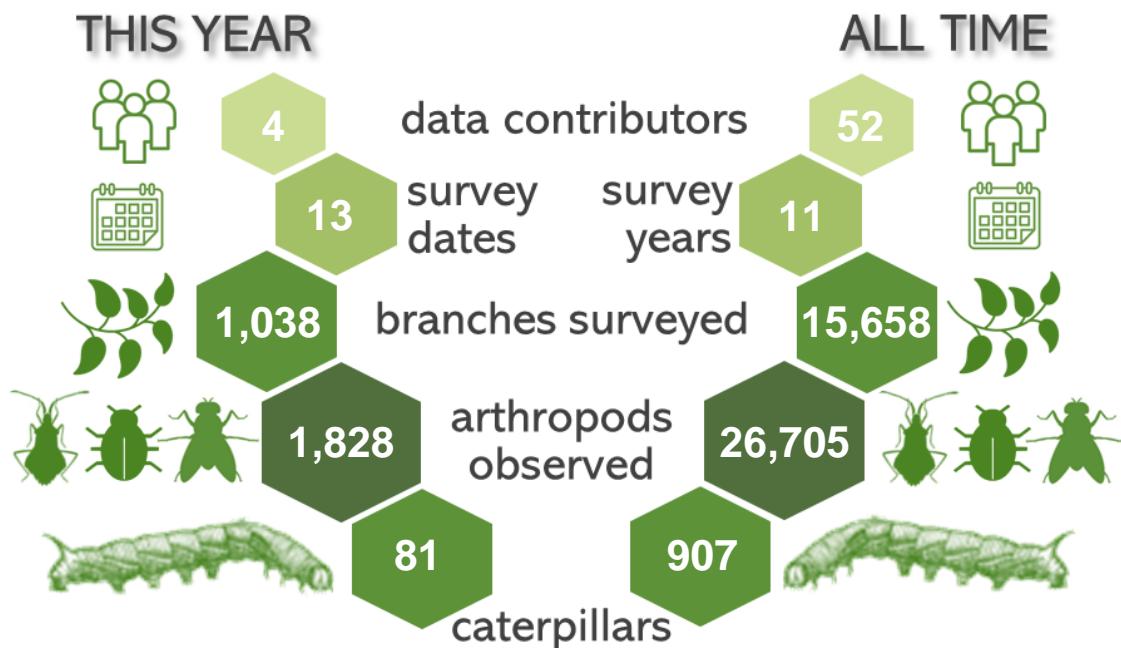


Caterpillars Count!



NC Botanical Garden, 2025 Summary



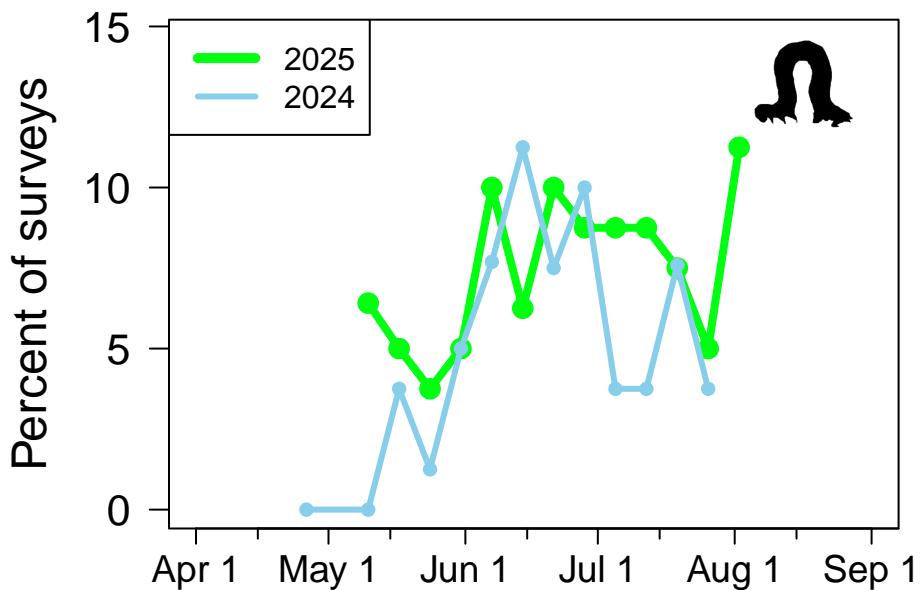
The **1,038** total surveys conducted at **NC Botanical Garden** this year ranks **3rd** out of the **68** sites that participated in 2025.

Top Participants of 2025

User	Surveys	Arthropods	Caterpillars	% Caterpillars
I Goulden	323	594	30	8.98
S Carter	334	585	31	8.38
A Hurlbert	107	179	7	6.54
B Acosta	274	470	13	4.74

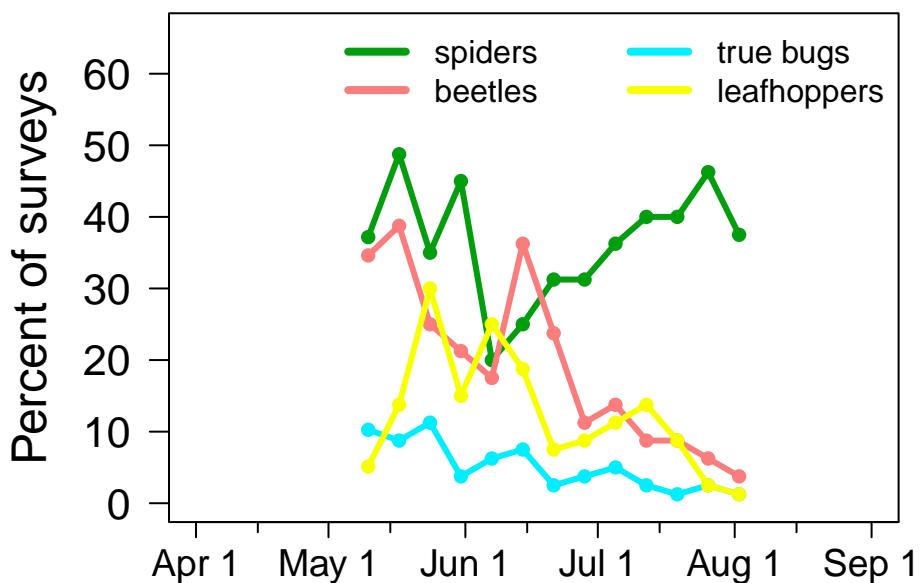
Caterpillar Phenology

As a major source of food for nestlings of migratory birds, we are especially interested in the timing of caterpillar availability. At **NC Botanical Garden in 2025**, caterpillar occurrence peaked at **11.2%** of surveys on **2 August**. Do you see other peaks as well? How does the pattern compare to the previous year?



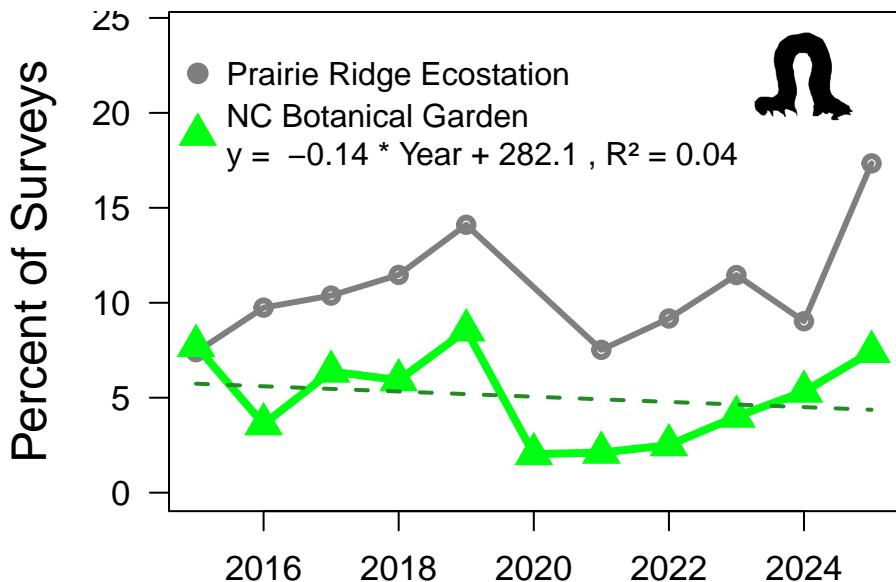
Other Arthropod Phenology

While caterpillars tend to have pronounced seasonal peaks, other groups are more variable. What patterns do you see below for **2025**? You can explore the phenology of other groups on the [Caterpillars Count! website](#).



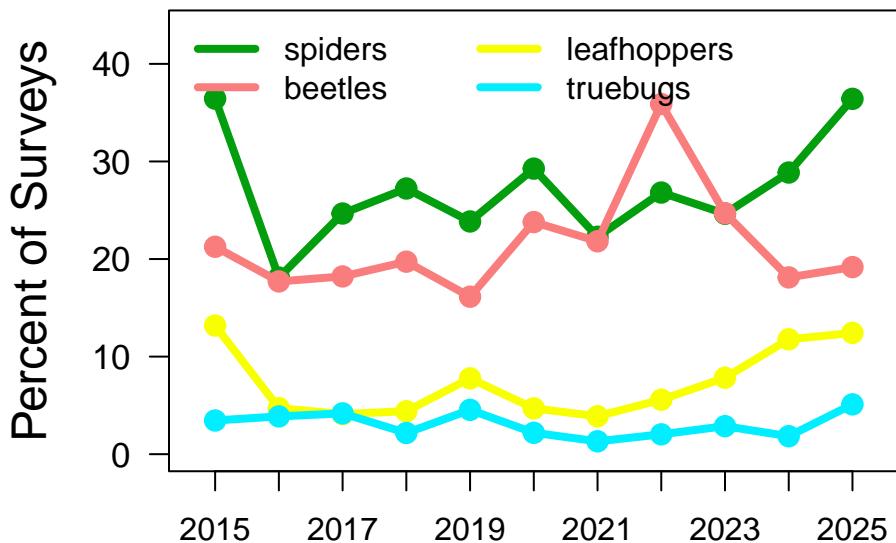
Arthropod Trends

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, **Prairie Ridge Ecostation**, 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?

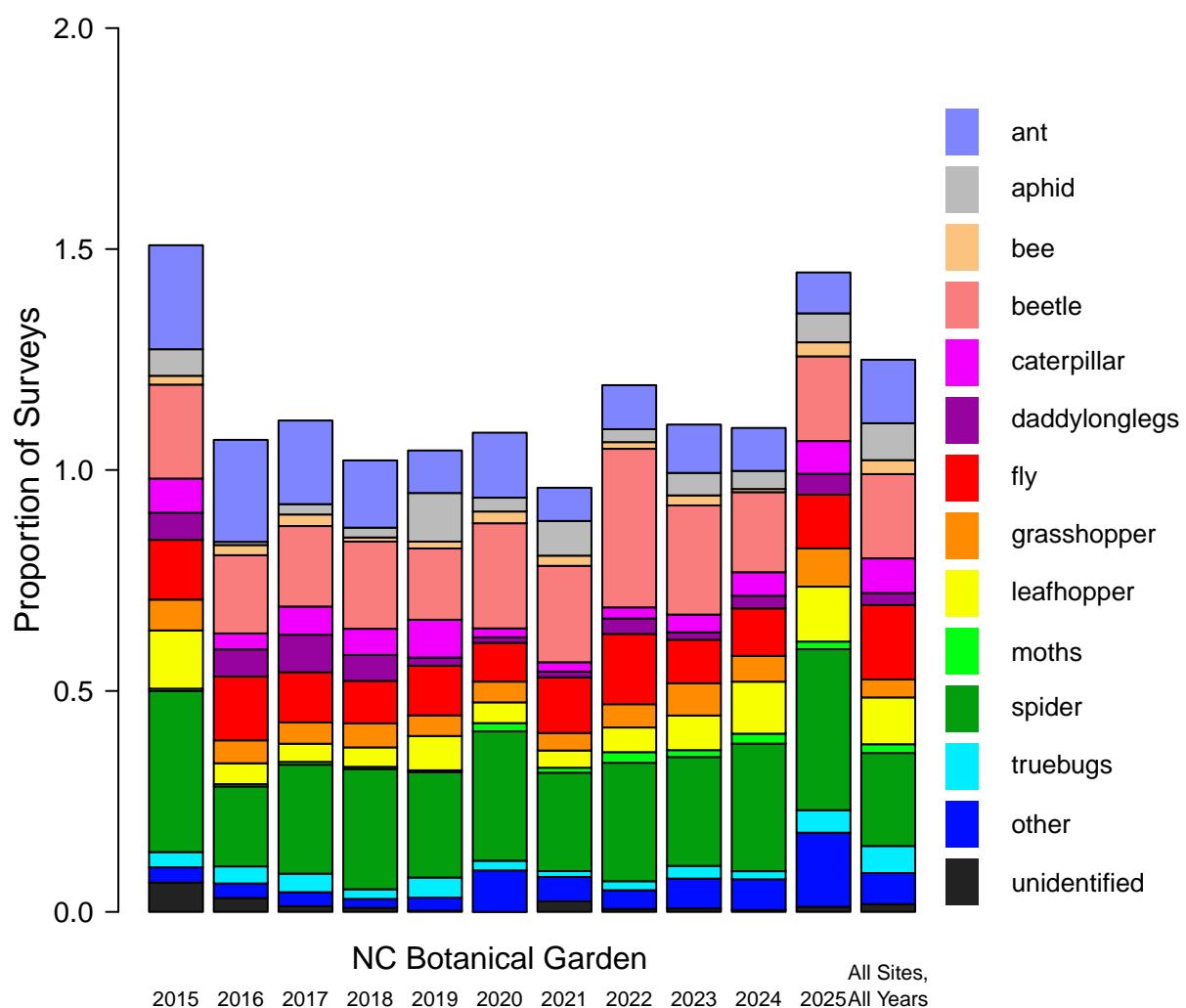


You can explore trends for more arthropod groups, and compare trends at different sites, on your site's [Trends Page](#). See also our [November 2021 newsletter](#) for more on how to interpret these trends.

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*).

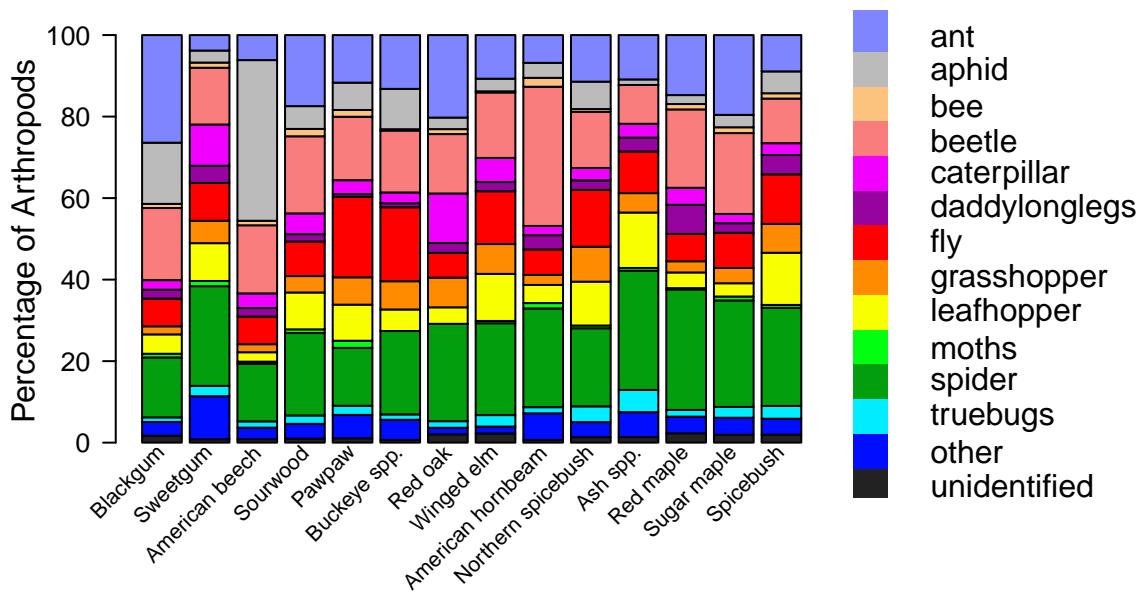
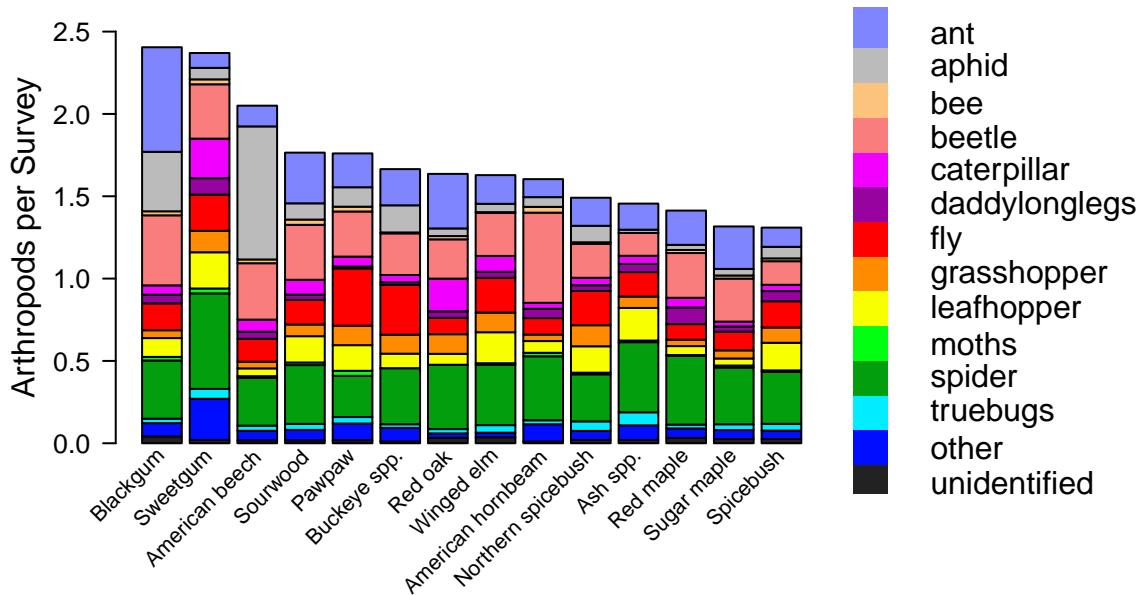
- What are the most common arthropod groups found at your site?
- Has that varied by year?
- Is anything noticeably different about **NC Botanical Garden** compared to all other participating sites?
- If arthropod photos were submitted as part of your site's surveys, check the last section of this report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

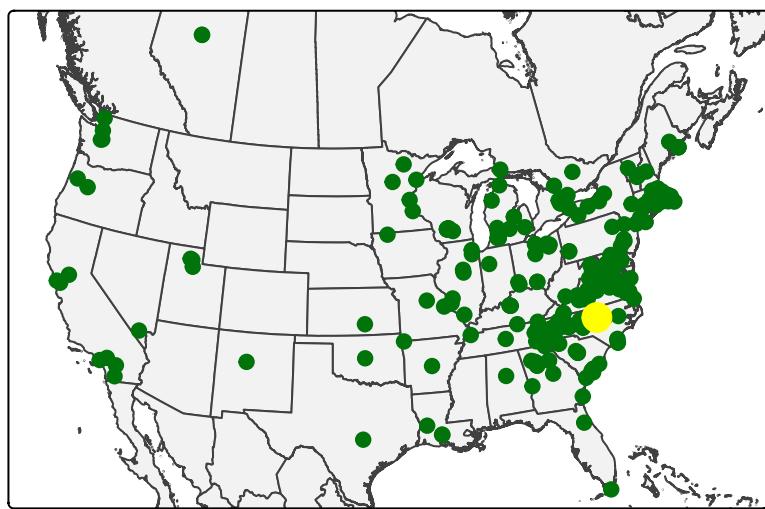
- Which plant species supports the most arthropods per survey?
- Which plant species supports the most **caterpillars**?
- Are any plant species dominated by just one or two types of arthropods?
- Or do they support a diversity of arthropod types?



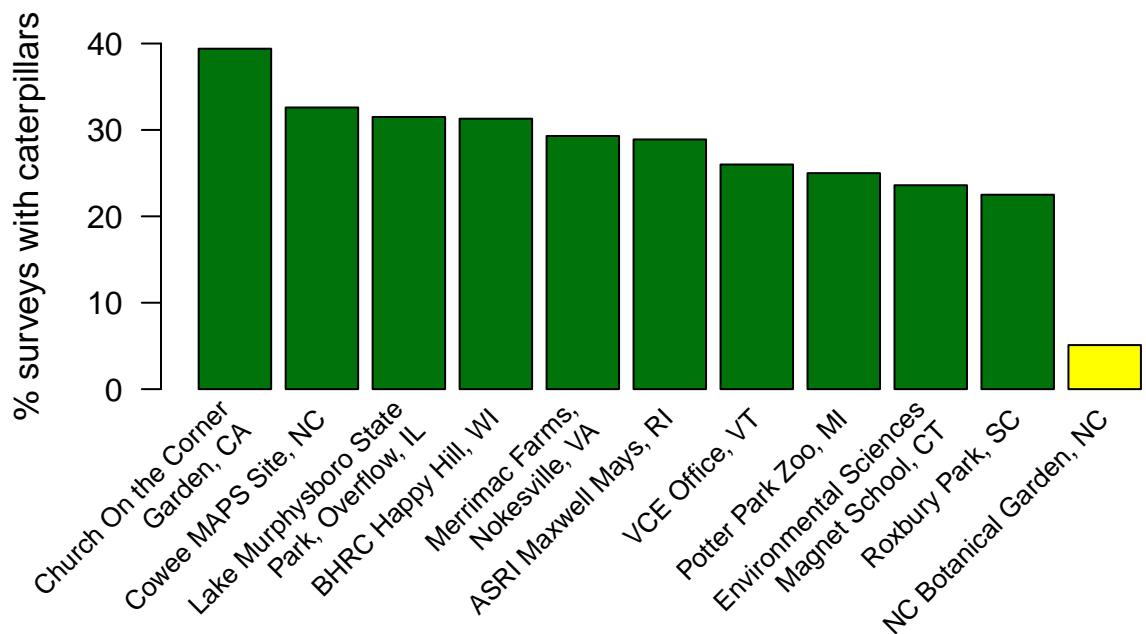
This bottom panel shows, of the arthropods found on a given plant species, what proportion were from each taxonomic group. At most, only the top 25 plant species are shown.

Broader Patterns

Thanks to participants like yourself, **Caterpillars Count!** observers have now submitted a total of **358,184** arthropod observations—including **23,494 caterpillars**—from **274** different sites.



Across all surveys ever done at **NC Botanical Garden**, caterpillars have been found **5.1%** of the time, which ranks **109th** across the **204** 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

Your site has submitted **3,119 Caterpillars Count!** photos which ranks **2nd** out of the **191** sites with photos. You can check them all out at the site's [iNaturalist page](#). Based on these photos, experts on iNaturalist have identified the following taxa, including at least **121** unique species. Taxa seen for the first time this year are marked with a *.

Caterpillars

Depressariidae	
<i>Antaeotricha schlaegeri</i>	
Erebidae	
<i>Halysidota tessellaris</i>	
<i>Hypena sp.</i>	
<i>Panopoda sp.</i>	
<i>Hyphantria cunea</i>	
<i>Orgyia leucostigma</i>	
Geometridae	
<i>Epimecis hortaria</i>	
<i>Hagyrtis unipunctata</i>	
Gracillariidae	
<i>Phyllonorycter sp.</i>	
Incurvariidae	
<i>Paraclemsenia acerifoliella</i>	
Limacodidae	
<i>Acharia stimulea</i>	
<i>Adoneta spinuloides*</i>	
Nepticulidae	
<i>Ectoedemia nyssaeefoliella</i>	
Noctuidae	
<i>Acronicta increta</i>	
<i>Acronicta americana</i>	
<i>Acronicta retardata</i>	
<i>Colocasia sp.</i>	
<i>Morrisonia confusa</i>	
Notodontidae	
<i>Peridea basitriens</i>	
<i>Cecrita biundata</i>	
<i>Cecrita guttivitta</i>	
<i>Lochmaeus bilineata</i>	
<i>Macrurocampa marthesia</i>	
Papilionidae	
<i>Papilio glaucus</i>	
Moths, Butterflies	
Blastobasidae	
<i>Blastobasis sp.</i>	

Crambidae

<i>Crambus sp.</i>	
<i>Anageshna primordialis</i>	
Geometridae	
<i>Dyspteris abortivaria</i>	
Notodontidae	
<i>Datana sp.</i>	
Tortricidae	
<i>Proteoteras sp.</i>	
Spiders	
Anyphaenidae	
<i>Anyphaena sp.</i>	
<i>Wulfila albens</i>	
Araneidae	
<i>Araneus marmoreus</i>	
<i>Eustala sp.</i>	
<i>Larinoides sp.</i>	
<i>Mangora placida</i>	
<i>Metepeira sp.</i>	
<i>Neoscona arabesca*</i>	
<i>Neoscona crucifera*</i>	
<i>Ocrepeira sp.*</i>	
<i>Micrathena gracilis</i>	
<i>Micrathena mitrata</i>	
<i>Micrathena sagittata</i>	
<i>Verrucosa arenata</i>	
Clubionidae	
<i>Castianeira sp.</i>	
Corinnidae	
<i>Trachelas sp.</i>	
Dictynidae*	
Philodromidae	
<i>Philodromus rufus*</i>	
Salticidae	
<i>Colonus sylvanus</i>	
<i>Hentzia mitrata*</i>	
<i>Lyssomanes viridis</i>	
<i>Paraphidippus aurantius</i>	

Tetragnathidae

<i>Leucauge venusta</i>
<i>Tetragnatha sp.</i>

Theridiidae

<i>Theridion sp.*</i>
<i>Asagena americana*</i>

Thomisidae

<i>Misumessus oblongus</i>
<i>Tmarus sp.</i>

Uloboridae

<i>Uloborus glomosus</i>
<i>Stenotrachelidae</i>

Grasshoppers, Crickets

Gryllacrididae	
<i>Camptonotus carolinensis</i>	
Gryllidae	
<i>Hapithus saltator*</i>	
<i>Cyrtoxiphia columbiana</i>	
Oecanthidae	
<i>Oecanthus sp.</i>	
<i>Neoxabea bipunctata</i>	
Tettigoniidae	
<i>Microcentrum sp.</i>	
<i>Scudderia sp.</i>	
Trigonidiidae	
<i>Cyrtoxiphia sp.</i>	
<i>Phyllopalpus pulchellus</i>	

True Bugs

Alydidae	
Coreidae	
<i>Acanthocephala declivis</i>	
<i>Acanthocephala terminalis</i>	
<i>Leptoglossus fulvicornis</i>	
<i>Leptoglossus oppositus</i>	
Lygaeidae	
<i>Lygaeus turcicus</i>	
Miridae	

Hyaliodes harti	<u>Aphids, Scales</u>	Melandryidae
Neolygus sp.	Aphididae	Mordellidae
Pentatomidae	Psyllidae	Mordellistena sp.
Banasa sp.	Psylla carpinicola	Falsomordellistena hebraica
Podisus maculiventris		Falsomordellistena pubescens
Reduviidae	<u>Beetles</u>	Glipa oculata
Sinea sp.	Buprestidae	Omethidae
Pselliopus barberi	Agrilus obsoletoguttatus	Omethes marginatus*
Zelus luridus	Cantharidae	Staphylinidae
	Rhagonycha sp.	Palaminus sp.
	Trypherus sp.*	Tenebrionidae
<u>Leafhoppers, Cicadas</u>	Cerambycidae	Strongylum crenatum
Acanaloniidae	Analeptura lineola	<u>Bees, Wasps</u>
Acanalonia bivittata	Neoclytus scutellaris	Braconidae*
Acanalonia conica	Urgleptes signatus	Chrysidae
Acanalonia servillei	Chrysomelidae	Formicidae*
Cercopidae	Cryptocephalus badius	Mutillidae
Prosapia bicincta	Demotina modesta	Pseudomethoca simillima
Cicadellidae	Coccinellidae	<u>Ants</u>
Oncopsis nigrinasi	Harmonia axyridis	Formicidae
Osbornellus sp.	Cupedidae	Formica fusca
Graphocephala coccinea	Tenomerga cinerea	Formica subsericea*
Jikradia olitoria*	Curculionidae	Camponotus americanus
Oncometopia orbona	Aphrastus taeniatus	Camponotus castaneus
Penthimia americana*	Cyrtepistomus castaneus	Camponotus pennsylvanicus
Cicadidae	Heilipus squamosus	Camponotus snellingi
Magicicada sp.	Magdalis armicollis	Camponotus subbarbatus
Flatidae	Odontopus calceatus	Nylanderia sp.
Flatormenis proxima	Pseudocneorhinus bifasciatus	Brachyponera chinensis
Metcalfa pruinosa	Pseudoedophrys hilleri	Prenolepis imparis
Ormenoides venusta	Elateridae	<u>Flies</u>
	Melanotus sp.	Cecidomyiidae
Issidae	Monocrepidius sp.*	Chironomidae
Thionia bullata*	Limonius quercinus	Culicidae
Thionia quinquata	Erotylidae	Psorophora ferox
Membracidae	Hybosoridae	Dolichopodidae
Platycotis vittata	Germarostes sp.	Condylostylus comatus
Telamona ampelopsidis	Lampyridae	
Tropiduchidae	Photinus pyralis	
Pelitropis rotulata		

Condylostylus siphon	Opiliones
Gymnopternus sp.	Leiobunum
Amblypsilopus dorsalis	Leiobunum vittatum
Keroplatidae	Plecoptera
Macrocerata formosa	Nemouridae
Lauxaniidae	Polydesmida
Homoneura sp.	Oxidus gracilis
Minettia sp.	Psocodea
Neogriphoneura sp.*	Polypscus corruptus*
Limoniidae	Psocoptera
Epiphragma solatrix	Ectopsocus*
Gnophomyia tristissima	Stylocephalophora
Rhagionidae	Pallifera
Rhagio punctipennis	Philomycidae
Sarcophagidae	
Syrphidae	
Tipulidae	
Erioptera needhami	

Other observations

Chordeumatida	
Cleidogona*	
Collembola	
Tomocerinae	
Ixodida	
Amblyomma americanum	
Mantodea	
Stagmomantis carolina	
Neuroptera	
Ceraeochrysa*	
Chrysoperla	
Chrysoperla rufilabris*	
Chrysopidae	
Leucochrysa	
Hemerobiidae	
Odonata	
Calopteryx maculata	
Argia tibialis	

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!



Spicebush swallowtail caterpillar, *Papilio troilus*, observed by *tem1691* on August 22, 2025 at **Lake Murphysboro State Park, Overflow**, Illinois.

Allen Hurlbert

Director

Caterpillars Count!

caterpillarscount@gmail.com