicta retardata

Notodontidae

Misogada unicolor

Nadata gibbosa

Nymphalidae

Polygonia interrogationis

Saturniidae

Anisota senatoria

Moths, Butterflies

Erebidae

Halysidota harrisii*

Halysidota tessellaris*

Limacodidae

Euclea delphinii*

Spiders

Anyphaenidae

Anyphaena sp.*

Wulfila albens

Araneidae

Mangora sp.

Metopeira labyrinthica

Araneus niveus

Micrathena gracilis

Micrathena mitrata

Verrucosa arenata

Dictynidae

Philodromidae

Philodromus marxi

Pisauridae

Dolomedes sp.

Salticidae

Colonus sp.

Hentzia sp.

Lyssomanes viridis

Tetragnathidae

Leucauge venusta

Tetragnatha sp.

Theridiidae

Theridion sp.

Spintharus flavidus

Thomisidae

Misumessus oblongus

Synema parvulum

Grasshoppers, Crickets

Oecanthidae

Oecanthus niveus*

Neoxabea bipunctata*

Trigonidiidae

Anaxipha sp.

True Bugs

Coreidae

Miridae

Hyaliodes harti

Nabidae

Lasiomerus sp.

Reduviidae

Pselliopus barberi

Zelus luridus

Tingidae

Corythucha sp.

Leafhoppers, Cicadas

Acanaloniidae

Acanalonia conica

Cercopidae

Prosapia bicincta

Cicadellidae

Erythroneura bistrata

Jikradia olitoria

Paraulacizes irrorata

Cicadidae

Magicicada septendecim

Cixiidae

Haplaxius sp.

Derbidae

Otiocerus wolfii

Flatidae

Flatormenis proxima

Metcalfa pruinosa

Ormenoides venusta

Membracidae

Enchenopa binotata

Platycotis vittata

Mymaridae

Enchenopa sp.

Aphids, Scales

Aphididae

Shivaphis celti

Beetles

Anthicidae

Macratia sp.

Buprestidae

Cantharidae

Rhagonycha angulata

Coccinellidae

Harmonia axyridis

Curculionidae

Anthonomus sp.

Cyrtopistomus castaneus

Elateridae
 Limonius sp.
 Megapenthes limbalis
 Erotylidae
 Triplax sp.
 Lampyridae
 Photuris sp.
 Photinus pyralis
 Lycidae
 Melandryidae
 Microtonus sericans*
 Mordellidae
 Mordella marginata
 Ptilodactylidae
 Tenebrionidae
Bees, Wasps
 Apidae
 Bombus sp.
 Braconidae*
 Ichneumonidae
 Tenthredinidae
 Caliroa liturata
 Caliroa quercuscoccineae
 Macremphytus testaceus
 Choreutidae*
Ants
 Formicidae
 Formica fusca
 Camponotus castaneus
 Camponotus chromaiodes
 Camponotus subbarbatus
 Prenolepis imparis*
 Tapinoma sessile*
 Temnothorax curvispinosus*
Flies
 Chironomidae
 Culicidae

Aedes triseriatus
 Dolichopodidae
 Condylostylus caudatus
 Lauxaniidae
 Homoneura sp.
 Minettia sp.
 Neogriphoneura sp.*
 Micropezidae*
 Pallopteridae
 Toxonevra superba
 Rhagionidae
 Chrysopilus thoracicus
 Syrphidae
 Eupeodes pomus
 Toxomerus geminatus
 Tipulidae
 Rhabdophoridae

Mystacides sepulchralis

Other observations

Collembola
 Tomoceridae
 Isopoda
 Philoscia muscorum
 Neuroptera
 Chrysopidae
 Leucochrysa
 Micromus
 Opiliones
 Leiobunum
 Leiobunum vittatum
 Polydesmida
 Oxidus gracilis
 Paradoxosomatidae*
 Psocodea
 Polypsocus corruptus*
 Stylommatophora
 Arion
 Trichoptera

Thank you for participating in **Caterpillars Count!** For a more in-depth exploration of the data check out our **Maps & Graphs page**. The raw data from your site, or any site, can be downloaded **here!**

We can't wait to see what you find next year!



Maple dagger caterpillar, *Acrionicta retardata*, observed by *margiemcchemp* on July 2, 2024 at **ASRI Fort**, Rhode Island.

Allen Hurlbert

Director

Caterpillars Count!

caterpillarscount@gmail.com