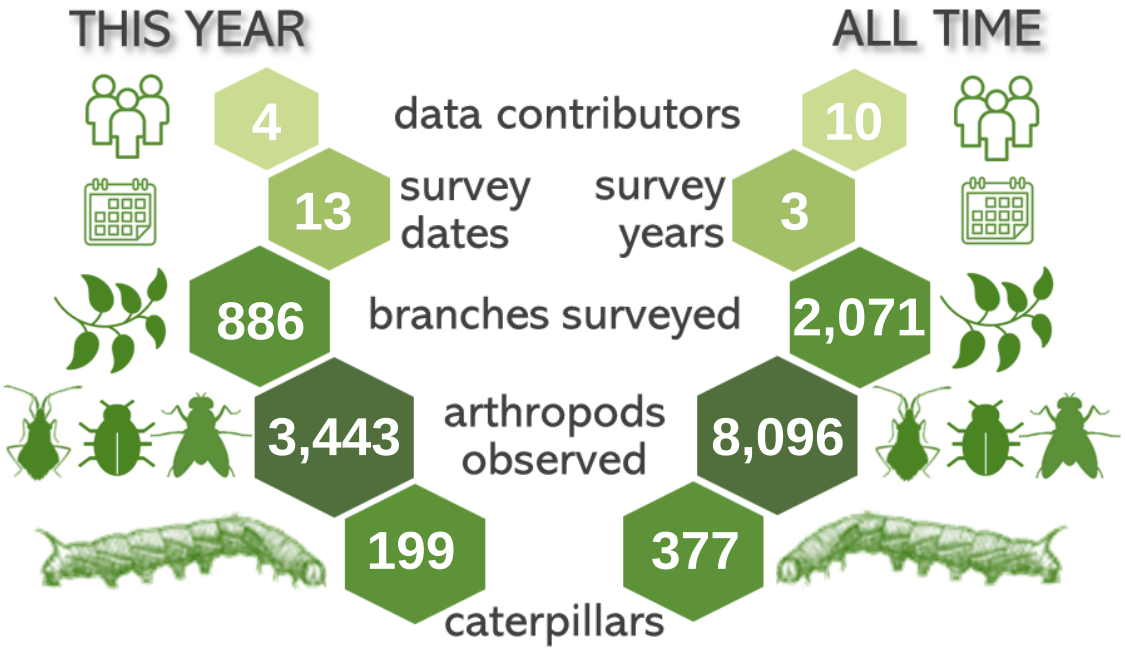

## Triangle Land Conservancy - Johnston Mill Nature Preserve, 2025



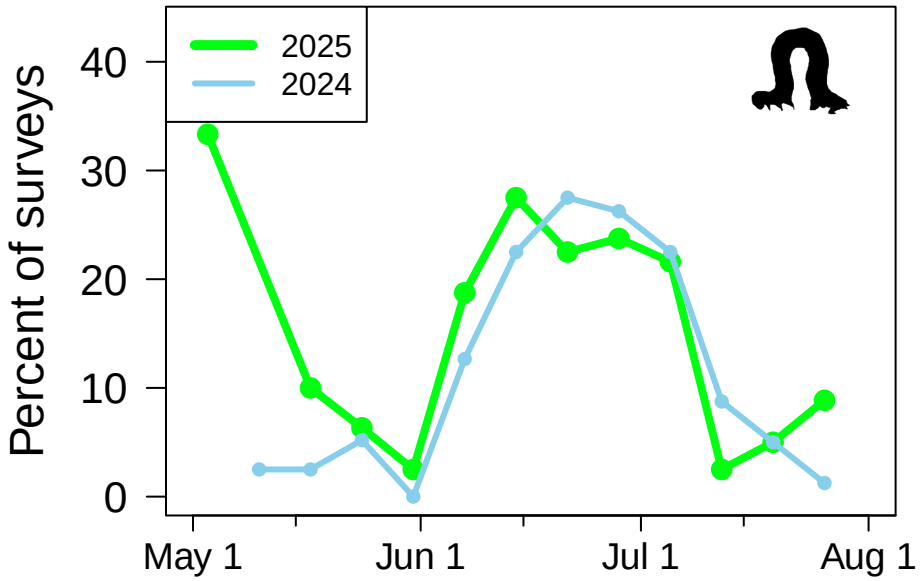

The **886** total surveys conducted at **Triangle Land Conservancy - Johnston Mill Nature Preserve** this year ranks **5th** out of the **68** sites that participated in 2025.

## Top Participants of 2025

| User | Surveys | Arthropods | Caterpillars | % Caterpillars |
|---|---|---|---|---|
| I Goulden | 256 | 589 | 65 | 17.58 |
| A Hurlbert | 171 | 1819 | 40 | 15.20 |
| S Carter | 239 | 503 | 50 | 13.81 |
| B Acosta | 220 | 532 | 44 | 11.36 |

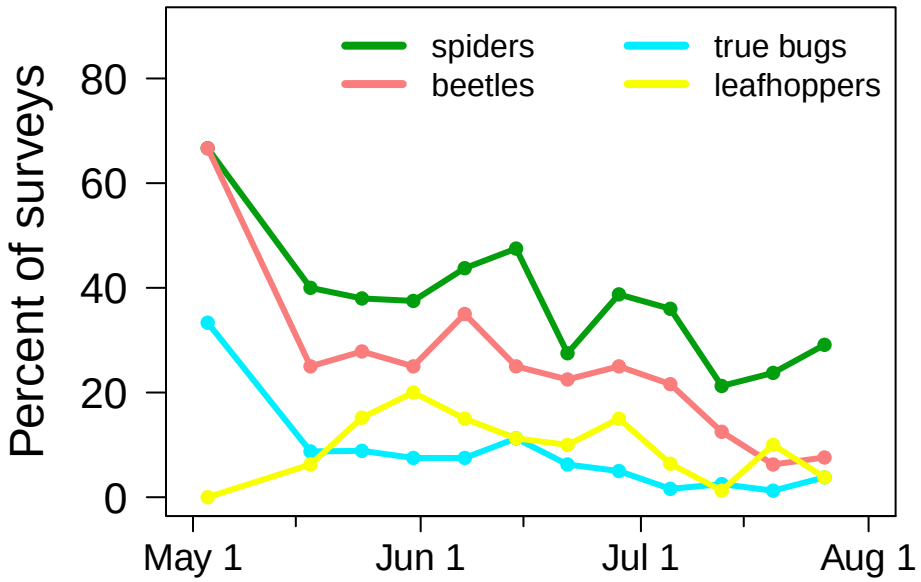
## Caterpillar Phenology

As a major source of food for nestlings of migratory birds, we are especially interested in the timing of caterpillar availability. At **Triangle Land Conservancy - Johnston Mill Nature Preserve** in **2025**, caterpillar occurrence peaked at **33.3%** of surveys on **3 May**. Do you see other peaks as well? How does the pattern compare to the previous year?



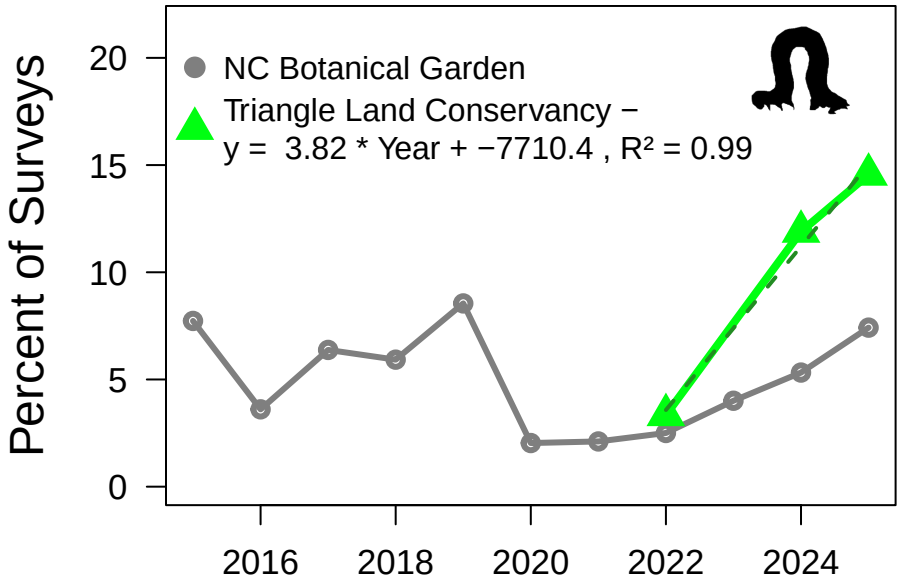

## Other Arthropod Phenology

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



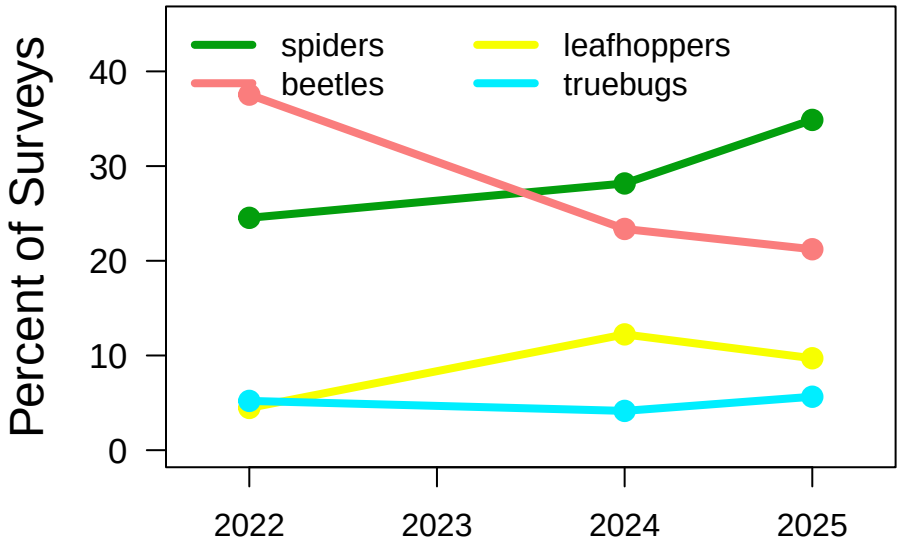
## Arthropod Trends

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, **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?

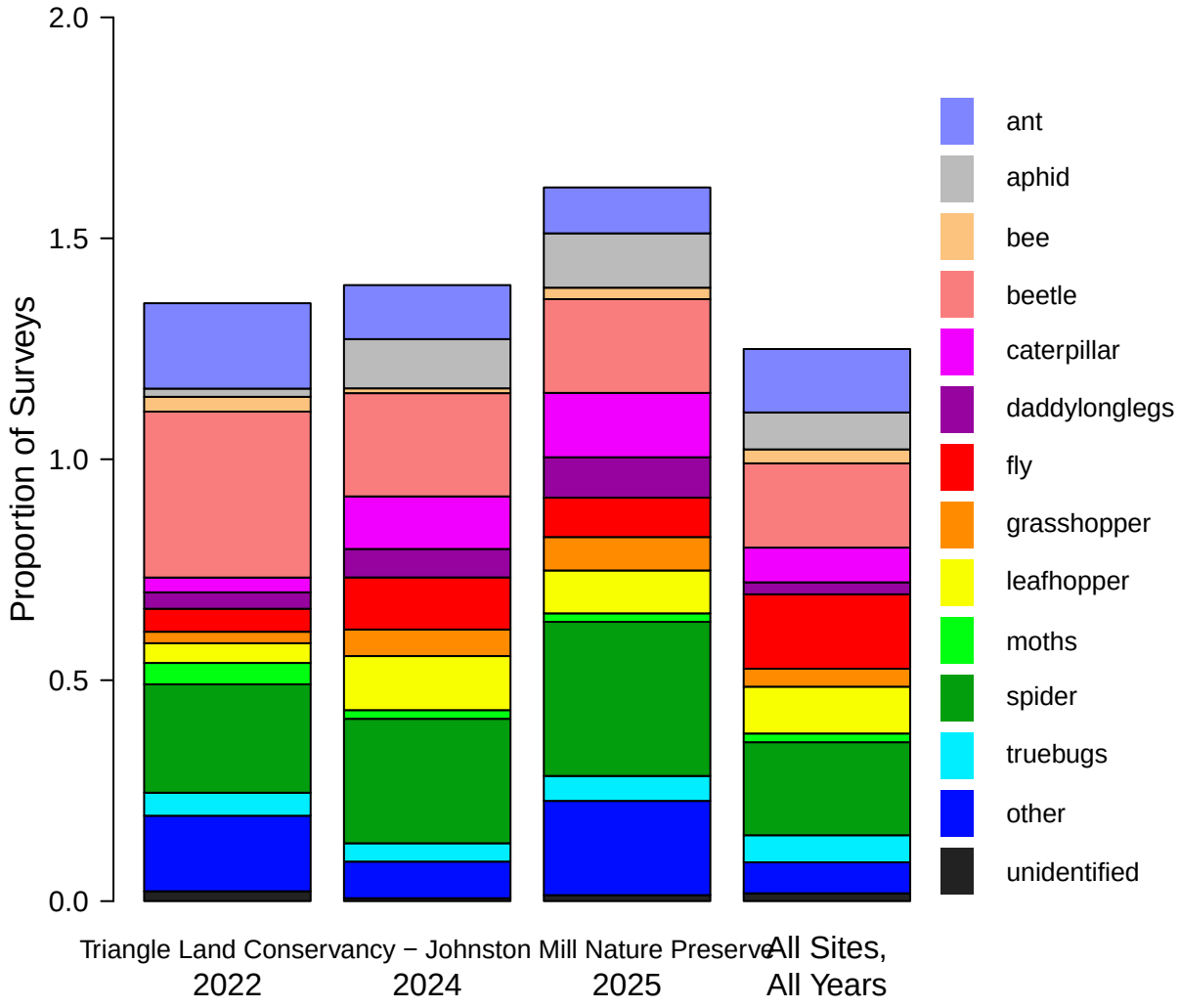



You can explore trends for more arthropod groups, and compare trends at different sites, on your site's **Trends Page**. See also our **November 2021 newsletter** for more on how to interpret these trends.

## 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*).

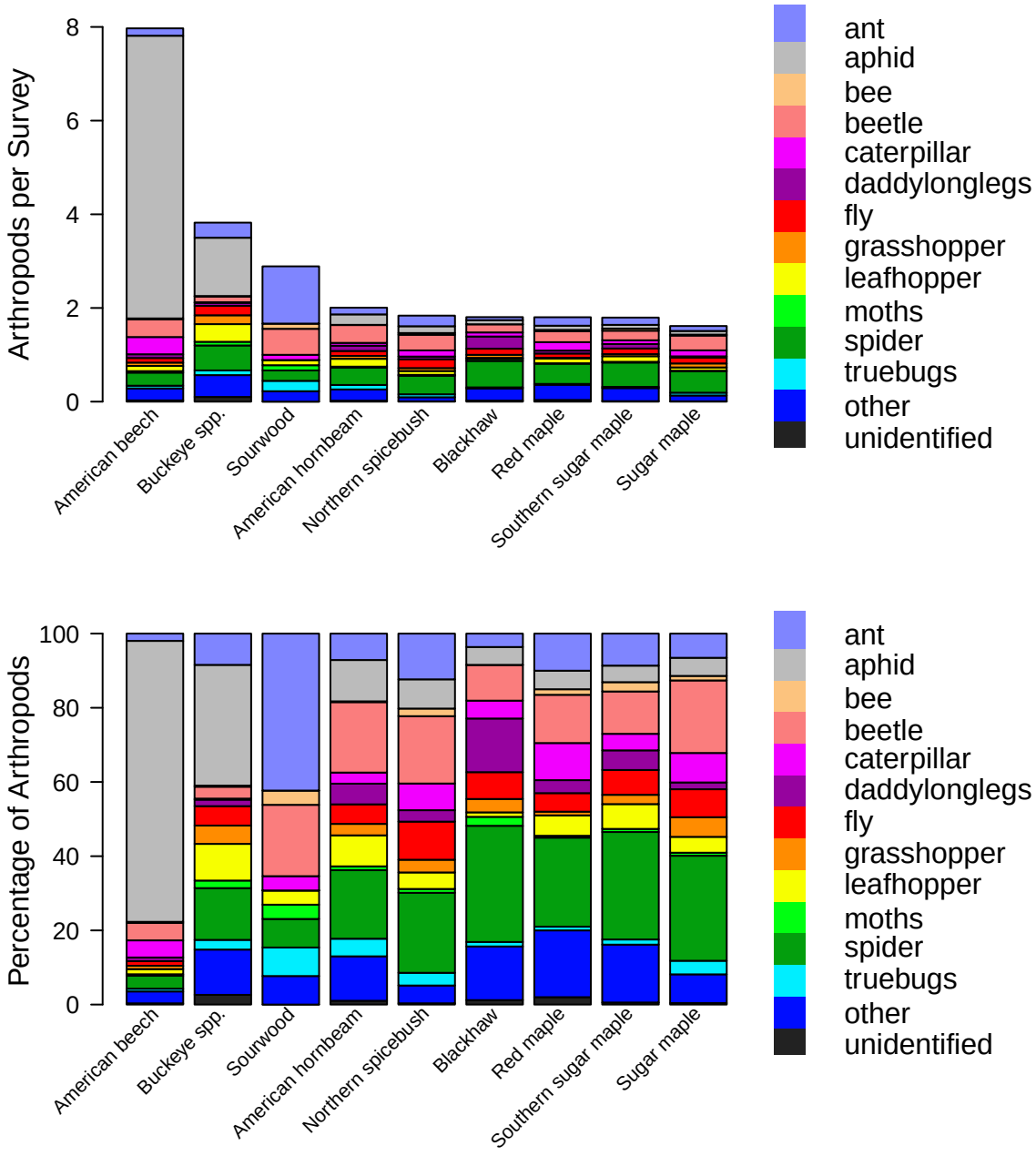
- What are the most common arthropod groups found at your site?
- Has that varied by year?
- Is anything noticeably different about **Triangle Land Conservancy - Johnston Mill Nature Preserve** compared to all other participating sites?
- If arthropod photos were submitted as part of your site's surveys, 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.

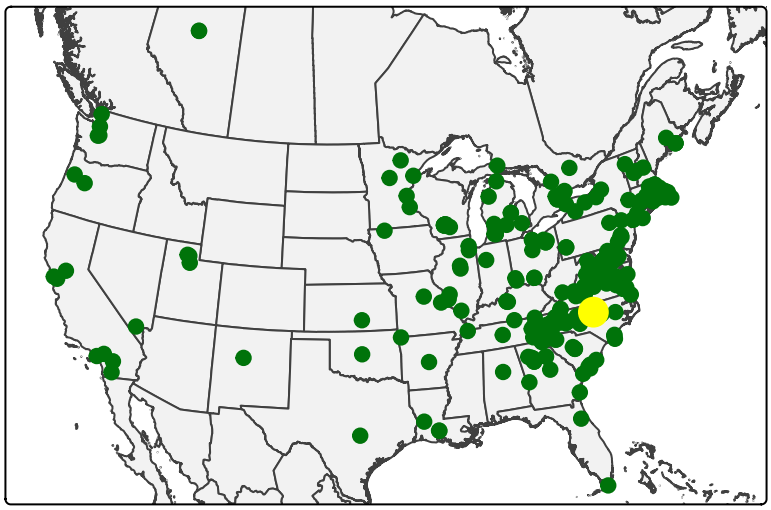
- Which plant species supports the most arthropods per survey?
- Which plant species supports the most **caterpillars**?
- Are any plant species dominated by just one or two types of arthropods?
- Or do they support a diversity of arthropod types?



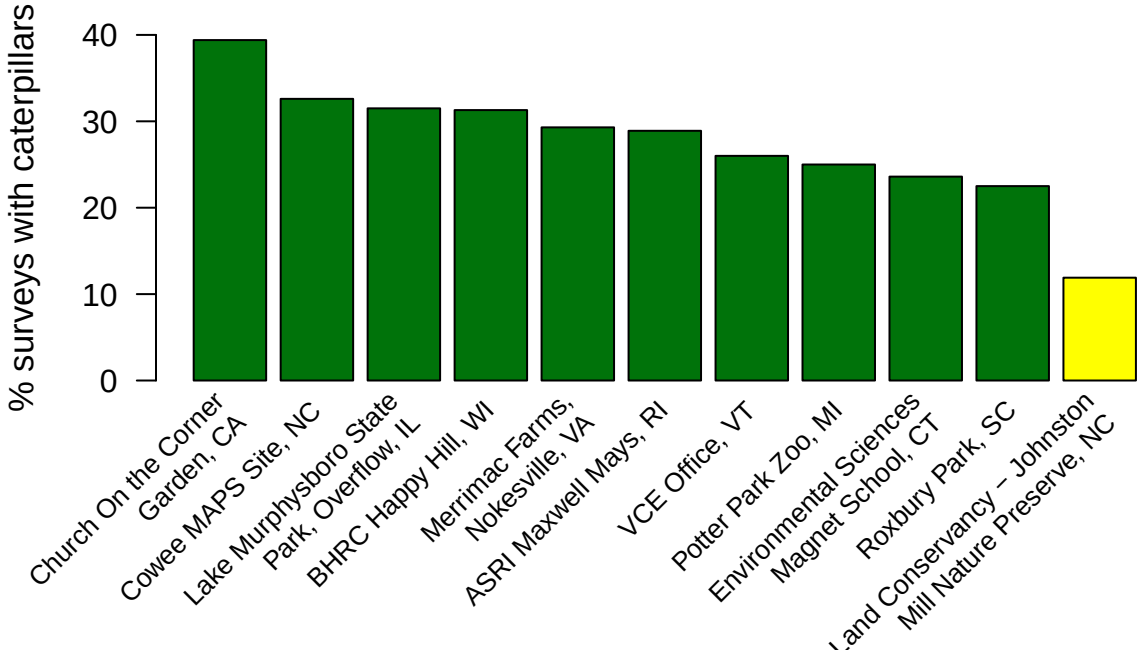

This bottom panel shows, of the arthropods found on a given plant species, what proportion were from each taxonomic group. At most, only the top 25 plant species are shown.

## 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 **Triangle Land Conservancy - Johnston Mill Nature Preserve**, caterpillars have been found **11.9%** of the time, which ranks **52nd** 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 **1,718** ***Caterpillars Count!*** photos which ranks **6th** 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 **66** unique species. Taxa seen for the first time this year are marked with a *.

### Caterpillars

Depressariidae
- Machimia tentoriferella

Erebidae
- Hyphantria cunea

Geometridae
- Epimecis hortaria

Limacodidae
- Acharia stimulea
- Lithacodes fasciola*

Noctuidae
- Acronicta americana*
- Acronicta morula
- Colocasia sp.
- Morrisonia confusa

Notodontidae

Papilionidae
- Papilio troilus

### Moths, Butterflies

Coleophoridae
- Coleophora sp.

Erebidae
- Lascoria ambigualis*

Oecophoridae
- Decantha boreasella

Tortricidae
- Olethreutes fasciatana*

### Spiders

Anyphaenidae
- Anyphaena sp.
- Wulfila albens

Araneidae
- Mangora placida
- Mangora spiculata*
- Neoscona arabesca
- Neoscona crucifera*
- Araneus marmoreus
- Micrathena gracilis
- Micrathena mitrata*
- Micrathena sagittata
- Verrucosa arenata

Clubionidae*

Corinnidae
- Trachelas sp.

Dictynidae

Mimetidae
- Mimetus sp.*

Philodromidae
- Philodromus sp.

Pisauridae
- Dolomedes tenebrosus

Salticidae
- Colonus sylvanus*
- Phidippus whitmani*

Tetragnathidae
- Leucauge venusta
- Tetragnatha sp.

Theridiidae
- Phylloneta pictipes*
- Theridion sp.
- Yunohamella lyrica*

Thomisidae
- Misumessus oblongus
- Tmarus sp.
- Synema parvulum

Stenotrachelidae*

### Grasshoppers, Crickets

Gryllidae
- Hapithus saltator*

Oecanthidae
- Oecanthus sp.*
- Neoxabea bipunctata*

Trigonidiidae
- Phyllopalpus pulchellus

### True Bugs

Coreidae
- Acanthocephala sp.

Miridae*

Pentatomidae

Reduviidae
- Sinea sp.
- Zelus luridus*

### Leafhoppers, Cicadas

Acanaloniidae
- Acanalonia conica

Cicadellidae
- Scaphoideus sp.
- Joruma pisca*
- Oncopsis nigrinasi*
- Orientus ishidae*

Cicadidae
- Magicicada tredecim

Cixiidae*

Derbidae
- Cedusa sp.

Flatidae
- Flatormenis proxima
- Metcalfa pruinosa*

Issidae
- Thionia bullata

Membracidae
- Platycotis vittata

### Aphids, Scales

Aphididae

Pemphigidae
- Grylloprociphilus imbricator

Psyllidae
- Psylla carpinicola*

### Beetles

Anthicidae
- Macratria sp.

Cantharidae
- Rhagonycha sp.*

Cerambycidae*

Chrysomelidae
- Anomoea sp.*
- Cryptocephalus guttulatus*
- Demotina modesta*

Coccinellidae
- Harmonia axyridis*

Curculionidae
- Cyrtepistomus castaneus
- Heilipus squamosus*
- Lechriops oculatus
- Myosides seriehispidus
- Odontopus calceatus
- Pseudocneorhinus bifasciatus*
- Pseudoedophrys hilleri

Elateridae

Mordellidae
- Falsomordellistena bihamata
- Falsomordellistena hebraica*

Scarabaeidae
- Popillia japonica

Staphylinidae
- Palaminus sp.

Tenebrionidae
- Statira sp.

## Bees, Wasps

Braconidae

Cynipidae*

Eupelmidae*

Ormyridae
- Ormyrus sp.

## Ants

Formicidae
- Formica fusca*
- Camponotus snellingi
- Camponotus subbarbatus
- Prenolepis imparis

## Flies

Asilidae
- Laphria canis*

Cecidomyiidae

Chironomidae*

Dolichopodidae*

Muscidae

Pleciidae
- Plecia sp.

Syrphidae
- Syrphus sp.*

## Other observations

Collembola
- Tomocerinae*

Entomobryomorpha
- Pogonognathellus*

Opiliones
- Leiobunum

Plecoptera
- Perlesta

Polydesmida
- Oxidus gracilis
- Paradoxosomatidae

Psocodea
- Polypsocus corruptus*

Psocoptera
- Valenzuela flavidus

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**
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