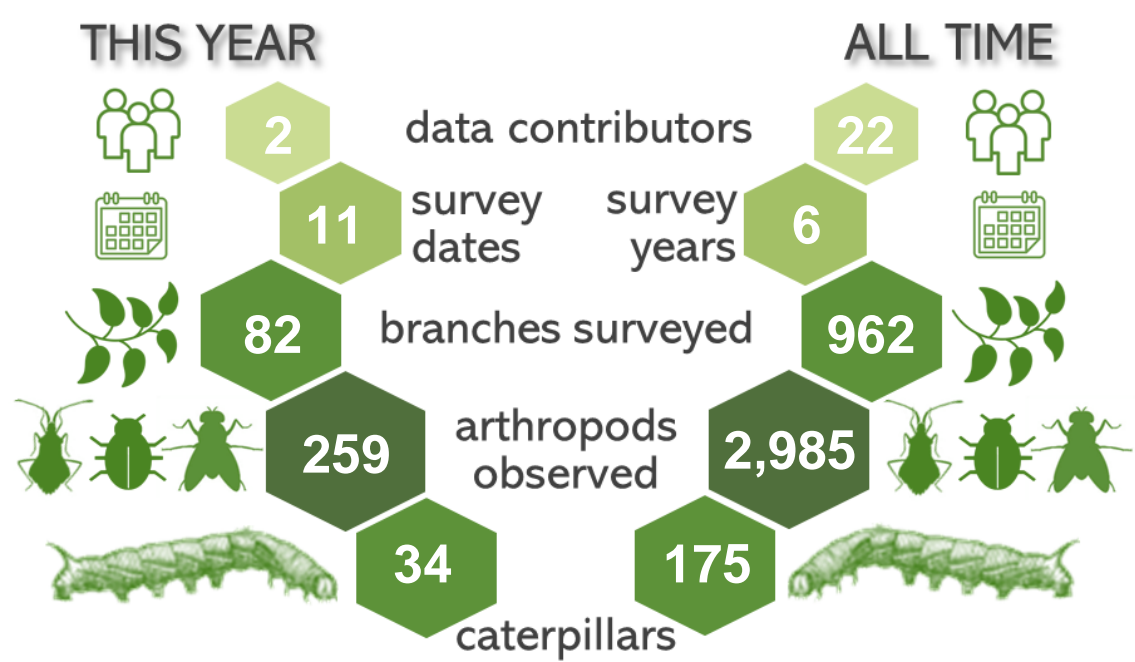




EwA at Fresh Pond, 2024 Summary



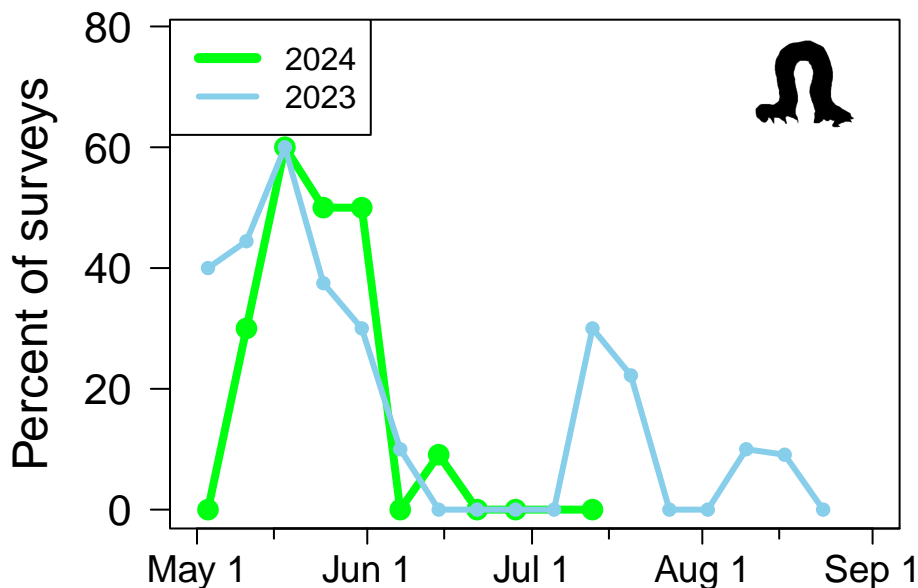
The 82 total surveys conducted at **EwA at Fresh Pond** this year ranks **55th** out of the **78** sites that participated in 2024.

Top Participants of 2024

User	Surveys	Arthropods	Caterpillars	% Caterpillars
K Estrop	18	78	6	27.78
C O'NEILL	64	181	28	21.88

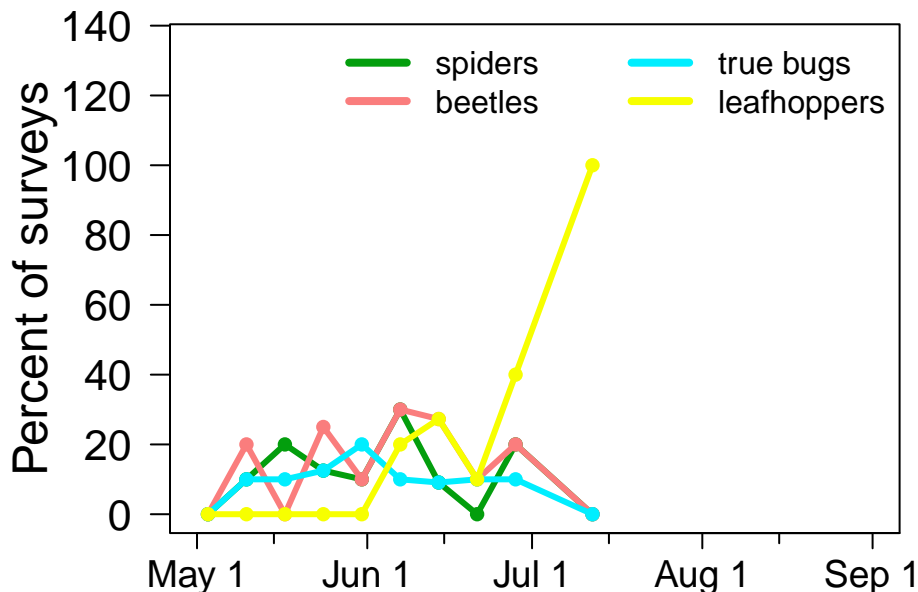
Caterpillar Phenology

As a major source of food for nestlings of migratory birds, we are especially interested in the timing of caterpillar availability. At **EwA at Fresh Pond** in **2024**, caterpillar occurrence peaked at **60%** of surveys on **16 May**. Do you see other peaks as well? How does the pattern compare to the previous year?



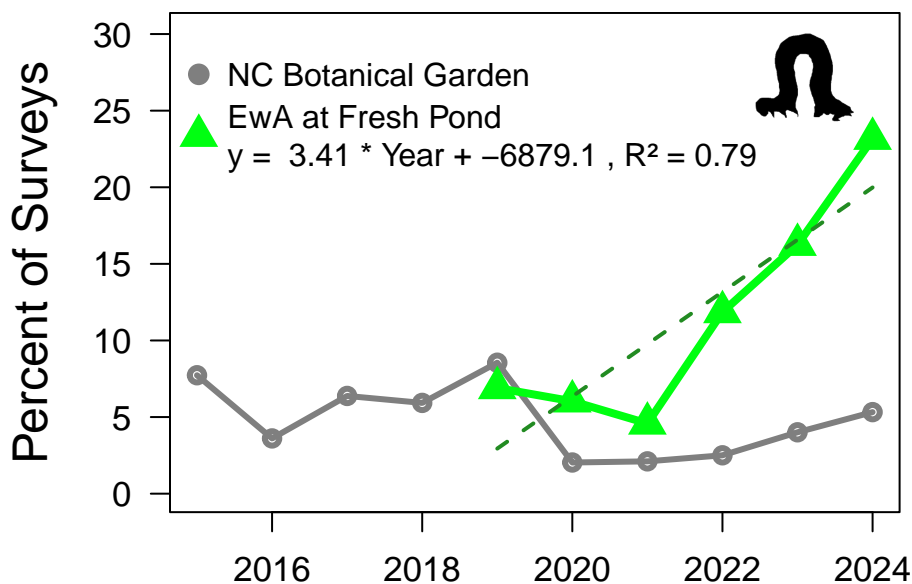
Other Arthropod Phenology

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.



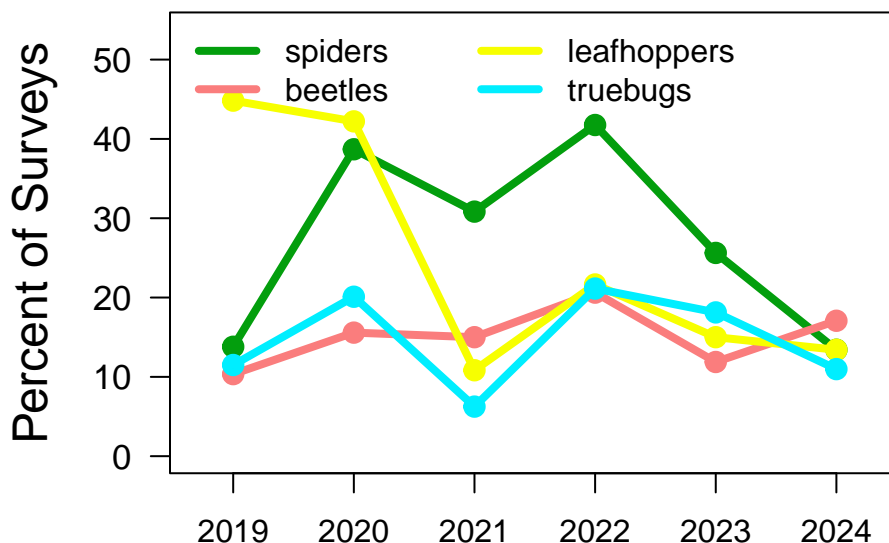
Arthropod Trends

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?

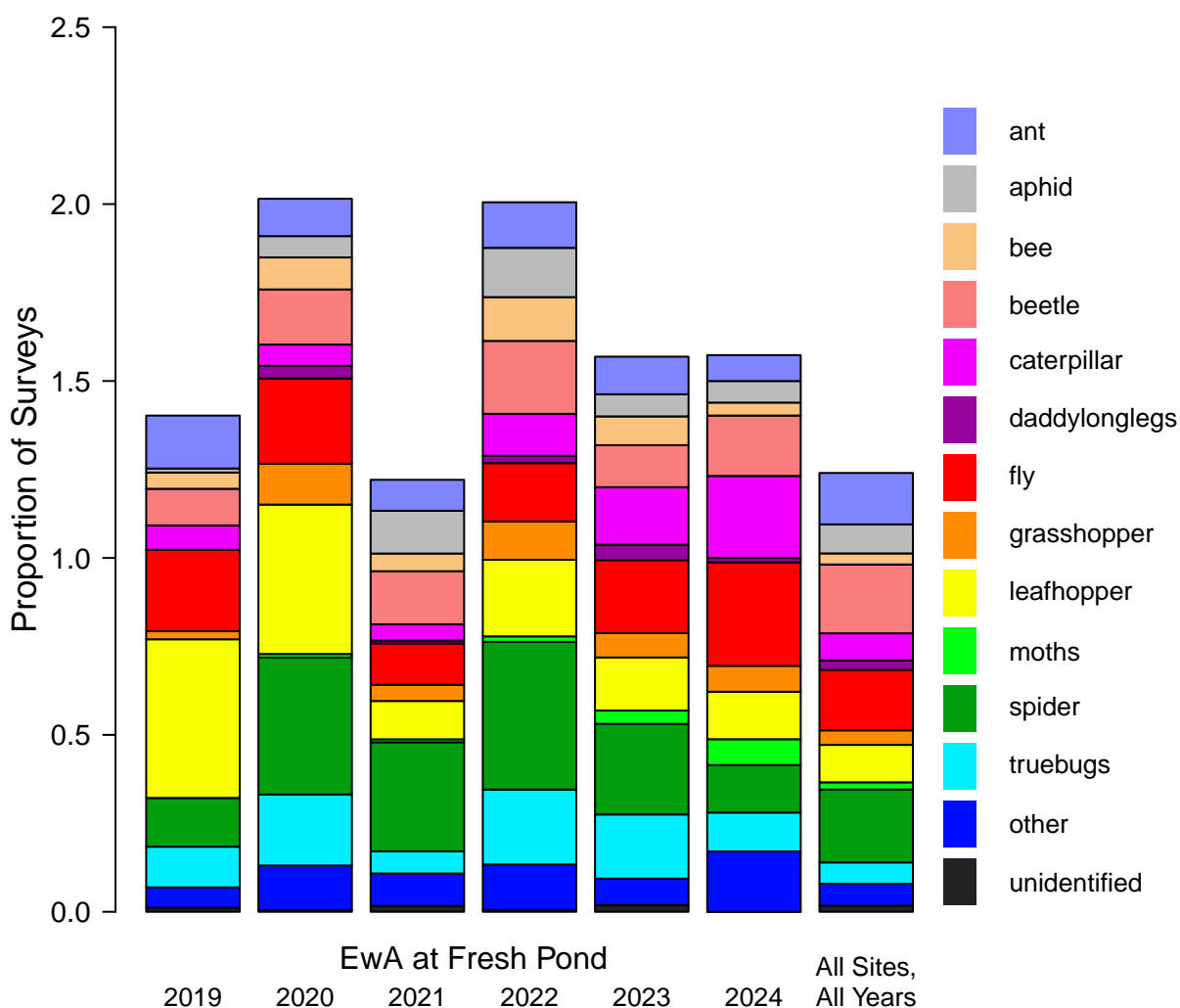


You can explore trends for more arthropod groups, and compare trends at different sites, on your site's **Trends Page**. See also our **November 2021 newsletter** for more on how to interpret these trends.

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*).

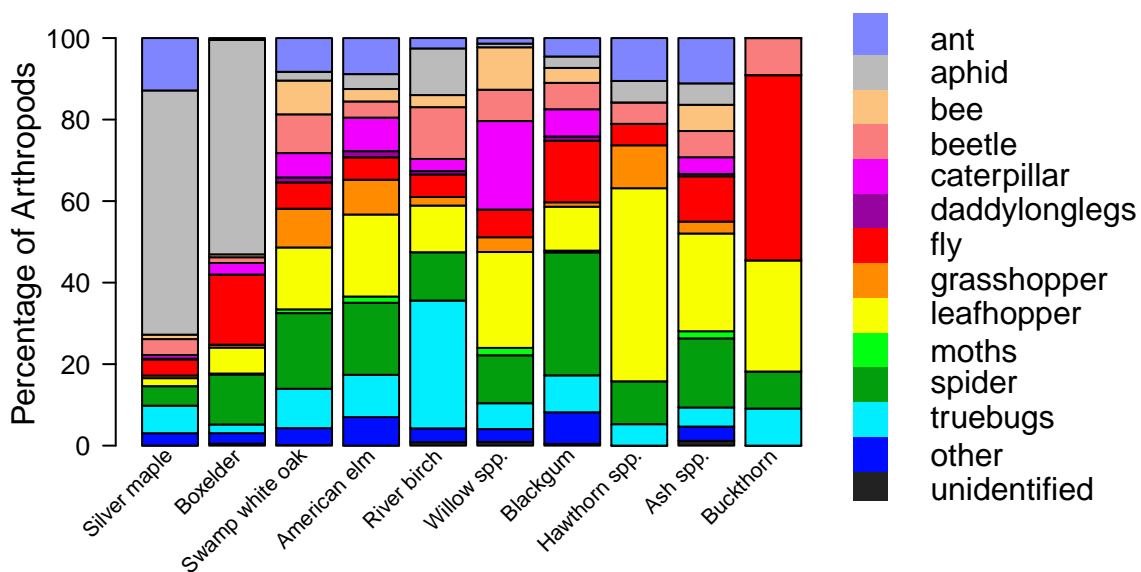
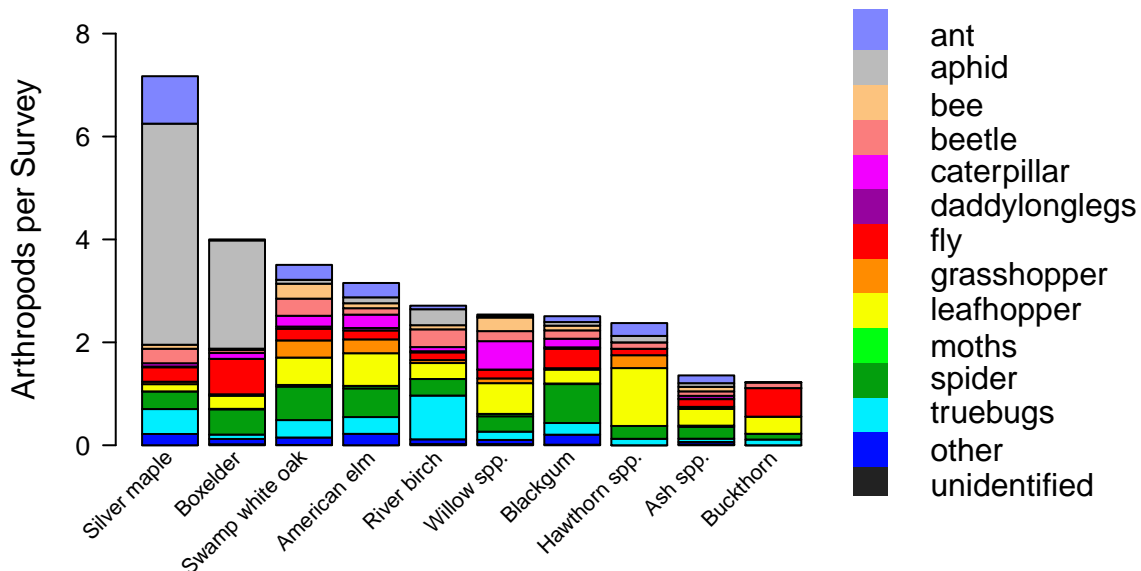
- What are the most common arthropod groups found at your site?
- Has that varied by year?
- Is anything noticeably different about **EwA at Fresh Pond** compared to all other participating sites?
- If arthropod photos were submitted as part of your site's surveys, check the last section of this report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

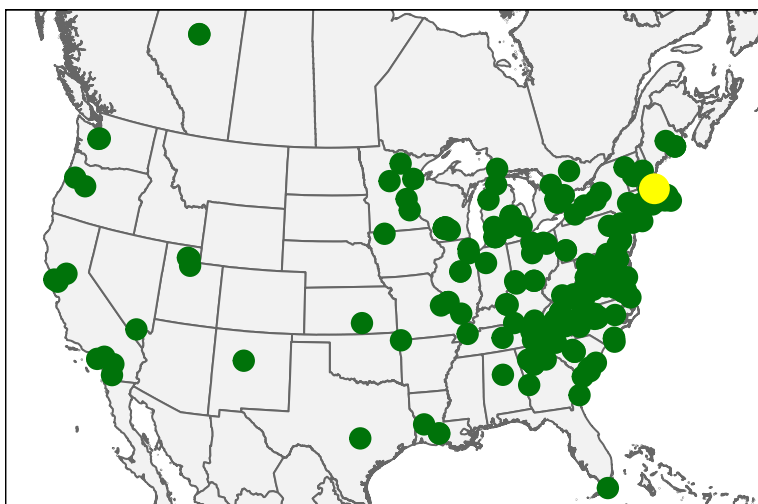
- Which plant species supports the most arthropods per survey?
- Which plant species supports the most **caterpillars**?
- Are any plant species dominated by just one or two types of arthropods?
- Or do they support a diversity of arthropod types?



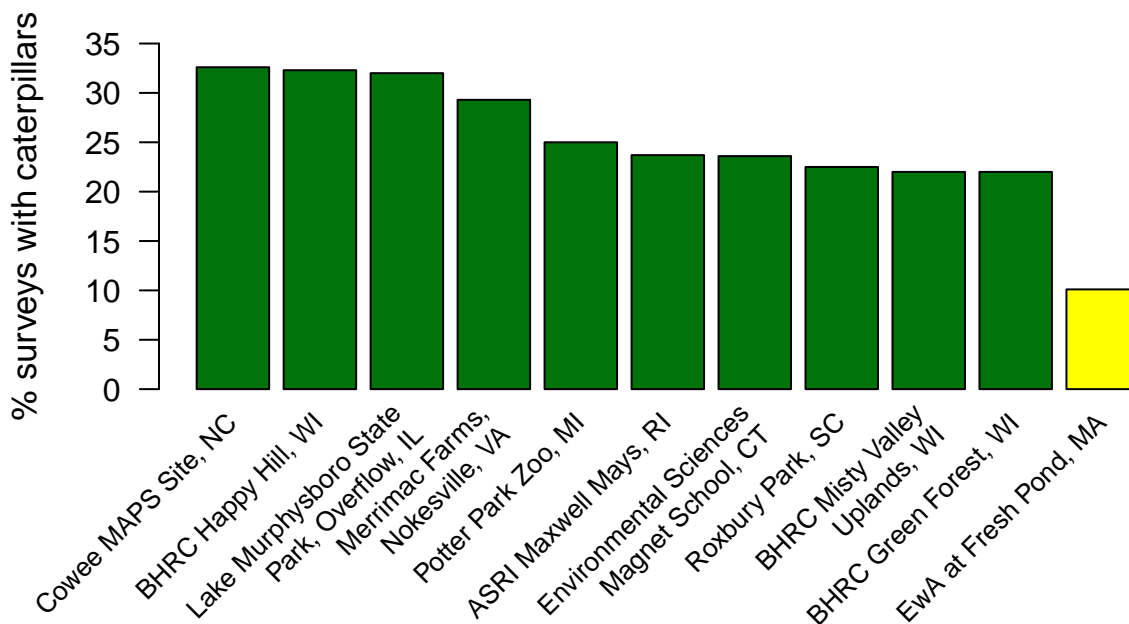
This bottom panel shows, of the arthropods found on a given plant species, what proportion were from each taxonomic group. At most, only the top 25 plant species are shown.

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 Fresh Pond**, caterpillars have been found **10.1%** of the time, which ranks **47th** 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

1,436 photo observations from **Caterpillars Count!** surveys have been submitted from your site which ranks **4th** 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 **80** unique species. Taxa seen for the first time this year are marked with a *.

Caterpillars

Bucculatricidae
Bucculatrix sp.
Depressariidae
Machimia tentoriferella
Erebidae
Dasychira sp.
Halysidota tessellaris
Gelechiidae
Geometridae*
Noctuidae
Acronicta americana
Amphipyra pyramoides
Morrisonia confusa
Notodontidae
Nerice bidentata
Sphingidae
Paonias excaecata

Moths, Butterflies

Argyresthiidae
Argyresthia oreasella
Gracillariidae
Caloptilia sp.
Hesperiidae
Tortricidae
Acleris semipurpurana*
Argyrotaenia quercifoliana*
Hedya nubiferana

Spiders

Anyphaenidae
Anyphaena sp.
Araneidae
Eustala sp.
Araniella displicata
Neoscona crucifera
Clubionidae
Clubiona sp.

Dictynidae
Lycosidae*
Philodromidae
Philodromus rufus
Salticidae
Eris sp.
Hentzia mitrata
Synemosyna formica
Maevia inclemens
Tetragnathidae
Tetragnatha sp.
Leucauge venusta
Theridiidae
Theridion sp.
Theridula emertoni
Enoplognatha ovata

Thomisidae
Misumena vatia
Misumessus oblongus
Uloboridae
Hyptiotes cavatus

Grasshoppers, Crickets

Gryllidae
Hapithus saltator
Oecanthus fultoni
Oecanthidae
Oecanthus niveus
Neoxabea bipunctata
Tettigoniidae
Meconema thalassinum
Trigonidiidae
Anaxipha sp.
Phyllopalpus pulchellus

True Bugs

Coreidae
Lygaeidae
Kleidocerys sp.

Lygaeus turcicus
Miridae
Hyaliodes harti
Neurocolpus sp.
Plagiognathus sp.
Nabidae
Lasiomerus annulatus
Pentatomidae
Phymatidae
Phymata sp.
Reduviidae
Tingidae
Stephanitis takeyai

Leafhoppers, Cicadas

Acanaloniidae
Acanalonia conica
Aphrophoridae
Philaenus spumarius
Cicadellidae
Agallia sp.
Alebra sp.
Eratoneura sp.
Idiocerus sp.
Jikradia olitoria
Macropsis sp.
Oncopsis sp.
Populicerus sp.
Scaphoideus sp.
Colladonus clitellarius
Graphocephala coccinea
Graphocephala fennahi
Graphocephala versuta
Orientus ishidae
Derbidae
Cedusa sp.
Omolicna uhleri
Flatidae
Flatormenis proxima

Metcalfa pruinosa
Ormenoides venusta
Issidae
Membracidae
Cyrtolobus sp.
Entylia carinata
Microcentrus perditus

Aphids, Scales

Aphididae

Beetles

Anobiidae
Ptilinus sp.
Chrysomelidae
Acalymma vittatum
Helocassis clavata
Coccinellidae
Harmonia axyridis
Hyperaspis sp.
Brachiacantha decempustulata
Brachiacantha ursina
Cryptolaemus montrouzieri
Propylea quatuordecimpunctata
Psyllobora vigintimaculata
Curculionidae
Conotrachelus anaglypticus
Cyrtepidomus castaneus
Polydrusus formosus
Elateridae
Eirrhinidae
Dorytomus sp.
Erotylidae
Triplax sp.
Lampyridae
Ellychnia corrusca*
Lycidae
Calopteron reticulatum
Mordellidae

Falsomordellistena bihamata
Mordellina pustulata
Pyrochroidae
Pedilus sp.
Scirtidae
Scirtes orbiculatus

Bees, Wasps

Crabronidae
Cynipidae
Encyrtidae
Gasteruptiidae
Gasteruption sp.
Halictidae
Torymidae
Vespidae
Vespula flavopilosa

Ants

Formicidae
Temnothorax schaumii
Temnothorax curvispinosus
Camponotus nearcticus
Camponotus pennsylvanicus
Myrmica rubra
Lasius americanus
Nylanderia flavipes
Tapinoma sessile
Tetramorium immigrans

Flies

Asilidae
Ommatius sp.
Chironomidae
Cricotopus sp.
Microtendipes sp.
Polypedilum sp.
Stenochironomus cinctus
Stictochironomus sp.*
Tanytarsus sp.

Chloropidae
Culicidae
Dolichopodidae
Condyllostylus comatus
Lauxaniidae
Homoneura sp.
Micropezidae
Compsobata univitta
Mycetophilidae
Otitidae
Delphinia picta
Syrphidae
Allograpta sp.

Other observations

Blattodea
Ectobius pallidus
Ectobius
Ephemeroptera
Hexagenia
Neuroptera
Chrysopidae
Chrysopini
Coniopterygidae
Micromus
Psocodea
Graphopsocus cruciatus
Trichoptera
Leptoceridae
Mystacides
Mystacides sepulchralis
Triaenodes
Trombidiformes
Anystis

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