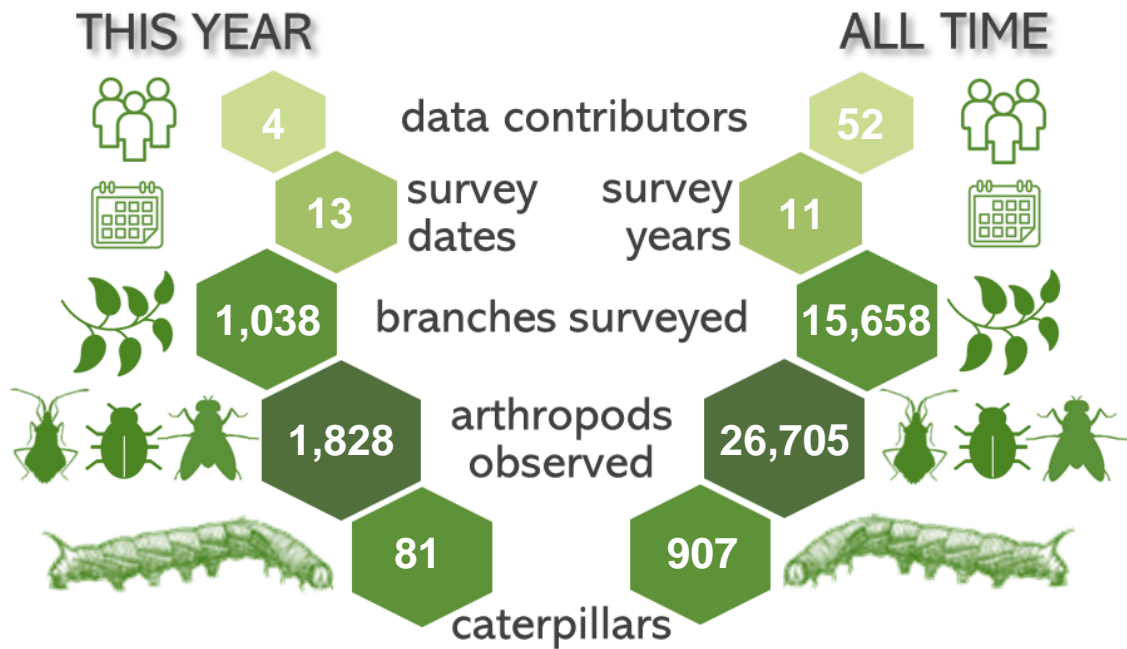




NC Botanical Garden, 2025 Summary



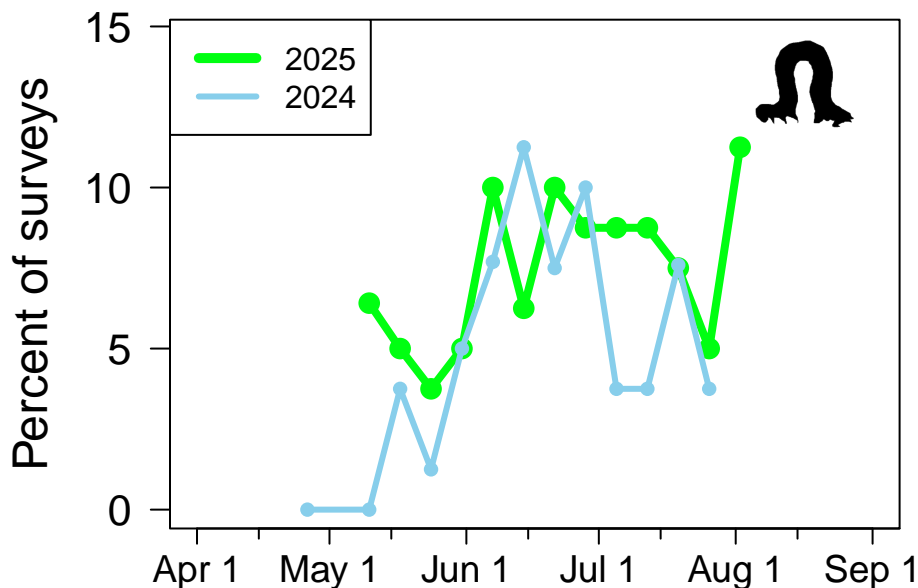
The **1,038** total surveys conducted at **NC Botanical Garden** this year ranks **3rd** out of the **68** sites that participated in 2025.

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           |

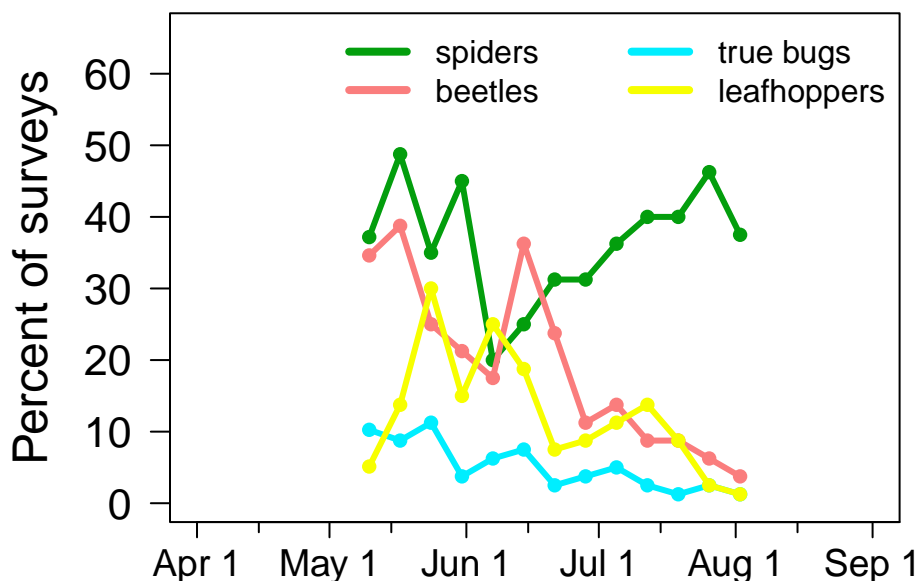
## Caterpillar Phenology

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?



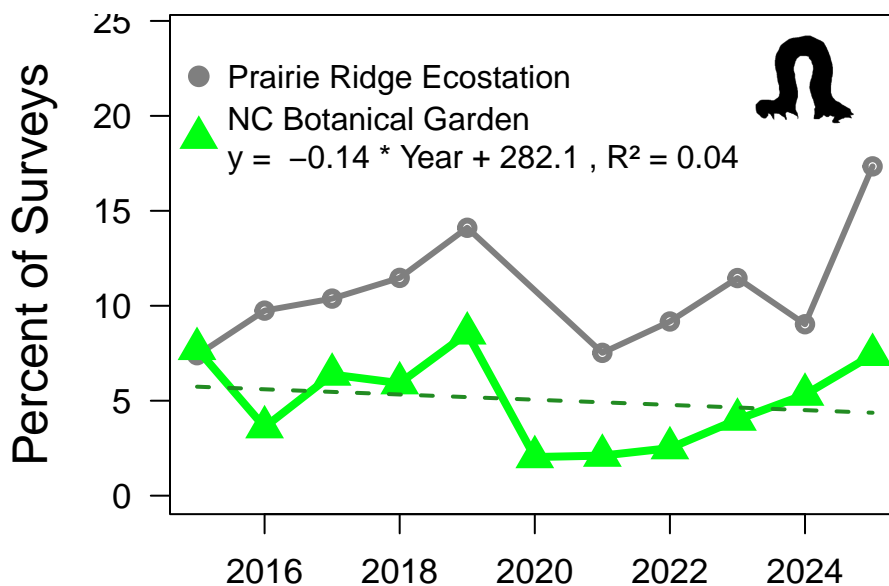
## Other Arthropod Phenology

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.



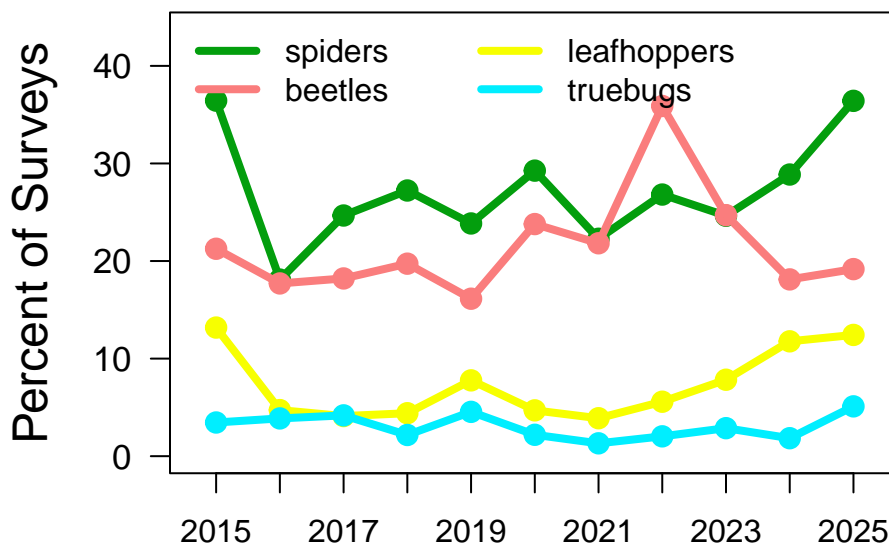
## Arthropod Trends

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?

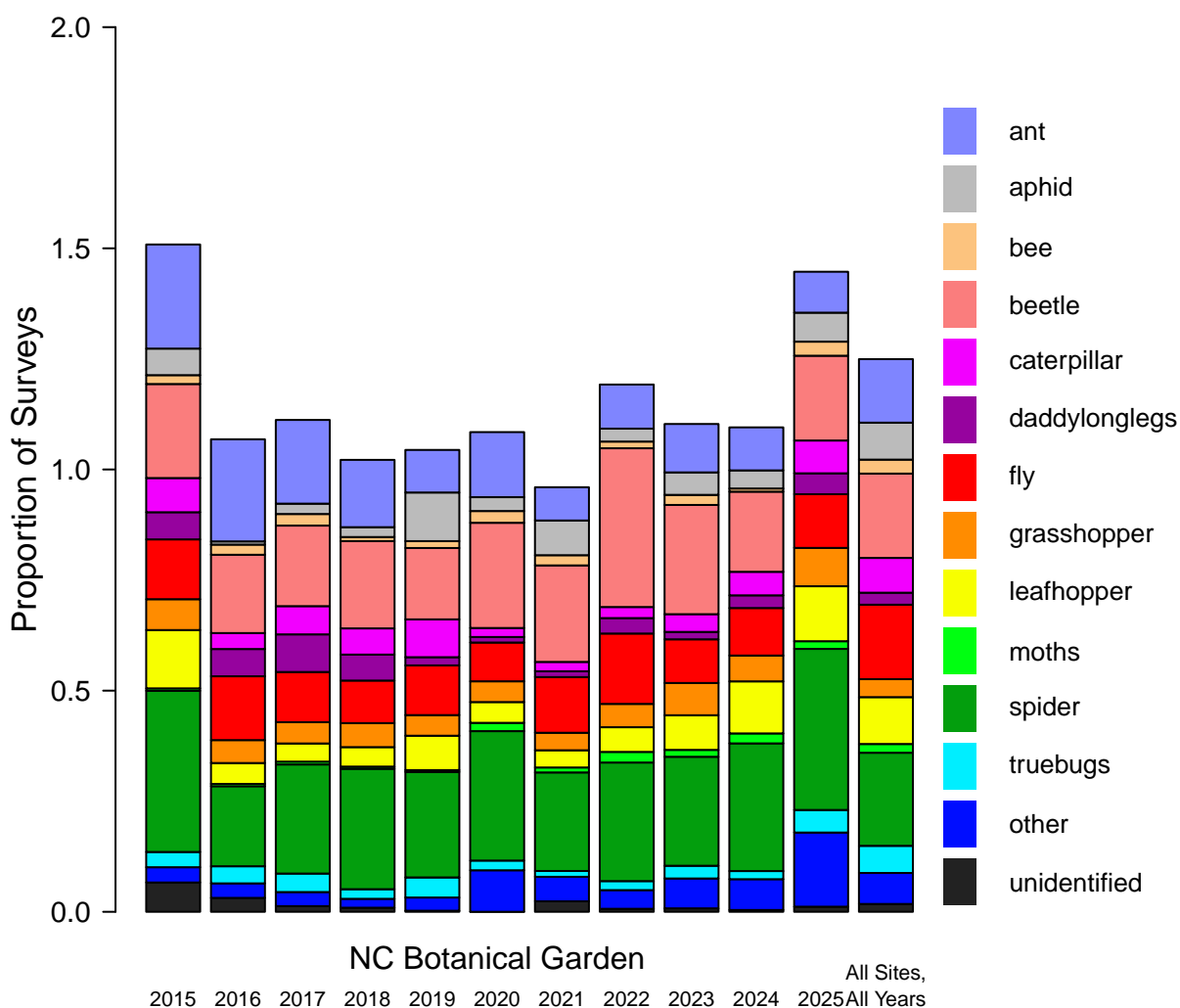


You can explore trends for more arthropod groups, and compare trends at different sites, on your site's **Trends Page**. See also our **November 2021 newsletter** for more on how to interpret these trends.

## 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*).

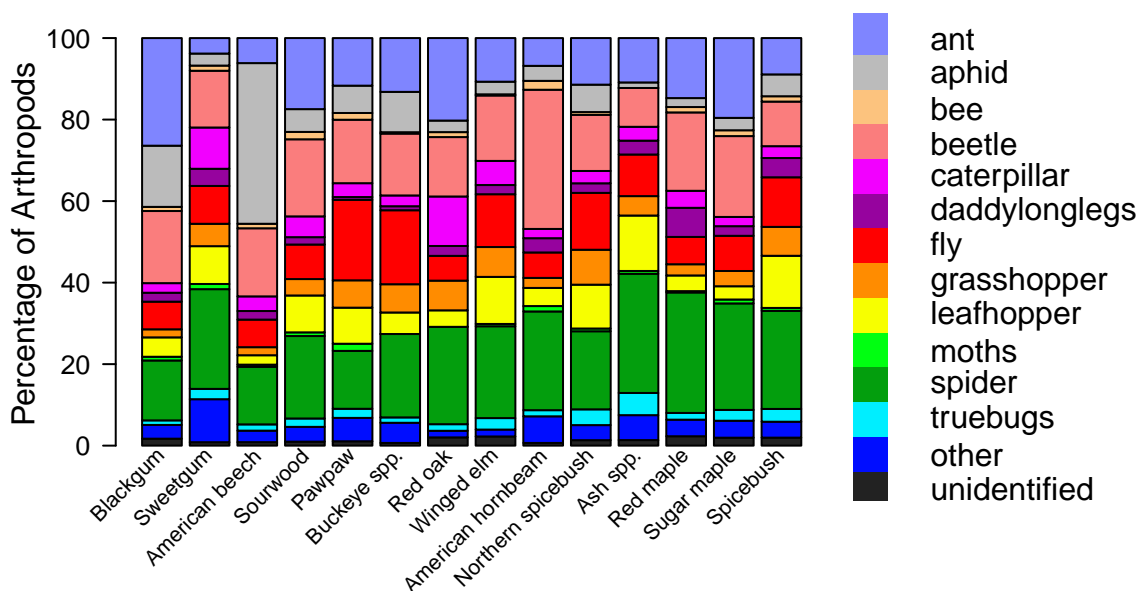
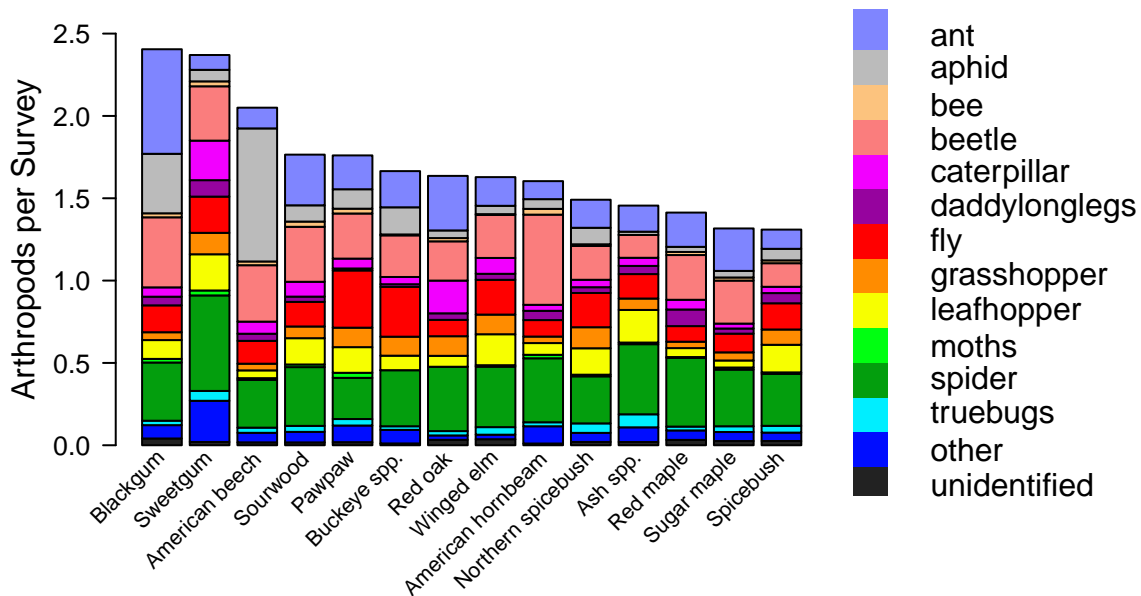
- What are the most common arthropod groups found at your site?
- Has that varied by year?
- Is anything noticeably different about **NC Botanical Garden** compared to all other participating sites?
- If arthropod photos were submitted as part of your site's surveys, check the last section of this report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

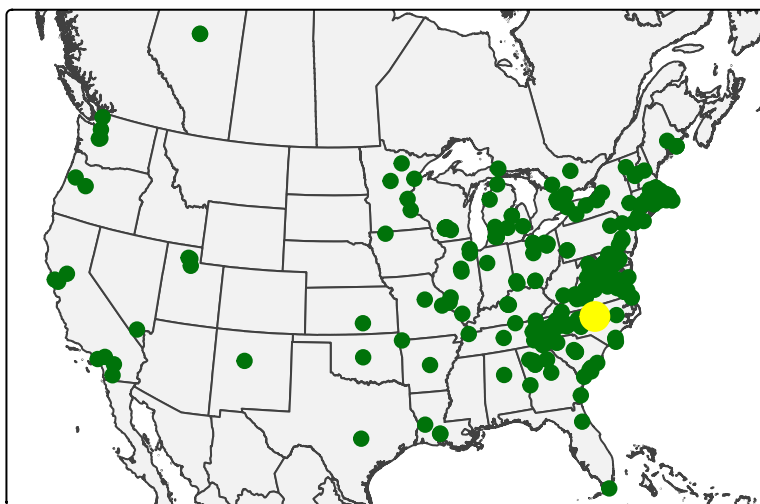
- Which plant species supports the most arthropods per survey?
- Which plant species supports the most **caterpillars**?
- Are any plant species dominated by just one or two types of arthropods?
- Or do they support a diversity of arthropod types?



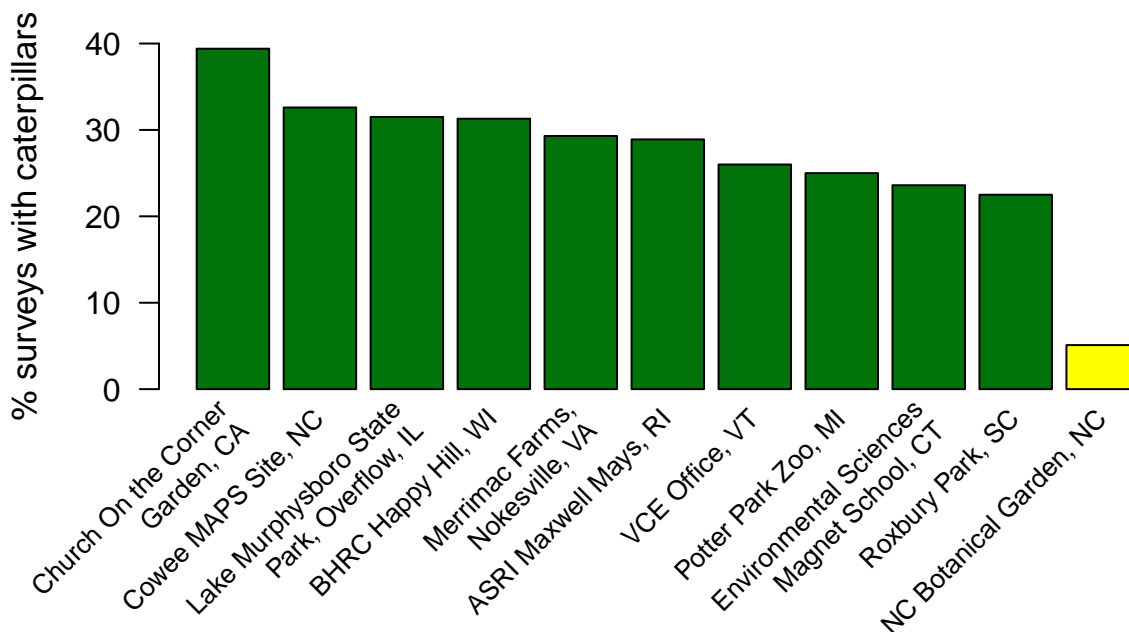
This bottom panel shows, of the arthropods found on a given plant species, what proportion were from each taxonomic group. At most, only the top 25 plant species are shown.

## 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  $\geq 20$  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

*Antaeotricha schlaegeri*

#### Erebidae

*Halysidota tessellaris*

*Hypena* sp.

*Panopoda* sp.

*Hyphantria cunea*

*Orgyia leucostigma*

#### Geometridae

*Epimecis hortaria*

*Hypagyrtis unipunctata*

#### Gracillariidae

*Phyllonorycter* sp.

#### Incurvariidae

*Paraclemensia acerifoliella*

#### Limacodidae

*Acharia stimulea*

*Adoneta spinuloides*\*

#### Nepticulidae

*Ectoedemia nyssaefoliella*

#### Noctuidae

*Acronicta increta*

*Acronicta americana*

*Acronicta retardata*

*Colocasia* sp.

*Morrisonia confusa*

#### Notodontidae

*Peridea basitriens*

*Cecrita biundata*

*Cecrita guttivitta*

*Lochmaeus bilineata*

*Macrurocampta marthesia*

#### Papilionidae

*Papilio glaucus*

### Moths, Butterflies

#### Blastobasidae

*Blastobasis* sp.

#### Crambidae

*Crambus* sp.

*Anageshna primordialis*

#### Geometridae

*Dyspteris abortivaria*

#### Notodontidae

*Datana* sp.

#### Tortricidae

*Proteoteras* sp.

### Spiders

#### Anyphaenidae

*Anyphaena* sp.

*Wulfila albens*

#### Araneidae

*Araneus marmoreus*

*Eustala* sp.

*Larinioides* sp.

*Mangora placida*

*Metepeira* sp.

*Neoscona arabesca*\*

*Neoscona crucifera*\*

*Ocrepeira* sp.\*

*Micrathena gracilis*

*Micrathena mitrata*

*Micrathena sagittata*

*Verrucosa arenata*

#### Clubionidae

*Castianeira* sp.

#### Corinnidae

*Trachelas* sp.

#### Dictynidae\*

#### Philodromidae

*Philodromus rufus*\*

#### Salticidae

*Colonus sylvanus*

*Hentzia mitrata*\*

*Lyssomanes viridis*

*Paraphidippus aurantius*

#### Tetragnathidae

*Leucauge venusta*

*Tetragnatha* sp.

#### Theridiidae

*Theridion* sp.\*

*Asagena americana*\*

#### Thomisidae

*Misumessus oblongus*

*Tmarus* sp.

#### Uloboridae

*Uloborus glomus*

#### Stenotrichidae

### Grasshoppers, Crickets

#### Gryllacrididae

*Camptonotus carolinensis*

#### Gryllidae

*Hapithus saltator*\*

*Cyrtoxipha columbiana*

#### Oecanthidae

*Oecanthus* sp.

*Neoxabea bipunctata*

#### Tettigoniidae

*Microcentrum* sp.

*Scudderia* sp.

#### Trigonidiidae

*Cyrtoxipha* sp.

*Phyllopalpus pulchellus*

### True Bugs

#### Alydidae

#### Coreidae

*Acanthocephala declivis*

*Acanthocephala terminalis*

*Leptoglossus fulvicornis*

*Leptoglossus oppositus*

#### Lygaeidae

*Lygaeus turcicus*

#### Miridae

Hyaliodes harti  
 Neolygus sp.  
 Pentatomidae  
   Banasa sp.  
   Podisus maculiventris  
 Reduviidae  
   Sinea sp.  
   Pselliopus barberi  
   Zelus luridus

### Leafhoppers, Cicadas

Acanaloniidae  
   Acanalonia bivittata  
   Acanalonia conica  
   Acanalonia servillei  
 Cercopidae  
   Prosapia bicincta  
 Cicadellidae  
   Oncopsis nigrinasi  
   Osbornellus sp.  
   Graphocephala coccinea  
   Jikradia olitoria\*  
   Oncometopia orbona  
   Penthimia americana\*  
 Cicadidae  
   Magicicada sp.  
 Flatidae  
   Flatormenis proxima  
   Metcalfa pruinosa  
   Ormenoides venusta  
 Issidae  
   Thionia bullata\*  
   Thionia quinquata  
 Membracidae  
   Platycotis vittata  
   Telamona ampelopsidis  
 Tropiduchidae  
   Pelitropis rotulata

### Aphids, Scales

Aphididae  
 Psyllidae  
   Psylla carpinicola

### Beetles

Buprestidae  
   Agrilus obsoletoguttatus  
 Cantharidae  
   Rhagonycha sp.  
   Trypheus sp.\*  
 Cerambycidae  
   Analeptura lineola  
   Neoclytus scutellaris  
   Urgleptes signatus  
 Chrysomelidae  
   Cryptocephalus badius  
   Demotina modesta  
 Coccinellidae  
   Harmonia axyridis  
 Cupedidae  
   Tenomerga cinerea  
 Curculionidae  
   Aphrastus taeniatius  
   Cyrtepidomus castaneus  
   Heilipus squamosus  
   Magdalis armicollis  
   Odontopus calceatus  
   Pseudocneorhinus bifasciatus  
   Pseudoedophrys hilleri  
 Elateridae  
   Melanotus sp.  
   Monocrepidius sp.\*  
   Limoniis quercinus  
 Erotylidae  
 Hybosoridae  
   Germarostes sp.  
 Lampyridae  
   Photinus pyralis

Melandryidae  
 Mordellidae  
   Mordellistena sp.  
   Falsomordellistena hebraica  
   Falsomordellistena pubescens  
   Glipa oculata  
 Omethidae  
   Omethes marginatus\*  
 Staphylinidae  
   Palaminus sp.  
 Tenebrionidae  
   Strongylium crenatum

### Bees, Wasps

Braconidae\*  
 Chrysididae  
 Formicidae\*  
 Mutillidae  
   Pseudomethoca simillima

### Ants

Formicidae  
   Formica fusca  
   Formica subsericea\*  
   Camponotus americanus  
   Camponotus castaneus  
   Camponotus pennsylvanicus  
   Camponotus snellingi  
   Camponotus subbarbatus  
   Nylanderia sp.  
   Brachyponera chinensis  
   Prenolepis imparis

### Flies

Cecidomyiidae  
 Chironomidae  
 Culicidae  
   Psorophora ferox  
 Dolichopodidae  
   Condylostylus comatus



Condyllostylus siphon  
 Gymnopternus sp.  
 Amblypsilopus dorsalis  
 Keroplatidae  
 Macrocera formosa  
 Lauxaniidae  
 Homoneura sp.  
 Minettia sp.  
 Neogriphoneura sp.\*  
 Limoniidae  
 Epiphragma solatrix  
 Gnophomyia tristissima  
 Rhagionidae  
 Rhagio punctipennis  
 Sarcophagidae  
 Syrphidae  
 Tipulidae  
 Erioptera needhami

Opiliones  
 Leiobunum  
 Leiobunum vittatum  
 Plecoptera  
 Nemouridae  
 Polydesmida  
 Oxidus gracilis  
 Psocodea  
 Polypsocus corruptus\*  
 Psocoptera  
 Ectopsocus\*  
 Stylommatophora  
 Pallifera  
 Philomycidae

### 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