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### **Annotated Checklist of Invertebrate Species Observed at the Gordon Natural Area (West Chester University, PA) 2007-2021. Version III**

Nur Ritter

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# Annotated Checklist of Invertebrate Species Observed at the Gordon Natural Area (West Chester University, PA) 2007-2021. Version III

## Summary Data

**Number of Taxa:** 465 Species, in 229 Genera, 177 Families, and 38 Orders.

## Description

As with some of the other biotic groups, the research pattern for invertebrates at the GNA might best be described as 'intermittent.' Former WCU professor Win Fairchild and his students conducted research on aquatic invertebrates in Plum Run, both inside and outside of the boundaries of the GNA. To date, the only data from that work that we've been able to obtain are from the 2007 MS thesis of Danielle DiFederico.

Since that time, the only 'directed' invertebrate research at the GNA has been the annual monitoring in Plum Run by the Stroud Water Research Center (SWRC). This research was initiated in 2017 and is ongoing. Additional data come from (the increasingly frequent) observations by GNA staff and from observations on iNaturalist posted by visitors to the GNA.

## Status/Threats

IUCN Status: Data are from the IUCN Red List of Threatened Species (IUCN 2020).

The GNA checklist was compared with the Pennsylvania Natural Heritage Species and Natural Features List (PNHP 2020). Of the 458 invertebrate species on the list, three are known to occur in the GNA. The state rankings from the PNHP list have been incorporated into the checklist.

## Plants Visited by Insects

Key to colors: Black: the plant species is Native in the Lower 48 States; Red: the plant species is Introduced in the Lower 48 States; Blue: the plant species is Native in some states and Introduced in others.

Data were compiled from the USGS/CPC Pollinator Database and from the following databases on the Illinois Wildflowers website: Bee Database; Beetle Database; Butterfly, Skipper, & Moth Database; Fly Database; True Bug & Others Database; and, Wasp, Ant, & Sawfly Database. Note: A significant portion of the invertebrate data for the GNA was collected in aquatic habitats (i.e., from Plum Run). Hence, particular care should be given when interpreting the roles of taxa known by the genus level, as data from the aforementioned sources may have been compiled for terrestrial representatives of that genus.

## Organization

Species are organized into eight 'types': Insects; Springtails; Arthropods; Crustaceans; Gastropods; Flatworms; Ribbon Worms; and, Worms. The checklist is sorted by 'Type', followed by Order, Family, and Scientific Name.

## Insects

### Class Insecta (Insects)

#### Order Archaeognatha: Bristletails

##### Machilidae (1 species)

##### *Pedetontus saltator*<sup>N</sup> (Jumping Bristletail)

Identified By: N. Ritter; First Noted By: astrobirder (iNaturalist)

Year Observed: 2020

#### Order Blattodea: Cockroaches and Termites

##### Ectobiidae (4 species)

##### *Parcoblatta americana*<sup>N</sup> (Western Wood Cockroach)

Identified and First Noted By: N. Ritter

Years Observed: 2020; 2021

##### *Parcoblatta pennsylvanica*<sup>N</sup> (Pennsylvania Wood Cockroach)

Identified and First Noted By: N. Ritter

Year Observed: 2021

##### *Parcoblatta virginica*<sup>N</sup> (Virginia Wood Cockroach)

Identified By: hisserdude (iNaturalist); First Noted By: A. Rivellini

Year Observed: 2019

##### *Plectoptera* Indet. #1<sup>N</sup> (Stonefly)

Identified and First Noted By: D. DiFederico

Year Observed: 2007

## Order Coleoptera: Beetles

### Anthribidae (1 species)

#### *Euparius marmoreus*<sup>N</sup> (Marbled Fungus Weevil)

Identified By: N. Ritter; First Noted By: N. Long

Year Observed: 2021

### Buprestidae (1 species)

#### *Agrilus planipennis*<sup>1</sup> (Emerald Ash Borer)

Identified and First Noted By: H. Liu

Year Observed: 2021

### Cantharidae (1 species)

#### *Podabrus* Indet. #1 (Soldier Beetle)

Identified and First Noted By: N. Ritter

Year Observed: 2021

### Carabidae (3 species)

#### *Chlaenius aestivus*<sup>N</sup> (Metallic Ground Beetle)

Identified By: C. Haden (iNaturalist); First Noted By: N. Ritter

Years Observed: 2020; 2021

#### *Galerita bicolor*<sup>N</sup> (False Bombardier Beetle)

Identified and First Noted By: N. Ritter

Year Observed: 2021

#### *Pterostichus tristis* (Woodland Ground Beetle)

Identified By: tyugefez (iNaturalist); First Noted By: N. Ritter

Year Observed: 2021

## Cerambycidae (6 species)

### *Megacyllene robiniae*<sup>N</sup> (Locust Longhorn Borer Beetle)

Identified and First Noted By: N. Ritter

Year Observed: 2020

Flowering Plant Species Known for the GNA That Are Visited By This Species (6 species: all native): Canada Goldenrod (*Solidago altissima*); Canada Goldenrod (*Solidago canadensis*); Flat-top Goldentop (*Euthamia graminifolia*); Giant Goldenrod (*Solidago gigantea*); Gray Goldenrod (*Solidago nemoralis*); Lateflowering Thoroughwort (*Eupatorium serotinum*)

### *Neandra brunnea*<sup>N</sup> (Pole Borer)

Identified and First Noted By: N. Ritter

Year Observed: 2020

### *Prionus laticollis*<sup>N</sup> (Broad-necked Root Borer)

Identified and First Noted By: N. Long

Year Observed: 2021

### *Strangalia luteicornis*<sup>N</sup> (Yellow-horned Flower Longhorn Beetle)

Identified and First Noted By: N. Ritter

Year Observed: 2020

### *Tetraopes tetrophthalmus*<sup>N</sup> (Red Milkweed Beetle)

Identified and First Noted By: N. Ritter; Also Noted By: N. Long

Years Observed: 2020; 2021

Flowering Plant Species Known for the GNA That Are Visited By This Species (1 species: native): Swamp Milkweed (*Asclepias incarnata*)

### *Typocerus velutinus*<sup>N</sup> (Banded Longhorn Beetle)

Identified and First Noted By: N. Ritter

Year Observed: 2020

#### Conservation Status

IUCN: Species has not been reviewed (Website checked:7/28/2020)

## Cetoniinae (1 species)

### *Cotinus nitida*<sup>N</sup> (June Beetle)

Identified By: N. Ritter; First Noted By: P. Vermeulen; Also Noted By: M. Dowd

Years Observed: 2019; 2021

## Chrysomelidae (3 species)

### *Altica* Indet. #1<sup>N</sup> (Metallic Flea Beetle)

Identified and First Noted By: N. Ritter

Year Observed: 2020

### *Chrysochus auratus*<sup>N</sup> (Dogbane Leaf Beetle)

Identified and First Noted By: N. Ritter; Also Noted By: N. Long; M. Rettenmaier

Years Observed: 2020; 2021

### *Diabrotica undecimpunctata*<sup>N</sup> (Spotted Cucumber Beetle)

Identified and First Noted By: N. Ritter

Year Observed: 2020

## Coccinellidae (3 species)

### *Coccinella septempunctata*<sup>1</sup> (Seven-spot Lady Bug)

Identified and First Noted By: N. Ritter

Year Observed: 2017

#### Conservation Status

IUCN: Species has not been reviewed (Website checked:2/10/2020)

### *Harmonia axyridis*<sup>1</sup> (Asian Lady Beetle)

Identified By: N. Ritter; First Noted By: P. Vermeulen; Also Noted By: N. Ritter

Years Observed: 2019; 2021

#### Conservation Status

IUCN: Species has not been reviewed (Website checked:7/28/2020)

***Hippodamia variegata*<sup>1</sup> (Variegated Lady Beetle)**

Identified By: N. Ritter; First Noted By: W. Ricci

Year Observed: 2013

**Cucujidae (1 species)**

***Cucujus clavipes*<sup>N</sup> (Red Flat Bark Beetle)**

Identified By: K. Schulz (iNaturalist); First Noted By: N. Ritter

Year Observed: 2020

**Curculionidae (3 species)**

***Larinus* Indet. #1<sup>N</sup> (Thistle Weevil)**

Identified and First Noted By: N. Ritter

Year Observed: 2020

***Rhinoncomimus latipes*<sup>N</sup> (Mile-a-minute Weevil)**

Identified By: N. Ritter; First Noted By: G. Hertel; Also Noted By: N. Ritter; M. Dowd

Years Observed: 2009; 2019; 2020; 2021

**Conservation Status**

IUCN: Species has not been reviewed (Website checked:7/28/2020)

Flowering Plant Species Known for the GNA That Are Visited By This Species (1 species: introduced): *Asiatic Tearthumb* (*Polygonum perfoliatum*)

***Rhodoabaenus tredecimpunctatus*<sup>N</sup> (Ironweed Curculio)**

Identified and First Noted By: N. Ritter

Year Observed: 2021

## Elmidae (8 species)

### *Elmidae* Indet. #1<sup>N</sup> (Riffle Beetle)

Identified By: Original Website; First Noted By: Not Known

Year Observed: 2013

### *Elmidae* Indet. #2<sup>N</sup>

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

### *Optioservus* Indet. #1 (No Common Name)

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

### *Optioservus ovalis*<sup>N</sup> (No Common Name)

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

#### Conservation Status

IUCN: Species has not been reviewed (Website checked:2/10/2020)

### *Optioservus/Oulimnius* Indet. #1

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

### *Oulimnius latiusculus*<sup>N</sup> (No Common Name)

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

#### Conservation Status

IUCN: Species has not been reviewed (Website checked:2/10/2020)

### *Stenelmis* Indet. #1<sup>N</sup>

Identified and First Noted By: Stroud Water Research Center



**Year Observed:** 2017

***Stenelmis crenata*<sup>N</sup> (No Common Name)**

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

**Conservation Status**

**IUCN:** Species has not been reviewed (Website checked:2/10/2020)

**Endomychidae (1 species)**

***Aphorista vittata*<sup>N</sup> (Handsome Fungus Beetle)**

**Identified By:** N. Ritter; **First Noted By:** A. Rivellini

**Year Observed:** 2020

**Erotylidae (2 species)**

***Megalodacne* Indet. #1 (Pleasing Fungus Beetle)**

**Identified and First Noted By:** N. Ritter

**Years Observed:** 2018; 2019

***Triplax* Indet. #1 (Pleasing Fungus Beetle)**

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2021

## Family Unknown

### *Coleoptera* Indet. #1 (Beetle)

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2019

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (28 species: Natives - 24; Introduced - 4): Alternateleaf Dogwood (*Cornus alternifolia*); American Black Elderberry (*Sambucus nigra ssp. canadensis*); Blackeyed Susan (*Rudbeckia hirta*); Blackhaw (*Viburnum prunifolium*); Bloodroot (*Sanguinaria canadensis*); Bluestem Goldenrod (*Solidago caesia*); Butterfly Milkweed (*Asclepias tuberosa*); Canada Goldenrod (*Solidago altissima*); Canadian Wildginger (*Asarum canadense*); Cockspur Hawthorn (*Crataegus crus-galli*); Common Blue Wood Aster (*Symphyotrichum cordifolium*); **Common Yarrow** (*Achillea millefolium*); Cucumber-tree (*Magnolia acuminata*); Cutleaf Coneflower (*Rudbeckia laciniata*); Dyer's Coreopsis (*Coreopsis tinctoria*); Feathery False Lily Of The Valley (*Maianthemum racemosum*); **Garden Yellowrocket** (*Barbarea vulgaris*); Indianhemp (*Apocynum cannabinum*); Mapleleaf Viburnum (*Viburnum acerifolium*); **Musk Mallow** (*Malva moschata*); New England Aster (*Symphyotrichum novae-angliae*); New Jersey Tea (*Ceanothus americanus*); **Nodding Plumeless Thistle** (*Carduus nutans*); Skunk Cabbage (*Symplocarpus foetidus*); Southern Arrowwood (*Viburnum dentatum*); Spotted Geranium (*Geranium maculatum*); Swamp Milkweed (*Asclepias incarnata*); Umbrella-tree (*Magnolia tripetala*)

## Lampyridae (2 species)

### *Pyractomena borealis*<sup>N</sup> (Lightning Bug)

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2019

#### **Conservation Status**

**IUCN:** Species has not been reviewed (Website checked:7/28/2020)

### *Pyropyga* Indet. #1<sup>N</sup> (Firefly Beetle)

**Identified By:** E. Falquet (iNaturalist); **First Noted By:** N. Ritter

**Year Observed:** 2021

## Lucanidae (1 species)

### *Lucanus capreolus*<sup>N</sup> (Reddish-brown Stag Beetle)

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2020

## Lycidae (2 species)

### *Calopteron discrepans*<sup>N</sup> (Banded Net-winged Beetle)

Identified By: G. Hertel; First Noted By: K. McMillin; Also Noted By: N. Ritter

Years Observed: 2015; 2020

### *Dictyopectera aurora*<sup>N</sup> (Golden Net-winged Beetle)

Identified and First Noted By: N. Ritter

Year Observed: 2020

## Meloidae (1 species)

### *Meloe americanus*<sup>N</sup> (American Oil Beetle)

Identified and First Noted By: N. Ritter

Year Observed: 2019

## Mordellidae (1 species)

### *Mordella* Indet. #1 (Tumbling Flower Beetle)

Identified and First Noted By: N. Ritter

Year Observed: 2021

Flowering Plant Species Known for the GNA That Are Visited By This Species (1 species: introduced): *Common Yarrow (Achillea millefolium)*

## Nitidulidae (1 species)

### *Conotelus* Indet. #1<sup>N</sup> (Sap-feeding Beetle)

Identified and First Noted By: N. Ritter

Year Observed: 2021

## Passalidae (1 species)

### *Odontotaenius disjunctus*<sup>N</sup> (Horned Passalus Beetle)

Identified By: N. Ritter; First Noted By: G. Hertel; Also Noted By: N. Ritter

Years Observed: 2015; 2019; 2020; 2021

## Psephenidae (2 species)

### *Ectopria* Indet. #1<sup>N</sup>

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

### *Psephenus herricki*<sup>N</sup> (No Common Name)

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

#### Conservation Status

IUCN: Species has not been reviewed (Website checked:2/10/2020)

## Pyrochroidae (1 species)

### *Pyrochroidae* Indet. #1 (Fire-colored Beetle)

Identified and First Noted By: N. Ritter

Year Observed: 2021

## Scaphidiinae (1 species)

### *Scaphidiinae* Indet. #1 (Shining Fungus Beetles)

Identified and First Noted By: N. Ritter

Years Observed: 2019; 2020

## Scarabaeidae (1 species)

### *Popillia japonica*<sup>1</sup> (Japanese Beetle)

Identified and First Noted By: N. Ritter; Also Noted By: N. Long

Years Observed: 2020; 2021

Flowering Plant Species Known for the GNA That Are Visited By This Species (1 species: native): Common Milkweed (*Asclepias syriaca*)

## Silphidae (2 species)

### *Necrophila americana*<sup>N</sup> (American Carrion Beetle)

Identified and First Noted By: N. Ritter

Years Observed: 2020; 2021

### *Oiceoptoma noveboracense*<sup>N</sup> (Margined Carrion Beetle)

Identified and First Noted By: N. Ritter

Year Observed: 2019

#### Conservation Status

IUCN: Species has not been reviewed (Website checked:2/10/2020)

## Staphylinidae (3 species)

### *Bledius* Indet. #1 (Rove Beetle)

Identified and First Noted By: N. Ritter

Year Observed: 2021

### *Philonthus* Indet. #1 (Rove Beetle)

Identified By: B. Büche (iNaturalist); First Noted By: N. Ritter

Year Observed: 2021

### *Quedius cruentus*<sup>N</sup> (Rove Beetle)

Identified By: B. Büche (iNaturalist); First Noted By: N. Ritter

Year Observed: 2021

## Tenebrionidae (2 species)

### *Alobates pensylvanicus*<sup>N</sup> (False Mealworm Beetle)

Identified and First Noted By: N. Ritter

Years Observed: 2020; 2021

### *Tenebrionidae* Indet. #1 (Darkling Beetle)

Identified By: N. Ritter; First Noted By: N. Long

Year Observed: 2021

## Order Diptera: Flies

### Asilidae (4 species)

#### *Eudioctria* Indet. #1<sup>N</sup> (No Common Name)

Identified and First Noted By: N. Ritter

Year Observed: 2020

#### *Holcocephala* Indet. #1<sup>N</sup> (Gnat Ogre)

Identified and First Noted By: N. Ritter

Years Observed: 2020; 2021

#### *Laphria canis* Complex<sup>N</sup> (Bee-mimic Robber Flies)

Identified and First Noted By: N. Ritter

Year Observed: 2020

#### *Machimus sadyates*<sup>N</sup> (No Common Name)

Identified and First Noted By: N. Ritter

Year Observed: 2021

## Bombyliidae (1 species)

### *Bombylius major*<sup>N</sup> (Greater Bee Fly)

Identified and First Noted By: N. Ritter

Year Observed: 2021

Flowering Plant Species Known for the GNA That Are Visited By This Species (4 species: all native): Bloodroot (*Sanguinaria canadensis*); Roundlobe Hepatica (*Hepatica nobilis var. obtusa*); Rue Anemone (*Thalictrum thalictroides*); Virginia Springbeauty (*Claytonia virginica*)

## Calliphoridae (1 species)

### *Lucilia* Indet. #1<sup>1</sup> (Greenbottle Fly)

Identified and First Noted By: N. Ritter

Year Observed: 2020

Flowering Plant Species Known for the GNA That Are Visited By This Species (3 species: Natives - 2; Introduced - 1): Common Yarrow (*Achillea millefolium*); Flat-top Goldentop (*Euthamia graminifolia*); Swamp Verbena (*Verbena hastata*)

## Cecidomyiidae (7 species)

### *Ampelomyia viticola*<sup>N</sup> (Grape Tube Gallmaker)

Identified and First Noted By: N. Ritter

Year Observed: 2021

### *Ampelomyia vitiscoryloides*<sup>N</sup> (Gall Midge)

Identified and First Noted By: N. Ritter

Year Observed: 2019

### *Asteromyia carbonifera*<sup>N</sup> (Carbonifera Goldenrod Gall Midge)

Identified and First Noted By: N. Ritter

Year Observed: 2020

### *Caryomyia* Indet. #1<sup>N</sup> (Hickory Gall Midge)

Identified and First Noted By: G. Hertel

Year Observed: 2013

***Dasineura folliculi*<sup>N</sup> (Gall Midge)**

Identified By: D. McClosky (iNaturalist); First Noted By: N. Ritter

Year Observed: 2020

***Resseliella liriodendri*<sup>N</sup> (Gall Midge)**

Identified and First Noted By: N. Ritter

Year Observed: 2020

***Rhopalomyia solidaginis*<sup>N</sup> (Goldenrod Bunch Gall Midge)**

Identified and First Noted By: N. Ritter

Year Observed: 2020

**Ceratopogonidae (2 species)**

***Ceratopogonidae* Indet. #1<sup>N</sup> (Biting Midge)**

Identified and First Noted By: N. Ritter

Year Observed: 2020

***Probezzia* Indet. #1<sup>N</sup>**

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

**Chironomidae (41 species)**

***Brillia* Indet. #1<sup>N</sup>**

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

***Chironomidae* Indet. #1<sup>N</sup> (Non-biting Midge)**

Identified and First Noted By: D. DiFederico

Year Observed: 2007



***Chironomidae* Indet. #2<sup>N</sup> (Non-biting Midge)**

Identified and First Noted By: N. Ritter

Year Observed: 2019

***Corynoneura* Indet. #1<sup>N</sup>**

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

***Cricotopus* Indet. #1<sup>N</sup>**

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

Flowering Plant Species Known for the GNA That Are Visited By This Species (1 species: native): American Witchhazel (*Hamamelis virginiana*)

***Cricotopus/Orthocladius***

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

***Diamesa* Indet. #1<sup>N</sup>**

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

***Diamesinae* Indet. #1<sup>N</sup>**

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

***Diplocladius* Indet. #1<sup>N</sup>**

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

***Eukiefferiella coerulescens* Group<sup>N</sup>**

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

**Conservation Status**

IUCN: Species has not been reviewed (Website checked:2/10/2020)

***Hydrobaenus* Indet. #1<sup>N</sup>**

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

***Krenosmittia* Indet. #1<sup>N</sup>**

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

***Micropsectra polita*<sup>N</sup> (No Common Name)**

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

**Conservation Status**

IUCN: Species has not been reviewed (Website checked:2/10/2020)

***Nilotanypus fimbriatus*<sup>N</sup> (No Common Name)**

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

**Conservation Status**

IUCN: Species has not been reviewed (Website checked:2/10/2020)

***Orthoclaadiinae* Indet. #1<sup>N</sup>**

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

***Orthocladus* Indet. #1<sup>N</sup>**

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

***Orthocladus clarkei*<sup>N</sup>**

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

**Conservation Status**

**IUCN:** Species has not been reviewed (Website checked:2/10/2020)

***Orthocladius clarkei/obumbratus***

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

**Conservation Status**

**IUCN:** Species has not been reviewed (Website checked:2/10/2020)

***Orthocladius dentifer*<sup>N</sup>**

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

**Conservation Status**

**IUCN:** Species has not been reviewed (Website checked:2/10/2020)

***Orthocladius dentifer/dorenus***

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

**Conservation Status**

**IUCN:** Species has not been reviewed (Website checked:2/10/2020)

***Orthocladius dorenus*<sup>N</sup>**

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

**Conservation Status**

**IUCN:** Species has not been reviewed (Website checked:2/10/2020)

***Orthocladius dorenus/obumbratus***

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

**Conservation Status**

IUCN: Species has not been reviewed (Website checked:2/10/2020)

***Orthocladius obumbratus*<sup>N</sup>**

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

**Conservation Status**

IUCN: Species has not been reviewed (Website checked:2/10/2020)

***Orthocladius obumbratus/robacki***

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

**Conservation Status**

IUCN: Species has not been reviewed (Website checked:2/10/2020)

***Orthocladius rivicola*<sup>N</sup> (No Common Name)**

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

**Conservation Status**

IUCN: Species has not been reviewed (Website checked:2/10/2020)

***Parametriocnemus* Indet. #1<sup>N</sup>**

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

***Polypedilum aviceps*<sup>UNK</sup> (No Common Name)**

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

**Conservation Status**

IUCN: Species has not been reviewed (Website checked:2/10/2020)

***Polypedilum convictum* Group<sup>N</sup> (No Common Name)**

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

**Conservation Status**

**IUCN:** Species has not been reviewed (Website checked:7/28/2020)

***Potthastia/Sympotthastia***

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

***Rheotanytarsus* Indet. #1<sup>N</sup>**

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

***Rheotanytarsus exiguus* Group<sup>N</sup> (No Common Name)**

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

**Conservation Status**

**IUCN:** Species has not been reviewed (Website checked:2/10/2020)

***Sympotthastia* Indet. #1<sup>N</sup>**

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

***Tanytarsus glabrescens* Group<sup>N</sup> (No Common Name)**

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

**Conservation Status**

**IUCN:** Species has not been reviewed (Website checked:2/10/2020)

***Tanytarsus guerlus* Group<sup>N</sup>**

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

**Conservation Status**

IUCN: Species has not been reviewed (Website checked:2/10/2020)

***Thienemanniella* Indet. #1<sup>N</sup>**

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

***Thienemanniella* Indet. #2<sup>N</sup>**

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

***Thienemanniella taurocapita*<sup>UNK</sup> (No Common Name)**

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

**Conservation Status**

IUCN: Species has not been reviewed (Website checked:2/10/2020)

***Thienemanniella* cf. *xena*<sup>N</sup> (No Common Name)**

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

**Conservation Status**

IUCN: Species has not been reviewed (Website checked:2/10/2020)

***Thienemannimyia* Group<sup>N</sup>**

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

***Tvetenia* Indet. #1<sup>N</sup>**

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

***Tvetenia paucunca*<sup>N</sup> (No Common Name)**

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

**Conservation Status**

**IUCN:** Species has not been reviewed (Website checked:2/10/2020)

### Chloropidae (1 species)

#### *Thaumatomyia* Indet. #1<sup>N</sup> (Grass Fly)

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2020

### Conopidae (1 species)

#### *Physocephala tibialis*<sup>N</sup> (Common Eastern Physocephala)

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2021

### Culicidae (5 species)

#### *Aedes hendersoni*<sup>N</sup> (Mosquito)

**Identified By:** L. Wolff (iNaturalist); **First Noted By:** N. Ritter

**Year Observed:** 2020

#### *Aedes japonicus*<sup>1</sup> (Asian Bush Mosquito)

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2020

#### *Aedes trivittatus*<sup>N</sup> (Plains Floodwater Mosquito)

**Identified By:** odhentomologist (iNaturalist); **First Noted By:** N. Ritter

**Year Observed:** 2021

#### *Aedes vexans*<sup>N</sup> (Inland Floodwater Mosquito)

**Identified and First Noted By:** N. Ritter

Year Observed: 2020

***Psorophora ferox*<sup>N</sup> (White-footed Woods Mosquito)**

Identified and First Noted By: N. Ritter

Year Observed: 2020

**Dolichopodidae (1 species)**

***Condylostylus* Indet. #1<sup>UNK</sup> (Long-legged Fly)**

Identified and First Noted By: N. Ritter

Years Observed: 2020; 2021

Flowering Plant Species Known for the GNA That Are Visited By This Species (1 species: introduced): *European Cranberrybush (Viburnum opulus)*

**Drosophilidae (2 species)**

***Drosophilidae* Indet. #1 (Vinegar/Fruit Fly)**

Identified By: carnifex (iNaturalist); First Noted By: N. Ritter

Year Observed: 2020

***Drosophilinae* Indet. #1<sup>UNK</sup> (Vinegar and Fruit Flies)**

Identified By: carnifex (iNaturalist); First Noted By: N. Ritter

Year Observed: 2018

**Empididae (4 species)**

***Chelifera* Indet. #1<sup>N</sup>**

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

***Clinocera* Indet. #1<sup>N</sup>**

Identified and First Noted By: D. DiFederico; Also Noted By: Stroud Water Research Center - 2017

Years Observed: 2007; 2017



***Empididae* Indet. #1<sup>N</sup>**

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

***Empis spectabilis*<sup>N</sup> (Dance Fly)**

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2021

**Family Unknown**

***Muscoidea* Indet. #1<sup>UNK</sup> (Muscoïd Fly)**

**Identified By:** C. Angell (iNaturalist); **First Noted By:** N. Ritter

**Year Observed:** 2021

***Sciaroidea* Indet. #1<sup>N</sup> (Fungus Gnat)**

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2020

***Tipuloidea* Indet. #1<sup>N</sup> (Crane Fly)**

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2020

**Lauxaniidae (1 species)**

***Lauxaniidae* Indet. #1<sup>N</sup> (Lauxaniid Flies)**

**Identified By:** S. Pote; **First Noted By:** N. Ritter

**Year Observed:** 2020

## Limoniidae (3 species)

### *Antocha* Indet. #1<sup>N</sup>

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

### *Epiphragma* Indet. #1 (Limoniid Crane Fly)

Identified By: N. Ritter; First Noted By: N. Long

Year Observed: 2021

### *Helius* Indet. #1<sup>N</sup>

Identified and First Noted By: D. DiFederico

Year Observed: 2007

## Muscidae (1 species)

### *Muscidae* Indet. #1<sup>N</sup> (Fly)

Identified and First Noted By: N. Ritter

Year Observed: 2020

Flowering Plant Species Known for the GNA That Are Visited By This Species (2 species: both introduced): *Common Chickweed (Stellaria media)*; *Tree Of Heaven (Ailanthus altissima)*

## Mycetophilidae (2 species)

### *Mycetophilidae* Indet. #1 (Fungus Gnat)

Identified and First Noted By: N. Ritter

Year Observed: 2021

### *Mycetophilidae* Indet. #2 (Fungus Gnat)

Identified By: N. Ritter; First Noted By: K. Krueger

Year Observed: 2021

## Pediciidae (1 species)

### *Dicranota* Indet. #1<sup>N</sup>

Identified and First Noted By: D. DiFederico

Year Observed: 2007

## Sarcophagidae (2 species)

### *Miltogramminae* Indet. #1 (Satellite Fly)

Identified and First Noted By: N. Ritter

Year Observed: 2020

### *Sarcophagidae* Indet. #1<sup>N</sup> (Flesh Flies)

Identified By: K. Schulz (iNaturalist); First Noted By: N. Ritter

Year Observed: 2020

Flowering Plant Species Known for the GNA That Are Visited By This Species (2 species: both introduced): *Common Chickweed (Stellaria media)*; *Common Yarrow (Achillea millefolium)*

## Sciaridae (1 species)

### *Sciaridae* Indet. #1<sup>N</sup> (Dark-winged Fungus Gnats)

Identified and First Noted By: N. Ritter

Year Observed: 2020

Flowering Plant Species Known for the GNA That Are Visited By This Species (1 species: native): *Umbrella-tree (Magnolia tripetala)*

## Sciomyzidae (1 species)

### *Euthycera* Indet. #1 (Marsh Flies)

Identified and First Noted By: N. Ritter

Year Observed: 2021

## Simuliidae (5 species)

### *Prosimulium* Indet. #1<sup>N</sup> (Black Flies)

Identified and First Noted By: D. DiFederico

Year Observed: 2007

### *Simuliidae* Indet. #1<sup>N</sup> (Black Flies)

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

### *Simuliidae* Indet. #2<sup>N</sup> (Black Flies)

Identified and First Noted By: N. Ritter

Year Observed: 2020

### *Simulium* Indet. #1<sup>N</sup>

Identified and First Noted By: D. DiFederico

Year Observed: 2007

### *Stegopterna* Indet. #1

Identified and First Noted By: D. DiFederico

Year Observed: 2007

## Stratiomyidae (1 species)

### *Stratiomyidae* Indet. #1 (Soldier Fly)

Identified By: J. van der Linden (BugGuide); First Noted By: N. Ritter

Year Observed: 2021

Flowering Plant Species Known for the GNA That Are Visited By This Species (1 species: introduced): **Dames Rocket (*Hesperis matronalis*)**

## Syrphidae (7 species)

### *Eristalis dimidiata*<sup>N</sup> (Black-shouldered Drone Fly)

Identified and First Noted By: N. Ritter

Year Observed: 2020

Flowering Plant Species Known for the GNA That Are Visited By This Species (2 species: both native): Cutleaf Toothwort (*Cardamine concatenata*); Virginia Springbeauty (*Claytonia virginica*)

### *Eristalis tenax*<sup>1</sup> (Common Drone Fly)

Identified and First Noted By: N. Ritter

Year Observed: 2021

Flowering Plant Species Known for the GNA That Are Visited By This Species (1 species: introduced): *Chicory* (*Cichorium intybus*)

### *Helophilus fasciatus*<sup>N</sup> (Narrow-headed Marsh Fly)

Identified By: T. Roberts (iNaturalist); First Noted By: N. Ritter

Year Observed: 2020

Flowering Plant Species Known for the GNA That Are Visited By This Species (2 species: both native): Cutleaf Toothwort (*Cardamine concatenata*); Virginia Springbeauty (*Claytonia virginica*)

### *Meromacrus acutus*<sup>N</sup> (Carolinian Elegant)

Identified and First Noted By: N. Ritter

Year Observed: 2020

### *Temnostoma trifasciatum*<sup>N</sup> (Three-lined Falsehorn)

Identified By: T. Roberts (iNaturalist); First Noted By: N. Long

Year Observed: 2021

### *Toxomerus geminatus*<sup>N</sup> (Eastern Calligrapher)

Identified and First Noted By: N. Ritter

Years Observed: 2020; 2021

Flowering Plant Species Known for the GNA That Are Visited By This Species (57 species: Natives - 44; Introduced - 13): Allegheny Blackberry (*Rubus*

*alleggheniensis*); American Ginseng (*Panax quinquefolius*); American Pokeweed (*Phytolacca americana*); American Witchhazel (*Hamamelis virginiana*); Arrowleaf Tearthumb (*Polygonum sagittatum*); **Autumn Olive (*Elaeagnus umbellata*)**; **Black Medick (*Medicago lupulina*)**; Blackeyed Susan (*Rudbeckia hirta*); Blackhaw (*Viburnum prunifolium*); Bloodroot (*Sanguinaria canadensis*); Blue Mistflower (*Conoclinium coelestinum*); Broadleaf Enchanter's Nightshade (*Circaea lutetiana*); **Bull Thistle (*Cirsium vulgare*)**; Canada Goldenrod (*Solidago canadensis*); **Canada Thistle (*Cirsium arvense*)**; Canadian Blacksnakeroot (*Sanicula canadensis*); Canadian Honewort (*Cryptotaenia canadensis*); Canadian Horseweed (*Conyza canadensis*); **Chicory (*Cichorium intybus*)**; Cockspur Hawthorn (*Crataegus crus-galli*); Common Blue Wood Aster (*Symphotrichum cordifolium*); **Common Chickweed (*Stellaria media*)**; **Common Motherwort (*Leonurus cardiaca*)**; **Common Mullein (*Verbascum thapsus*)**; **Common Yarrow (*Achillea millefolium*)**; Cutleaf Coneflower (*Rudbeckia laciniata*); Early Goldenrod (*Solidago juncea*); Eastern Daisy Fleabane (*Erigeron annuus*); Eastern Poison Ivy (*Toxicodendron radicans*); **European Cranberrybush (*Viburnum opulus*)**; Flat-top Goldentop (*Euthamia graminifolia*); Golden Ragwort (*Packera aurea*); Gray Goldenrod (*Solidago nemoralis*); **Greater Burdock (*Arctium lappa*)**; Honeylocust (*Gleditsia triacanthos*); Joe Pye Weed (*Eutrochium purpureum*); Longstyle Sweetroot (*Osmorhiza longistylis*); Narrowleaf Mountainmint (*Pycnanthemum tenuifolium*); New England Aster (*Symphotrichum novae-angliae*); New Jersey Tea (*Ceanothus americanus*); Norwegian Cinquefoil (*Potentilla norvegica*); **Oxeye Daisy (*Leucanthemum vulgare*)**; Philadelphia Fleabane (*Erigeron philadelphicus*); Prairie Fleabane (*Erigeron strigosus*); Ramp (*Allium tricoccum*); Roundlobe Hepatica (*Hepatica nobilis var. obtusa*); Smooth Carrionflower (*Smilax herbacea*); Smooth Sumac (*Rhus glabra*); Southern Arrowwood (*Viburnum dentatum*); Spotted Water Hemlock (*Cicuta maculata*); **Stinking Chamomile (*Anthemis cotula*)**; Virginia Springbeauty (*Claytonia virginica*); White Snakeroot (*Ageratina altissima*); White Vervain (*Verbena urticifolia*); Wild Cucumber (*Echinocystis lobata*); Woman's Tobacco (*Antennaria plantaginifolia*); Yellow Giant Hyssop (*Agastache nepetoides*)

### ***Toxomerus marginatus*<sup>N</sup> (Margined Calligrapher)**

**Identified By:** T. Roberts (iNaturalist); **First Noted By:** N. Ritter

**Years Observed:** 2020; 2021

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (93 species: Natives - 73; Introduced - 20): Allegheny Blackberry (*Rubus allegheniensis*); American Black Elderberry (*Sambucus nigra ssp. canadensis*); American False Pennyroyal (*Hedeoma pulegioides*); American Water Horehound (*Lycopus americanus*); Arrowleaf Tearthumb (*Polygonum sagittatum*); **Autumn Olive (*Elaeagnus umbellata*)**; **Black Medick (*Medicago lupulina*)**; Black Willow (*Salix nigra*); Blackeyed Susan (*Rudbeckia hirta*); Blackhaw (*Viburnum prunifolium*); Bloodroot (*Sanguinaria canadensis*); Broadleaf Arrowhead (*Sagittaria latifolia*); Broadleaf Enchanter's Nightshade (*Circaea lutetiana*); Bulbous Bittercress (*Cardamine bulbosa*); **Butter-print (*Abutilon theophrasti*)**; Canada Goldenrod (*Solidago canadensis*); **Canada Thistle (*Cirsium arvense*)**; Canadian Honewort (*Cryptotaenia canadensis*); Canadian Horseweed (*Conyza canadensis*); Carolina Geranium (*Geranium carolinianum*); Carpenter's Square (*Scrophularia marilandica*); **Chicory (*Cichorium intybus*)**; Claspig Venus' Looking-glass (*Triodanis perfoliata*); Clustered Blacksnakeroot (*Sanicula odorata*); Common Blue Wood Aster (*Symphotrichum cordifolium*); Common Boneset (*Eupatorium perfoliatum*); **Common Chickweed (*Stellaria media*)**; Common Cinquefoil (*Potentilla simplex*); Common Evening Primrose (*Oenothera biennis*); Common Goldstar (*Hypoxis hirsuta*); Common Milkweed (*Asclepias syriaca*); **Common Mouse-ear Chickweed (*Cerastium fontanum*)**; **Common Mullein (*Verbascum thapsus*)**; **Common St. Johnswort (*Hypericum perforatum*)**; **Common Yarrow (*Achillea millefolium*)**; Common Yellow Oxalis (*Oxalis stricta*); **Corn Speedwell (*Veronica arvensis*)**; Culver's Root (*Veronicastrum virginicum*); Cutleaf Toothwort (*Cardamine concatenata*); **Dames Rocket (*Hesperis***

*matronalis*); Early Goldenrod (*Solidago juncea*); Eastern Daisy Fleabane (*Erigeron annuus*); Eastern Poison Ivy (*Toxicodendron radicans*); **European Cranberrybush** (*Viburnum opulus*); Eyebane (*Chamaesyce nutans*); Field Thistle (*Cirsium discolor*); Flat-top Goldentop (*Euthamia graminifolia*); Flowering Dogwood (*Cornus florida*); Foxglove Beardtongue (*Penstemon digitalis*); Giant Goldenrod (*Solidago gigantea*); Golden Ragwort (*Packera aurea*); Gray Goldenrod (*Solidago nemoralis*); Green Carpetweed (*Mollugo verticillata*); Indianhemp (*Apocynum cannabinum*); Joe Pye Weed (*Eutrochium purpureum*); Littleleaf Buttercup (*Ranunculus abortivus*); Longleaf Starwort (*Stellaria longifolia*); Longstyle Sweetroot (*Osmorhiza longistylis*); **Meadow Hawkweed** (*Hieracium caespitosum*); Narrowleaf Blue-eyed Grass (*Sisyrinchium angustifolium*); Narrowleaf Mountainmint (*Pycnanthemum tenuifolium*); Neckweed (*Veronica peregrina*); New England Aster (*Symphotrichum novae-angliae*); New Jersey Tea (*Ceanothus americanus*); Nodding Beggartick (*Bidens cernua*); Nodding Chickweed (*Cerastium nutans*); Norwegian Cinquefoil (*Potentilla norvegica*); Oneseed Bur Cucumber (*Sicyos angulatus*); **Oxeye Daisy** (*Leucanthemum vulgare*); Pennsylvania Smartweed (*Polygonum pensylvanicum*); Philadelphia Fleabane (*Erigeron philadelphicus*); Prairie Fleabane (*Erigeron strigosus*); Purpleleaf Willowherb (*Epilobium coloratum*); Purplestem Beggarticks (*Bidens connata*); **Queen Anne's Lace** (*Daucus carota*); Queendevil (*Hieracium gronovii*); Sassafras (*Sassafras albidum*); **Shepherd's Purse** (*Capsella bursa-pastoris*); Smooth Sumac (*Rhus glabra*); Spotted Water Hemlock (*Cicuta maculata*); **Stinking Chamomile** (*Anthemis cotula*); **Sulphur Cinquefoil** (*Potentilla recta*); Swamp Verbena (*Verbena hastata*); **Sweetclover** (*Melilotus officinalis*); Thinleaf Sunflower (*Helianthus decapetalus*); Virginia Mountainmint (*Pycnanthemum virginianum*); Virginia Springbeauty (*Claytonia virginica*); Virginia Strawberry (*Fragaria virginiana*); White Avens (*Geum canadense*); White Snakeroot (*Ageratina altissima*); White Vervain (*Verbena urticifolia*); Wild Cucumber (*Echinocystis lobata*); Woman's Tobacco (*Antennaria plantaginifolia*)

## Tachinidae (5 species)

### **Dinera** Indet. #1

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2021

### **Exoristinae** Indet. #1<sup>N</sup> (Bristle Fly)

**Identified By:** A. Santos (iNaturalist); **First Noted By:** N. Ritter

**Year Observed:** 2020

### **Gonia** Indet. #1 (Bristle Fly)

**Identified By:** C. Angell (iNaturalist); **First Noted By:** N. Ritter

**Year Observed:** 2021

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (3 species: all native): Roundlobe Hepatica (*Hepatica nobilis* var. *obtusata*); Rue Anemone (*Thalictrum thalictroides*); Virginia Springbeauty (*Claytonia virginica*)

### **Juriniopsis adusta**<sup>N</sup> (No Common Name)

**Identified and First Noted By:** N. Ritter

**Years Observed:** 2020; 2021

***Trichopoda pennipes*<sup>N</sup> (Swift Feather-legged Fly)**

**Identified and First Noted By:** N. Ritter

**Years Observed:** 2020; 2021

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (7 species: all native): American Water Horehound (*Lycopus americanus*); American Witchhazel (*Hamamelis virginiana*); Giant Goldenrod (*Solidago gigantea*); Gray Goldenrod (*Solidago nemoralis*); Lateflowering Thoroughwort (*Eupatorium serotinum*); Spotted Water Hemlock (*Cicuta maculata*); Virginia Mountainmint (*Pycnanthemum virginianum*)

**Tephritidae (1 species)**

***Eurosta solidaginis*<sup>N</sup> (Goldenrod Gall Fly)**

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2021

**Tipulidae (4 species)**

***Tipula* Indet. #4<sup>N</sup> (Crane Fly)**

**Identified and First Noted By:** D. DiFederico; **Also Noted By:** Stroud Water Research Center - 2017

**Years Observed:** 2007; 2017

***Tipula* Indet. #1<sup>1</sup> (Crane Fly)**

**Identified By:** K. Schulz (iNaturalist); **First Noted By:** N. Ritter

**Year Observed:** 2020

***Tipula* Indet. #2<sup>UNK</sup> (Crane Fly)**

**Identified By:** HypersonicGX (iNaturalist); **First Noted By:** N. Ritter

**Year Observed:** 2020

***Tipula* Indet. #3<sup>UNK</sup> (Crane Fly)**

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2020



### Ulidiidae (1 species)

#### *Tritoxa incurva*<sup>N</sup> (Picture-winged Fly)

Identified and First Noted By: N. Ritter

Year Observed: 2020

### Order Ephemeroptera: Mayflies

### Ameletidae (1 species)

#### *Ameletus* Indet. #1<sup>N</sup> (Mayfly)

Identified and First Noted By: D. DiFederico

Year Observed: 2007

### Baetidae (1 species)

#### *Baetidae* Indet. #1<sup>N</sup> (Mayfly)

Identified and First Noted By: D. DiFederico

Year Observed: 2007

### Family Unknown

#### *Ephemeroptera* Indet. #1<sup>N</sup> (Mayfly)

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

### Heptageniidae (2 species)

#### *Maccaffertium modestum*<sup>N</sup> (Flat-headed Mayfly)

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

#### Conservation Status

IUCN: Species has not been reviewed (Website checked:2/10/2020)

***Stenonema* Indet. #1<sup>N</sup> (Mayfly)**

Identified and First Noted By: D. DiFederico

Year Observed: 2007

**Isonychiidae (1 species)**

***Isonychia* Indet. #1<sup>N</sup>**

Identified By: Original Website; First Noted By: Not Known

**Order Hemiptera: True Bugs, Hoppers, Aphids, and Allies**

**Acanaloniidae (2 species)**

***Acanalonia bivittata*<sup>N</sup> (Two-striped Planthopper)**

Identified By: N. Ritter; First Noted By: P. Vermeulen; Also Noted By: N. Ritter

Years Observed: 2018; 2020; 2021

***Acanalonia conica*<sup>N</sup> (Green Cone-headed Planthopper)**

Identified and First Noted By: N. Ritter

Year Observed: 2020

Flowering Plant Species Known for the GNA That Are Visited By This Species (2 species: both native): Canada Germander (*Teucrium canadense*); Eastern Redcedar (*Juniperus virginiana*)

**Aphalaridae (1 species)**

***Pachypsylla celtidismamma*<sup>N</sup> (Hackberry Nipplegall Psylla)**

Identified and First Noted By: N. Ritter

Year Observed: 2020

## Aphididae (7 species)

### *Aphis nerii*<sup>1</sup> (Milkweed Aphid)

**Identified By:** N. Ritter; **First Noted By:** G. Hertel; **Also Noted By:** N. Ritter

**Years Observed:** 2014; 2020; 2021

### *Grylloprociphilus imbricator*<sup>N</sup> (Beech Blight Aphid)

**Identified and First Noted By:** G. Hertel; **Also Noted By:** P. Vermeulen; N. Ritter; N. Long

**Years Observed:** 2014; 2018; 2019; 2021

#### Conservation Status

**IUCN:** Species has not been reviewed (Website checked:11/16/2021)

### *Hormaphis hamamelidis*<sup>N</sup> (Witch-hazel Cone Gall Aphid)

**Identified and First Noted By:** N. Ritter; **Also Noted By:** K. Johnson

**Years Observed:** 2019; 2021

### *Illinoia liriodendri*<sup>1</sup> (Tuliptree Aphid)

**Identified and First Noted By:** N. Ritter; **Also Noted By:** N. Long

**Years Observed:** 2020; 2021

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (1 species: native): Tuliptree (*Liriodendron tulipifera*)

### *Macrosiphum rosae*<sup>1</sup> (Rose Aphid)

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2020

#### Conservation Status

**IUCN:** Species has not been reviewed (Website checked:7/28/2020)

### *Tetraneura ulmi* (Elm Sack Gall Aphid)

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2021

### *Uroleucon* Indet. #1<sup>N</sup> (Goldenrod Aphid)

Identified and First Noted By: N. Ritter

Year Observed: 2020

### **Aphrophoridae (1 species)**

#### ***Philaenus spumarius*<sup>N</sup> (Meadow Spittlebug)**

Identified and First Noted By: N. Ritter

Year Observed: 2020

### **Aradidae (1 species)**

#### ***Aradus* Indet. #1 (Flat Bugs)**

Identified and First Noted By: N. Ritter; Also Noted By: N. Long

Year Observed: 2021

### **Cicadellidae (2 species)**

#### ***Graphocephala versuta*<sup>N</sup> (Versute Sharpshooter)**

Identified and First Noted By: N. Ritter

Year Observed: 2021

#### ***Jikradia olitoria*<sup>N</sup> (Coppery Leafhopper)**

Identified By: N. Ritter; First Noted By: P. Vermeulen; Also Noted By: N. Ritter

Years Observed: 2020; 2021

### **Cicadidae (2 species)**

#### ***Neotibicen* Indet. #1 (Translucent Cicada)**

Identified and First Noted By: N. Ritter

Year Observed: 2019

#### ***Neotibicen tibicen* Indet. #2 (Swamp Cicada)**

Identified By: W. Chatfield-Taylor (iNaturalist); First Noted By: N. Ritter

Year Observed: 2019

## Coccidae (1 species)

### *Ceroplastes* Indet. #1 (Wax Scale)

Identified and First Noted By: N. Ritter

Year Observed: 2020

## Coreidae (2 species)

### *Acanthocephala terminalis*<sup>N</sup> (Leaf-footed Bug)

Identified and First Noted By: N. Ritter; Also Noted By: P. Vermeulen; N. Long

Years Observed: 2019; 2021

#### Conservation Status

IUCN: Species has not been reviewed (Website checked:7/28/2020)

### *Leptoglossus oppositus*<sup>N</sup> (Leaf-Footed Bug)

Identified By: E. Williams (iNaturalist); First Noted By: P. Vermeulen

Years Observed: 2018; 2020; 2021

## Diaspididae (1 species)

### *Diaspididae* Indet. #1<sup>N</sup> (Armored Scale Insects)

Identified and First Noted By: N. Ritter

Year Observed: 2019

## Family Unknown

### *Coccoidea* Indet. #1 (Scale Insect)

Identified and First Noted By: N. Ritter

Year Observed: 2019

## Flatidae (3 species)

### *Flatini* Indet. #1<sup>N</sup> (Flatid Planthopper)

Identified and First Noted By: N. Ritter

Year Observed: 2020

### *Flatormenis proxima* (Northern Flatid Planthopper)

Identified and First Noted By: N. Ritter

Year Observed: 2020

### *Metcalfa pruinosa*<sup>N</sup> (Citrus Flatid Planthopper)

Identified and First Noted By: N. Ritter; Also Noted By: P. Vermeulen

Years Observed: 2018; 2020

## Fulgoridae (1 species)

### *Lycorma delicatula*<sup>1</sup> (Spotted Lanternfly)

Identified and First Noted By: M. Beatty; Also Noted By: C. Catranis; J. Chandler; N. Ritter; P. Vermeulen; A. Rivellini; N. Long; M. Dowd; M. Rettenmaier; countless visitors to the Gordon

Years Observed: 2018; 2019; 2020; 2021

#### Conservation Status

IUCN: Species has not been reviewed (Website checked:7/28/2020)

## Gerridae (1 species)

### *Aquarius remigis* Complex<sup>N</sup> (Water Strider)

Identified By: M. Pintar (iNaturalist); First Noted By: N. Long

Year Observed: 2021

## Lygaeidae (1 species)

### *Oncopeltus fasciatus*<sup>N</sup> (Large Milkweed Bug)

**Identified By:** N. Ritter; **First Noted By:** G. Hertel; **Also Noted By:** N. Ritter; N. Long

**Years Observed:** 2014; 2015; 2017; 2019; 2020

#### Conservation Status

**IUCN:** Species has not been reviewed (Website checked:2/10/2020)

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (3 species: all native): Common Milkweed (*Asclepias syriaca*); Narrowleaf Mountainmint (*Pycnanthemum tenuifolium*); Swamp Milkweed (*Asclepias incarnata*)

## Membracidae (1 species)

### *Ceresini*<sup>N</sup> (Buffalo Treehopper)

**Identified By:** S. Hendrix (iNaturalist); **First Noted By:** N. Ritter

**Year Observed:** 2021

## Monophlebidae (1 species)

### *Icerya purchasi*<sup>I</sup> (Cottony Cushion Scale)

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2019

## Pentatomidae (2 species)

### *Brochymena arborea*<sup>N</sup> (Stink Bug)

**Identified By:** A. Meeds (iNaturalist); **First Noted By:** N. Ritter

**Year Observed:** 2020

### *Halyomorpha halys*<sup>I</sup> (Brown Marmorated Stink Bug)

**Identified By:** K. Wolgemuth (BugGuide.net); **First Noted By:** N. Ritter

**Years Observed:** 2018; 2021

## Reduviidae (3 species)

### *Arilus cristatus*<sup>N</sup> (Wheel Bug)

Identified By: N. Ritter; First Noted By: G. Hertel

Year Observed: 2010

### *Phymata fasciata*<sup>N</sup> (Ambush Bug)

Identified and First Noted By: N. Ritter; Also Noted By: Maeve Dowd

Year Observed: 2021

### *Zelus luridus*<sup>N</sup> (Pale Green Assassin Bug)

Identified By: N. Ritter; First Noted By: P. Vermeulen; Also Noted By: kojo1019

Years Observed: 2020; 2021

## Order Hymenoptera: Ants, Bees, Wasps, and Sawflies

### Andrenidae (2 species)

#### *Andrena* Indet. #1 (Mining Bee)

Identified and First Noted By: N. Ritter

Year Observed: 2021

Flowering Plant Species Known for the GNA That Are Visited By This Species (5 species: Natives - 2; Introduced - 3): Callery Pear (*Pyrus calleryana*); Canada Goldenrod (*Solidago altissima*); Common Chickweed (*Stellaria media*); Common Yarrow (*Achillea millefolium*); Virginia Springbeauty (*Claytonia virginica*)

#### *Andrena* Indet. #2<sup>1</sup> (Mining Bee)

Identified By: J. Ascher (iNaturalist); First Noted By: N. Ritter

Year Observed: 2021

Flowering Plant Species Known for the GNA That Are Visited By This Species (5 species: Natives - 2; Introduced - 3): Callery Pear (*Pyrus calleryana*); Canada Goldenrod (*Solidago altissima*); Common Chickweed (*Stellaria media*); Common Yarrow (*Achillea millefolium*); Virginia Springbeauty (*Claytonia virginica*)



## Apidae (6 species)

### *Apis mellifera*<sup>1</sup> (Western Honey Bee)

**Identified By:** T. Sharrow (iNaturalist); **First Noted By:** N. Ritter

**Years Observed:** 2018; 2019; 2020; 2021

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (143 species: Natives - 106; Introduced - 37): Allegheny Blackberry (*Rubus allegheniensis*); **Alsike Clover** (*Trifolium hybridum*); Alternateleaf Dogwood (*Cornus alternifolia*); American Basswood (*Tilia americana*); American Black Elderberry (*Sambucus nigra ssp. canadensis*); American Bladdernut (*Staphylea trifolia*); American Burnweed (*Erechtites hieraciifolius*); American Pokeweed (*Phytolacca americana*); American Spikenard (*Aralia racemosa*); American Water Horehound (*Lycopus americanus*); American Witchhazel (*Hamamelis virginiana*); **Autumn Olive** (*Elaeagnus umbellata*); **Bird's-foot Trefoil** (*Lotus corniculatus*); Black Cherry (*Prunus serotina*); Black Locust (*Robinia pseudoacacia*); Black Raspberry (*Rubus occidentalis*); Black Willow (*Salix nigra*); Blackeyed Susan (*Rudbeckia hirta*); Blackhaw (*Viburnum prunifolium*); Bloodroot (*Sanguinaria canadensis*); Blue Mistflower (*Conoclinium coelestinum*); Blue Skullcap (*Scutellaria lateriflora*); Bluestem Goldenrod (*Solidago caesia*); Boxelder (*Acer negundo*); Broadleaf Arrowhead (*Sagittaria latifolia*); Broadleaf Cattail (*Typha latifolia*); **Bull Thistle** (*Cirsium vulgare*); **Butter And Eggs** (*Linaria vulgaris*); **Butter-print** (*Abutilon theophrasti*); Butterfly Milkweed (*Asclepias tuberosa*); Canada Germander (*Teucrium canadense*); Canada Goldenrod (*Solidago canadensis*); **Canada Thistle** (*Cirsium arvense*); Carpenter's Square (*Scrophularia marilandica*); **Carpet Bugleweed** (*Ajuga reptans*); **Chicory** (*Cichorium intybus*); Cockspur Hawthorn (*Crataegus crus-galli*); Common Blue Wood Aster (*Symphyotrichum cordifolium*); Common Boneset (*Eupatorium perfoliatum*); **Common Chickweed** (*Stellaria media*); **Common Dandelion** (*Taraxacum officinale*); Common Evening Primrose (*Oenothera biennis*); Common Milkweed (*Asclepias syriaca*); **Common Mouse-ear Chickweed** (*Cerastium fontanum*); **Common Mullein** (*Verbascum thapsus*); **Common St. Johnswort** (*Hypericum perforatum*); **Crownvetch** (*Securigera varia*); Culver's Root (*Veronicastrum virginicum*); Cutleaf Coneflower (*Rudbeckia laciniata*); Cutleaf Toothwort (*Cardamine concatenata*); Devil's Beggartick (*Bidens frondosa*); Dutchman's Breeches (*Dicentra cucullaria*); Early Goldenrod (*Solidago juncea*); Eastern Cottonwood (*Populus deltoides*); Eastern Poison Ivy (*Toxicodendron radicans*); Eastern Redbud (*Cercis canadensis*); Field Pussytoes (*Antennaria neglecta*); Field Thistle (*Cirsium discolor*); Flat-top Goldentop (*Euthamia graminifolia*); Foxglove Beardtongue (*Penstemon digitalis*); Frost Grape (*Vitis vulpina*); **Fuller's Teasel** (*Dipsacus fullonum*); **Garden Asparagus** (*Asparagus officinalis*); **Garden Yellowrocket** (*Barbarea vulgaris*); **Garlic Mustard** (*Alliaria petiolata*); Giant Goldenrod (*Solidago gigantea*); Gray Goldenrod (*Solidago nemoralis*); Great Blue Lobelia (*Lobelia siphilitica*); Great Ragweed (*Ambrosia trifida*); **Greater Burdock** (*Arctium lappa*); **Ground Ivy** (*Glechoma hederacea*); Hairy Solomon's Seal (*Polygonatum pubescens*); Honeylocust (*Gleditsia triacanthos*); Indianhemp (*Apocynum cannabinum*); **Japanese Barberry** (*Berberis thunbergii*); **Japanese Hop** (*Humulus japonicus*); Jewelweed (*Impatiens capensis*); Joe Pye Weed (*Eutrochium purpureum*); Jumpseed (*Polygonum virginianum*); Lateflowering Thoroughwort (*Eupatorium serotinum*); **Lesser Burdock** (*Arctium minus*); Littleleaf Buttercup (*Ranunculus abortivus*); Longstyle Sweetroot (*Osmorhiza longistylis*); Marsh Blue Violet (*Viola cucullata*); Mayapple (*Podophyllum peltatum*); **Meadow Hawkweed** (*Hieracium caespitosum*); **Musk Mallow** (*Malva moschata*); Narrowleaf Mountainmint (*Pycnanthemum tenuifolium*); New England Aster (*Symphyotrichum novae-angliae*); New Jersey Tea (*Ceanothus americanus*); Nodding Beggartick (*Bidens cernua*); Nodding Chickweed (*Cerastium nutans*); **Nodding Plumeless Thistle** (*Carduus nutans*); Northern Dewberry (*Rubus flagellaris*); **Norway Maple** (*Acer platanoides*); Oneseed Bur

Cucumber (*Sicyos angulatus*); **Oxeye Daisy** (*Leucanthemum vulgare*); Pennsylvania Smartweed (*Polygonum pennsylvanicum*); Philadelphia Fleabane (*Erigeron philadelphicus*); Poke Milkweed (*Asclepias exaltata*); Prairie Fleabane (*Erigeron strigosus*); **Purple Loosestrife** (*Lythrum salicaria*); **Queen Anne's Lace** (*Daucus carota*); Queendevil (*Hieracium gronovii*); Rabbit-tobacco (*Pseudognaphalium obtusifolium*); Ramp (*Allium tricoccum*); **Red Clover** (*Trifolium pratense*); Roundleaf Goldenrod (*Solidago patula*); Roundlobe Hepatica (*Hepatica nobilis* var. *obtusata*); Rue Anemone (*Thalictrum thalictroides*); Seedbox (*Ludwigia alternifolia*); **Shepherd's Purse** (*Capsella bursa-pastoris*); **Siberian Squill** (*Scilla siberica*); Slippery Elm (*Ulmus rubra*); Smooth Carrionflower (*Smilax herbacea*); Smooth Sumac (*Rhus glabra*); Spanish Needles (*Bidens bipinnata*); Spotted Geranium (*Geranium maculatum*); Spotted Water Hemlock (*Cicuta maculata*); Striped Prince's Pine (*Chimaphila maculata*); Sugar Maple (*Acer saccharum*); **Sulphur Cinquefoil** (*Potentilla recta*); Swamp Milkweed (*Asclepias incarnata*); Swamp Verbena (*Verbena hastata*); **Sweetclover** (*Melilotus officinalis*); Thinleaf Sunflower (*Helianthus decapetalus*); Umbrella-tree (*Magnolia tripetala*); Violet Woodsorrel (*Oxalis violacea*); Virginia Bluebells (*Mertensia virginica*); Virginia Creeper (*Parthenocissus quinquefolia*); Virginia Mountainmint (*Pycnanthemum virginianum*); Virginia Springbeauty (*Claytonia virginica*); Virginia Strawberry (*Fragaria virginiana*); Virginia Water Horehound (*Lycopus virginicus*); White Ash (*Fraxinus americana*); **White Clover** (*Trifolium repens*); White Snakeroot (*Ageratina altissima*); White Vervain (*Verbena urticifolia*); Wild Cucumber (*Echinocystis lobata*); Woman's Tobacco (*Antennaria plantaginifolia*); Wrinkleleaf Goldenrod (*Solidago rugosa*); Yellow Giant Hyssop (*Agastache nepetoides*); Yellow Trout Lily (*Erythronium americanum*)

### ***Bombus griseocollis*<sup>N</sup> (Brown-belted Bumble Bee)**

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2021

#### **Conservation Status**

**IUCN:** Redlist Global Status: Least Concern; Global Population: Stable

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (8 species: all native): Allegheny Monkeyflower (*Mimulus ringens*); Common Milkweed (*Asclepias syriaca*); Cutleaf Toothwort (*Cardamine concatenata*); Dutchman's Breeches (*Dicentra cucullaria*); Narrowleaf Mountainmint (*Pycnanthemum tenuifolium*); Showy Orchis (*Galearis spectabilis*); Swamp Milkweed (*Asclepias incarnata*); Virginia Springbeauty (*Claytonia virginica*)

### ***Bombus impatiens*<sup>N</sup> (Common Eastern Bumble Bee)**

**Identified By:** N. Ritter; **First Noted By:** W. Ricci; **Also Noted By:** N. Ritter; N. Long

**Years Observed:** 2013; 2020; 2021

#### **Conservation Status**

**IUCN:** Redlist Global Status: Least Concern; Global Population: Stable

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (103 species: Natives - 77; Introduced - 26): Allegheny Blackberry (*Rubus allegheniensis*); Allegheny Monkeyflower (*Mimulus ringens*); **Alsike Clover** (*Trifolium hybridum*); American Bladdernut (*Staphylea trifolia*); American Hogpeanut (*Amphicarpaea bracteata*); American Pokeweed (*Phytolacca americana*); American Water Horehound (*Lycopus americanus*); American Witchhazel (*Hamamelis virginiana*); **Bird's-foot Trefoil** (*Lotus corniculatus*); Black Cherry (*Prunus serotina*); Black Locust (*Robinia pseudoacacia*); Black

Raspberry (*Rubus occidentalis*); Blackeyed Susan (*Rudbeckia hirta*); Blue Cohosh (*Caulophyllum thalictroides*); Blue Skullcap (*Scutellaria lateriflora*); Bluestem Goldenrod (*Solidago caesia*); **Bull Thistle** (*Cirsium vulgare*); **Butter And Eggs** (*Linaria vulgaris*); Canada Germander (*Teucrium canadense*); Canada Goldenrod (*Solidago canadensis*); **Canada Thistle** (*Cirsium arvense*); Carolina Horsenettle (*Solanum carolinense*); Carpenter's Square (*Scrophularia marilandica*); **Chicory** (*Cichorium intybus*); **Climbing Nightshade** (*Solanum dulcamara*); Cockspur Hawthorn (*Crataegus crus-galli*); Common Blue Wood Aster (*Symphyotrichum cordifolium*); Common Boneset (*Eupatorium perfoliatum*); **Common Dandelion** (*Taraxacum officinale*); Common Evening Primrose (*Oenothera biennis*); Common Milkweed (*Asclepias syriaca*); **Common Mullein** (*Verbascum thapsus*); Common Selfheal (*Prunella vulgaris*); **Common St. Johnswort** (*Hypericum perforatum*); **Common Yarrow** (*Achillea millefolium*); **Crownvetch** (*Securigera varia*); Culver's Root (*Veronicastrum virginicum*); Cutleaf Coneflower (*Rudbeckia laciniata*); Cutleaf Toothwort (*Cardamine concatenata*); Devil's Beggartick (*Bidens frondosa*); Dutchman's Breeches (*Dicentra cucullaria*); Early Goldenrod (*Solidago juncea*); Eastern Daisy Fleabane (*Erigeron annuus*); Eastern Redbud (*Cercis canadensis*); Field Thistle (*Cirsium discolor*); Flat-top Goldentop (*Euthamia graminifolia*); Foxglove Beardtongue (*Penstemon digitalis*); **Fuller's Teasel** (*Dipsacus fullonum*); **Garden Yellowrocket** (*Barbarea vulgaris*); Giant Goldenrod (*Solidago gigantea*); Gray Goldenrod (*Solidago nemoralis*); Great Blue Lobelia (*Lobelia siphilitica*); **Japanese Barberry** (*Berberis thunbergii*); Jewelweed (*Impatiens capensis*); Joe Pye Weed (*Eutrochium purpureum*); Jumpseed (*Polygonum virginianum*); Lateflowering Thoroughwort (*Eupatorium serotinum*); **Lesser Burdock** (*Arctium minus*); Longstyle Sweetroot (*Osmorhiza longistylis*); Marsh Blue Violet (*Viola cucullata*); Mayapple (*Podophyllum peltatum*); Nakedflower Ticktrefoil (*Desmodium nudiflorum*); Narrowleaf Mountainmint (*Pycnanthemum tenuifolium*); New England Aster (*Symphyotrichum novae-angliae*); New Jersey Tea (*Ceanothus americanus*); Nodding Beggartick (*Bidens cernua*); **Nodding Plumeless Thistle** (*Carduus nutans*); Northern Dewberry (*Rubus flagellaris*); **Norway Maple** (*Acer platanoides*); Oneseed Bur Cucumber (*Sicyos angulatus*); **Oxeye Daisy** (*Leucanthemum vulgare*); Panicleleaf Ticktrefoil (*Desmodium paniculatum*); Partridgeberry (*Mitchella repens*); Pennsylvania Smartweed (*Polygonum pensylvanicum*); Peppermint (*Mentha x piperita*); Perplexed Ticktrefoil (*Desmodium perplexum*); Pointedleaf Ticktrefoil (*Desmodium glutinosum*); **Purple Loosestrife** (*Lythrum salicaria*); Purplestem Beggarticks (*Bidens connata*); **Queen Anne's Lace** (*Daucus carota*); Queendevil (*Hieracium gronovii*); **Red Clover** (*Trifolium pratense*); Reed Canarygrass (*Phalaris arundinacea*); **Rose-of-Sharon** (*Hibiscus syriacus*); Roundleaf Goldenrod (*Solidago patula*); Showy Orchis (*Galearis spectabilis*); Spotted Geranium (*Geranium maculatum*); **Spotted Ladysthumb** (*Polygonum persicaria*); Spotted Water Hemlock (*Cicuta maculata*); Staghorn Sumac (*Rhus typhina*); Swamp Milkweed (*Asclepias incarnata*); Swamp Verbena (*Verbena hastata*); **Sweetclover** (*Melilotus officinalis*); Thinleaf Sunflower (*Helianthus decapetalus*); Virginia Mountainmint (*Pycnanthemum virginianum*); Virginia Springbeauty (*Claytonia virginica*); Virginia Strawberry (*Fragaria virginiana*); **White Clover** (*Trifolium repens*); White Snakeroot (*Ageratina altissima*); White Turtlehead (*Chelone glabra*); White Vervain (*Verbena urticifolia*); Wrinkleleaf Goldenrod (*Solidago rugosa*); Yellow Giant Hyssop (*Agastache nepetoides*)

### **Ceratina Indet. #1 (Small Carpenter Bee)**

**Identified and First Noted By:** N. Ritter; **Also Noted By:** ]

**Year Observed:** 2021

### **Nomada Indet. #1 (Nomad Bee)**

**Identified By:** klittle2 (iNaturalist); **First Noted By:** N. Ritter

**Year Observed:** 2021

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (4 species: Natives - 3; Introduced - 1): *Callery Pear* (*Pyrus calleryana*); Roundlobe Hepatica (*Hepatica nobilis var. obtusa*); Rue Anemone (*Thalictrum thalictroides*); Virginia Springbeauty (*Claytonia virginica*)

### ***Xylocopa virginica*<sup>N</sup> (Eastern Carpenter Bee)**

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2021

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (2 species: Natives - 1; Introduced - 1): Hairy White Oldfield Aster (*Symphotrichum pilosum*); *Multiflora Rose* (*Rosa multiflora*)

## **Crabronidae (4 species)**

### ***Bicyrtes quadrifasciatus*<sup>N</sup> (Four-banded Stink Bug Wasp)**

Observers not known

**Year Observed:** 2021

### ***Cerceris* Indet. #1<sup>N</sup> (Weevil Wasp)**

**Identified By:** J. Cepeda (iNaturalist); **First Noted By:** N. Ritter

**Year Observed:** 2020

### ***Crabronina* Indet. #1 (Square-headed Wasp)**

**Identified By:** J. Ascher (iNaturalist); **First Noted By:** N. Ritter

**Year Observed:** 2020

### ***Sphecius speciosus*<sup>N</sup> (Eastern Cicada-killer Wasp)**

**Identified By:** N. Ritter; **First Noted By:** M. Dowd

**Year Observed:** 2021

## Cynipidae (2 species)

### *Amphibolips cookii*<sup>N</sup> (Oak Apple Gall Wasp)

Identified By: megachile (iNaturalist); First Noted By: N. Ritter

Year Observed: 2021

### *Amphibolips quercusjuglans*<sup>N</sup> (Oak Acorn Plum Gall Wasp)

Identified By: N. Ritter; First Noted By: G. Hertel; Also Noted By: J. Schedlbauer; P. Vermeulen; M. Beatty; A. Rivellini; N. Long; G. Turner; N. Ritter

Years Observed: 2011; 2016; 2017; 2018; 2019; 2020

## Diprionidae (1 species)

### *Neodiprion lecontei*<sup>N</sup> (Redheaded Pine Sawfly)

Identified and First Noted By: G. Hertel

Year Observed: 2012

#### Conservation Status

IUCN: Species has not been reviewed (Website checked:2/10/2020)

## Formicidae (12 species)

### *Aphaenogaster* Indet. #1<sup>UNK</sup> (Spine-wasted Ant)

Identified and First Noted By: N. Ritter

Year Observed: 2021

### *Camponotus americanus*<sup>N</sup> (American Carpenter Ant)

Identified By: N. Ritter; First Noted By: N. Long

Year Observed: 2021

### *Camponotus chromaiodes*<sup>N</sup> (Ferruginous Carpenter Ant)

Identified and First Noted By: N. Ritter

Years Observed: 2020; 2021

***Camponotus pennsylvanicus*<sup>N</sup> (Eastern Black Carpenter Ant)**

**Identified By:** N. Ritter; **First Noted By:** P. Vermeulen

**Year Observed:** 2020

***Formica fusca* Complex<sup>N</sup> (Fusca-group Field Ants)**

**Identified By:** E. Collins-Sussman (iNaturalist); **First Noted By:** N. Ritter

**Year Observed:** 2021

***Lasius* Indet. #1 (Citronella Ant)**

**Identified By:** E. Collins-Sussman (iNaturalist); **First Noted By:** N. Ritter

**Year Observed:** 2021

***Lasius claviger*<sup>N</sup> (Smaller Yellow Ant)**

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2021

***Myrmica* Indet. #1 (Myrmicine Ant)**

**Identified By:** E. Collins-Sussman (iNaturalist); **First Noted By:** N. Long

**Year Observed:** 2021

***Nylanderia flavipes* (Yellow-footed Ant)**

**Identified By:** E. Collins-Sussman (iNaturalist); **First Noted By:** N. Ritter

**Year Observed:** 2020

***Prenolepis imparis*<sup>N</sup> (Small Honey Ant)**

**Identified By:** E. Collins-Sussman (iNaturalist); **First Noted By:** N. Ritter

**Year Observed:** 2020

***Tapinoma* Indet. #1<sup>UNK</sup> (Ant)**

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2021

***Temnothorax* Indet. #1<sup>UNK</sup> (Acorn Ant)**

**Identified By:** A. Stoll (iNaturalist); **First Noted By:** N. Ritter

**Year Observed:** 2021

## Halictidae (7 species)

### *Augochlora pura*<sup>N</sup> (Pure Green Sweat Bee)

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2020

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (4 species: all native): American Pokeweed (*Phytolacca americana*); Hairy White Oldfield Aster (*Symphotrichum pilosum*); Virginia Springbeauty (*Claytonia virginica*); White Goldenrod (*Solidago bicolor*)

### *Augochlorella aurata*<sup>N</sup> (Golden Sweat Bee)

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2021

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (4 species: all native): American Holly (*Ilex opaca*); Eastern Daisy Fleabane (*Erigeron annuus*); Flat-top Goldentop (*Euthamia graminifolia*); Virginia Springbeauty (*Claytonia virginica*)

### *Halictus confusus*<sup>N</sup> (Confusing Furrow Bee)

**Identified By:** kittle2 (iNaturalist); **First Noted By:** N. Ritter

**Year Observed:** 2020

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (1 species: native): Cutleaf Toothwort (*Cardamine concatenata*)

### *Halictus rubicundus*<sup>N</sup> (Orange-legged Furrow Bee)

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2020

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (1 species: native): Lateflowering Thoroughwort (*Eupatorium serotinum*)

### *Lasioglossum* Indet. #1 (Sweat Bee)

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2021

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (7 species: Natives - 3; Introduced - 4): **Canada Thistle** (*Cirsium arvense*); Carolina Horsenettle (*Solanum carolinense*); **Common St. Johnswort** (*Hypericum perforatum*); Fringed Loosestrife (*Lysimachia ciliata*); **Japanese Honeysuckle**

(*Lonicera japonica*); Narrowleaf Mountainmint (*Pycnanthemum tenuifolium*); Queen Anne's Lace (*Daucus carota*)

### ***Lasioglossum* Indet. #2 (Sweat Bee)**

Identified and First Noted By: N. Ritter

Year Observed: 2021

Flowering Plant Species Known for the GNA That Are Visited By This Species (7 species: Natives - 3; Introduced - 4): Canada Thistle (*Cirsium arvense*); Carolina Horsenettle (*Solanum carolinense*); Common St. Johnswort (*Hypericum perforatum*); Fringed Loosestrife (*Lysimachia ciliata*); Japanese Honeysuckle (*Lonicera japonica*); Narrowleaf Mountainmint (*Pycnanthemum tenuifolium*); Queen Anne's Lace (*Daucus carota*)

### ***Sphecodes* Indet. #1<sup>N</sup> (Blood Bee)**

Identified and First Noted By: N. Ritter

Year Observed: 2020

Flowering Plant Species Known for the GNA That Are Visited By This Species (1 species: introduced): Queen Anne's Lace (*Daucus carota*)

## **Ichneumonidae (3 species)**

### ***Ichneumonidae* Indet. #1<sup>N</sup> (Ichneumonid Wasp)**

Identified and First Noted By: N. Ritter

Year Observed: 2020

### ***Ichneumonidae* Indet. #2 (Ichneumonid Wasp)**

Identified and First Noted By: N. Ritter

Year Observed: 2021

### ***Mesostenina* Indet. #1 (Ichneumonid Wasp)**

Identified By: N. Ritter; First Noted By: N. Long

Year Observed: 2021

## **Megachilidae (2 species)**

### ***Megachile sculpturalis*<sup>1</sup> (Sculptured Resin Bee)**

Identified and First Noted By: N. Ritter

Year Observed: 2020



***Osmia georgica*<sup>N</sup> (Georgia Mason Bee)**

Identified By: M. McCarthy (inaturalist); First Noted By: N. Ritter

Year Observed: 2021

**Scoliidae (1 species)**

***Scolia dubia* ssp. *dubia*<sup>N</sup> (Blue-winged Scoliid Wasp)**

Identified and First Noted By: N. Ritter

Years Observed: 2020; 2021

**Sphecidae (5 species)**

***Eremnophila aureonotata* (Narrow-wasted Wasp)**

Identified and First Noted By: N. Ritter

Year Observed: 2021

***Isodontia auripes*<sup>N</sup> (Brown-legged Grass-carrying Wasp)**

Identified and First Noted By: N. Ritter

Year Observed: 2021

***Sphex ichneumoneus*<sup>N</sup> (Great Golden Digger Wasp)**

Identified and First Noted By: N. Ritter

Years Observed: 2020; 2021

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (21 species: Natives - 19; Introduced - 2): American Basswood (*Tilia americana*); American Water Horehound (*Lycopus americanus*); Butterfly Milkweed (*Asclepias tuberosa*); Canada Goldenrod (*Solidago canadensis*); Common Boneset (*Eupatorium perfoliatum*); Common Milkweed (*Asclepias syriaca*); Culver's Root (*Veronicastrum virginicum*); Devil's Beggartick (*Bidens frondosa*); Flat-top Goldentop (*Euthamia graminifolia*); Giant Goldenrod (*Solidago gigantea*); Gray Goldenrod (*Solidago nemoralis*); Narrowleaf Mountainmint (*Pycnanthemum tenuifolium*); Oneseed Bur Cucumber (*Sicyos angulatus*); **Queen Anne's Lace (*Daucus carota*)**; Roundleaf Goldenrod (*Solidago patula*); Spotted Water Hemlock (*Cicuta maculata*); Swamp Milkweed (*Asclepias incarnata*); Swamp Verbena (*Verbena hastata*); **Sweetclover (*Melilotus officinalis*)**; Virginia Mountainmint (*Pycnanthemum virginianum*); White Snakeroot (*Ageratina altissima*)

***Sphex nudus*<sup>N</sup> (Katydid Wasp)**

**Identified and First Noted By:** N. Ritter

**Years Observed:** 2020; 2021

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (5 species: all native): Common Boneset (*Eupatorium perfoliatum*); Narrowleaf Mountainmint (*Pycnanthemum tenuifolium*); Swamp Milkweed (*Asclepias incarnata*); Virginia Mountainmint (*Pycnanthemum virginianum*); Wild Mint (*Mentha arvensis*)

### ***Sphex pensylvanicus*<sup>N</sup> (Great Black Digger Wasp)**

**Identified and First Noted By:** N. Ritter

**Years Observed:** 2020; 2021

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (1 species: native): Virginia Mountainmint (*Pycnanthemum virginianum*)

## **Vespidae (12 species)**

### ***Ancistrocerus adiabatus*<sup>N</sup> (Potter Wasp)**

**Identified By:** M. Buck (iNaturalist); **First Noted By:** N. Ritter

**Years Observed:** 2020; 2021

### ***Dolichovespula maculata*<sup>N</sup> (Bald-faced Hornet)**

**Identified and First Noted By:** N. Ritter; **Also Noted By:** K. McMillin

**Years Observed:** 2015; 2017; 2018; 2019; 2020

#### **Conservation Status**

**IUCN:** Species has not been reviewed (Website checked:11/16/2021)

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (16 species: Natives - 15; Introduced - 1): American Bladdernut (*Staphylea trifolia*); American Spikenard (*Aralia racemosa*); American Water Horehound (*Lycopus americanus*); Canada Goldenrod (*Solidago canadensis*); Carpenter's Square (*Scrophularia marilandica*); Common Blue Wood Aster (*Symphyotrichum cordifolium*); Common Boneset (*Eupatorium perfoliatum*); Flat-top Goldentop (*Euthamia graminifolia*); Giant Goldenrod (*Solidago gigantea*); Oneseed Bur Cucumber (*Sicyos angulatus*); **Queen Anne's Lace (*Daucus carota*)**; Roundleaf Goldenrod (*Solidago patula*); Spotted Water Hemlock (*Cicuta maculata*); Swamp Milkweed (*Asclepias incarnata*); Swamp Verbena (*Verbena hastata*); White Snakeroot (*Ageratina altissima*)

### ***Eumenes fraternus*<sup>N</sup> (Fraternal Potter Wasp)**

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2021

***Monobia quadridens*<sup>N</sup> (Four-toothed Mason Wasp)**

Identified and First Noted By: N. Ritter

Year Observed: 2020

***Polistes dominula*<sup>1</sup> (European Paper Wasp)**

Identified and First Noted By: N. Long

Year Observed: 2021

***Polistes cf. fuscatus*<sup>N</sup> (Northern Paper Wasp)**

Identified and First Noted By: N. Ritter

Years Observed: 2018; 2019

Flowering Plant Species Known for the GNA That Are Visited By This Species (2 species: both native): Canada Goldenrod (*Solidago altissima*); Common Milkweed (*Asclepias syriaca*)

***Polistes metricus*<sup>N</sup> (Metric Paper Wasp)**

Identified and First Noted By: N. Ritter

Year Observed: 2020

***Vespa crabro*<sup>1</sup> (European Hornet)**

Identified By: N. Ritter; First Noted By: G. Hertel; Also Noted By: N. Ritter; J. Pisciotta

Years Observed: 2007; 2009; 2020; 2021

***Vespula germanica*<sup>1</sup> (German Yellowjacket)**

Identified and First Noted By: N. Ritter

Year Observed: 2020

***Vespula maculifrons*<sup>N</sup> (Eastern Yellowjacket)**

Identified and First Noted By: N. Ritter; Also Noted By: M. Beatty

Years Observed: 2016; 2017; 2018; 2019

**Conservation Status**

IUCN: Species has not been reviewed (Website checked:2/10/2020)

Flowering Plant Species Known for the GNA That Are Visited By This Species (1 species: native): Jewelweed (*Impatiens capensis*)

***Vespula squamosa*<sup>N</sup> (Southern Yellowjacket)**

**Identified and First Noted By:** N. Ritter; **Also Noted By:** K. Krueger; M. Davies

**Years Observed:** 2019; 2020; 2021

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (5 species: all native): Canada Goldenrod (*Solidago canadensis*); Carpenter's Square (*Scrophularia marilandica*); Pennsylvania Smartweed (*Polygonum pensylvanicum*); Spotted Water Hemlock (*Cicuta maculata*); Swamp Milkweed (*Asclepias incarnata*)

***Vespula vidua*<sup>N</sup> (Widow Yellowjacket)**

**Identified and First Noted By:** N. Ritter

**Years Observed:** 2020; 2021

**Order Lepidoptera: Butterflies and Moths**

**Attevidae (1 species)**

***Atteva aurea*<sup>N</sup> (Ailanthus Webworm Moth)**

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2020

**Crambidae (6 species)**

***Agriphila* Indet. #1<sup>N</sup> (Sod Webworm Moth)**

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2020

***Crambidae* Indet. #1<sup>N</sup> (Moth)**

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2020

***Microcrambus* Indet. #1 (Grass Veneer)**

**Identified and First Noted By:** N. Ritter

Year Observed: 2020

***Nomophila nearctica*<sup>N</sup> (Lucerne Moth)**

Identified and First Noted By: N. Ritter

Year Observed: 2020

Flowering Plant Species Known for the GNA That Are Visited By This Species (3 species: all native): American Basswood (*Tilia americana*); Culver's Root (*Veronicastrum virginicum*); Flat-top Goldentop (*Euthamia graminifolia*)

***Pantographa limata*<sup>N</sup> (Basswood Leafroller Moth)**

Identified By: N. Ritter; First Noted By: N. Long

Year Observed: 2021

***Parapediasia* Indet. #1 (Crambid Snout Moth)**

Identified and First Noted By: N. Ritter

Year Observed: 2021

**Erebidae (14 species)**

***Caenurgia chloropha*<sup>N</sup> (Vetch Looper Moth)**

Identified and First Noted By: N. Ritter

Year Observed: 2021

***Cycnia tenera*<sup>N</sup> (Delicate Cycnia Moth)**

Identified By: N. Ritter; First Noted By: A. Rivellini; Also Noted By: M. Beatty

Year Observed: 2019

***Erebidae* Indet. #1**

Identified and First Noted By: N. Ritter

Year Observed: 2021

***Euchaetes egle*<sup>N</sup> (Milkweed Tussock Moth)**

Identified and First Noted By: N. Ritter

**Year Observed:** 2019

**Conservation Status**

**IUCN:** Species has not been reviewed (Website checked:7/28/2020)

***Halysidota tessellaris*<sup>N</sup> (Banded Tussock Moth)**

**Identified By:** D. Saunders (iNaturalist); **First Noted By:** D. Saunders; **Also Noted By:** N. Ritter

**Years Observed:** 2019; 2020; 2021

***Haploa* Indet. #1 (Haploa Moth)**

**Identified By:** N. Ritter; **First Noted By:** R. Resuta

**Year Observed:** 2020

***Hypeninae* Indet. #1<sup>N</sup> (Hypenine Snout Moths)**

**Identified By:** N. Ritter; **First Noted By:**

**Year Observed:** 2020

***Hypercompe scribonia* (Giant Leopard Moth)**

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2021

***Hyphantria cunea*<sup>N</sup> (Fall Webworm)**

**Identified and First Noted By:** N. Ritter; **Also Noted By:** J. Kline

**Years Observed:** 2018; 2019; 2020

**Conservation Status**

**IUCN:** Species has not been reviewed (Website checked:7/28/2020)

***Panopoda* Indet. #1 (Panopoda Moth)**

**Identified By:** k8thegr8 (iNaturalist); **First Noted By:** N. Ritter

**Year Observed:** 2020

***Pyrrharctia isabella*<sup>N</sup> (Isabella Tiger Moth)**

**Identified By:** N. Ritter; **First Noted By:** M. Beatty; **Also Noted By:** N. Ritter

**Years Observed:** 2019; 2020; 2021

**Conservation Status**

**IUCN:** Species has not been reviewed (Website checked:7/28/2020)

***Renia* Indet. #1 (Litter Moths)**

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2020

***Renia adspergillus*<sup>N</sup> (Speckled Renia Moth)**

**Identified By:** N. Ritter; **First Noted By:** N. Long; **Also Noted By:** N. Ritter

**Year Observed:** 2021

***Spilosoma virginica*<sup>N</sup> (Virginia Tiger Moth)**

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2018

**Conservation Status**

**IUCN:** Species has not been reviewed (Website checked:2/10/2020)

## Family Unknown

### *Lepidoptera* Indet. #1<sup>N</sup> (Butterfly/Moth)

Identified and First Noted By: N. Ritter

Year Observed: 2020

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (50 species: Natives - 41; Introduced - 9): Alternatleaf Dogwood (*Cornus alternifolia*); American Basswood (*Tilia americana*); American Witchhazel (*Hamamelis virginiana*); Black Cherry (*Prunus serotina*); Black Cohosh (*Actaea racemosa*); Black Locust (*Robinia pseudoacacia*); Black Willow (*Salix nigra*); Blackeyed Susan (*Rudbeckia hirta*); Bluestem Goldenrod (*Solidago caesia*); Butterfly Milkweed (*Asclepias tuberosa*); Canada Goldenrod (*Solidago altissima*); **Canada Thistle** (*Cirsium arvense*); Cockspur Hawthorn (*Crataegus crus-galli*); Common Blue Wood Aster (*Symphyotrichum cordifolium*); Common Boneset (*Eupatorium perfoliatum*); **Common Dandelion** (*Taraxacum officinale*); Common Milkweed (*Asclepias syriaca*); **Common Yarrow** (*Achillea millefolium*); Cutleaf Coneflower (*Rudbeckia laciniata*); Cutleaf Toothwort (*Cardamine concatenata*); **Dames Rocket** (*Hesperis matronalis*); Dyer's Coreopsis (*Coreopsis tinctoria*); Flowering Dogwood (*Cornus florida*); Foxglove Beardtongue (*Penstemon digitalis*); **Fuller's Teasel** (*Dipsacus fullonum*); Golden Ragwort (*Packera aurea*); Great Blue Lobelia (*Lobelia siphilitica*); Indianhemp (*Apocynum cannabinum*); Joe Pye Weed (*Eutrochium purpureum*); **Lesser Burdock** (*Arctium minus*); **Musk Mallow** (*Malva moschata*); Narrowleaf Mountainmint (*Pycnanthemum tenuifolium*); New England Aster (*Symphyotrichum novae-angliae*); New Jersey Tea (*Ceanothus americanus*); New York Ironweed (*Vernonia noveboracensis*); **Nodding Plumeless Thistle** (*Carduus nutans*); Northern Spicebush (*Lindera benzoin*); Poke Milkweed (*Asclepias exaltata*); **Purple Loosestrife** (*Lythrum salicaria*); Purpleflowering Raspberry (*Rubus odoratus*); Silky Dogwood (*Cornus amomum*); Southern Arrowwood (*Viburnum dentatum*); Spotted Geranium (*Geranium maculatum*); Staghorn Sumac (*Rhus typhina*); Swamp Milkweed (*Asclepias incarnata*); Swamp Verbena (*Verbena hastata*); Violet Lespedeza (*Lespedeza violacea*); Virginia Bluebells (*Mertensia virginica*); Virginia Creeper (*Parthenocissus quinquefolia*); White Wood Aster (*Eurybia divaricata*)

### *Noctuoidea*<sup>UNK</sup> (Owlet Moths and Allies)

Identified and First Noted By: N. Ritter

Year Observed: 2021

## Gelechiidae (1 species)

### *Gelechiidae* Indet. #1

Identified and First Noted By: N. Ritter

Year Observed: 2021



## Geometridae (4 species)

### *Eupithecia miserulata*<sup>N</sup> (Common Eupithecia Moth)

Identified and First Noted By: N. Ritter

Year Observed: 2021

### *Geometridae* Indet. #1<sup>N</sup> (Geometer Moth)

Identified By: k8thegr8 (iNaturalist); First Noted By: N. Ritter

Year Observed: 2019

### *Melanolophia* Indet. #1 (Melanolophia Moth)

Identified and First Noted By: N. Ritter

Year Observed: 2020

### *Timandra amaturaria*<sup>N</sup> (Cross-lined Wave)

Identified and First Noted By: N. Ritter

Year Observed: 2020

## Gracillariidae (1 species)

### *Phyllocnistis liriodendronella*<sup>N</sup> (Tulip Tree Leaf Miner)

Identified and First Noted By: N. Ritter

Year Observed: 2020

## Hesperiidae (5 species)

### *Atalopedes campestris*<sup>N</sup> (Sachem)

**Identified By:** D. Bruce (iNaturalist); **First Noted By:** N. Ritter

**Year Observed:** 2020

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (12 species: Natives - 8; Introduced - 4): **Bull Thistle** (*Cirsium vulgare*); **Canada Thistle** (*Cirsium arvense*); Field Thistle (*Cirsium discolor*); Great Blue Lobelia (*Lobelia siphilitica*); Lateflowering Thoroughwort (*Eupatorium serotinum*); Nodding Beggartick (*Bidens cernua*); Pennsylvania Smartweed (*Polygonum pennsylvanicum*); Rabbit-tobacco (*Pseudognaphalium obtusifolium*); **Red Clover** (*Trifolium pratense*); Swamp Milkweed (*Asclepias incarnata*); Swamp Verbena (*Verbena hastata*); **White Clover** (*Trifolium repens*)

### *Epargyreus clarus*<sup>N</sup> (Silver-spotted Skipper)

**Identified and First Noted By:** N. Ritter

**Years Observed:** 2019; 2020; 2021

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (10 species: Natives - 5; Introduced - 5): American Basswood (*Tilia americana*); **Canada Thistle** (*Cirsium arvense*); Common Milkweed (*Asclepias syriaca*); Cutleaf Coneflower (*Rudbeckia laciniata*); **Fuller's Teasel** (*Dipsacus fullonum*); Indianhemp (*Apocynum cannabinum*); **Nodding Plumeless Thistle** (*Carduus nutans*); Poke Milkweed (*Asclepias exaltata*); **Purple Loosestrife** (*Lythrum salicaria*); **Red Clover** (*Trifolium pratense*)

### *Erynnis baptisiae*<sup>N</sup> (Wild Indigo Duskywing)

**Identified and First Noted By:** N. Ritter

**Years Observed:** 2020; 2021

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (1 species: introduced): **Red Clover** (*Trifolium pratense*)

### *Lon zabulon*<sup>N</sup> (Zabulon Skipper)

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2021

### *Polites themistocles*<sup>N</sup> (Tawny-edged Skipper)

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2019

**Conservation Status**

**IUCN:** Species has not been reviewed (Website checked:7/28/2020)

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (32 species: Natives - 19; Introduced - 13): American Speedwell (*Veronica americana*); Black Raspberry (*Rubus occidentalis*); Blackeyed Susan (*Rudbeckia hirta*); Blue Mistflower (*Conoclinium coelestinum*); Broadleaf Arrowhead (*Sagittaria latifolia*); **Bull Thistle** (*Cirsium vulgare*); **Butter And Eggs** (*Linaria vulgaris*); **Canada Thistle** (*Cirsium arvense*); **Common Dandelion** (*Taraxacum officinale*); Common Milkweed (*Asclepias syriaca*); Common Selfheal (*Prunella vulgaris*); Cutleaf Coneflower (*Rudbeckia laciniata*); **European Cranberrybush** (*Viburnum opulus*); Field Thistle (*Cirsium discolor*); Flat-top Goldentop (*Euthamia graminifolia*); **Garden Cornflower** (*Centaurea cyanus*); Great Blue Lobelia (*Lobelia siphilitica*); **Greater Burdock** (*Arctium lappa*); Joe Pye Weed (*Eutrochium purpureum*); Lateflowering Thoroughwort (*Eupatorium serotinum*); **Lesser Burdock** (*Arctium minus*); Narrowleaf Mountainmint (*Pycnanthemum tenuifolium*); Nodding Beggartick (*Bidens cernua*); **Nodding Plumeless Thistle** (*Carduus nutans*); Northern Dewberry (*Rubus flagellaris*); Pennsylvania Smartweed (*Polygonum pennsylvanicum*); Philadelphia Fleabane (*Erigeron philadelphicus*); **Red Clover** (*Trifolium pratense*); **Rocket Larkspur** (*Consolida ajacis*); Swamp Milkweed (*Asclepias incarnata*); **Sweetclover** (*Melilotus officinalis*); **White Clover** (*Trifolium repens*)

## Limacodidae (1 species)

### *Acharia stimulea*<sup>N</sup> (Saddleback Caterpillar Moth)

**Identified By:** N. Ritter; **First Noted By:** G. Hertel & K. McMillin

**Year Observed:** 2014

## Lycaenidae (2 species)

### *Celastrina neglecta*<sup>N</sup> (Summer Azure)

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2021

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (7 species: Natives - 4; Introduced - 3): American Black Elderberry (*Sambucus nigra* ssp. *canadensis*); Canadian Honewort (*Cryptotaenia canadensis*); **Red Clover** (*Trifolium pratense*); Smooth Sumac (*Rhus glabra*); Swamp Verbena (*Verbena hastata*); **Sweetclover** (*Melilotus officinalis*); **White Clover** (*Trifolium repens*)

### *Cupido comyntas*<sup>N</sup> (Eastern Tailed-Blue)

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2020

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (7 species: Natives - 3; Introduced - 4): **Alsike Clover** (*Trifolium hybridum*); **Black Medick** (*Medicago lupulina*); **Canada Thistle** (*Cirsium arvense*); Common Yellow Oxalis (*Oxalis stricta*); Philadelphia Fleabane (*Erigeron philadelphicus*);

Swamp Milkweed (*Asclepias incarnata*); **White Clover** (*Trifolium repens*)

## Noctuidae (4 species)

### *Acronicta americana*<sup>N</sup> (American Dagger Moth)

**Identified By:** N. Ritter; **First Noted By:** P. Vermeulen; **Also Noted By:** N. Ritter

**Years Observed:** 2019; 2020

#### Conservation Status

**IUCN:** Species has not been reviewed (Website checked:7/28/2020)

### *Eudryas unio*<sup>N</sup> (Pearly Wood-Nymph)

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2021

### *Lithophane* Indet. #1<sup>N</sup> (Dart Moth)

**Identified and First Noted By:** A. Rivellini

**Year Observed:** 2019

### *Phosphila miselioides*<sup>N</sup> (Spotted Phosphila Moth)

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2021

## Notodontidae (2 species)

### *Datana integerrima*<sup>N</sup> (Walnut Caterpillar Moth)

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2020

### *Schizura concinna*<sup>N</sup> (Red-humped Caterpillar)

**Identified By:** N. Ritter; **First Noted By:** G. Hertel

**Year Observed:** 2011

#### Conservation Status

**IUCN:** Species has not been reviewed (Website checked:2/10/2020)

## Nymphalidae (9 species)

### *Danaus plexippus*<sup>N</sup> (Monarch Butterfly)

**Identified and First Noted By:** G. Hertel; **Also Noted By:** N. Ritter

**Years Observed:** 2014; 2020; 2021

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (36 species: Natives - 27; Introduced - 9): Black Cherry (*Prunus serotina*); Black Locust (*Robinia pseudoacacia*); Blackeyed Susan (*Rudbeckia hirta*); Blue Mistflower (*Conoclinium coelestinum*); **Bull Thistle (*Cirsium vulgare*)**; Butterfly Milkweed (*Asclepias tuberosa*); Canada Goldenrod (*Solidago altissima*); Canada Goldenrod (*Solidago canadensis*); **Canada Thistle (*Cirsium arvense*)**; Cockspur Hawthorn (*Crataegus crus-galli*); Common Blue Violet (*Viola sororia*); Common Boneset (*Eupatorium perfoliatum*); **Common Dandelion (*Taraxacum officinale*)**; Common Milkweed (*Asclepias syriaca*); **Common Yarrow (*Achillea millefolium*)**; Cutleaf Coneflower (*Rudbeckia laciniata*); Field Thistle (*Cirsium discolor*); Flat-top Goldentop (*Euthamia graminifolia*); **Fuller's Teasel (*Dipsacus fullonum*)**; Gray Goldenrod (*Solidago nemoralis*); Great Blue Lobelia (*Lobelia siphilitica*); Jewelweed (*Impatiens capensis*); Joe Pye Weed (*Eutrochium purpureum*); New England Aster (*Symphyotrichum novae-angliae*); Nodding Beggartick (*Bidens cernua*); **Nodding Plumeless Thistle (*Carduus nutans*)**; Pennsylvania Smartweed (*Polygonum pennsylvanicum*); Poke Milkweed (*Asclepias exaltata*); **Red Clover (*Trifolium pratense*)**; Swamp Milkweed (*Asclepias incarnata*); Swamp Verbena (*Verbena hastata*); **Sweetclover (*Melilotus officinalis*)**; Virginia Bluebells (*Mertensia virginica*); **White Clover (*Trifolium repens*)**; Wild Cucumber (*Echinocystis lobata*); Yellow Giant Hyssop (*Agastache nepetoides*)

### *Junonia coenia*<sup>N</sup> (Common Buckeye)

**Identified and First Noted By:** N. Ritter

**Years Observed:** 2019; 2020

#### Conservation Status

**IUCN:** Redlist Global Status: Least Concern; Global Population: Unknown

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (14 species: Natives - 7; Introduced - 7): **Canada Thistle (*Cirsium arvense*)**; Carolina Geranium (*Geranium carolinianum*); Common Boneset (*Eupatorium perfoliatum*); **Common Dandelion (*Taraxacum officinale*)**; **Common Yarrow (*Achillea millefolium*)**; Giant Goldenrod (*Solidago gigantea*); Narrowleaf Mountainmint (*Pycnanthemum tenuifolium*); **Narrowleaf Plantain (*Plantago lanceolata*)**; Northern Bugleweed (*Lycopus uniflorus*); Pennsylvania Smartweed (*Polygonum pennsylvanicum*); **Purple Loosestrife (*Lythrum salicaria*)**; Swamp Milkweed (*Asclepias incarnata*); **Sweetclover (*Melilotus officinalis*)**; **White Clover (*Trifolium repens*)**

### *Lethe appalachia*<sup>N</sup> (Appalachian Brown)

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2020

### ***Limenitis arthemis*<sup>N</sup> (Red-spotted Admiral)**

**Identified and First Noted By:** G. Hertel; **Also Noted By:** N. Ritter; M. Valles

**Years Observed:** 2014; 2020; 2021

### ***Nymphalis antiopa*<sup>N</sup> (Mourning Cloak)**

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2021

#### **Conservation Status**

**IUCN:** Redlist Global Status: Least Concern; Global Population: Unknown

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (3 species: Natives - 2; Introduced - 1): American Basswood (*Tilia americana*); **Canada Thistle** (*Cirsium arvense*); Common Milkweed (*Asclepias syriaca*)

### ***Phyciodes tharos*<sup>N</sup> (Pearl Crescent)**

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2021

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (10 species: Natives - 6; Introduced - 4): Blackeyed Susan (*Rudbeckia hirta*); Canada Goldenrod (*Solidago altissima*); **Canada Thistle** (*Cirsium arvense*); **Common Dandelion** (*Taraxacum officinale*); Common Milkweed (*Asclepias syriaca*); Nodding Beggartick (*Bidens cernua*); Swamp Milkweed (*Asclepias incarnata*); Swamp Verbena (*Verbena hastata*); **Sweetclover** (*Melilotus officinalis*); **White Clover** (*Trifolium repens*)

### ***Polygonia comma*<sup>N</sup> (Eastern Comma)**

**Identified and First Noted By:** N. Ritter

**Years Observed:** 2011; 2020

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (7 species: Natives - 6; Introduced - 1): **Canada Thistle** (*Cirsium arvense*); Canadian Woodnettle (*Laportea canadensis*); Common Milkweed (*Asclepias syriaca*); Early Goldenrod (*Solidago juncea*); Field Pussytoes (*Antennaria neglecta*); Joe Pye Weed (*Eutrochium purpureum*); Sugar Maple (*Acer saccharum*)

### ***Vanessa atalanta*<sup>N</sup> (Red Admiral)**

**Identified and First Noted By:** G. Hertel

**Year Observed:** 2012

#### **Conservation Status**

**IUCN:** Species has not been reviewed (Website checked:7/28/2020)

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (34 species: Natives - 25; Introduced - 9): Allegheny Blackberry (*Rubus allegheniensis*); American Basswood (*Tilia americana*); **Autumn Olive** (*Elaeagnus umbellata*); Blackeyed Susan (*Rudbeckia hirta*); Bulbous Bittercress (*Cardamine bulbosa*); **Bull Thistle** (*Cirsium vulgare*); Canada Goldenrod (*Solidago altissima*); **Canada Thistle** (*Cirsium arvense*); Common Boneset (*Eupatorium perfoliatum*); Common Milkweed (*Asclepias syriaca*); **Crownvetch** (*Securigera varia*); Cutleaf Coneflower (*Rudbeckia laciniata*); **Dames Rocket** (*Hesperis matronalis*); Dutchman's Breeches (*Dicentra cucullaria*); Early Goldenrod (*Solidago juncea*); Eastern Redbud (*Cercis canadensis*); Field Pussytoes (*Antennaria neglecta*); Field Thistle (*Cirsium discolor*); Flat-top Goldentop (*Euthamia graminifolia*); **Garden Yellowrocket** (*Barbarea vulgaris*); Indianhemp (*Apocynum cannabinum*); Joe Pye Weed (*Eutrochium purpureum*); Narrowleaf Mountainmint (*Pycnanthemum tenuifolium*); New England Aster (*Symphotrichum novae-angliae*); Nodding Beggartick (*Bidens cernua*); **Nodding Plumeless Thistle** (*Carduus nutans*); Pennsylvania Smartweed (*Polygonum pennsylvanicum*); **Red Clover** (*Trifolium pratense*); Smooth Sumac (*Rhus glabra*); Sugar Maple (*Acer saccharum*); Swamp Milkweed (*Asclepias incarnata*); **Sweetclover** (*Melilotus officinalis*); Virginia Bluebells (*Mertensia virginica*); Virginia Springbeauty (*Claytonia virginica*)

### ***Vanessa virginiensis*<sup>N</sup> (American Painted Lady)**

**Identified and First Noted By:** N. Ritter

**Years Observed:** 2019; 2021

#### **Conservation Status**

**IUCN:** Redlist Global Status: Least Concern; Global Population: Unknown

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (30 species: Natives - 20; Introduced - 10): Black Cherry (*Prunus serotina*); Black Willow (*Salix nigra*); Blackeyed Susan (*Rudbeckia hirta*); Blackhaw (*Viburnum prunifolium*); **Canada Thistle** (*Cirsium arvense*); Common Boneset (*Eupatorium perfoliatum*); **Common Chickweed** (*Stellaria media*); **Common Dandelion** (*Taraxacum officinale*); Common Milkweed (*Asclepias syriaca*); Culver's Root (*Veronicastrum virginicum*); Cutleaf Coneflower (*Rudbeckia laciniata*); Early Goldenrod (*Solidago juncea*); Eastern Redbud (*Cercis canadensis*); **Field Pepperweed** (*Lepidium campestre*); Field Pussytoes (*Antennaria neglecta*); Flat-top Goldentop (*Euthamia graminifolia*); **Fuller's Teasel** (*Dipsacus fullonum*); Great Blue Lobelia (*Lobelia siphilitica*); Joe Pye Weed (*Eutrochium purpureum*); **Lesser Burdock** (*Arctium minus*); Marsh Blue Violet (*Viola cucullata*); Narrowleaf Mountainmint (*Pycnanthemum tenuifolium*); New England Aster (*Symphotrichum novae-angliae*); Nodding Beggartick (*Bidens cernua*); **Nodding Plumeless Thistle** (*Carduus nutans*); **Red Clover** (*Trifolium pratense*); Sassafras (*Sassafras albidum*); **Sweetclover** (*Melilotus officinalis*); **White Clover** (*Trifolium repens*); Woman's Tobacco (*Antennaria plantaginifolia*)

## Papilionidae (2 species)

### *Papilio glaucus*<sup>N</sup> (Eastern Tiger Swallowtail)

**Identified and First Noted By:** G. Hertel; **Also Noted By:** N. Ritter

**Years Observed:** 2012; 2020; 2021

#### Conservation Status

**IUCN:** Species has not been reviewed (Website checked:2/10/2020)

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (22 species: Natives - 12; Introduced - 10): Allegheny Blackberry (*Rubus allegheniensis*); American Basswood (*Tilia americana*); Blackeyed Susan (*Rudbeckia hirta*); **Bull Thistle** (*Cirsium vulgare*); Butterfly Milkweed (*Asclepias tuberosa*); **Canada Thistle** (*Cirsium arvense*); **Common Dandelion** (*Taraxacum officinale*); Common Milkweed (*Asclepias syriaca*); Cutleaf Coneflower (*Rudbeckia laciniata*); **Dames Rocket** (*Hesperis matronalis*); Dutchman's Breeches (*Dicentra cucullaria*); Field Thistle (*Cirsium discolor*); **Fuller's Teasel** (*Dipsacus fullonum*); Joe Pye Weed (*Eutrochium purpureum*); **Lesser Burdock** (*Arctium minus*); Narrowleaf Mountainmint (*Pycnanthemum tenuifolium*); **Nodding Plumeless Thistle** (*Carduus nutans*); **Rocket Larkspur** (*Consolida ajacis*); Swamp Milkweed (*Asclepias incarnata*); Swamp Verbena (*Verbena hastata*); **Sweetclover** (*Melilotus officinalis*); **White Clover** (*Trifolium repens*)

### *Papilio troilus*<sup>N</sup> (Spicebush Swallowtail)

**Identified and First Noted By:** G. Hertel; **Also Noted By:** M. Beatty

**Years Observed:** 2012; 2013; 2019; 2021

#### Conservation Status

**IUCN:** Species has not been reviewed (Website checked:2/10/2020)

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (8 species: Natives - 5; Introduced - 3): **Bull Thistle** (*Cirsium vulgare*); Butterfly Milkweed (*Asclepias tuberosa*); **Common Dandelion** (*Taraxacum officinale*); Foxglove Beardtongue (*Penstemon digitalis*); Jewelweed (*Impatiens capensis*); **Lesser Burdock** (*Arctium minus*); Swamp Milkweed (*Asclepias incarnata*); Virginia Bluebells (*Mertensia virginica*)



## Pieridae (3 species)

### *Colias eurytheme*<sup>N</sup> (Orange Sulfur)

Identified and First Noted By: N. Ritter

Year Observed: 2021

#### Conservation Status

IUCN: Redlist Global Status: Least Concern; Global Population: Increasing

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (24 species: Natives - 12; Introduced - 12): *Alsike Clover (Trifolium hybridum)*; Blackeyed Susan (*Rudbeckia hirta*); *Bull Thistle (Cirsium vulgare)*; *Butter And Eggs (Linaria vulgaris)*; Butterfly Milkweed (*Asclepias tuberosa*); Canada Goldenrod (*Solidago altissima*); *Canada Thistle (Cirsium arvense)*; *Common Dandelion (Taraxacum officinale)*; Common Milkweed (*Asclepias syriaca*); *Common Yarrow (Achillea millefolium)*; *Crownvetch (Securigera varia)*; Devil's Beggartick (*Bidens frondosa*); Field Thistle (*Cirsium discolor*); Great Blue Lobelia (*Lobelia siphilitica*); Indianhemp (*Apocynum cannabinum*); New England Aster (*Symphotrichum novae-angliae*); Nodding Beggartick (*Bidens cernua*); *Nodding Plumeless Thistle (Carduus nutans)*; *Red Clover (Trifolium pratense)*; *Spearmint (Mentha spicata)*; Swamp Milkweed (*Asclepias incarnata*); Swamp Verbena (*Verbena hastata*); *Sweetclover (Melilotus officinalis)*; *White Clover (Trifolium repens)*

### *Colias philodice*<sup>N</sup> (Clouded Sulphur)

Identified and First Noted By: N. Ritter

Year Observed: 2020

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (53 species: Natives - 37; Introduced - 16): Allegheny Blackberry (*Rubus allegheniensis*); American Water Horehound (*Lycopus americanus*); Black Willow (*Salix nigra*); Blackeyed Susan (*Rudbeckia hirta*); Blue Mistflower (*Conoclinium coelestinum*); Broadleaf Arrowhead (*Sagittaria latifolia*); Bulbous Bittercress (*Cardamine bulbosa*); *Bull Thistle (Cirsium vulgare)*; *Butter And Eggs (Linaria vulgaris)*; Butterfly Milkweed (*Asclepias tuberosa*); Canada Germander (*Teucrium canadense*); Canada Goldenrod (*Solidago altissima*); Canada Goldenrod (*Solidago canadensis*); *Canada Thistle (Cirsium arvense)*; *Chicory (Cichorium intybus)*; Common Boneset (*Eupatorium perfoliatum*); *Common Dandelion (Taraxacum officinale)*; Common Milkweed (*Asclepias syriaca*); Common Selfheal (*Prunella vulgaris*); Field Thistle (*Cirsium discolor*); Flat-top Goldentop (*Euthamia graminifolia*); *Flower Of An Hour (Hibiscus trionum)*; Foxglove Beardtongue (*Penstemon digitalis*); *Garden Yellowrocket (Barbarea vulgaris)*; Gray Goldenrod (*Solidago nemoralis*); *Greater Burdock (Arctium lappa)*; *Ground Ivy (Glechoma hederacea)*; Joe Pye Weed (*Eutrochium purpureum*); Lateflowering Thoroughwort (*Eupatorium serotinum*); *Lesser Burdock (Arctium minus)*; Longstyle Sweetroot (*Osmorhiza longistylis*); Marsh Blue Violet (*Viola cucullata*); Narrowleaf Mountainmint (*Pycnanthemum tenuifolium*); New England Aster (*Symphotrichum novae-angliae*); Nodding Beggartick (*Bidens cernua*); Nodding Chickweed (*Cerastium nutans*); *Nodding Plumeless Thistle (Carduus nutans)*; Northern Dewberry (*Rubus flagellaris*); Pennsylvania Smartweed (*Polygonum pennsylvanicum*); Prickly Fanpetals (*Sida spinosa*); *Purple Loosestrife (Lythrum salicaria)*; *Red Clover (Trifolium pratense)*; Spotted Geranium (*Geranium maculatum*); Spotted Water Hemlock (*Cicuta maculata*); *Stinking Chamomile (Anthemis cotula)*; Swamp Milkweed (*Asclepias*

*incarnata*); Swamp Verbena (*Verbena hastata*); **Sweetclover (*Melilotus officinalis*)**; Violet Woodsorrel (*Oxalis violacea*); Virginia Springbeauty (*Claytonia virginica*); Virginia Strawberry (*Fragaria virginiana*); **White Clover (*Trifolium repens*)**; Woman's Tobacco (*Antennaria plantaginifolia*)

### **Pieris rapae<sup>1</sup> (Cabbage White)**

**Identified and First Noted By:** N. Ritter; **Also Noted By:** N. Long

**Years Observed:** 2020; 2021

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (63 species: Natives - 33; Introduced - 30): **Bird's-foot Trefoil (*Lotus corniculatus*)**; Blackeyed Susan (*Rudbeckia hirta*); Bloodroot (*Sanguinaria canadensis*); Bulbous Bittercress (*Cardamine bulbosa*); **Bull Thistle (*Cirsium vulgare*)**; **Butter And Eggs (*Linaria vulgaris*)**; **Butter-print (*Abutilon theophrasti*)**; Canada Germander (*Teucrium canadense*); Canada Goldenrod (*Solidago altissima*); **Canada Thistle (*Cirsium arvense*)**; Canadian Horseweed (*Conyza canadensis*); Clasping Venus' Looking-glass (*Triodanis perfoliata*); **Climbing Nightshade (*Solanum dulcamara*)**; Common Boneset (*Eupatorium perfoliatum*); **Common Chickweed (*Stellaria media*)**; **Common Dandelion (*Taraxacum officinale*)**; Common Milkweed (*Asclepias syriaca*); Common Selfheal (*Prunella vulgaris*); Common Yellow Oxalis (*Oxalis stricta*); **Crownvetch (*Securigera varia*)**; Culver's Root (*Veronicastrum virginicum*); **Dames Rocket (*Hesperis matronalis*)**; Devil's Beggartick (*Bidens frondosa*); Dutchman's Breeches (*Dicentra cucullaria*); **Field Pennycress (*Thlaspi arvense*)**; **Field Pepperweed (*Lepidium campestre*)**; Flat-top Goldentop (*Euthamia graminifolia*); **Flower Of An Hour (*Hibiscus trionum*)**; **Fuller's Teasel (*Dipsacus fullonum*)**; **Garden Yellowrocket (*Barbarea vulgaris*)**; **Greater Burdock (*Arctium lappa*)**; **Ground Ivy (*Glechoma hederacea*)**; Indianhemp (*Apocynum cannabinum*); Joe Pye Weed (*Eutrochium purpureum*); Lateflowering Thoroughwort (*Eupatorium serotinum*); **Lesser Burdock (*Arctium minus*)**; Marsh Blue Violet (*Viola cucullata*); **Musk Mallow (*Malva moschata*)**; Narrowleaf Mountainmint (*Pycnanthemum tenuifolium*); **Narrowleaf Plantain (*Plantago lanceolata*)**; New England Aster (*Symphyotrichum novae-angliae*); Nodding Beggartick (*Bidens cernua*); **Nodding Plumeless Thistle (*Carduus nutans*)**; Norwegian Cinquefoil (*Potentilla norvegica*); **Oxeye Daisy (*Leucanthemum vulgare*)**; Pennsylvania Smartweed (*Polygonum pennsylvanicum*); Prickly Fanpetals (*Sida spinosa*); **Prickly Lettuce (*Lactuca serriola*)**; **Purple Loosestrife (*Lythrum salicaria*)**; **Red Clover (*Trifolium pratense*)**; **Rocket Larkspur (*Consolida ajacis*)**; Spanish Needles (*Bidens bipinnata*); **Stinking Chamomile (*Anthemis cotula*)**; **Sulphur Cinquefoil (*Potentilla recta*)**; Swamp Milkweed (*Asclepias incarnata*); Swamp Verbena (*Verbena hastata*); Virginia Springbeauty (*Claytonia virginica*); Virginia Strawberry (*Fragaria virginiana*); **Watercress (*Nasturtium officinale*)**; **White Clover (*Trifolium repens*)**; White Vervain (*Verbena urticifolia*); Wild Mint (*Mentha arvensis*); Yellow Giant Hyssop (*Agastache nepetoides*)

### **Saturniidae (3 species)**

#### ***Antheraea polyphemus*<sup>N</sup> (Polyphemus Moth)**

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2019

#### **Conservation Status**

**IUCN:** Redlist Global Status: Least Concern; Global Population: Unknown

***Callosamia promethea*<sup>N</sup> (Promethea Silkmoth)**

**Identified By:** G. Hertel; **First Noted By:** K. McMillin

**Year Observed:** 2012

**Conservation Status**

**IUCN:** Species has not been reviewed (Website checked:2/10/2020)

***Citheronia regalis*<sup>N</sup> (Regal Moth)**

**Identified and First Noted By:** G. Hertel

**Year Observed:** 2014

**Conservation Status**

**IUCN:** Species has not been reviewed (Website checked:2/10/2020)

**PA Natural Heritage List:** Conservation status: SU (Status Unknown)

**Sphingidae (3 species)**

***Eumorpha pandorus*<sup>N</sup> (Pandora Sphinx Moth)**

**Identified and First Noted By:** M. Beatty

**Year Observed:** 2018

**Conservation Status**

**IUCN:** Species has not been reviewed (Website checked:2/10/2020)

***Hyles lineata*<sup>N</sup> (White-lined Sphinx)**

**Identified By:** N. Ritter; **First Noted By:** M. Valles

**Year Observed:** 2020

***Paonias excaecata* Indet. #1<sup>N</sup> (Blinded Sphinx)**

**Identified By:** A. Liang (iNaturalist); **First Noted By:** M. Dowd

**Year Observed:** 2021

## Tortricidae (1 species)

### *Choristoneura fractivittana*<sup>N</sup> (Broken-banded Leafroller Moth)

Identified and First Noted By: N. Ritter

Year Observed: 2021

## Zygaenidae (1 species)

### *Pyromorpha dimidiata*<sup>N</sup> (Orange-patched Smoky Moth)

Identified and First Noted By: N. Ritter

Year Observed: 2021

## Order Mantodea: Mantises

### Mantidae (1 species)

#### *Tenodera sinensis*<sup>1</sup> (Chinese Mantid)

Identified By: N. Ritter; First Noted By: G. Hertel; Also Noted By: K. McMillin; N. Ritter; A. Rivellini; M. Dowd

Years Observed: 2012; 2015; 2016; 2017; 2019; 2020; 2021

#### Conservation Status

IUCN: Species has not been reviewed (Website checked:2/10/2020)

## Order Megaloptera: Alderflies, Dobsonflies, and Fishflies

### Sialidae (1 species)

#### *Sialis* Indet. #1<sup>N</sup>

Identified and First Noted By: D. DiFederico

Year Observed: 2007

## Order Neuroptera: Antlions, Lacewings, and Allies

## Chrysopidae (1 species)

### *Leucochrysa pavida*<sup>N</sup> (Lichen-carrying Green Lacewing)

Identified By: J. Hoskins (iNaturalist); First Noted By: W. Ricci; Also Noted By: A. Rivellini

Years Observed: 2013; 2019

## Order Odonata: Dragonflies and Damselflies

## Calopterygidae (1 species)

### *Calopteryx maculata*<sup>N</sup> (Ebony Jewelwing)

Identified and First Noted By: N. Ritter; Also Noted By: M. Beatty; P. Vermeulen; A. Rivellini; N. Long

Years Observed: 2018; 2020; 2021

#### Conservation Status

IUCN: Redlist Global Status: Least Concern; Global Population: Stable

## Gomphidae (1 species)

### *Gomphidae* Indet. #1<sup>N</sup>

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

## Libellulidae (2 species)

### *Libellula luctuosa*<sup>N</sup> (Widow Skimmer)

Identified and First Noted By: G. Hertel; Also Noted By: N. Ritter; N. Long

Years Observed: 2009; 2012; 2021

#### Conservation Status

IUCN: Redlist Global Status: Least Concern; Global Population: Stable

### *Plathemis lydia*<sup>N</sup> (Common Whitetail)

Identified and First Noted By: N. Ritter

**Year Observed:** 2021

**Conservation Status**

**IUCN:** Redlist Global Status: Least Concern; Global Population: Stable

**Order Orthoptera: Grasshoppers, Crickets, and Katydid**

**Acrididae (1 species)**

***Dissosteira carolina*<sup>N</sup> (Carolina Grasshopper)**

**Identified By:** N. Ritter; **First Noted By:** N. Long

**Year Observed:** 2021

**Rhaphidophoridae (1 species)**

***Tachycines asynamorus*<sup>N</sup> (Camel Cricket)**

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2019

**Tettigoniidae (2 species)**

***Conocephalus brevipennis*<sup>N</sup> (Short-winged Meadow Katydid)**

**Identified By:** B. Woo (iNaturalist); **First Noted By:** N. Ritter

**Years Observed:** 2020; 2021

***Conocephalus strictus*<sup>N</sup> (Straight-lanced Meadow Katydid)**

**Identified By:** N. Ritter; **First Noted By:** N. Long; **Also Noted By:** N. Ritter

**Year Observed:** 2021

**Order Plecoptera: Stoneflies**

## Family Unknown

### *Capniidae/Leuctridae* (Stonefly)

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

### *Perlidae/Perlodidae* (Stonefly)

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

### *Plecoptera* Indet. #1<sup>N</sup> (Stonefly)

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

## Nemouridae (4 species)

### *Amphinemura* Indet. #1<sup>N</sup>

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

### *Amphinemura delosa*<sup>N</sup> (Eastern Forestfly)

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

#### Conservation Status

IUCN: Species has not been reviewed (Website checked:2/10/2020)

### *Nemouridae* Indet. #1<sup>N</sup>

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

### *Prostoia* Indet. #1<sup>N</sup>

Identified and First Noted By: D. DiFederico

Year Observed: 2007

## Perlidae (2 species)

### *Eccoptura* Indet. #1<sup>N</sup>

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

### *Eccoptura xanthenes*<sup>N</sup> (No Common Name)

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

#### Conservation Status

IUCN: Species has not been reviewed (Website checked:2/10/2020)

## Order Psocodea: Barklice, Booklice, and Parasitic Lice

### Amphipsocidae (1 species)

#### *Polypsocus corruptus*<sup>N</sup> (Corrupt Barklouse)

Identified By: N. Ritter; First Noted By: K. Krueger

Year Observed: 2021

## Order Thysanoptera: Thrips

### Phlaeothripidae (1 species)

#### *Phlaeothripidae* Indet. #1<sup>N</sup> (Tube-tailed Thrip)

Identified By: M. Pirrello (iNaturalist); First Noted By: A. Rivellini; Also Noted By: N. Ritter

Year Observed: 2019

## Order Trichoptera: Caddisflies



## Family Unknown

### *Trichoptera* Indet. #1<sup>N</sup> (Caddisfly)

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

## Glossosomatidae (1 species)

### *Glossosomatidae* Indet. #1<sup>N</sup>

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

## Hydropsychidae (8 species)

### *Cheumatopsyche* Indet. #1<sup>N</sup> (Net-spinning Caddisfly)

Identified and First Noted By: D. DiFederico; **Also Noted By:** Stroud Water Research Center - 2017

Years Observed: 2007; 2017

### *Diplectronea* Indet. #1<sup>N</sup> (Net-spinning Caddisfly)

Identified and First Noted By: D. DiFederico

Year Observed: 2007

### *Diplectronea modesta*<sup>N</sup> (No Common Name)

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

#### Conservation Status

IUCN: Species has not been reviewed (Website checked:2/10/2020)

### *Hydropsyche* Indet. #1<sup>N</sup> (Net-spinning Caddisfly)

Identified and First Noted By: D. DiFederico; **Also Noted By:** Stroud Water Research Center - 2017

Years Observed: 2007; 2017

***Hydropsyche betteni*<sup>N</sup> (No Common Name)**

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

**Conservation Status**

**IUCN:** Species has not been reviewed (Website checked:2/10/2020)

***Hydropsyche slossonae*<sup>N</sup> (No Common Name)**

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

**Conservation Status**

**IUCN:** Species has not been reviewed (Website checked:2/10/2020)

***Hydropsyche sparna*<sup>N</sup> (No Common Name)**

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

**Conservation Status**

**IUCN:** Species has not been reviewed (Website checked:2/10/2020)

***Hydropsychidae* Indet. #1<sup>N</sup>**

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

**Hydroptilidae (1 species)**

***Hydroptilidae* Indet. #1<sup>N</sup> (Microcaddisfly)**

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2020

## Limnephilidae (1 species)

### *Pycnopsyche* Indet. #1<sup>N</sup>

Identified and First Noted By: D. DiFederico

Year Observed: 2007

## Philopotamidae (4 species)

### *Chimarra* Indet. #1<sup>N</sup> (Little Black Caddisfly)

Identified and First Noted By: D. DiFederico; **Also Noted By:** Stroud Water Research Center - 2017

Years Observed: 2007; 2017

### *Chimarra aterrima*<sup>N</sup> (No Common Name)

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

#### Conservation Status

IUCN: Species has not been reviewed (Website checked:2/10/2020)

### *Dolophilodes* Indet. #1<sup>N</sup>

Identified and First Noted By: D. DiFederico

Year Observed: 2007

### *Philopotamidae* Indet. #1<sup>N</sup>

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

## Rhyacophilidae (1 species)

### *Rhyacophila* Indet. #1<sup>N</sup> (Free-living Caddisfly)

Identified and First Noted By: D. DiFederico

Year Observed: 2007

## Uenoidae (2 species)

### *Neophylax* Indet. #1<sup>N</sup>

Identified and First Noted By: D. DiFederico

Year Observed: 2007

### *Neophylax oligius*<sup>N</sup> (No Common Name)

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

#### Conservation Status

IUCN: Species has not been reviewed (Website checked:2/10/2020)

## Class Unknown

## Order Unknown

## Family Unknown

### *Nematoda* Indet. #1<sup>UNK</sup> (Nematode)

Identified and First Noted By: N. Ritter

Year Observed: 2020

## Springtails

### Class Entognatha

#### Order Poduomorpha

##### Hypogastruridae (1 species)

###### *Hypogastruridae* Indet. #1 (Hypogastrurid Springtail)

Identified By: J. Radwański (iNaturalist); First Noted By: N. Ritter

Year Observed: 2018

### Class Entognatha (Entognathans)

#### Order Entomobryomorpha: Elongate-bodied Springtails

##### Entomobryidae (2 species)

###### *Homidia sauteri*<sup>N</sup> (Slender Springtail)

Identified By: J. Shorma (iNaturalist); First Noted By: N. Ritter

Year Observed: 2020

###### *Lepidocyrtus* Indet. #1 (Springtail)

Identified By: J. Radwański (iNaturalist); First Noted By: N. Ritter

Year Observed: 2020

##### Tomoceridae (2 species)

###### *Tomoceridae* Indet. #1<sup>N</sup> (Elongate-bodied Springtails)

Identified and First Noted By: N. Ritter

Year Observed: 2020

###### *Tomocerinae* Indet. #1<sup>N</sup> (Springtail)

**Identified By:** binbongo (iNaturalist); **First Noted By:** P. Vermeulen

**Year Observed:** 2020

## Order Symphypleona: Globular Springtails

### Dicyrtomidae (1 species)

#### *Dicyrtomina ornata* (No Common Name)

**Identified By:** N. Ritter; **First Noted By:** K. Krueger

**Year Observed:** 2021

### Katiannidae (1 species)

#### *Sminthurinus quadrimaculatus*<sup>N</sup> (Globular Springtail)

**Identified By:** chuuiuung (iNaturalist); **First Noted By:** N. Ritter

**Years Observed:** 2019; 2020

## Arthropods

### Class Arachnida (Arachnids)

#### Order Araneae: Spiders

##### Agelenidae (2 species)

###### *Agelenidae* Indet. #1<sup>N</sup> (Funnel Weaver)

Identified By: chuuiuung (iNaturalist); First Noted By: P. Vermeulen

Year Observed: 2018

###### *Coras* Indet. #1 (Funnel Web Spider)

Identified By: chuuiuung (iNaturalist); First Noted By: N. Ritter

Year Observed: 2021

##### Anyphaenidae (3 species)

###### *Anyphaenidae* Indet. #1<sup>N</sup> (Ghost Spider)

Identified and First Noted By: K. Johnson

Year Observed: 2020

###### *Hibana* Indet. #1 (Hibana Ghost Spider)

Identified and First Noted By: N. Ritter

Year Observed: 2020

###### *Hibana gracilis*<sup>N</sup> (Garden Ghost Spider)

Identified and First Noted By: N. Ritter; Also Noted By: K. Krueger

Year Observed: 2021

## Araneidae (7 species)

### *Araneus diadematus*<sup>N</sup> (Cross Orbweaver)

**Identified By:** P. Vermeulen; **First Noted By:** N. Ritter

**Year Observed:** 2018

#### Conservation Status

**IUCN:** Species has not been reviewed (Website checked:7/28/2020)

### *Araneus marmoreus*<sup>N</sup> (Marbled Orbweaver)

**Identified and First Noted By:** P. Vermeulen; **Also Noted By:** S. Bernasconi; N. Ritter

**Years Observed:** 2018; 2020

#### Conservation Status

**IUCN:** Species has not been reviewed (Website checked:2/10/2020)

### *Mangora* Indet. #1<sup>N</sup> (Orbweaver)

**Identified By:** J. Williams (iNaturalist); **First Noted By:** P. Vermeulen

**Year Observed:** 2018

### *Mangora gibberosa*<sup>N</sup> (Lined Orbweaver)

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2021

### *Mecynogea lemniscata*<sup>N</sup> (Basilica Orbweaver)

**Identified By:** N. Ritter; **First Noted By:** P. Vermeulen

**Year Observed:** 2020

### *Micrathena gracilis*<sup>N</sup> (Spined Micrathena)

**Identified and First Noted By:** P. Vermeulen; **Also Noted By:** N. Ritter; N. Long; M. Dowd

**Years Observed:** 2018; 2020; 2021

#### Conservation Status

**IUCN:** Species has not been reviewed (Website checked:2/10/2020)



***Neoscona crucifera*<sup>N</sup> (Hentz Orbweaver)**

Identified and First Noted By: P. Vermeulen

Year Observed: 2018

**Conservation Status**

IUCN: Species has not been reviewed (Website checked:2/10/2020)

**Dysderidae (1 species)**

***Dysdera crocata*<sup>1</sup> (Woodlouse Spider)**

Identified and First Noted By: N. Ritter

Year Observed: 2020

**Family Unknown**

***Araneoidea* Indet. #1 (Araneoid Spider)**

Identified and First Noted By: N. Ritter

Year Observed: 2020

**Linyphiidae (1 species)**

***Frontinella pyramitela*<sup>N</sup> (Bowl-and-doily Spider)**

Identified and First Noted By: N. Ritter

Year Observed: 2020

**Lycosidae (3 species)**

***Pardosa* Indet. #1 (Thin-legged Wolf Spiders)**

Identified and First Noted By: N. Ritter; Also Noted By: N. Long

Year Observed: 2021

***Schizocosa* Indet. #1 (Brush Legged Spider)**

Identified By: chuuiuung (iNaturalist); First Noted By: N. Ritter

Year Observed: 2020

***Tigrosa helluo*<sup>N</sup> (Wetland Giant Wolf Spider)**

Identified and First Noted By: N. Ritter

Year Observed: 2020

**Pisauridae (3 species)**

***Dolomedes albineus*<sup>N</sup> (White-banded Fishing Spider)**

Identified and First Noted By: N. Ritter

Year Observed: 2020

**Conservation Status**

IUCN: Species has not been reviewed (Website checked:7/28/2020)

***Dolomedes tenebrosus*<sup>N</sup> (Dark Fishing Spider)**

Identified By: chuuuung (iNaturalist); First Noted By: P. Vermeulen; Also Noted By: N. Ritter; N. Long; M. Dowd

Years Observed: 2018; 2020; 2021

***Pisaurina mira*<sup>N</sup> (American Nursery Web Spider)**

Identified By: N. Ritter; First Noted By: P. Vermeulen

Year Observed: 2018

**Salticidae (2 species)**

***Eris militaris*<sup>N</sup> (Bronze Jumping Spider)**

Identified and First Noted By: N. Ritter

Years Observed: 2020; 2021

***Phidippus audax*<sup>N</sup> (Bold Jumping Spider)**

Identified and First Noted By: N. Ritter

Year Observed: 2021

## Tetragnathidae (1 species)

### *Leucauge venusta*<sup>N</sup> (Orchard Orbweaver)

Identified and First Noted By: P. Vermeulen; Also Noted By: N. Ritter; N. Long

Years Observed: 2018; 2020; 2021

#### Conservation Status

IUCN: Species has not been reviewed (Website checked:2/10/2020)

## Theridiidae (2 species)

### *Enoplognatha ovata*<sup>1</sup> (Common Candy-striped Spider)

Identified and First Noted By: N. Ritter

Year Observed: 2020

### *Steatoda borealis*<sup>N</sup> (Boreal Combfoot)

Identified and First Noted By: N. Ritter

Year Observed: 2020

## Thomisidae (1 species)

### *Thomisidae* Indet. #1 (Crab Spider)

Identified and First Noted By: N. Ritter

Year Observed: 2019

## Order Endeostigmata: Endeostigmatan Mites

## Eriophyidae (3 species)

### *Acalitus ferrugineum*<sup>N</sup> (Mite)

Identified and First Noted By: N. Ritter; Also Noted By: N. Long

Year Observed: 2021

### *Aceria fraxini*<sup>N</sup> (Ash Bead Gall Mite)

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2021

***Aceria negundi*<sup>N</sup> (Box Elder Pouch Gall Mite)**

**Identified and First Noted By:** N. Ritter

**Years Observed:** 2020; 2021

**Order Ixodida: Ticks**

**Ixodidae (2 species)**

***Dermacentor variabilis*<sup>N</sup> (American Dog Tick)**

**Identified and First Noted By:** N. Ritter; **Also Noted By:** M. Beatty; P. Vermeulen; A. Rivellini; B. Flamm

**Years Observed:** 2014; 2016; 2017; 2018; 2019; 2020

**Conservation Status**

**IUCN:** Species has not been reviewed (Website checked:2/10/2020)

***Ixodes scapularis*<sup>N</sup> (Deer Tick)**

**Identified and First Noted By:** N. Ritter; **Also Noted By:** P. Phillips

**Years Observed:** 2016; 2017; 2018; 2019; 2020; 2021

**Conservation Status**

**IUCN:** Species has not been reviewed (Website checked:2/10/2020)

**Order Opiliones: Harvestmen**

**Sclerosomatidae (2 species)**

***Leiobunum politum* Group<sup>N</sup> (Harvestman)**

**Identified By:** harvestman-man (iNaturalist); **First Noted By:** N. Ritter

**Year Observed:** 2020

***Leiobunum vittatum* Group<sup>N</sup> (Eastern Harvestman)**

**Identified and First Noted By:** N. Ritter; **Also Noted By:** dsnaturalist21 (iNaturalist)

**Years Observed:** 2018; 2020; 2021

**Conservation Status**

**IUCN:** Species has not been reviewed (Website checked:2/10/2020)

**Order Trombidiformes: Trombidiform Mites**

**Erythraeidae (1 species)**

***Callidosoma* Indet. #1 (Long-legged Mite)**

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2020

**Trombidiidae (2 species)**

***Allothrombiinae* Indet. #1**

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2019

***Trombidium* Indet. #1<sup>N</sup> (Red Velvet Mite)**

**Identified and First Noted By:** N. Ritter; **Also Noted By:** P. Vermeulen

**Years Observed:** 2018; 2019; 2020; 2021

**Order Unknown**

**Family Unknown**

***Acari* Indet. #1<sup>N</sup> (Mite)**

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

**Class Chilopoda (Centipedes)**

**Order Geophilomorpha: Soil Centipedes**

## Family Unknown

### *Geophilomorpha* Indet. #1<sup>N</sup> (Soil Centipede)

Identified By: H. Hernandez (iNaturalist); First Noted By: M. Valles

Year Observed: 2020

## Geophilidae (1 species)

### *Strigamia bothriopus*<sup>N</sup> (Soil Centipede)

Identified By: N. Ritter; First Noted By: C. Kraynak; Also Noted By: N. Ritter

Years Observed: 2019; 2020

#### Conservation Status

IUCN: Species has not been reviewed (Website checked:7/28/2020)

## Order Lithobiomorpha: Stone Centipedes

### Lithobiidae (2 species)

#### *Lithobiidae* Indet. #1<sup>N</sup> (Stone Centipedes)

Identified and First Noted By: N. Ritter

Year Observed: 2020

#### *Lithobius forficatus*<sup>1</sup> (Brown Centipede)

Identified and First Noted By: N. Ritter

Year Observed: 2021

## Order Scolopendromorpha: Tropical Centipedes

### Cryptopidae (1 species)

#### *Cryptops leucopodus* Indet. #1<sup>N</sup> (Bark Centipede)

Identified By: H. Hernandez (iNaturalist); First Noted By: N. Ritter

Year Observed: 2020

## Scolopocryptopidae (1 species)

### *Scolopocryptops sexspinosus*<sup>N</sup> (Eastern Red Centipede)

Identified By: N. Ritter; First Noted By: N. Long

Year Observed: 2021

## Class Diplopoda (Millipedes)

### Order Julida: Snake Millipedes

#### Julidae (1 species)

##### *Cylindroiulus* Indet. #1<sup>N</sup>

Identified and First Noted By: N. Ritter

Years Observed: 2020; 2021

### Order Polydesmida: Flat-backed Millipedes

#### Family Unknown

##### *Polydesmida* Indet. #1<sup>N</sup> (Flat-backed Millipede)

Identified and First Noted By: N. Ritter

Years Observed: 2019; 2020

##### *Polydesmida* Indet. #2<sup>N</sup> (Flat-backed Millipede)

Identified and First Noted By: N. Ritter

Year Observed: 2018

## Paradoxosomatidae (1 species)

### *Oxidus gracilis*<sup>1</sup> (Greenhouse Millipede)

**Identified By:** D. Hennen (iNaturalist); **First Noted By:** N. Ritter

**Years Observed:** 2018; 2020

## Polydesmidae (1 species)

### cf. *Polydesmus superus* (Millipede)

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2021

## Xystodesmidae (1 species)

### *Apheloria virginiensis*<sup>N</sup> (Black and Gold Flat Millipede)

**Identified By:** N. Ritter; **First Noted By:** G. Hertel; **Also Noted By:** K. McMillin; P. Vermeulen; M. Beatty; J. Kline; A. Rivellini; N. Long; N. Ritter

**Years Observed:** 2013; 2014; 2016; 2017; 2018; 2019; 2020; 2021

#### Conservation Status

**IUCN:** Species has not been reviewed (Website checked:2/10/2020)

## Class Symphyla (Garden Centipedes/Pseudocentipedes)

### Order Unranked

## ScutigereLLidae (1 species)

### *Hanseniella* Indet. #1<sup>N</sup> (No Common Name)

**Identified By:** N. Szucsich (iNaturalist); **First Noted By:** N. Ritter & A. Rivellini

**Year Observed:** 2019



## Crustaceans

### Class Malacostraca (Malacostracans)

#### Order Amphipoda: Amphipods

##### Family Unknown

##### *Amphipoda* Indet. #1<sup>N</sup> (Amphipod)

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

#### Order Decapoda: Decapods

##### Cambaridae (3 species)

##### *Cambarus* Indet. #1<sup>N</sup> (Cambarus Crayfish)

Identified By: Stroud Water Research Center; First Noted By: G. Hertel; Also Noted By: Stroud Water Research Center

Years Observed: 2013; 2018; 2019

##### *Cambarus acuminatus*<sup>N</sup> (Acuminate Crayfish)

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2019

##### Conservation Status

IUCN: Redlist Global Status: Least Concern; Global Population: Unknown

PA Natural Heritage List: Conservation status: S1 (Critically Imperiled)

##### *Orconectes* Indet. #1<sup>N</sup> (Orco Crayfish)

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2018

#### Order Isopoda: Isopods

### Armadillidiidae (1 species)

#### *Armadillidium vulgare*<sup>1</sup> (Common Pill Woodlouse)

Identified and First Noted By: N. Ritter

Year Observed: 2021

### Asellidae (1 species)

#### *Caecidotea* Indet. #1<sup>N</sup> (Isopod)

Identified and First Noted By: D. DiFederico

Year Observed: 2007

### Oniscidae (1 species)

#### *Oniscus asellus*<sup>1</sup> (Common Shiny Woodlouse)

Identified and First Noted By: N. Ritter

Years Observed: 2020; 2021

### Philosciidae (1 species)

#### *Philoscia muscorum*<sup>1</sup> (Common Striped Woodlouse)

Identified and First Noted By: N. Ritter

Years Observed: 2020; 2021

### Porcellionidae (2 species)

#### *Porcellio laevis*<sup>1</sup> (Swift Woodlouse)

Identified and First Noted By: N. Ritter

Years Observed: 2020; 2021

#### *Porcellio scaber*<sup>1</sup> (Common Rough Woodlouse)

Identified and First Noted By: N. Ritter

Year Observed: 2020

## Trachelipodidae (1 species)

### *Trachelipus rathkii*<sup>1</sup> (Rathke's Woodlouse)

**Identified By:** M. Apgar (inaturalist); **First Noted By:** N. Ritter

**Years Observed:** 2018; 2019; 2021

## Trichoniscidae (1 species)

### *Trichoniscidae* Indet. #1 (Woodlouse/Pillbug)

**Identified By:** N. Ritter; **First Noted By:** P. Vermeulen

**Year Observed:** 2020

## Gastropods

### Class Gastropoda (Gastropods)

#### Order Stylommatophora: Common Land Snails and Slugs

#### Arionidae (5 species)

##### *Arion hortensis*<sup>1</sup> (Garden Slug)

**Identified and First Noted By:** N. Ritter

**Years Observed:** 2018; 2020

##### Conservation Status

**IUCN:** Species has not been reviewed (Website checked:7/28/2020)

##### *Arion subfuscus* (Western Dusky Slug)

**Identified By:** Y. Cai (iNaturalist); **First Noted By:** P. Vermeulen

**Year Observed:** 2020

##### Conservation Status

**IUCN:** Redlist Global Status: Least Concern; Global Population: Stable

##### *Arion subgenus Mesarion* Indet. #1<sup>N</sup> (Dusky Slug)

**Identified By:** T. Pearce (iNaturalist); **First Noted By:** N. Ritter

**Year Observed:** 2018

##### *Arion subgenus Mesarion* Indet. #2 (Dusky Slug)

**Identified By:** T. Pearce (iNaturalist); **First Noted By:** N. Ritter

**Year Observed:** 2018

##### *Arion Subgenus Mesarion* Indet. #3 (Dusky Slug)

**Identified By:** T. Pearce (iNaturalist); **First Noted By:** N. Ritter

**Year Observed:** 2018

## Gastrodontidae (1 species)

### *Zonitoides arboreus*<sup>N</sup> (Quick Gloss Snail)

Identified and First Noted By: N. Ritter

Year Observed: 2021

## Philomycidae (1 species)

### *Megapallifera mutabilis*<sup>N</sup> (Changeable Mantleslug)

Identified and First Noted By: N. Ritter; Also Noted By: P. Vermeulen; dsnaturalist21 (iNaturalist)

Year Observed: 2020

#### Conservation Status

PA Natural Heritage List: Conservation status: S3 (Vulnerable)

## Polygyridae (3 species)

### *Mesodon thyroidus*<sup>N</sup> (White-lip Globe Snail)

Identified By: snailtim (iNaturalist); First Noted By: P. Vermeulen

Year Observed: 2020

### *Neohelix albolabris*<sup>N</sup> (Eastern Whitelip)

Identified and First Noted By: N. Ritter

Year Observed: 2018

### *Polygyridae Subfamily Triodopsinae* Indet. #1 (Triodopsine Snails)

Identified By: T. Pearce (iNaturalist); First Noted By: N. Ritter; Also Noted By: P. Vermeulen

Years Observed: 2018; 2020

## Succineidae (1 species)

### *Succineidae* Indet. #1<sup>N</sup> (Amber Snails)

Identified and First Noted By: N. Ritter

Year Observed: 2020

## Zonitidae (1 species)

### *Ventridens ligera*<sup>N</sup> (Globose Dome Snail)

Identified By: T. Pearce (iNaturalist); First Noted By: N. Ritter

Year Observed: 2018

## Order Unknown

### Family Unknown

### *Gastropoda* Indet. #1<sup>N</sup> (Snail)

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

## Limacidae (1 species)

### *Limax maximus*<sup>1</sup> (Leopard Slug)

Identified By: N. Ritter; First Noted By: G. Hertel; Also Noted By: P. Vermeulen; M. Beatty; A. Rivellini; N. Ritter

Years Observed: 2011; 2018; 2019

#### Conservation Status

IUCN: Redlist Global Status: Least Concern; Global Population: Stable

## Order Unranked

**Pleuroceridae (1 species)**

***Pleuroceridae* Indet. #1 (Pleurocerid Snail)**

**Identified and First Noted By:** N. Ritter

**Year Observed:** 2020

## Flatworms

### Class Turbellaria (Flatworms)

#### Order Unknown

#### Family Unknown

#### *Turbellaria* Indet. #1<sup>N</sup> (Flatworm)

Identified and First Noted By: D. DiFederico

Year Observed: 2007

### Class Unknown

#### Order Tricladida: Planarians

#### Geoplanidae (1 species)

#### *Bipalium pennsylvanicum*<sup>1</sup> (Broadhead Flatworm)

Identified By: N. Ritter; First Noted By: A. Hodowanec; Also Noted By: A. Rivellini; P. Vermeulen; N. Ritter; M. Rettenmaier

Years Observed: 2017; 2019; 2020; 2021

#### Conservation Status

IUCN: Species has not been reviewed (Website checked:2/10/2020)

#### Planariidae (1 species)

#### *Planariidae* Indet. #1<sup>N</sup>

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017



*Ribbon Worms*

**Class Unknown**

**Order Unknown**

**Family Unknown**

***Nemertea* Indet. #1<sup>N</sup> (Ribbon Worm)**

**Identified and First Noted By:** Stroud Water Research Center

**Year Observed:** 2017

## Worms

### Class Clitellata (Clitellates)

#### Order Crassicitellata

##### Megascolecidae (1 species)

##### *Amyntas agrestis*<sup>1</sup> (Crazy Snake Worm)

Identified and First Noted By: N. Ritter

Year Observed: 2018

##### Conservation Status

IUCN: Redlist Global Status: Least Concern; Global Population: Stable

#### Order Unknown

##### Family Unknown

##### *Oligochaeta* Indet. #1<sup>N</sup> (Worm)

Identified and First Noted By: D. DiFederico; **Also Noted By:** Stroud Water Research Center - 2017

Years Observed: 2007; 2017

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## References

Illinois Wildflowers. 2020. [http://illinoiswildflowers.info/flower\\_insects/index.htm#bug\\_database](http://illinoiswildflowers.info/flower_insects/index.htm#bug_database). Data downloaded: 9/17/2020.

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[PNHP] Pennsylvania Natural Heritage Program. 2020. Pennsylvania Natural Heritage Species and Natural Features List (<http://www.naturalheritage.state.pa.us/SpeciesFeatures.aspx>); Date accessed: 3/27/2020.

[USGS/CPC] United States Geological Survey/Center for Plant Conservation. 2020. USGS/CPC Pollinator Database. <https://www.npwrc.usgs.gov/pollinator/Downloads>. Data downloaded: 9/18/2020.

## Metadata

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