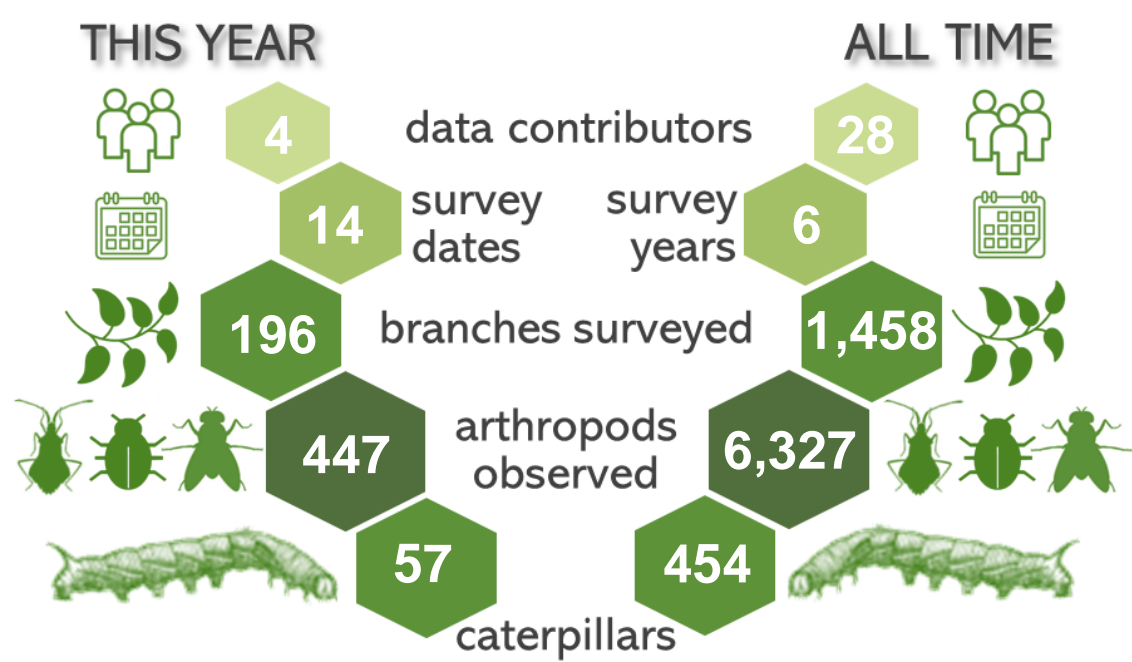




EwA at the Fells, 2024 Summary



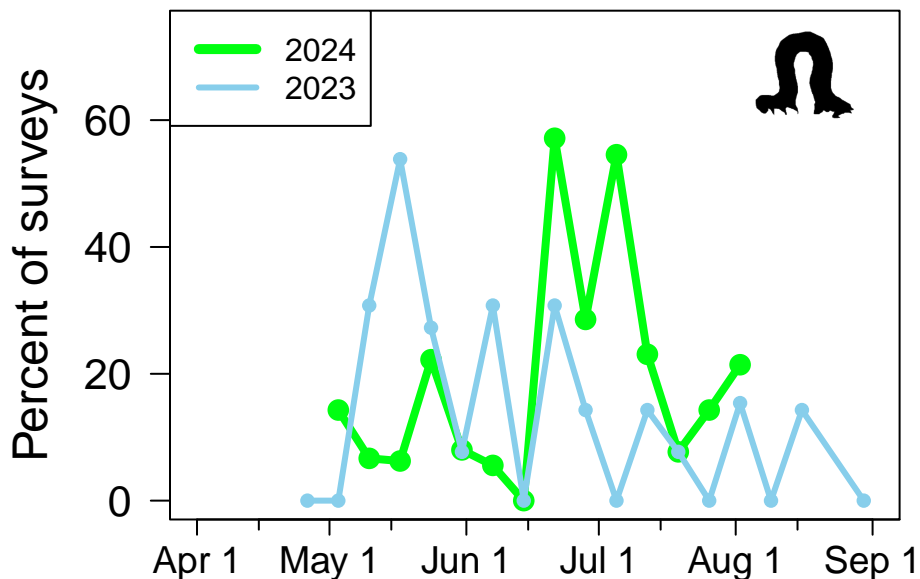
The **196** total surveys conducted at **EwA at the Fells** this year ranks **36th** out of the **78** sites that participated in 2024.

Top Participants of 2024

User	Surveys	Arthropods	Caterpillars	% Caterpillars
C O'NEILL	27	81	18	33.33
K Shea	102	281	28	16.67
L DiRocco	39	43	8	15.38
Y Liu-Constant	28	42	3	10.71

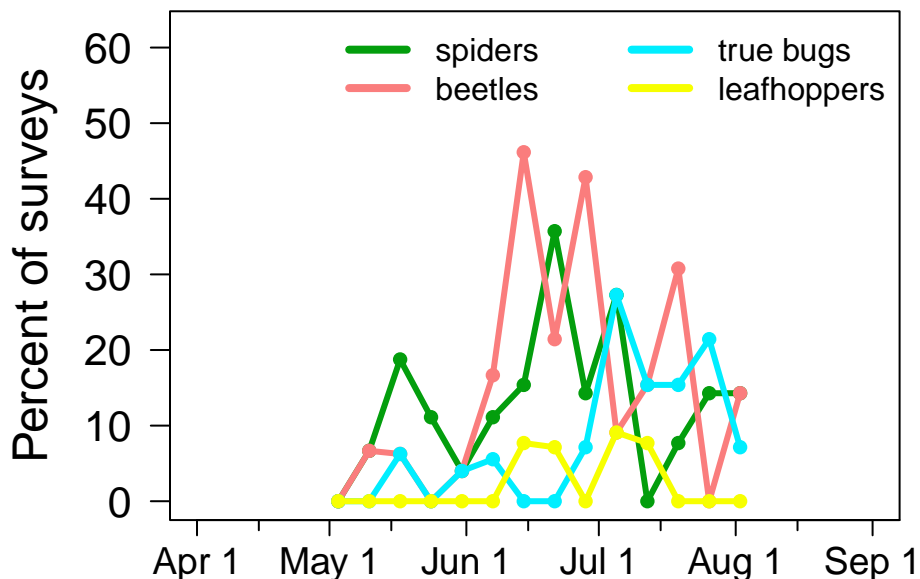
Caterpillar Phenology

As a major source of food for nestlings of migratory birds, we are especially interested in the timing of caterpillar availability. At **EwA at the Fells** in **2024**, caterpillar occurrence peaked at **57.1%** of surveys on **20 June**. Do you see other peaks as well? How does the pattern compare to the previous year?



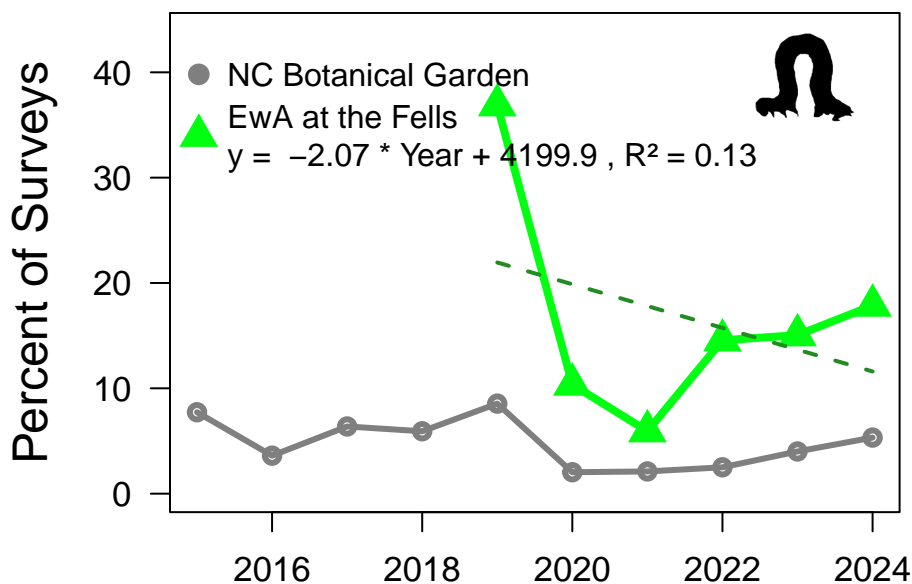
Other Arthropod Phenology

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.



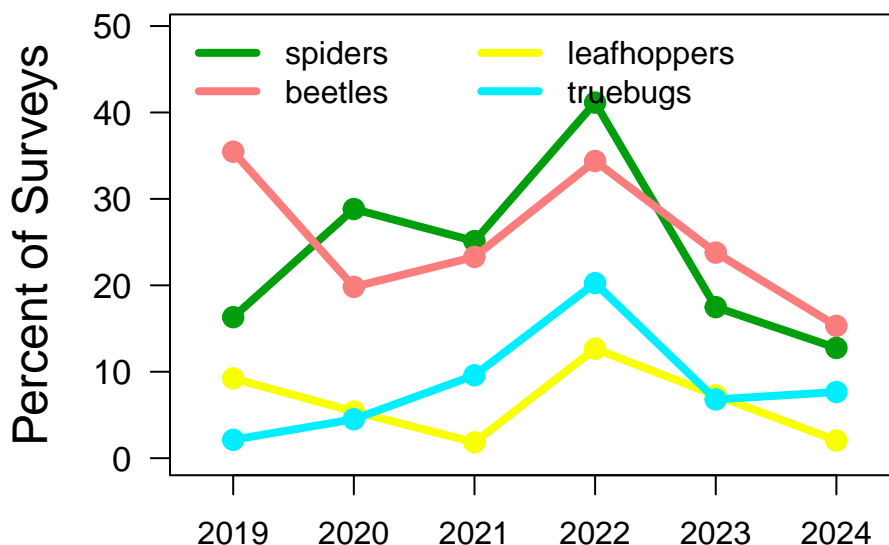
Arthropod Trends

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?

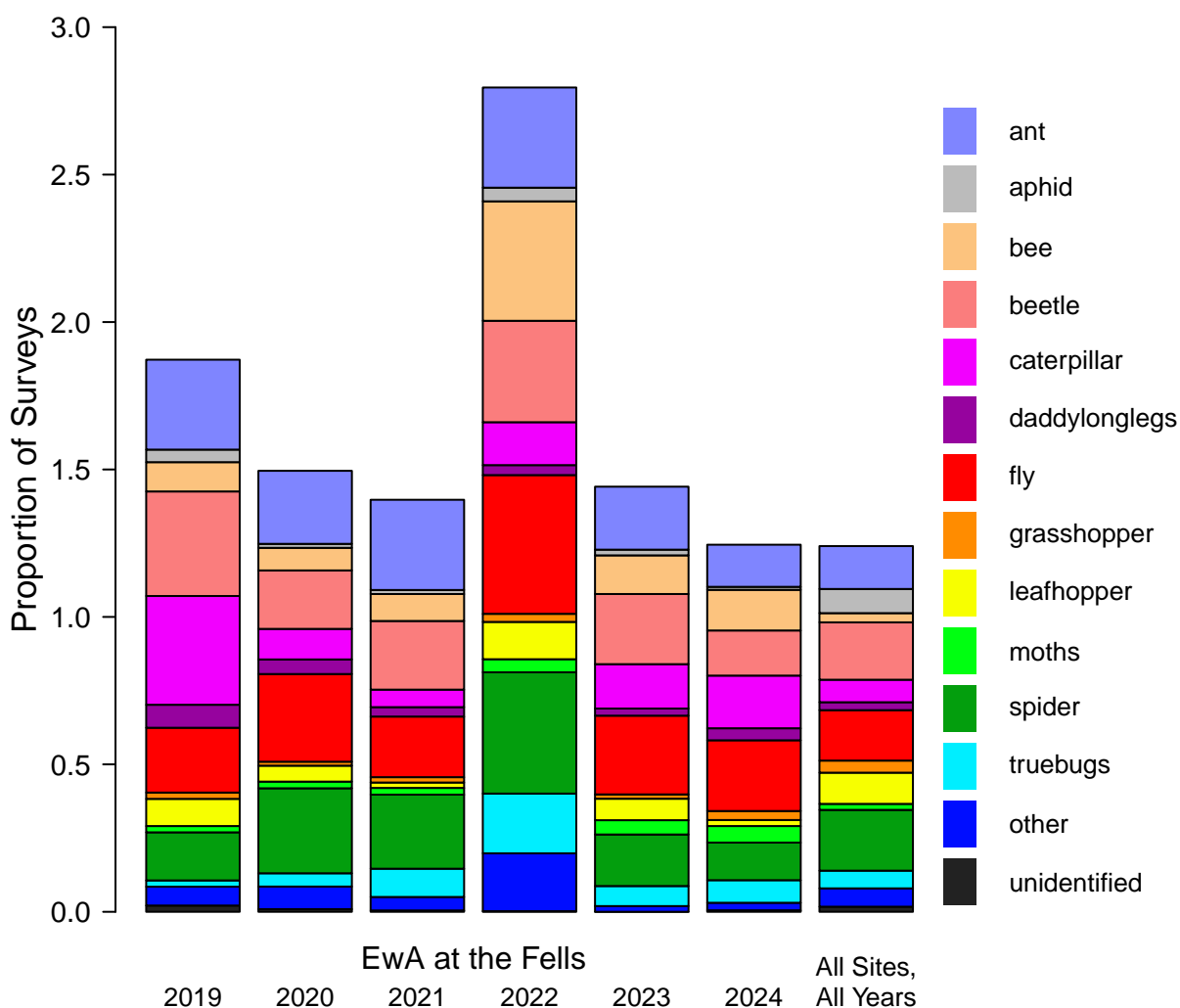


You can explore trends for more arthropod groups, and compare trends at different sites, on your site's **Trends Page**. See also our **November 2021 newsletter** for more on how to interpret these trends.

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*).

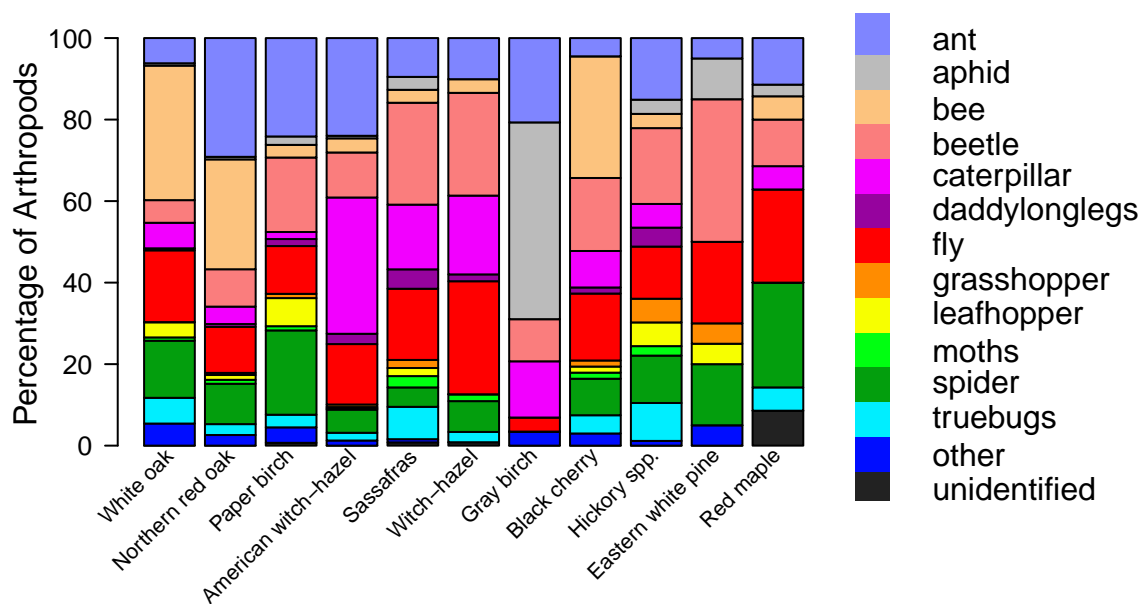
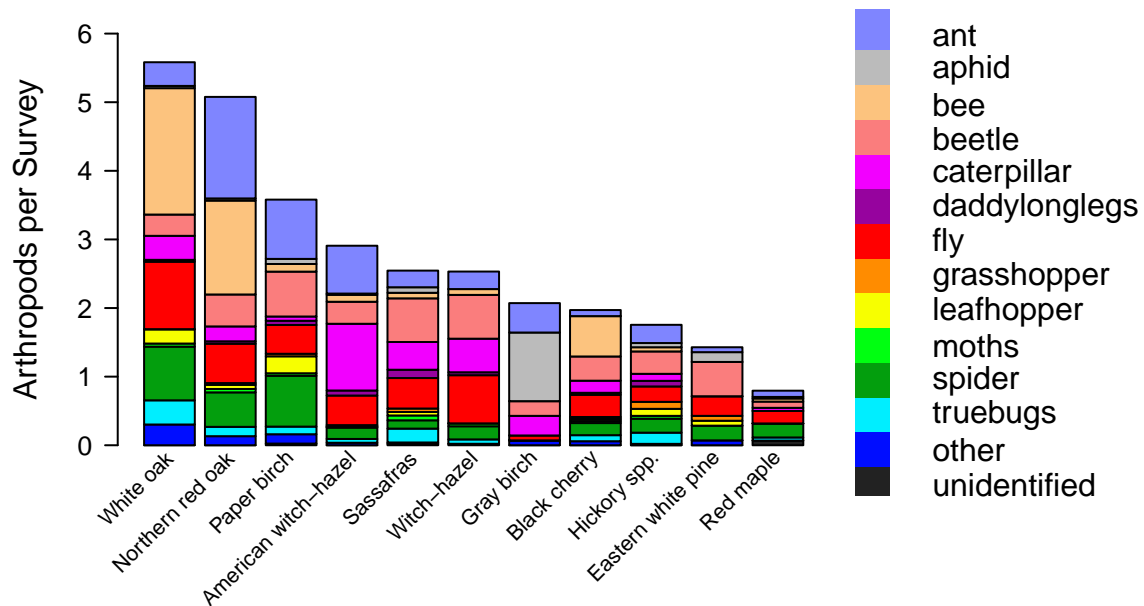
- What are the most common arthropod groups found at your site?
- Has that varied by year?
- Is anything noticeably different about **EwA at the Fells** compared to all other participating sites?
- If arthropod photos were submitted as part of your site's surveys, check the last section of this report 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.

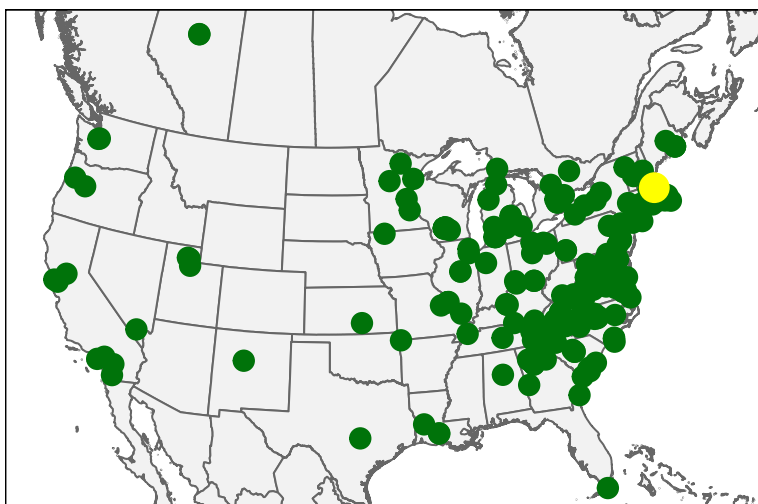
- Which plant species supports the most arthropods per survey?
- Which plant species supports the most **caterpillars**?
- Are any plant species dominated by just one or two types of arthropods?
- Or do they support a diversity of arthropod types?



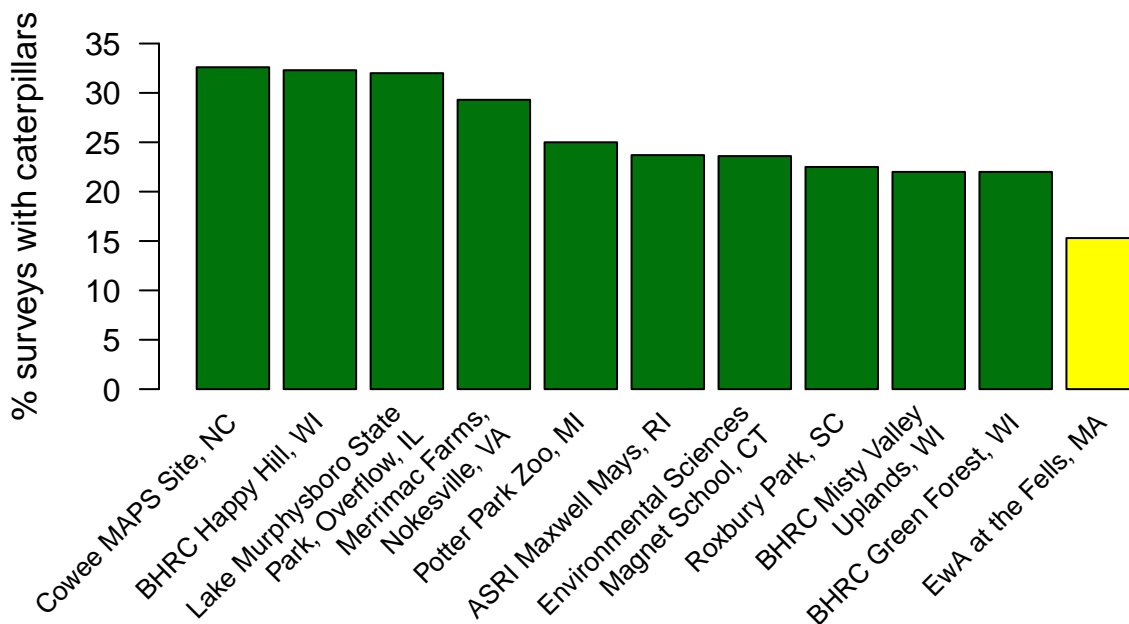
This bottom panel shows, of the arthropods found on a given plant species, what proportion were from each taxonomic group. At most, only the top 25 plant species are shown.

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 **EwA at the Fells**, caterpillars have been found **15.3%** of the time, which ranks **32nd** 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

2,690 photo observations from **Caterpillars Count!** surveys have been submitted from your site which ranks **2nd** 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 **90** unique species. Taxa seen for the first time this year are marked with a *.

Caterpillars

Depressariidae

*Antaeotricha schlaegeri**

Machimia tentoriferella

Erebidae

Halysidota tessellaris

*Hyphantria cunea**

Lymantria dispar

Gelechiidae

*Arogalea cristifasciella**

Geometridae

Gracillariidae

Cameraria sp.

Phyllonorycter basistrigella

*Caloptilia paradoxum**

Noctuidae

Acronicta increta

*Acronicta lithospila**

Feralia sp.

Pyreferra sp.

Amphipyra pyramidoides

Morrisonia latex

Notodontidae

*Cecrita guttivitta**

Heterocampa obliqua

Nadata gibbosa

Psychidae

Psyche casta

Sphingidae

Paonias excaecata

Tischeriidae

Coptotriche badiella

Moths, Butterflies

Gelechiidae*

Geometridae

Gracillariidae

Marmara sp.

Phyllocnistis sp.

Oecophoridae

Mathildana newmanella

Promalactis suzukiella

Psychidae

*Psyche casta**

Tortricidae

Olethreutes fasciatana

Argyrotaenia alisellana

Spiders

Agelenidae

Anyphaenidae

Anyphaena sp.

Wulfila sp.

Araneidae

Araniella displicata

Mastophora sp.

Dictynidae

Emblyna sp.

Hahniidae

Linyphiidae

Florinda sp.

Pityohyphantes sp.

*Nerienne radiata**

Mimetidae

Mimetus sp.

Philodromidae

Philodromus sp.

Salticidae

Hentzia mitrata

Synemosyna formica

Tetragnathidae

Tetragnatha sp.

Leucauge venusta

Theridiidae

Theridion sp.

Parasteatoda tepidariorum

Thomisidae

Misumessus oblongus

Grasshoppers, Crickets

Acrididae

Melanoplus sp.

Gryllidae

Hapithus saltator

Oecanthidae

Oecanthus sp.

Tettigoniidae

Scudderia sp.

Meconema thalassinum

True Bugs

Lygaeidae

Kleidocerys sp.

Miridae

Hyaliodes harti

Neolygus sp.

Neurocolpus sp.

Phytocoris sp.

Pentatomidae

*Dendrocoris humeralis**

Phymatidae

Phymata sp.

Reduviidae

Zelus luridus

Tingidae

Corythucha sp.

Leafhoppers, Cicadas

Acanaloniidae

Acanalonia conica

Cicadellidae

Eratoneura sp.

Jikradia olitoria

Ossiannilssonola australis

Rugosana querci

Derbidae

Cedusa sp.

Membracidae

Aphids, Scales

Aphididae

Beetles

Aderidae

Syzeton subfasciatus

Anthribidae

Artematopodidae

Attelabidae

Synolabus bipustulatus

Buprestidae

Agrilus sp.

Brachys aeruginosus

Brachys ovatus

Cantharidae

Podabrus sp.

Rhagonycha angulata

Tytthonyx erythrocephala

Cerambycidae

Strangalia famelica

Chrysomelidae

Systema sp.

Baliosus nervosus

Cleridae

Phyllobaenus sp.

Coccinellidae

Hyperaspis sp.

Coleomegilla maculata

Cryptolaemus montrouzieri

Harmonia axyridis

Curculionidae

Monarthrum sp.

Cyrtopistomus castaneus

Eulechriops minuta

Odontopus calceatus

Polydrusus formosus*

Pseudoedophrys hilleri

Strophosoma melanogrammum

Elateridae

Melanotus sp.

Horistonotus curiatus

Idolus bigeminatus

Limonium basilaris

Limonium quercinus

Eucnemidae

Lampyridae

Ellychnia corrusca

Lycidae

Leptoceletes basalis

Melandryidae

Mordellidae

Mordella marginata

Mordellistena trifasciata

Mycetophagidae

Litargus tetraspilotus

Scirtidae

Contacyphon sp.

Scirtes tibialis

Scraptiidae

Anaspis sp.

Tenebrionidae

Bees, Wasps

Argidae*

Bethylidae

Braconidae

Cynipidae

Melikaiella sp.

Diapriidae

Belyta sp.

Eurytomidae

Evaniidae

Evaniella semaeoda

Figitidae

Ichneumonidae

Pergidae

Acordulecera sp.

Tenthredinidae

Caliroa sp.

Craterocercus sp.

Profenusa sp.

Vespidae

Polistes fuscatus

Vespula flavopilosa

Vespula maculifrons

Vespula vidua

Ants

Formicidae

Formica fusca

Formica neogagates

Formica neogagates-group

Temnothorax schaumii

Temnothorax curvispinosus

Camponotus nearcticus

Camponotus pennsylvanicus

Crematogaster sp.

Dolichoderus sp.

Tapinoma sessile

Flies

Agromyzidae

Anthomyiidae

Asilidae

Efferia aestuans

Bibionidae

Cecidomyiidae

Ceratopogonidae

Chaoboridae

Chaoborus punctipennis

Chironomidae

Chyromyidae

Culicidae

Dolichopodidae

Condylostylus caudatus

Chrysotus sp.

Dolichopus sp.
Gymnopternus flavus
Hybotidae
Platypalpus sp.
Stilpon sp.
Lauxaniidae
Homoneura sp.
Minettia sp.
Limoniidae
Muscidae
Neodexiopsis calopyga
Phoridae
Rhagionidae
Rhagio mystaceus
Sarcophagidae
Sciaridae
Tipulidae
Liviidae
Rhaphidophoridae

Psocoptera
Polypsocus
Trichoptera
Leptoceridae
Trombidiformes
Anystis

Other observations

Blattodea
Ectobius pallidus
Ectobius
Neuroptera
Chrysoperla
Chrysopidae
Coniopterygidae
Odonata
Lestes
Pachydiplax longipennis
Sympetrum
Sympetrum vicinum
Opiliones
Leiobunum vittatum
Psocodea
Polypsocus corruptus*
Psocidae

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!

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