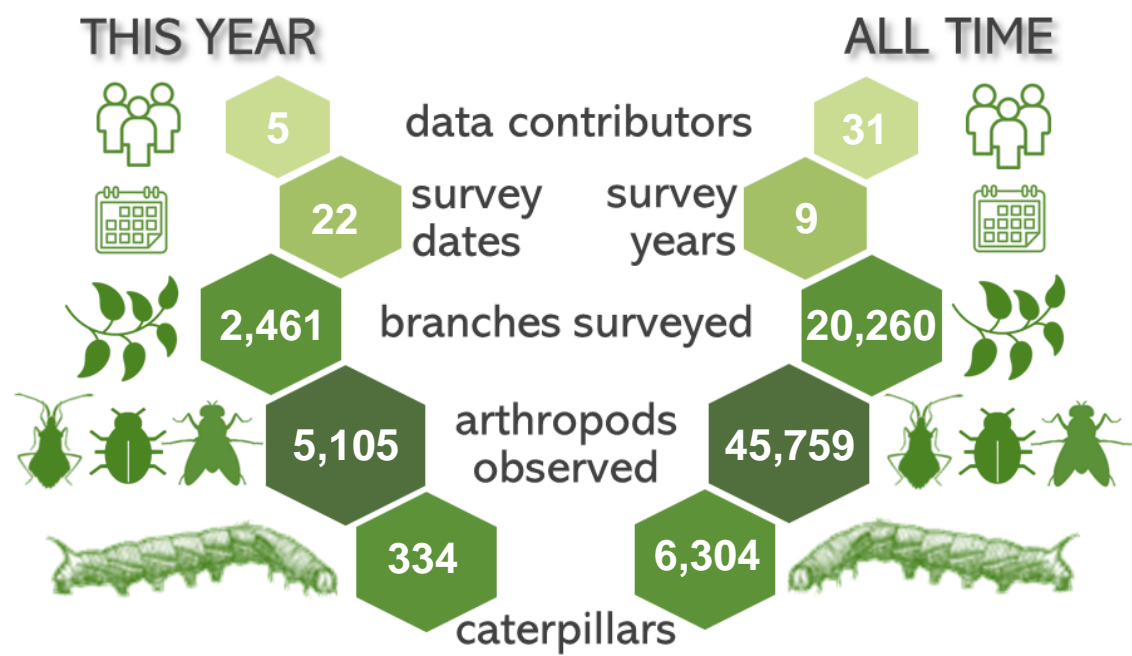




Prairie Ridge Ecostation, 2023 Summary



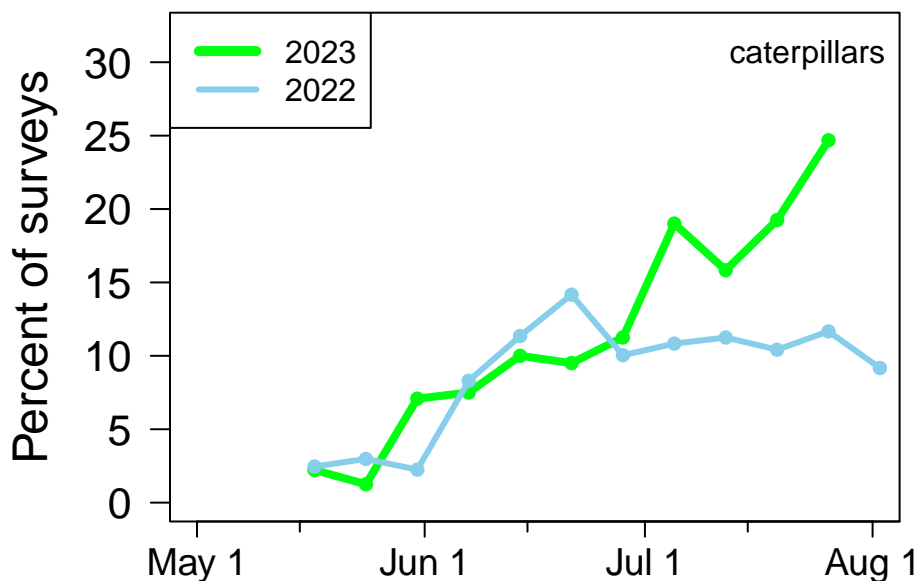
The **2,461** total surveys conducted at **Prairie Ridge Ecostation** this year ranks **1st** out of the **79** sites that participated in 2023.

Top Participants of 2023

User	Surveys	Arthropods	Caterpillars	% Caterpillars
I Goulden	152	321	30	15.13
E Howie	578	1202	93	13.15
T Montgomery	569	822	81	13.01
A Hurlbert	465	951	52	9.46
I Edwards	697	1809	78	9.33

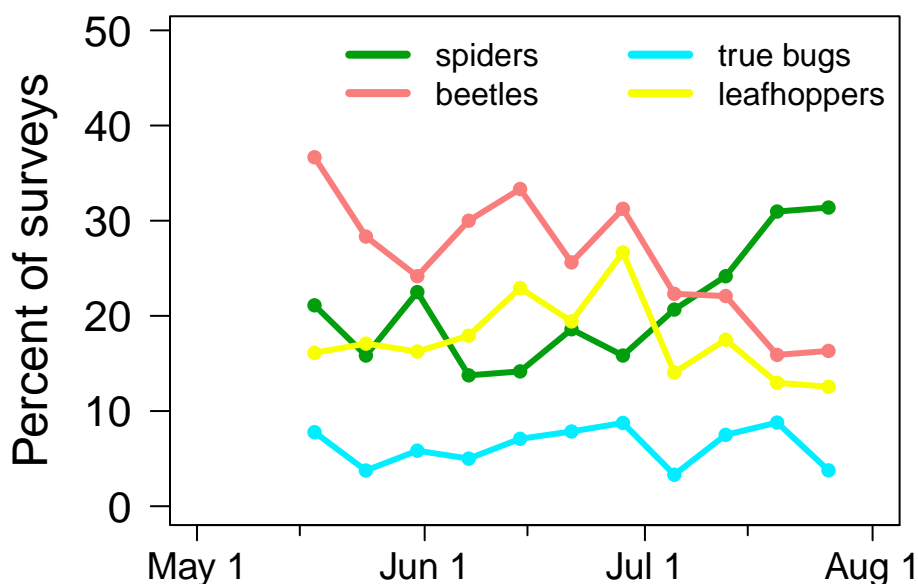
## Caterpillar Phenology

As a major source of food for nestlings of migratory birds, we are especially interested in the timing of caterpillar availability. At **Prairie Ridge Ecostation** in **2023**, caterpillar occurrence peaked at **24.7%** of surveys on **26 July**. Do you see other peaks as well? How does the pattern compare to the previous year?



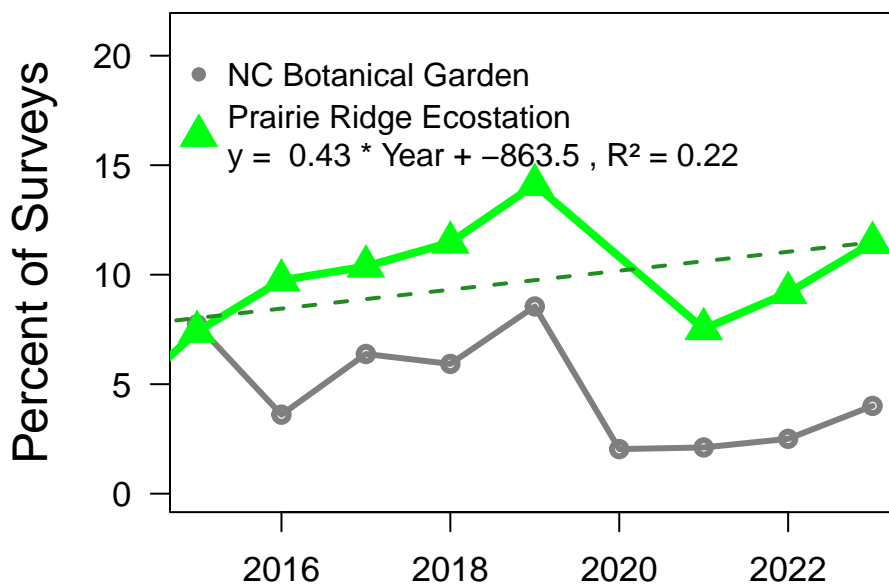
## Other Arthropod Phenology

While caterpillars tend to have pronounced seasonal peaks, other groups are more variable. What patterns do you see below for **2023**? You can explore the phenology of other groups on the **Caterpillars Count! website**.



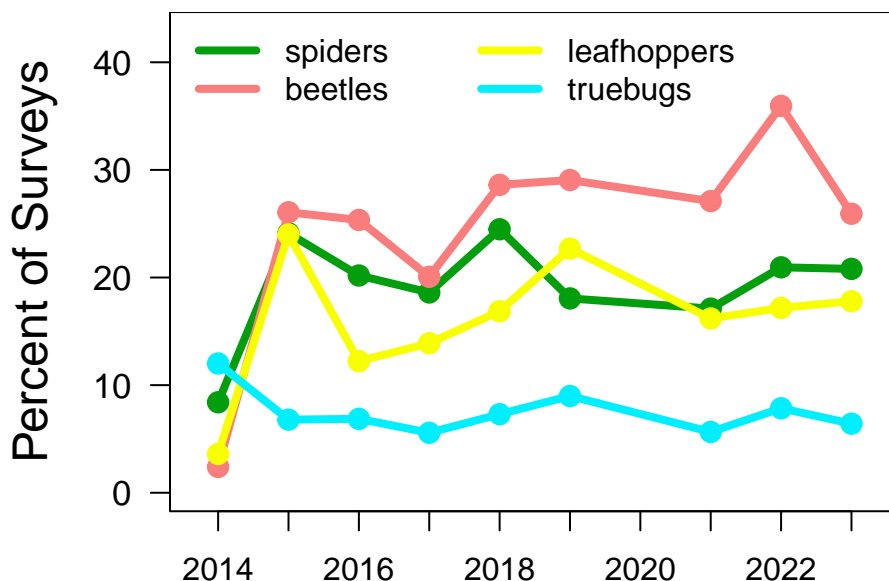
## Arthropod Trends

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?

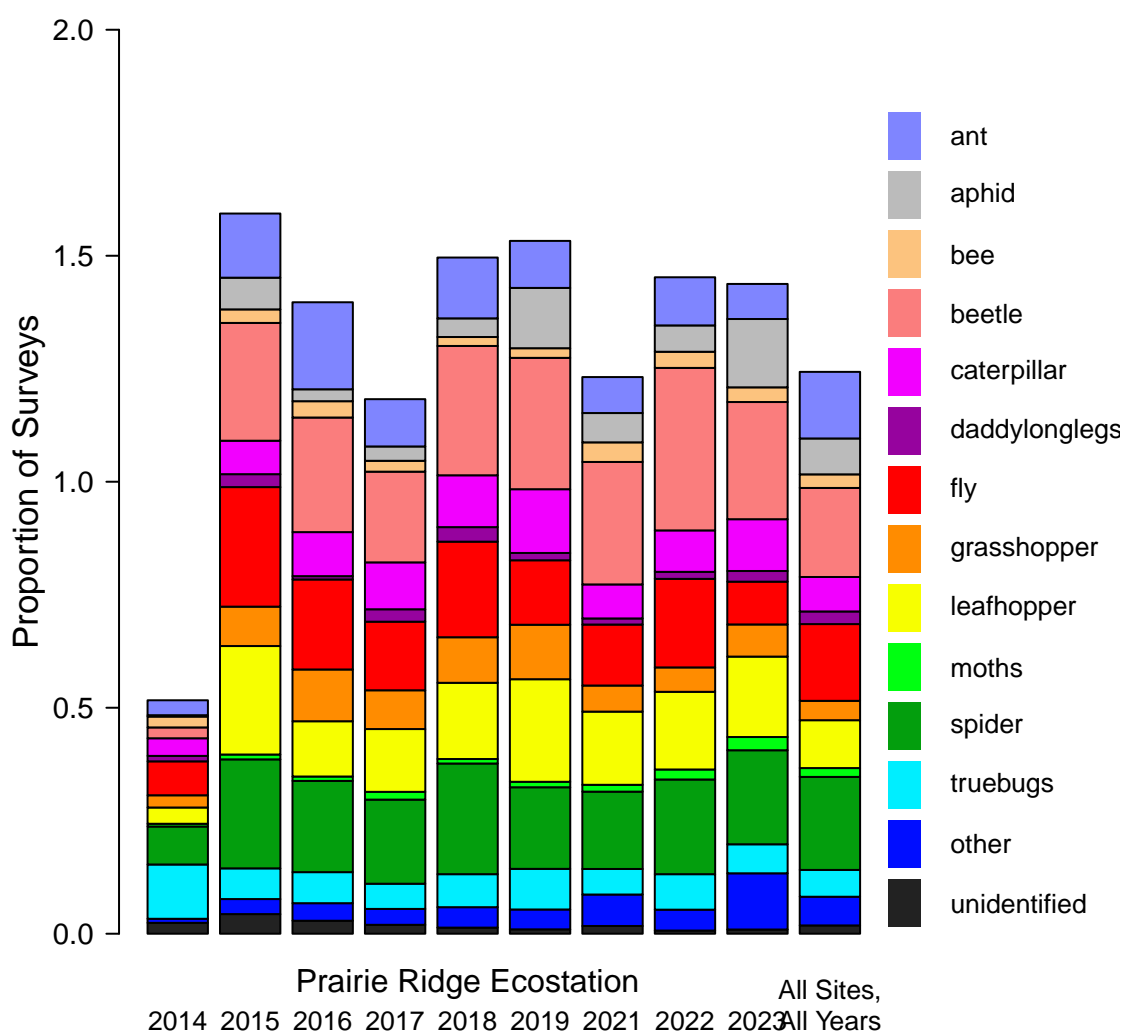


You can explore trends for more arthropod groups, and compare trends at different sites, on your site's Trends Page. See also our November 2021 newsletter for more on how to interpret these trends.

## 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*).

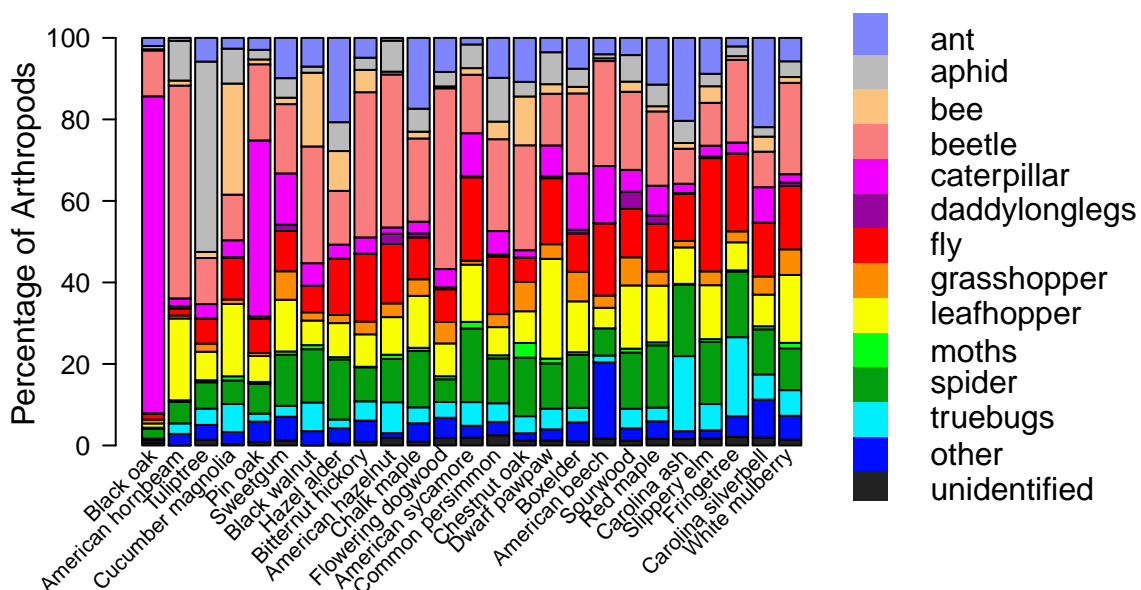
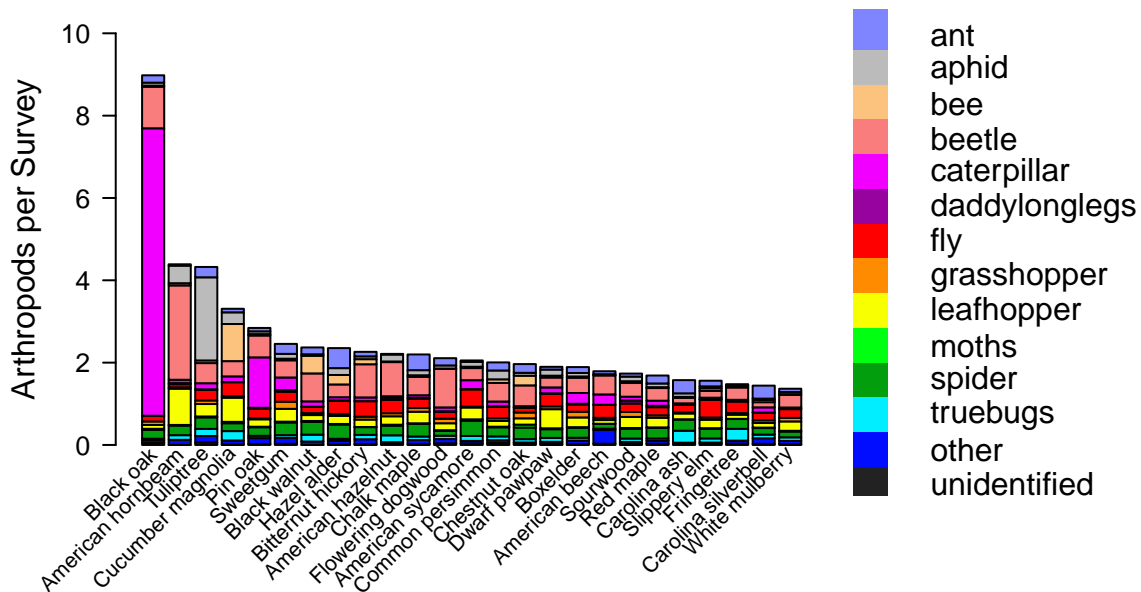
- What are the most common arthropod groups found at your site?
- Has that varied by year?
- Is anything noticeably different about **Prairie Ridge Ecostation** compared to all other participating sites?
- If arthropod photos were submitted as part of your site's surveys, check the last section of this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

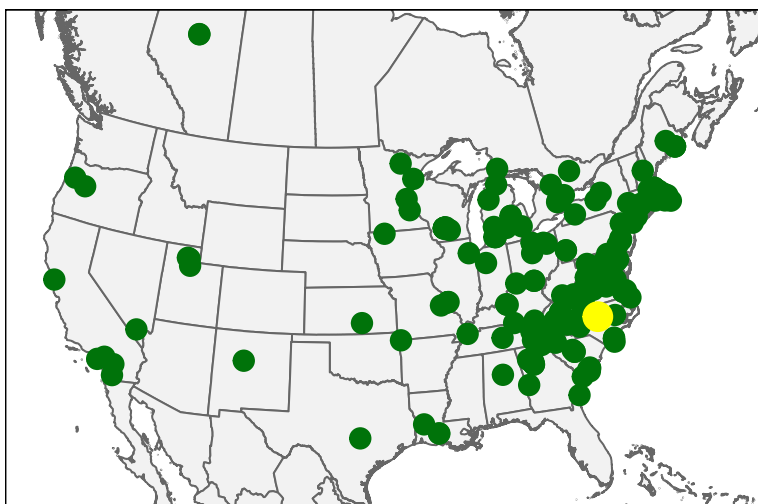
- Which plant species supports the most arthropods per survey?
- Which plant species supports the most **caterpillars**?
- Are any plant species dominated by just one or two types of arthropods?
- Or do they support a diversity of arthropod types?



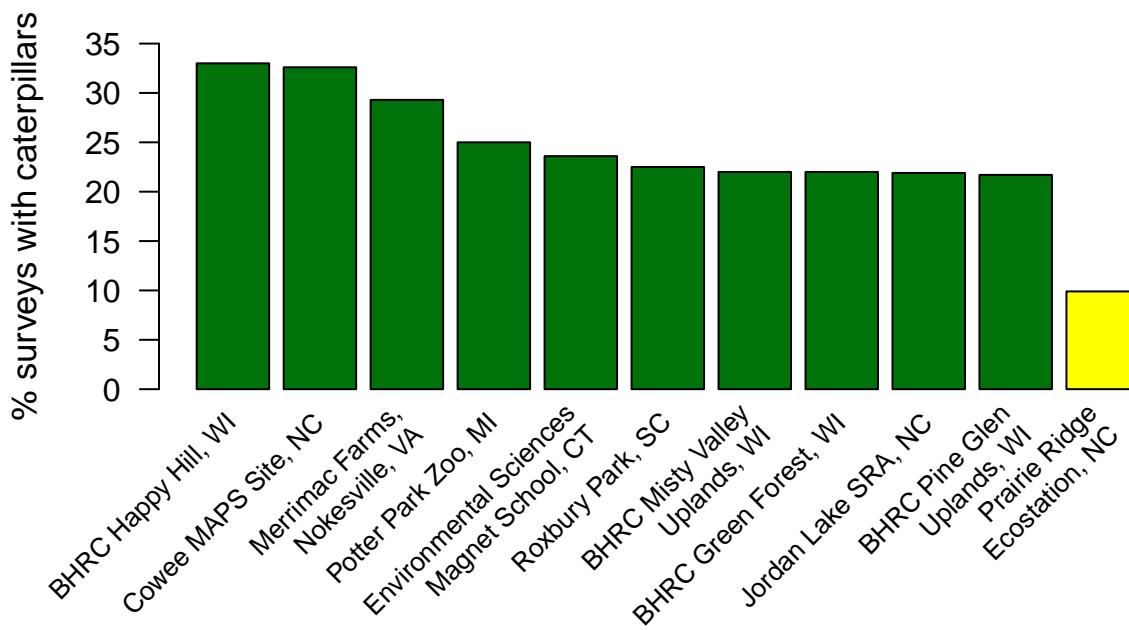
This bottom panel shows, of the arthropods found on a given plant species, what proportion were from each taxonomic group. At most, only the top 25 plant species are shown.

## Broader Patterns

Thanks to participants like yourself, **Caterpillars Count!** observers have now submitted a total of **265,734** arthropod observations—including **18,521 caterpillars**—from **219** different sites.



Across all surveys ever done at **Prairie Ridge Ecostation**, caterpillars have been found **9.9%** of the time, which ranks **44th** across sites. The top 10 sites (with  $\geq 20$  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

**4296** 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 **164** unique species. Taxa seen for the first time this year are marked with a \*.

### Caterpillars

#### Erebidae

Orgyia leucostigma  
Panopoda sp.  
Halysidota harrisii  
Halysidota tessellaris  
Hypercompe scribonia\*  
Hyphantria cunea  
Hypsoropha hormos  
Parallelia bistriaris  
Pyrrharctia isabella  
Spilosoma virginica

#### Euteliidae

Paectes abrostoloides\*

#### Geometridae

Epimecis hortaria  
Hypagyrtis unipunctata  
Macaria bisignata

#### Gracillariidae\*

#### Limacodidae

Euclea delphinii\*  
Lithacodes fasciola  
Natada nasoni  
Phobetron pithecium

#### Noctuidae

Acronicta americana  
Acronicta retardata  
Harrisimemna trisignata  
Morrisonia confusa

#### Notodontidae

Datana sp.  
Schizura ipomaeae  
Cecrita biundata  
Cecrita guttivitta  
Coelodasys unicornis  
Macrurucampa marthesia\*  
Misogada unicolor  
Nadata gibbosa

#### Pyrilidae

Pococera sp.

#### Saturniidae

Anisota sp.  
Actias luna

#### Sphingidae

#### Tortricidae

Ancylis platanana\*

### Moths, Butterflies

#### Acrolophidae

Acrolophus sp.

#### Argyresthiidae

Argyresthia oreasella\*

#### Erebidae

Spilosoma sp.  
Hypsoropha hormos

#### Geometridae

Eulithis sp.  
Hypagyrtis sp.  
Dyspteris abortivaria\*  
Eutrapela clemataria

Ilexia intractata\*

#### Hesperiidae

Lon zabulon

#### Saturniidae

Anisota sp.

#### Tortricidae

Coelostathma discopunctana

### Spiders

#### Anyphaenidae

Anyphaena sp.\*

Wulfila albens

#### Araneidae

Araneus alboventris\*  
Araneus marmoreus\*  
Eustala sp.  
Metepeira labyrinthea

Neoscona arabesca\*

Larinioides cornutus

Mecynogea lemniscata

Micrathena gracilis

Verrucosa arenata

#### Clubionidae

Castianeira longipalpa

#### Corinnidae

Trachelas sp.

#### Linyphiidae

#### Mimetidae

Mimetes sp.\*

#### Philodromidae

Philodromus sp.

#### Salticidae

Colonus sylvanus  
Hentzia sp.  
Phidippus sp.  
Lyssomanes viridis  
Paraphidippus aurantius

#### Tetragnathidae

Tetragnatha sp.  
Leucauge venusta

#### Theridiidae

Theridion sp.  
Theridula sp.  
Phylloneta pictipes\*  
Rhomphaea fictilium

#### Thomisidae

Mecaphesa sp.  
Tmarus sp.  
Xysticus sp.  
Misumessus oblongus  
Synema parvulum

#### Uloboridae

Uloborus glomosus\*

#### Stenotrichelidae\*

### Grasshoppers, Crickets

Gryllidae  
 Hapithus sp.\*  
 Cyrtoxipha columbiana  
 Mogoplistidae  
 Cycloptilum sp.  
 Oecanthidae  
 Oecanthus niveus  
 Podoscirtidae  
 Orocharis sp.  
 Tettigoniidae  
 Scudderia sp.  
 Trigonidiidae  
 Cyrtoxipha sp.  
 Phyllopalpus pulchellus

### True Bugs

Berytidae  
 Jalysus sp.  
 Coreidae  
 Acanthocephala declivis  
 Acanthocephala terminalis  
 Leptoglossus oppositus  
 Miridae  
 Ceratocapsus sp.  
 Hyaliodes harti  
 Hyaliodes vitripennis  
 Lopidea sp.  
 Paraxenetus guttulatus  
 Texocoris nigrellus  
 Nabidae  
 Lasiomerus sp.  
 Pentatomidae  
 Banasa euchlora  
 Brochymena quadripustulata  
 Euschistus servus  
 Podisus sp.  
 Chinavia hilaris  
 Halyomorpha halys\*  
 Reduviidae

Empicoris sp.  
 Pselliopus barberi  
 Pselliopus cinctus  
 Sinea spinipes\*  
 Zelus luridus  
 Arilus cristatus  
 Rhopalidae  
 Boisea trivittata  
 Tingidae  
 Corythucha sp.

### Leafhoppers, Cicadas

Acanaloniidae  
 Acanalonia bivittata  
 Acanalonia conica  
 Acanalonia servillei\*  
 Aphrophoridae  
 Lepyrionia quadrangularis\*  
 Cercopidae  
 Prosapia bicincta  
 Cicadellidae  
 Bandara sp.  
 Osbornellus sp.  
 Paraphlepsius sp.  
 Scaphoideus sp.  
 Agalliopsis ancistra  
 Graphocephala coccinea  
 Graphocephala versuta  
 Japananus hyalinus  
 Jikradia olitoria  
 Oncometopia orbona  
 Orientus ishidae\*  
 Ponana pectoralis\*  
 Rugosana querci  
 Cixiidae  
 Haplaxius sp.  
 Bothriocera cognita  
 Derbidae  
 Cedusa sp.

Flatidae  
 Flatormenis proxima  
 Metcalfa pruinosa  
 Ormenoides venusta

Issidae  
 Thionia bullata  
 Thionia quinquata  
 Aplos simplex  
 Membracidae  
 Telamona sp.  
 Platycotis vittata  
 Stictocephala militaris  
 Stictocephala taurina  
 Tropiduchidae  
 Pelitropis rotulata  
 Thraupidae  
 Stictocephala sp.

### Aphids, Scales

Aphididae  
 Pseudococcidae

### Beetles

Anthribidae  
 Ormiscus sp.  
 Toxonotus cornutus  
 Attelabidae  
 Eugnamptus sp.  
 Buprestidae\*  
 Cantharidae  
 Chauliognathus marginatus  
 Podabrus rugosulus  
 Carabidae  
 Lebia fuscata  
 Cerambycidae  
 Anelaphus sp.  
 Chelonariidae  
 Chelonarium lecontei\*  
 Chrysomelidae



Bassareus detritus\*  
 Cryptocephalus mutabilis  
 Paria sp.  
 Demotina modesta  
 Coccinellidae  
 Cycloneda munda  
 Harmonia axyridis  
 Psyllobora vigintimaculata  
 Cupedidae  
 Cupes capitatus  
 Tenomerga cinerea  
 Curculionidae  
 Brachystylus sayi  
 Cyrtopistomus castaneus  
 Lechriops oculatus  
 Ochyromera ligustri  
 Pseudocneorhinus bifasciatus  
 Pseudoedophrys hilleri  
 Dermestidae\*  
 Elateridae  
 Glyphonyx sp.  
 Melanotus sp.  
 Conoderus lividus  
 Lampyridae  
 Photinus pyralis  
 Photuris sp.  
 Lucidota atra\*  
 Melandryidae  
 Microtonus sericans  
 Mordellidae  
 Falsomordellistena bihamata\*  
 Falsomordellistena hebraica  
 Paramordellaria triloba  
 Mordellistena trifasciata  
 Scarabaeidae  
 Macroductylus subspinosus  
 Popillia japonica

### Bees, Wasps

Eupelmidae  
 Ichneumonidae\*  
 Tenthredinidae  
 Vespidae  
 Vespula maculifrons  
 Choreutidae  
Ants  
 Formicidae  
 Formica fusca  
 Formica subsericea  
 Aphaenogaster sp.\*  
 Camponotus castaneus  
 Camponotus pennsylvanicus  
 Camponotus snellingi  
 Camponotus subbarbatus  
 Colobopsis sp.\*  
 Crematogaster sp.  
 Monomorium minimum  
 Brachyponera chinensis  
 Pseudomyrmex ejectus  
 Tapinoma sessile\*

### Flies

Asilidae  
 Cerotainia sp.  
 Bombyliidae  
 Anthrax argyropygus  
 Chironomidae  
 Chloropidae  
 Culicidae\*  
 Dolichopodidae  
 Condyllostylus caudatus\*  
 Condyllostylus comatus\*  
 Condyllostylus siphon  
 Condyllostylus patibulatus  
 Keroplatidae  
 Macrocera sp.  
 Lauxaniidae

Homoneura sp.  
 Limoniidae\*  
 Lonchaeidae  
 Lonchaea sp.\*  
 Pleciidae  
 Plecia americana\*  
 Rhagionidae  
 Chrysopilus thoracicus  
 Sarcophagidae\*  
 Sciomyzidae  
 Syrphidae  
 Allograpta sp.\*  
 Tipulidae\*  
 Rhabdophoridae\*

### Other observations

Anura  
 Hyla cinerea  
 Blattodea  
 Cariblatta  
 Reticulitermes hageni  
 Collembola  
 Tomocerinae  
 Dermaptera  
 Forficula auricularia  
 Entomobryomorpha  
 Homidia socia  
 Mantodea  
 Mantidae\*  
 Tenodera sinensis\*  
 Neuroptera  
 Chrysopa nigricornis  
 Chrysoperla  
 Chrysopidae  
 Chrysopini\*  
 Leucochrysa insularis  
 Leucochrysa pavidula  
 Hemerobiidae\*

- Hemerobius
- Micromus
- Micromus posticus
- Odonata
  - Calopteryx maculata
- Opiliones
  - Leiobunum\*
  - Leiobunum vittatum\*
- Polydesmida
  - Oxidus gracilis
- Psocodea
  - Cerastipsocus venosus
  - Graphopsocus
  - Graphopsocus cruciatus\*
- Psocoptera
  - Aaroniella\*
- Spirobolida
  - Narceus americanus

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!*