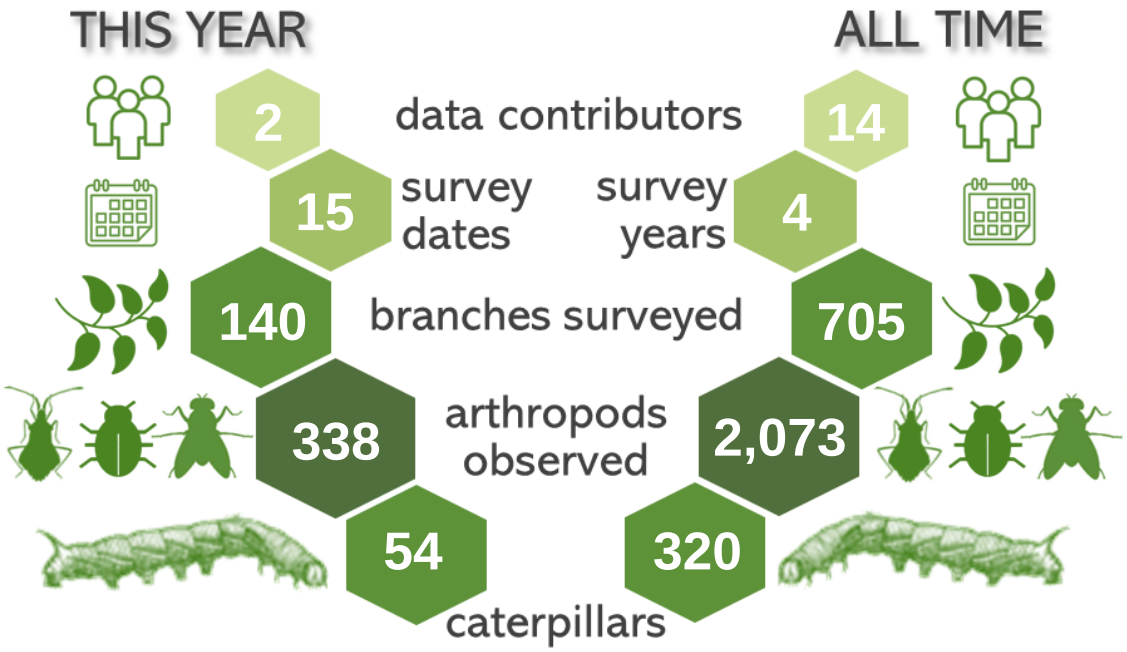
EwA at Horn Pond, 2024 Summary



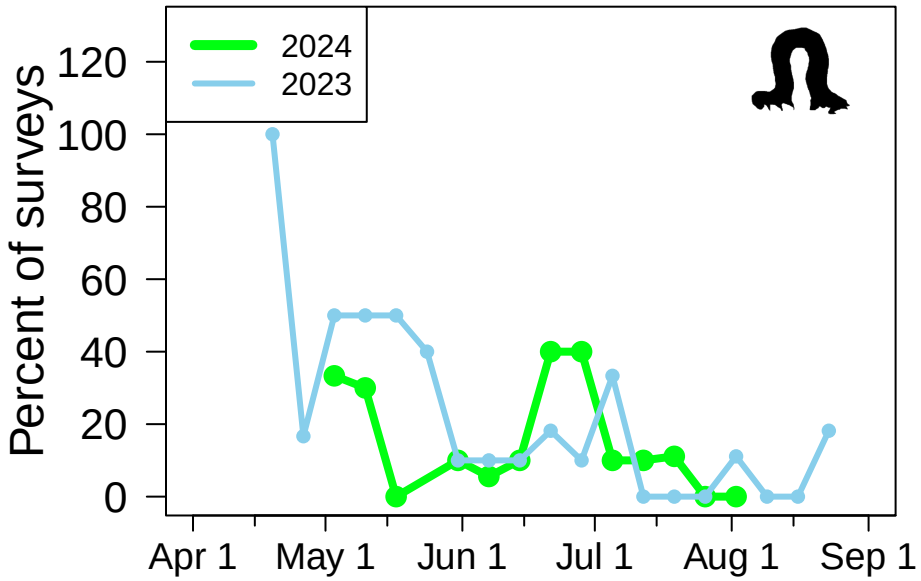
The **140** total surveys conducted at **EwA at Horn Pond** this year ranks **42nd** out of the **78** sites that participated in 2024.

Top Participants of 2024

User	Surveys	Arthropods	Caterpillars	% Caterpillars
C O'NEILL	27	138	40	25.93
K Shea	113	200	14	10.62

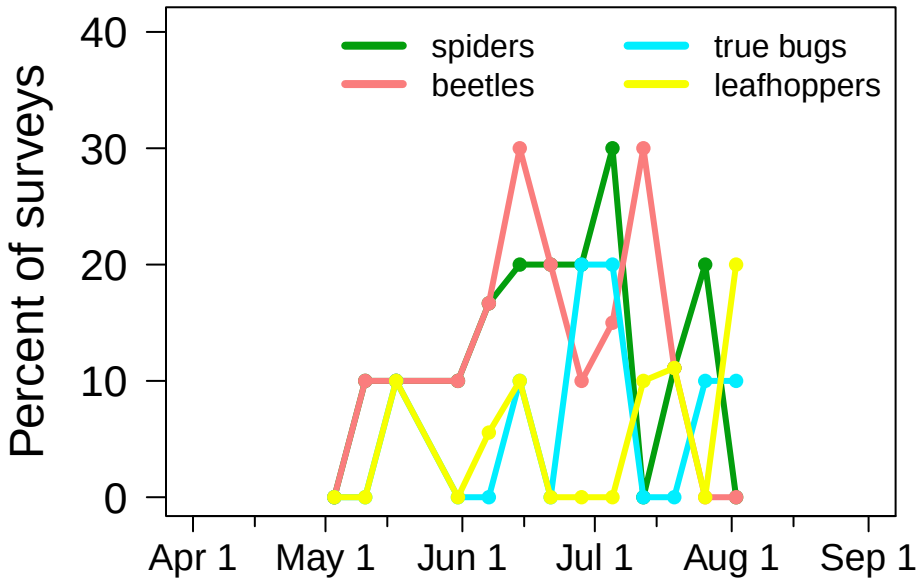
Caterpillar Phenology

As a major source of food for nestlings of migratory birds, we are especially interested in the timing of caterpillar availability. At **EwA at Horn Pond** in **2024**, caterpillar occurrence peaked at **40%** of surveys on **20 June**. Do you see other peaks as well? How does the pattern compare to the previous year?



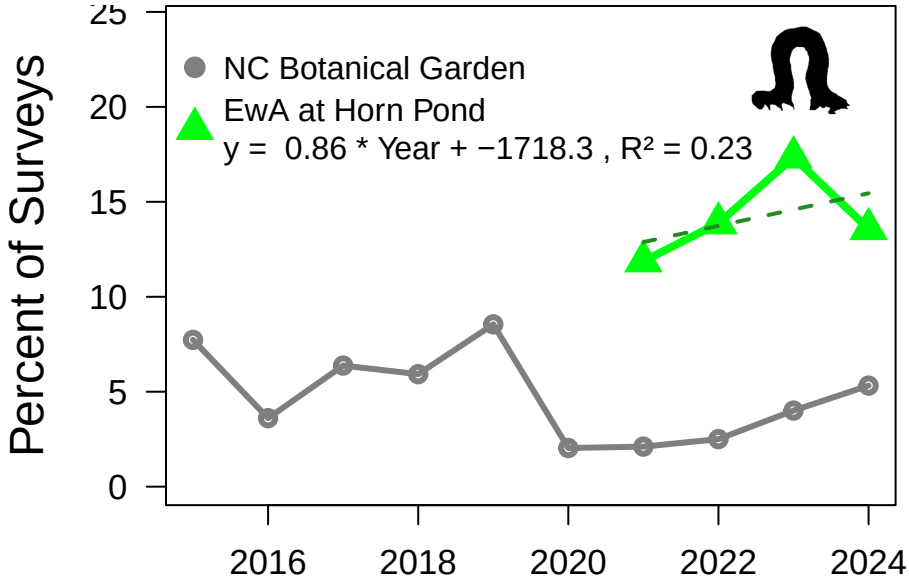
Other Arthropod Phenology

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**.



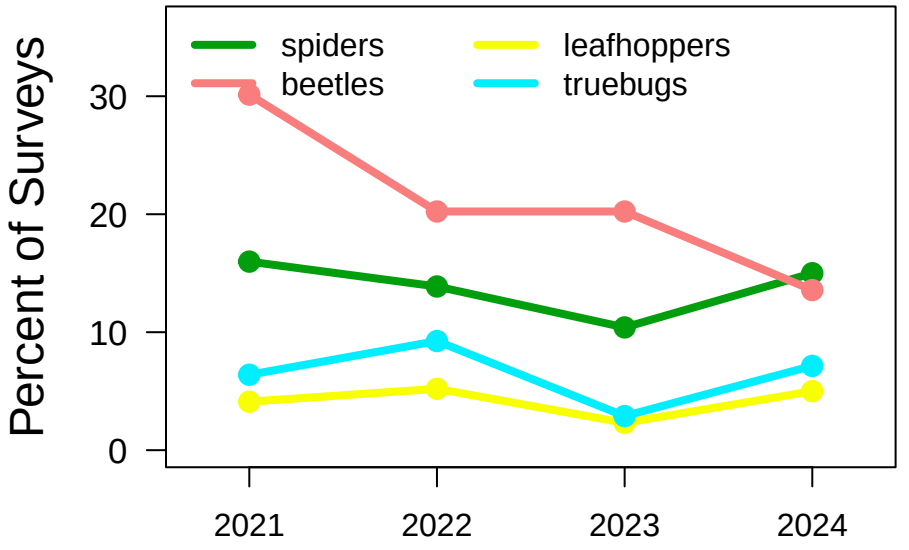
Arthropod Trends

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?

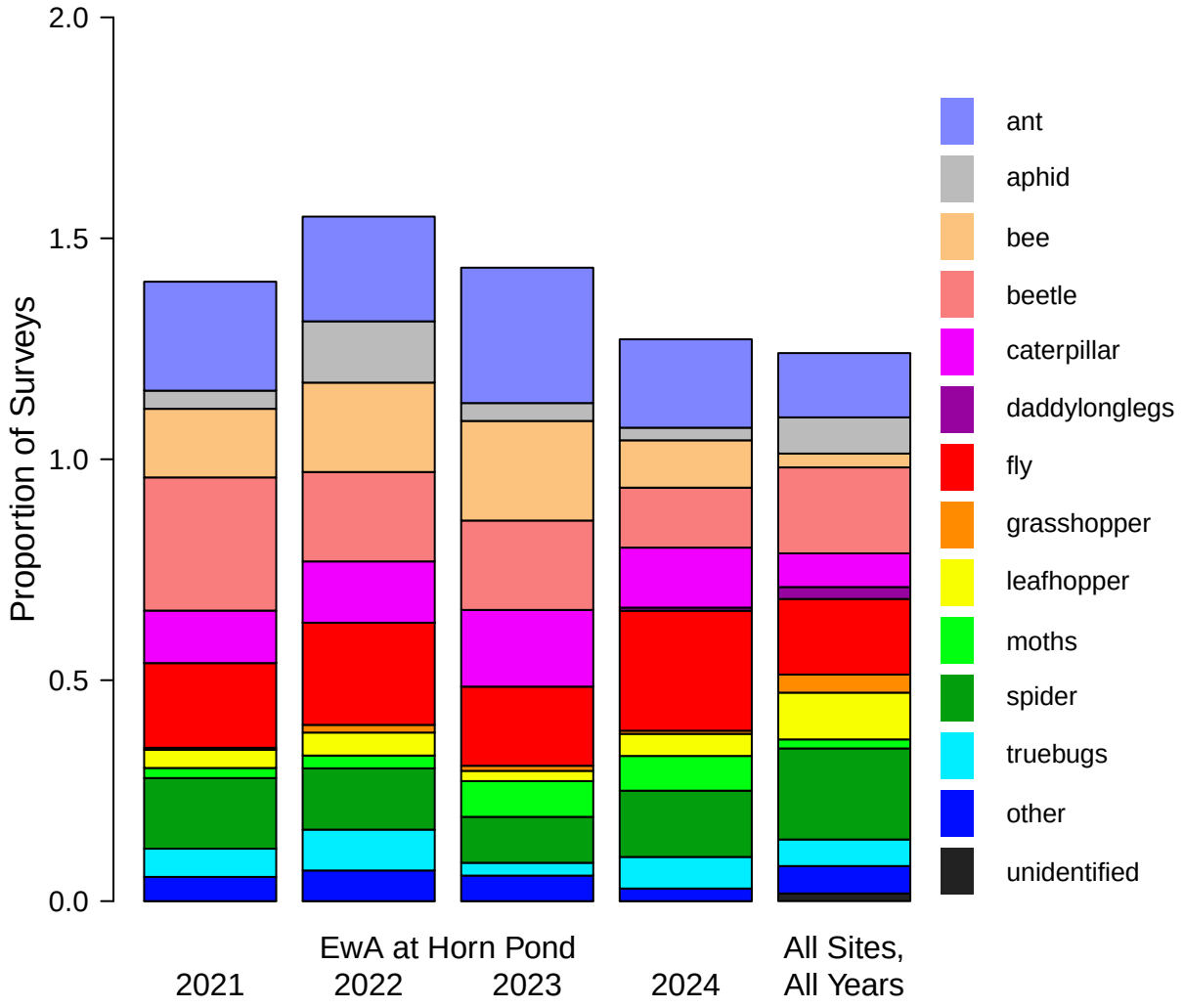


You can explore trends for more arthropod groups, and compare trends at different sites, on your site's **Trends Page**. See also our **November 2021 newsletter** for more on how to interpret these trends.

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*).

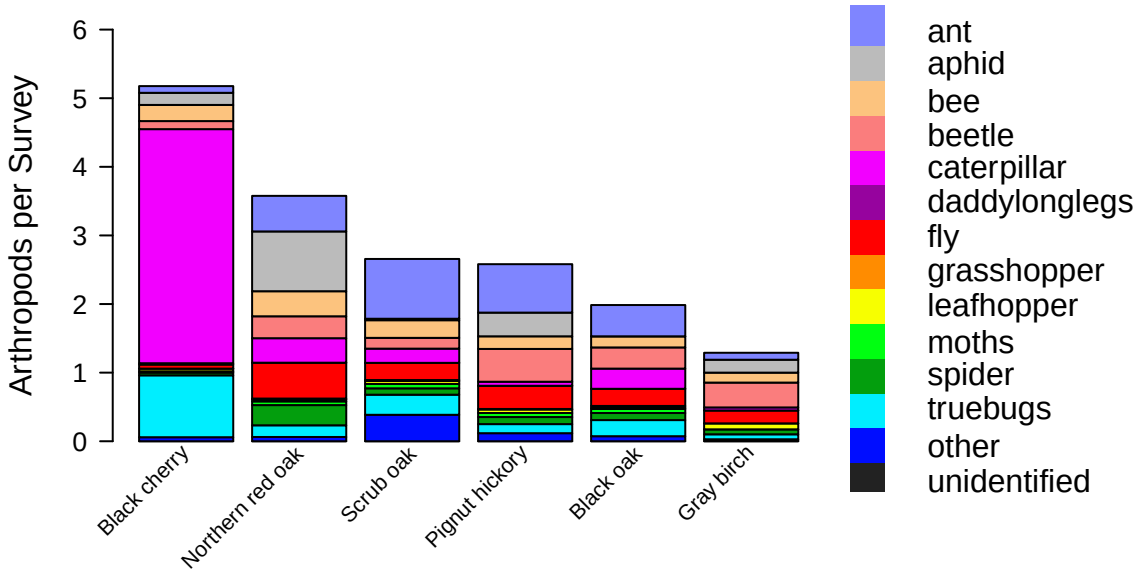
- What are the most common arthropod groups found at your site?
- Has that varied by year?
- Is anything noticeably different about **EwA at Horn Pond** compared to all other participating sites?
- If arthropod photos were submitted as part of your site's surveys, check the last section of this report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

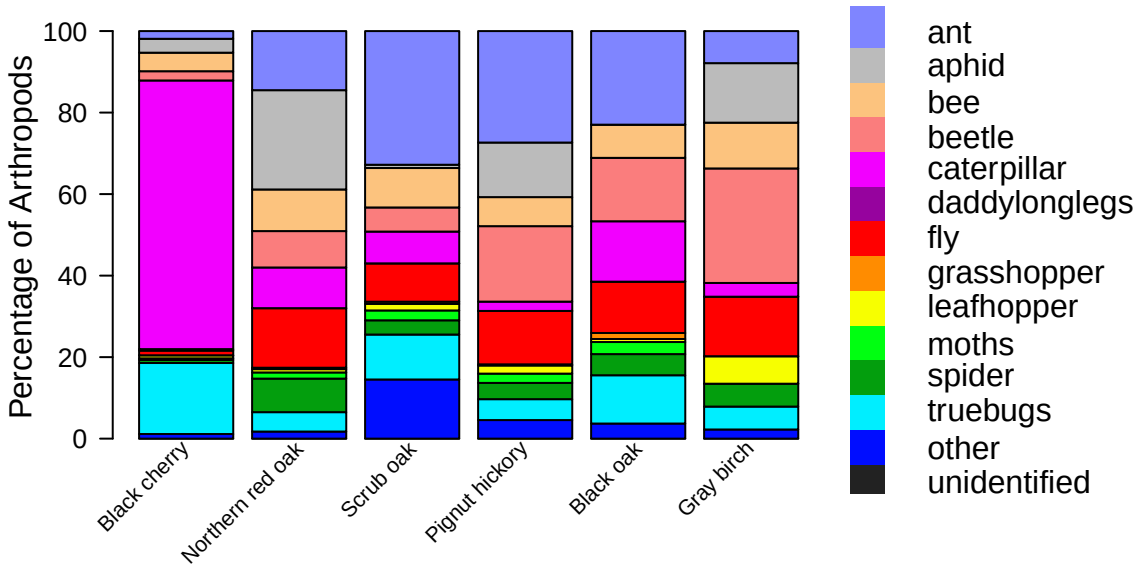


Arthropod Composition by Plant Species

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?

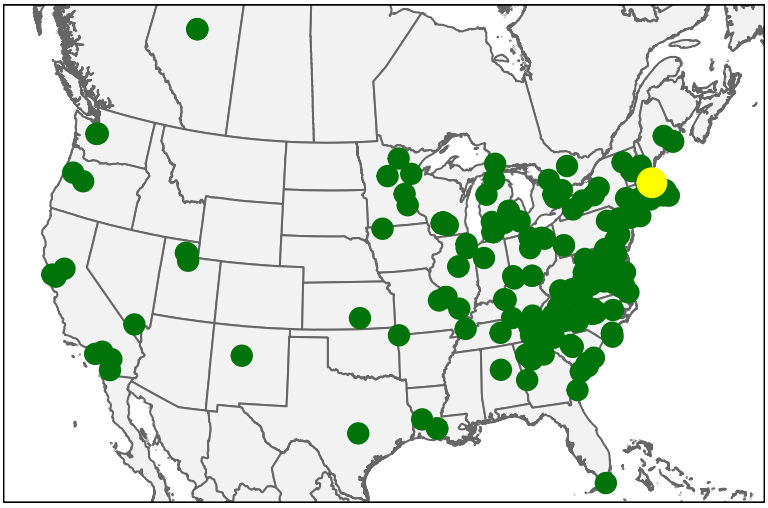




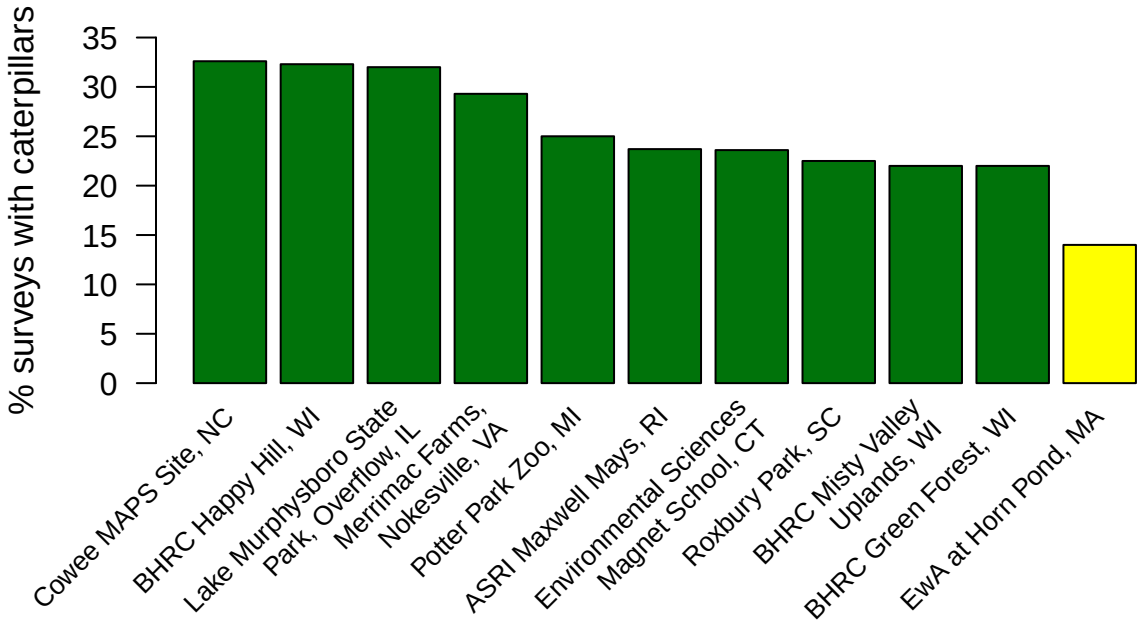
This bottom panel shows, of the arthropods found on a given plant species, what proportion were from each taxonomic group. At most, only the top 25 plant species are shown.

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 Horn Pond**, caterpillars have been found **14%** of the time, which ranks **37th** 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

775 photo observations from ***Caterpillars Count!*** surveys have been submitted from your site which ranks **9th** 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 **62** unique species. Taxa seen for the first time this year are marked with a *.

Caterpillars

Bucculatricidae
- Bucculatrix sp.*

Geometridae

Lasiocampidae
- Malacosoma americana

Limacodidae
- Apoda sp.

Noctuidae
- Acronicta lobeliae*
- Amphipyra pyramidoides
- Morrisonia confusa

Notodontidae
- Furcula borealis
- Paraeschra georgica

Pyralidae
- Pococera expandens*

Saturniidae
- Antheraea polyphemus

Moths, Butterflies

Bucculatricidae
- Bucculatrix sp.*

Crambidae
- Crambus albellus*
- Urola nivalis*

Eriocraniidae
- Dyseriocrania griseocapitella*

Heliozelidae
- Coptodisca lucifluella

Noctuidae
- Cosmia calami

Oecophoridae
- Mathildana newmanella

Saturniidae
- Antheraea polyphemus

Tortricidae
- Acleris sp.

Spiders

Anyphaenidae
- Anyphaena sp.*

Araneidae
- Araniella displicata
- Neoscona arabesca*

Clubionidae
- Clubiona sp.

Dictynidae

Philodromidae
- Philodromus sp.

Salticidae
- Hentzia mitrata*
- Tutelina sp.
- Maevia inclemens*
- Paraphidippus aurantius

Thomisidae
- Bassaniana sp.

Grasshoppers, Crickets

Acrididae
- Melanoplus sp.

Gryllidae
- Hapithus saltator
- Oecanthus exclamationis

Oecanthidae
- Oecanthus sp.

Tettigoniidae
- Scudderia sp.
- Meconema thalassinum*

True Bugs

Miridae
- Hyaliodes sp.*

Pentatomidae
- Podisus placidus

Reduviidae
- Zelus luridus

Tingidae

Leafhoppers, Cicadas

Cicadellidae
- Erythridula sp.*
- Scaphytopius sp.
- Jikradia olitoria
- Penthimia americana
- Rugosana querci

Derbidae
- Otiocerus amyotii

Flatidae
- Flatormenis proxima*
- Metcalfa pruinosa

Membracidae
- Enchenopa binotata

Aphids, Scales

Aphididae

Beetles

Apionidae

Attelabidae
- Eugnamptus sp.*
- Homoeolabus analis
- Pterocolus ovatus
- Synolabus bipustulatus
- Synolabus nigripes

Buprestidae
- Brachys aerosus
- Brachys ovatus
- Mastogenius crenulatus

Cerambycidae
- Tetrops praeustus

Chrysomelidae

Coccinellidae
- Harmonia axyridis

Curculionidae
- Anthonomus sp.
- Cyrtepistomus castaneus
- Polydrusus formosus

- Strophosoma melanogrammum
- Elateridae
  - Gambrinus sp.
- Lampyridae
  - Ellychnia sp.
- Lycidae
  - Calopteron reticulatum

Bees, Wasps

- Apidae
  - Apis mellifera
  - Bombus impatiens
- Braconidae
- Crabronidae
  - Cerceris sp.
  - Philanthus bilunatus
- Cynipidae
- Halictidae
  - Lasioglossum sp.
- Ichneumonidae
- Mutillidae
  - Pseudomethoca frigida
- Tenthredinidae
  - Caliroa sp.
  - Pristiphora chlorea
- Tiphiidae
- Torymidae
- Vespidae
  - Vespula maculifrons
- Xyelidae
  - Xyela sp.
- Choreutidae

Ants

- Formicidae
  - Formica fusca
  - Camponotus americanus
  - Camponotus nearcticus
  - Camponotus pennsylvanicus
  - Dolichoderus plagiatus

Flies

- Asilidae
  - Laphria sericea
  - Efferia aestuans*
- Chironomidae
  - Microtendipes sp.
- Culicidae
  - Culex sp.
- Dolichopodidae
  - Chrysotus sp.
  - Condylostylus patibulatus
- Empididae
  - Rhamphomyia sp.
- Lauxaniidae
- Phoridae
- Sarcophagidae
- Liviidae

Other observations

- Blattodea
  - Ectobius
- Mantodea
  - Tenodera sinensis
- Odonata
  - Pachydiplax longipennis*
- Stylommatophora
  - Succineidae
- Thysanoptera
  - Aeolothrips
- Trichoptera
  - Leptoceridae
  - Mystacides sepulchralis

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, *Acronicta retardata*, observed by *margiemcchemp* on July 2, 2024 at **ASRI Fort**, Rhode Island.

Allen Hurlbert
Director
Caterpillars Count!
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