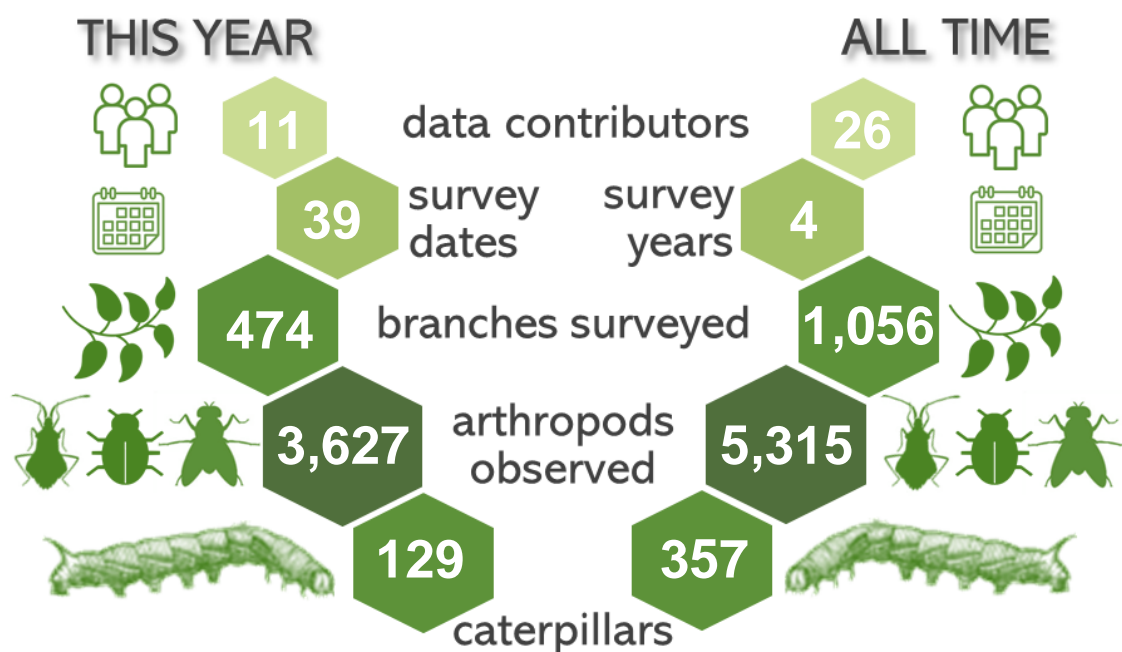




EwA at the Fells, 2022 Summary



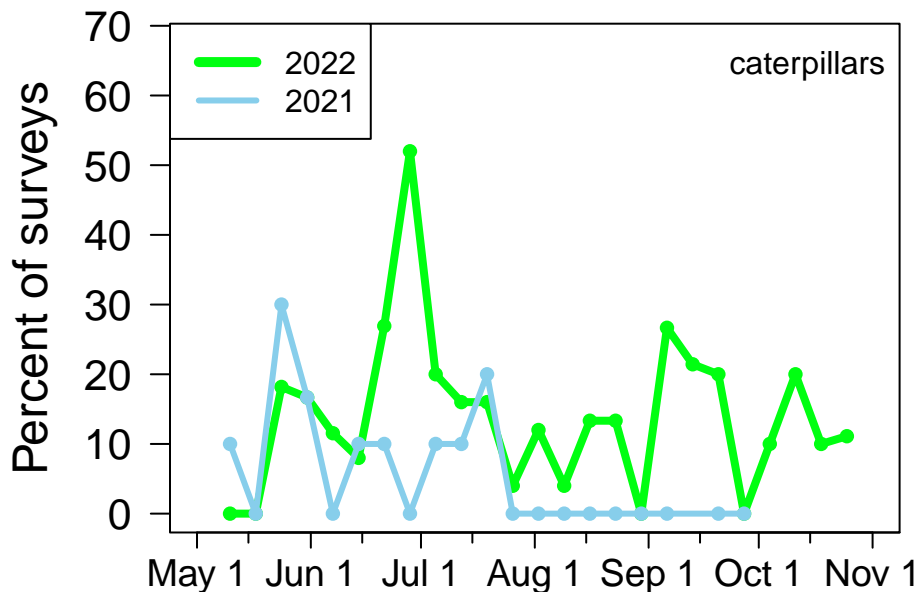
The **474** total surveys conducted at **EwA at the Fells** this year ranks **4th** out of the **70** sites that participated in 2022.

Top Participants of 2022

User	Surveys	Arthropods	Caterpillars	% Caterpillars
M Morgan	4	17	1	25.00
C O'NEILL	46	236	16	21.74
N Reilly	12	111	2	16.67
K Danziger	355	3125	110	16.34
A Walsh	5	30	0	0.00
B Jusino	4	6	0	0.00
H Barraza	2	7	0	0.00
K McGlathery	9	33	0	0.00

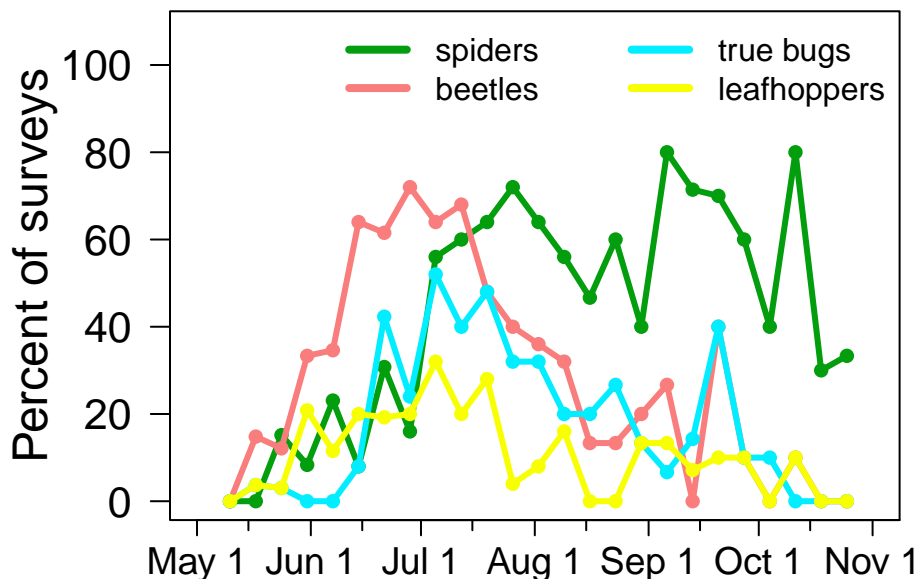
Caterpillar Phenology

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 **2022**, caterpillar occurrence peaked at **52%** of surveys on **28 June**. Do you see other peaks as well? How does the pattern compare to the previous year?



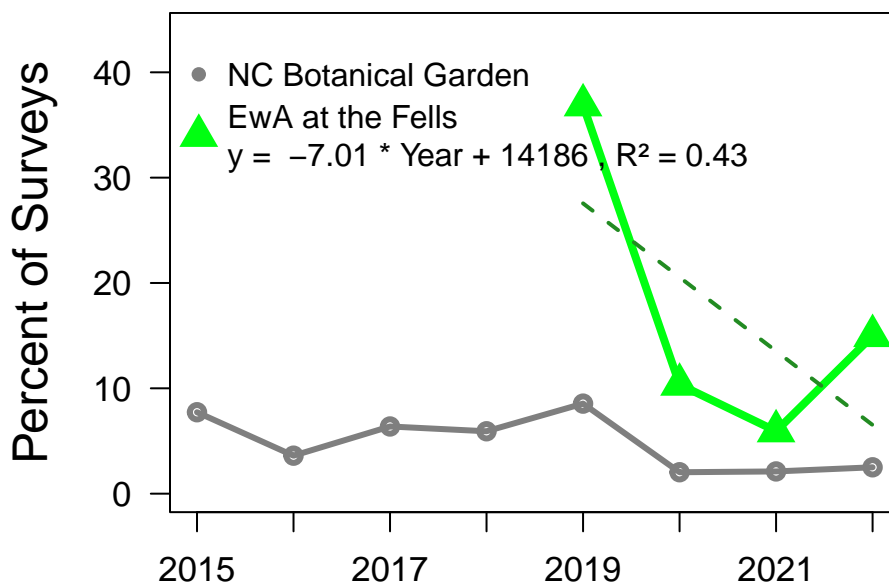
Other Arthropod Phenology

While caterpillars tend to have pronounced seasonal peaks, other groups are more variable. What patterns do you see below for **2022**? You can explore the phenology of other groups on the [Caterpillars Count! website](#).



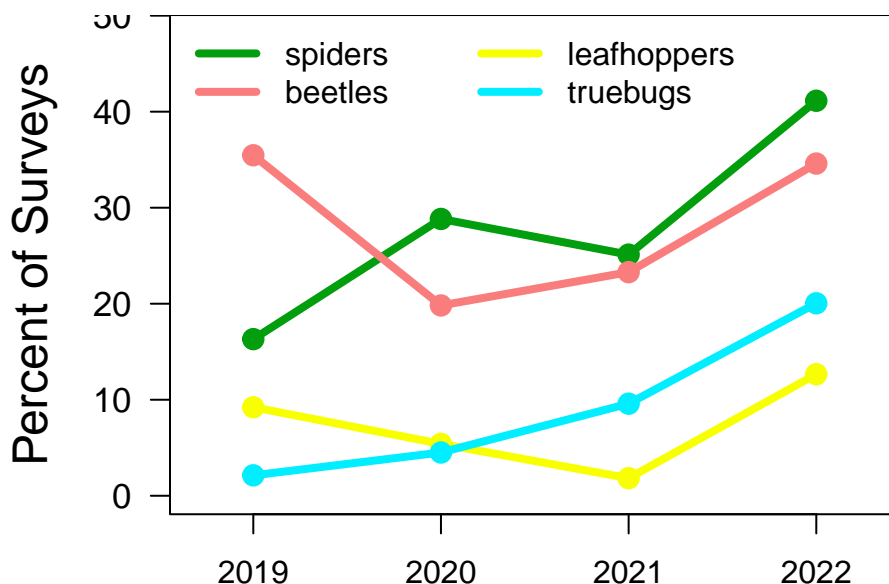
Arthropod Trends

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?

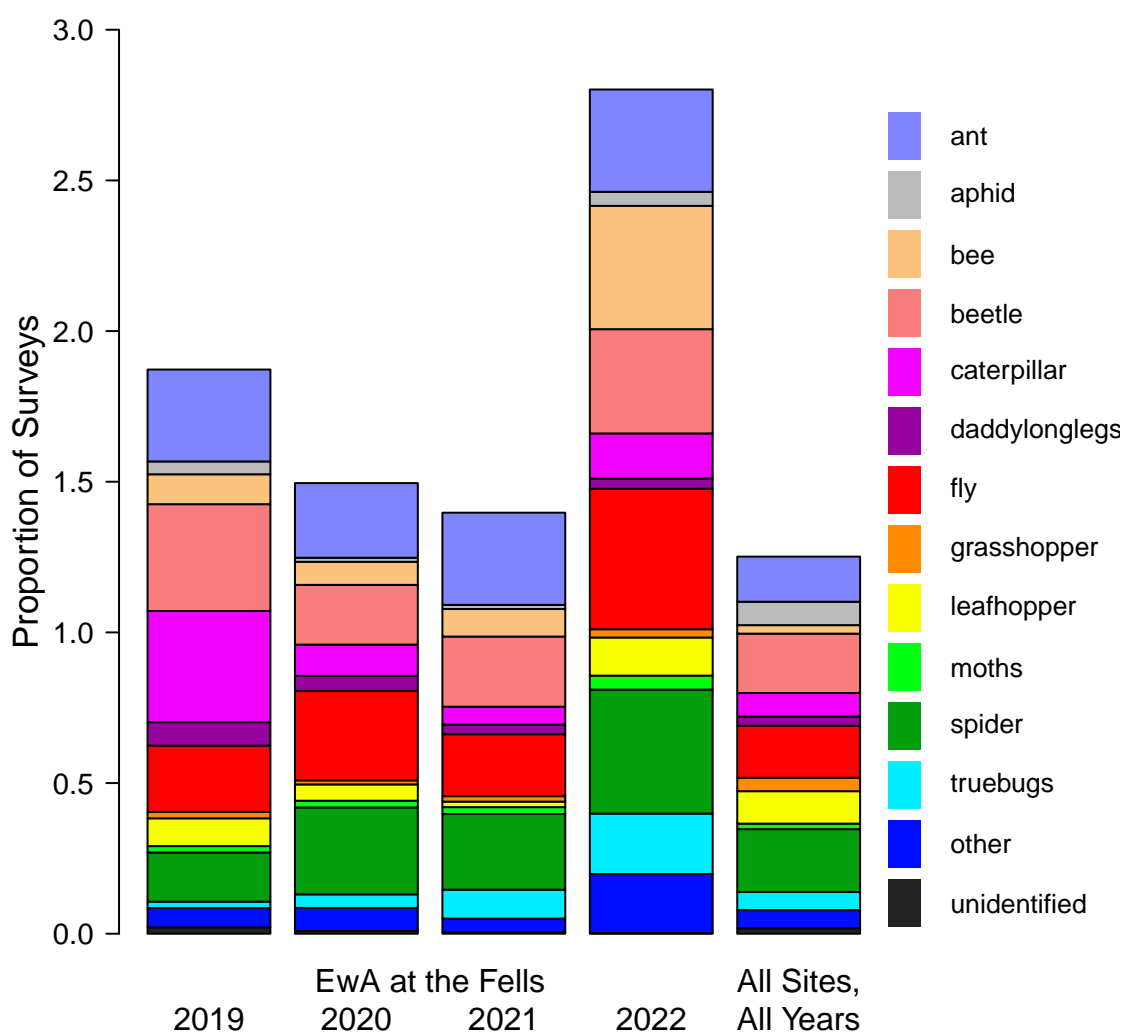


You can explore trends for more arthropod groups, and compare trends at different sites, on your site's [Trends Page](#). See also our [November 2021 newsletter](#) for more on how to interpret these trends.

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*).

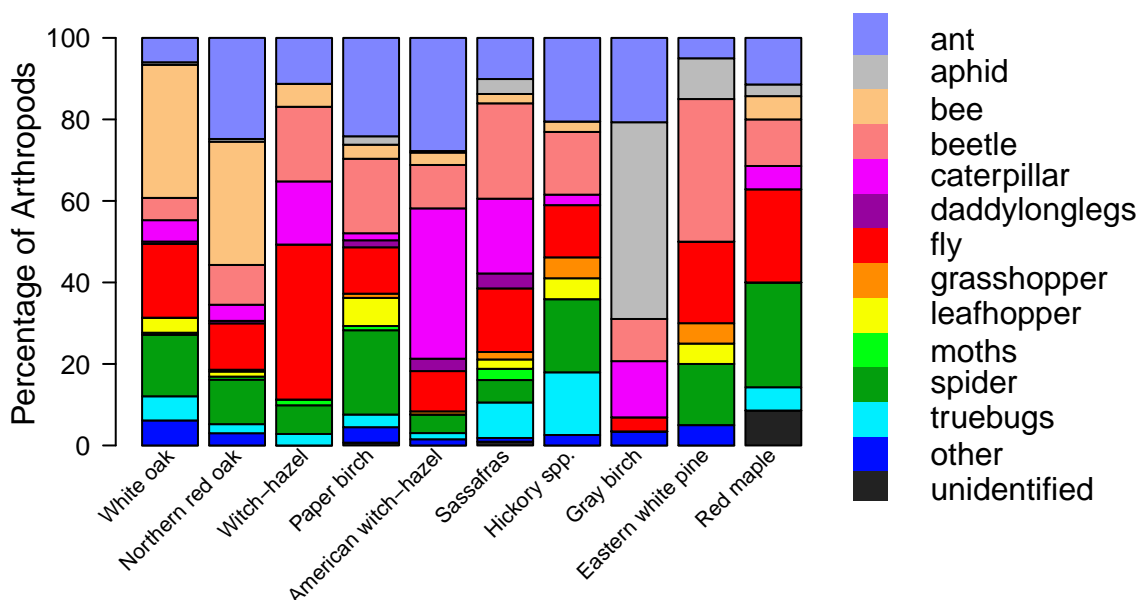
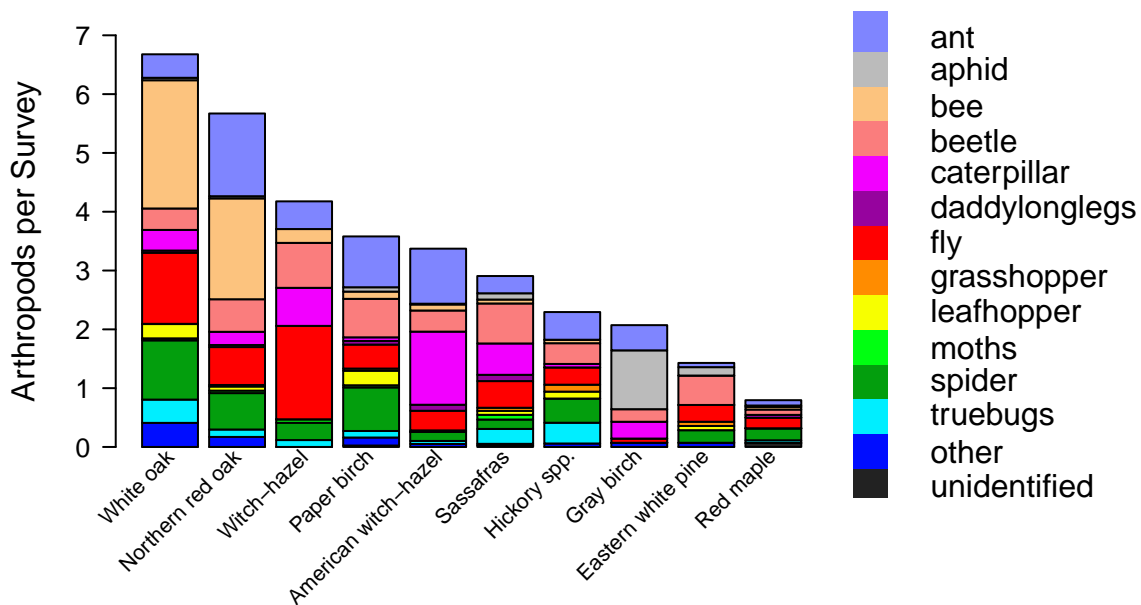
- What are the most common arthropod groups found at your site?
- Has that varied by year?
- Is anything noticeably different about **EwA at the Fells** compared to all other participating sites?
- If arthropod photos were submitted as part of your site's surveys, check the last section of this report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

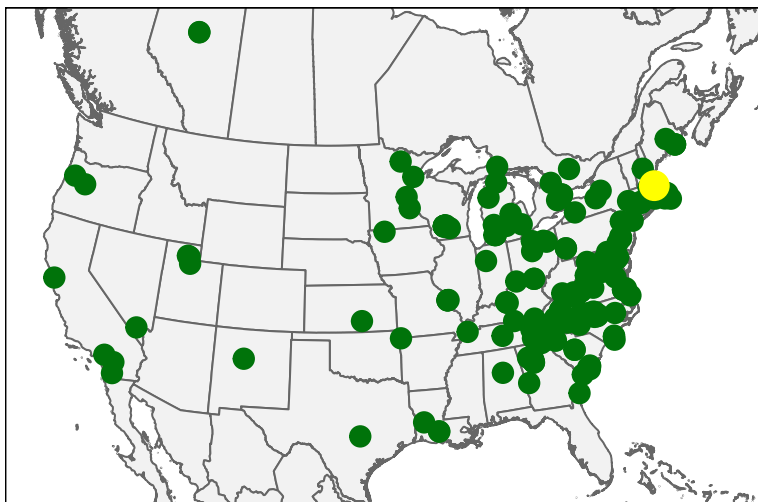
- Which plant species supports the most arthropods per survey?
- Which plant species supports the most **caterpillars**?
- Are any plant species dominated by just one or two types of arthropods?
- Or do they support a diversity of arthropod types?



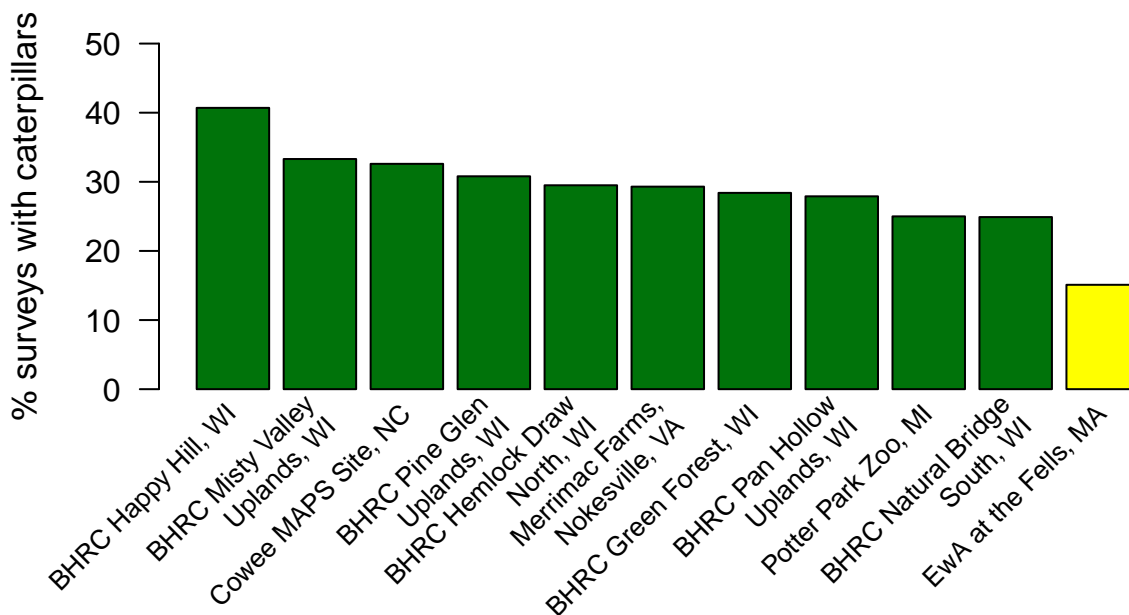
This bottom panel shows, of the arthropods found on a given plant species, what proportion were from each taxonomic group. At most, only the top 25 plant species are shown.

Broader Patterns

Thanks to participants like yourself, **Caterpillars Count!** observers have now submitted a total of **220,722** arthropod observations—including **16,838 caterpillars**—from **185** different sites.



Across all surveys ever done at **EwA at the Fells**, caterpillars have been found **15.1%** of the time, which ranks **28th** across sites. The top 10 sites (with ≥ 20 surveys) are shown below.



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

2311 photo observations from **Caterpillars Count!** surveys have been submitted from your site. 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

Erebidae

Halysidota tessellaris

Geometridae

Gracillariidae

Phyllonorycter sp.*

Limacodidae*

Noctuidae

Acronicta increta*

Feralia sp.

Pyreferra sp.

Amphipyra pyramidoides

Morrisonia latex

Notodontidae

Nadata gibbosa

Psychidae

Psyche casta

Sphingidae

Paonias excaecata*

Tischeriidae

Coptotriche badiella*

Moths, Butterflies

Gracillariidae

Phyllocnistis vitifoliella*

Oecophoridae

Mathildana newmanella*

Tortricidae

Olethreutes fasciatana

Spiders

Agelenidae

Anyphaenidae

Anyphaena sp.*

Araneidae

Araniella displicata

Dictynidae

Hahniidae*

Linyphiidae

Florinda sp.

Pityohyphantes sp.*

Mimetidae

Mimetes sp.

Philodromidae

Philodromus sp.

Salticidae

Hentzia mitrata

Tetragnathidae

Leucauge venusta*

Theridiidae

Theridion sp.*

Parasteatoda tepidariorum*

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*

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*

Attelabidae

Synolabus bipustulatus

Buprestidae

Agrilus sp.*

Brachys aeruginosus

Brachys ovatus*

Cantharidae

Rhagonycha angulata

Tytthonyx erythrocephala*

Cerambycidae

Chrysomelidae

Systema sp.*

Baliosus nervosus

Cleridae

Phyllobaenus sp.*

Coccinellidae

Hyperaspis sp.*

Coleomegilla maculata

Cryptolaemus montrouzieri*

Harmonia axyridis
Curculionidae
Monarthrum sp.*
Cyrtepidomus castaneus*
Eulechriops minuta*
Odontopus calceatus
Pseudoeodophrys hilleri*
Strophosoma melanogrammum

Elateridae
Melanotus sp.
Horistonotus curiatus
Idolus bigeminatus*
Limonius basilaris
Lampyridae
Ellychnia corrusca
Lycidae
Leptocleptes basalis*
Mordellidae
Mordella marginata*
Mordellistena trifasciata

Scirtidae
Contacyphon sp.
Scirtes tibialis*
Scraptiidae
Anaspis sp.
Tenebrionidae

Bees, Wasps

Bethylidae*
Braconidae*
Diapriidae
Belyta sp.*
Eurytomidae*
Evaniidae
Evaniella semaeoda*
Figitidae*
Ichneumonidae*
Pergidae
Acordulecera sp.

Tenthredinidae
Caliroa sp.
Craterocercus sp.
Profenusa sp.*
Vespidae
Polistes fuscatus
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

Asilidae
Efferia aestuans
Bibionidae
Cecidomyiidae*
Ceratopogonidae*
Chaoboridae
Chaoborus sp.
Chironomidae
Chyromyidae
Dolichopodidae
Lauxaniidae
Homoneura sp.
Minettia sp.*
Limoniidae*
Phoridae*
Rhagionidae
Rhagio mystaceus*

Sciaridae*
Tipulidae

Other observations

Blattodea
Ectobius pallidus
Ectobius
Neuroptera
Chrysoperla
Chrysopidae
Coniopterygidae*
Odonata
Lestes*
Sympetrum*
Sympetrum vicinum
Opiliones
Leiobunum vittatum
Psocodea
Psocidae
Psocoptera
Polypsocus*
Trichoptera
Leptoceridae
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!



Sycamore tussock caterpillar, *Halysidota harrisii*, at Walker Nature Center, VA.

Allen Hurlbert
Director
Caterpillars Count!