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9-23-2020

**Annotated Checklist of Invertebrate Species Observed at the  
Gordon Natural Area (West Chester University, PA) 2007-2020.  
Version II**

Nur Ritter

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# Annotated Checklist of Invertebrate Species Observed at the Gordon Natural Area (West Chester University, PA) 2007-2020. Version II

## Summary Data

**Number of Taxa:** 304 Species, in 211 Genera, 134 Families, and 32 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; Worms; and, Ribbon Worms. The checklist is sorted by 'Type', followed by Order, Family, and Scientific Name.

## Insects

### Order Blattodea

#### Ectobiidae (2 species)

##### *Parcoblatta virginica* (Virginia Wood Cockroach)

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

Year Observed: 2019

##### *Plectoptera* Indet. #1

Identified and First Noted By: D. DiFederico

Year Observed: 2007

### Order Coleoptera

#### Carabidae (1 species)

##### *Chlaenius aestivus* (Metallic Ground Beetle)

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

Year Observed: 2020

#### Cerambycidae (5 species)

##### *Megacyllene robiniae* (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* (Pole Borer)

Identified and First Noted By: N. Ritter

Year Observed: 2020

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***Strangalia luteicornis* (Yellow-horned Flower Longhorn Beetle)**

Identified and First Noted By: N. Ritter

Year Observed: 2020

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***Tetraopes tetrophthalmus* (Red Milkweed Beetle)**

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): Swamp Milkweed (*Asclepias incarnata*)

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***Typocerus velutinus* (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)

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**Cetoniinae (1 species)**

***Cotinus nitida* (June Beetle)**

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

Year Observed: 2019

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**Chrysomelidae (2 species)**

***Altica* Indet. #1 (Metallic Flea Beetle)**

Identified and First Noted By: N. Ritter

Year Observed: 2020

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***Chrysochus auratus* (Dogbane Leaf Beetle)**

Identified and First Noted By: N. Ritter

Year Observed: 2020

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## Cleridae (1 species)

### *Enoclerus* Indet. #1 (Checkered Beetle)

Identified and First Noted By: N. Ritter

Year Observed: 2019

## Coccinellidae (3 species)

### *Coccinella septempunctata* (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* (Asian Lady Beetle)

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

Year Observed: 2019

#### Conservation Status

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

### *Hippodamia variegata* (Variegated Lady Beetle)

Identified By: N. Ritter (from photo); First Noted By: W. Ricci

Year Observed: 2013

## Curculionidae (2 species)

### *Larinus* Indet. #1 (Thistle Weevil)

Identified and First Noted By: N. Ritter

Year Observed: 2020

### *Rhinocomimus latipes* (Mile-a-minute Weevil)

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

Years Observed: 2009; 2019; 2020

**Conservation Status**

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

**Elmidae (8 species)**

***Elmidae* Indet. #1 (Riffle Beetle)**

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

**Year Observed:** 2013

***Elmidae* Indet. #2**

**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* (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* (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**

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

**Year Observed:** 2017

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***Stenelmis crenata* (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)

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**Endomychidae (1 species)**

***Aphorista vittata* (Handsome Fungus Beetle)**

**Identified By:** N. Ritter (from photo); **First Noted By:** A. Rivellini

**Year Observed:** 2020

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**Erotylidae (1 species)**

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

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

**Years Observed:** 2018; 2019

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**Lampyridae (1 species)**

***Pyractomena borealis* (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)

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## Lucanidae (1 species)

### *Lucanus capreolus* (Reddish-brown Stag Beetle)

Identified and First Noted By: N. Ritter

Year Observed: 2020

## Lycidae (2 species)

### *Calopteron discrepans* (Banded Net-winged Beetle)

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

Years Observed: 2015; 2020

### *Dictyoptera aurora* (Golden Net-winged Beetle)

Identified and First Noted By: N. Ritter

Year Observed: 2020

## Meloidae (1 species)

### *Meloe americanus* (American Oil Beetle)

Identified and First Noted By: N. Ritter

Year Observed: 2019

## Passalidae (1 species)

### *Odontotaenius disjunctus* (Horned Passalus Beetle)

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

Years Observed: 2015; 2019

## Psephenidae (2 species)

### *Ectopria* Indet. #1

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017



***Psephenus herricki* (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)

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**Pyrochroidae (1 species)**

***Dendroides canadensis* (Fire-colored Beetle)**

Identified and First Noted By: N. Ritter

Year Observed: 2020

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**Scarabaeidae (1 species)**

***Popillia japonica* (Japanese Beetle)**

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): Common Milkweed (*Asclepias syriaca*)

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**Silphidae (2 species)**

***Necrophila americana* (American Carrion Beetle)**

Identified and First Noted By: N. Ritter

Year Observed: 2020

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***Oiceoptoma noveboracense* (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)

## Tenebrionidae (1 species)

### *Alobates pensylvanicus* (False Mealworm Beetle)

Identified and First Noted By: N. Ritter

Year Observed: 2020

## Order Diptera

## Asilidae (3 species)

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

Identified and First Noted By: N. Ritter

Year Observed: 2020

### *Holcocephala* Indet. #1 (Gnat Ogre)

Identified and First Noted By: N. Ritter

Year Observed: 2020

### *Laphria canis* Complex (Bee-mimic Robber Flies)

Identified and First Noted By: N. Ritter

Year Observed: 2020

## Calliphoridae (1 species)

### *Lucilia* Indet. #1 (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 (5 species)

### *Ampelomyia vitiscoryloides* (Gall Midge)

Identified and First Noted By: N. Ritter

Year Observed: 2019

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### *Asteromyia carbonifera* (Carbonifera Goldenrod Gall Midge)

Identified and First Noted By: N. Ritter

Year Observed: 2020

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### *Caryomyia* Indet. #1 (Hickory Gall Midge)

Identified and First Noted By: G. Hertel

Year Observed: 2013

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### *Dasineura folliculi* (Gall Midge)

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

Year Observed: 2020

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### *Resseliella liriodendri* (Gall Midge)

Identified and First Noted By: N. Ritter

Year Observed: 2020

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### *Rhopalomyia solidaginis* (Goldenrod Bunch Gall Midge)

Identified and First Noted By: N. Ritter

Year Observed: 2020

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## Ceratopogonidae (2 species)

### *Ceratopogonidae* Indet. #1 (Biting Midge)

Identified and First Noted By: N. Ritter

Year Observed: 2020

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### *Probezzia* Indet. #1

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

**Year Observed:** 2017

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## **Chironomidae (41 species)**

### ***Brillia* Indet. #1**

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

**Year Observed:** 2017

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### ***Chironomidae* Indet. #1 (Non-biting Midge)**

**Identified and First Noted By:** D. DiFederico

**Year Observed:** 2007

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### ***Chironomidae* Indet. #2 (Non-biting Midge)**

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

**Year Observed:** 2019

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### ***Corynoneura* Indet. #1**

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

**Year Observed:** 2017

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### ***Cricotopus* Indet. #1**

**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*)

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### ***Cricotopus/Orthocladius***

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

**Year Observed:** 2017

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### ***Diamesa* Indet. #1**

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

**Year Observed:** 2017

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***Diamesinae* Indet. #1**

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

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***Diplocladius* Indet. #1**

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

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***Eukiefferiella coerulescens* Group**

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)

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***Hydrobaenus* Indet. #1**

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

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***Krenosmittia* Indet. #1**

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

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***Micropsectra polita* (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)

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***Nilotanypus fimbriatus* (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)

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***Orthoclaadiinae* Indet. #1**

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

**Year Observed:** 2017

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***Orthocladius* Indet. #1**

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

**Year Observed:** 2017

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***Orthocladius clarkei***

**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)

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***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)

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***Orthocladius dentifer***

**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)

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***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)

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***Orthocladius doreus***

**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)

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***Orthocladius doreus/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)

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***Orthocladius 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)

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***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)

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***Orthocladius rivicola* (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)

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***Parametriocnemus* Indet. #1**

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

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Year Observed: 2017

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***Polypedilum aviceps* (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)

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***Polypedilum convictum* Group (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)

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***Potthastia/Sympotthastia***

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

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***Rheotanytarsus* Indet. #1**

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

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***Rheotanytarsus exiguus* Group (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)

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***Sympotthastia* Indet. #1**

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

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***Tanytarsus glabrescens* Group (No Common Name)**

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**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)

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***Tanytarsus guerlus* Group**

**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)

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***Thienemanniella* Indet. #1**

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

**Year Observed:** 2017

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***Thienemanniella* Indet. #2**

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

**Year Observed:** 2017

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***Thienemanniella taurocapita* (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)

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***Thienemanniella* cf. *xena* (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)

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***Thienemannimyia* Group**

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

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Year Observed: 2017

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***Tvetenia* Indet. #1**

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

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***Tvetenia paucunca* (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)

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**Chloropidae (1 species)**

***Thaumatomyia* Indet. #1 (Grass Fly)**

Identified and First Noted By: N. Ritter

Year Observed: 2020

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**Culicidae (2 species)**

***Aedes japonicus* (Asian Bush Mosquito)**

Identified and First Noted By: N. Ritter

Year Observed: 2020

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***Psorophora ferox* (White-footed Woods Mosquito)**

Identified and First Noted By: N. Ritter

Year Observed: 2020

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**Dolichopodidae (1 species)**

***Condylostylus* Indet. #1 (Long-legged Fly)**

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): *European Cranberrybush (Viburnum opulus)*

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## Drosophilidae (1 species)

### *Drosophila melanogaster* (Common Fruit Fly)

Identified and First Noted By: N. Ritter

Year Observed: 2018

## Empididae (3 species)

### *Chelifera* Indet. #1

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

### *Clinocera* Indet. #1

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

Years Observed: 2007; 2017

### *Empididae* Indet. #1

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

## Family Unknown

### *Tipuloidea* Indet. #1 (Crane Fly)

Identified and First Noted By: N. Ritter

Year Observed: 2020

## Limoniidae (2 species)

### *Antocha* Indet. #1

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

### *Helius* Indet. #1

Identified and First Noted By: D. DiFederico

Year Observed: 2007

## Muscidae (1 species)

### *Muscidae* Indet. #1 (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)*

## Pediciidae (1 species)

### *Dicranota* Indet. #1

Identified and First Noted By: D. DiFederico

Year Observed: 2007

## Sarcophagidae (1 species)

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

Identified and First Noted By: N. Ritter

Year Observed: 2020

## Simuliidae (4 species)

### *Prosimulium* Indet. #1 (Black Flies)

Identified and First Noted By: D. DiFederico

Year Observed: 2007

### *Simuliidae* Indet. #1

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

### *Simulium* Indet. #1

Identified and First Noted By: D. DiFederico

Year Observed: 2007

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### ***Stegopterna* Indet. #1**

Identified and First Noted By: D. DiFederico

Year Observed: 2007

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## **Syrphidae (3 species)**

### ***Meromacrus acutus* (Carolinian Elegant)**

Identified and First Noted By: N. Ritter

Year Observed: 2020

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### ***Toxomerus geminatus* (Eastern Calligrapher)**

Identified and First Noted By: N. Ritter

Year Observed: 2020

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

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## **Toxomerus marginatus (Margined Calligrapher)**

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

**Year Observed:** 2020

**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 (*Symphyotrichum 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 (*Symphyotrichum 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 pennsylvanicum*); 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 (3 species)

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

Identified and First Noted By: N. Ritter

Year Observed: 2020

### *Juriniopsis adusta* (No Common Name)

Identified and First Noted By: N. Ritter

Year Observed: 2020

### *Trichopoda pennipes* (Swift Feather-legged Fly)

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: 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*)

## Tipulidae (2 species)

### *Tipula* Indet. #1

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

Years Observed: 2007; 2017

### Tipulidae Indet. #1 (Large Crane Flies)

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

## Order Ephemeroptera

## Ameletidae (1 species)

### *Ameletus* Indet. #1 (Mayfly)

Identified and First Noted By: D. DiFederico

Year Observed: 2007

## Baetidae (1 species)

### *Baetidae* Indet. #1 (Mayfly)

Identified and First Noted By: D. DiFederico

Year Observed: 2007

## Family Unknown

### *Ephemeroptera* Indet. #1 (Mayfly)

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

## Heptageniidae (2 species)

### *Maccaffertium modestum* (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 (Mayfly)

Identified and First Noted By: D. DiFederico

Year Observed: 2007

## Isonychiidae (1 species)

### *Isonychia* Indet. #1

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

## Order Hemiptera



## Acanaloniidae (2 species)

### *Acanalonia bivittata* (Two-striped Planthopper)

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

Years Observed: 2018; 2020

### *Acanalonia conica* (Green Cone-headed Planthopper)

Identified and First Noted By: N. Ritter

Year Observed: 2020

## Aphalaridae (1 species)

### *Pachypsylla celtidismamma* (Hackberry Nipplegall Psylla)

Identified and First Noted By: N. Ritter

Year Observed: 2020

## Aphididae (5 species)

### *Aphis nerii* (Milkweed Aphid)

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

Years Observed: 2014; 2020

### *Grylloprociphilus imbricator* (Beech Blight Aphid)

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

Years Observed: 2014; 2018; 2019

#### Conservation Status

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

### *Hormaphis hamamelidis* (Witch-hazel Cone Gall Aphid)

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

Year Observed: 2019

### *Illinoia liriodendri* (Tuliptree Aphid)

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

**Year Observed:** 2020

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***Macrosiphum rosae* (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)

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**Aphrophoridae (1 species)**

***Philaenus spumarius* (Meadow Spittlebug)**

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

**Year Observed:** 2020

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**Cicadidae (2 species)**

***Cicadidae* Indet. #1 (Cicada)**

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

**Year Observed:** 2018

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

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

**Year Observed:** 2019

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**Coccidae (1 species)**

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

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

**Year Observed:** 2020

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## Coreidae (2 species)

### *Acanthocephala terminalis* (Leaf-footed Bug)

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

Year Observed: 2019

#### Conservation Status

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

### *Leptoglossus oppositus* (Leaf-Footed Bug)

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

Year Observed: 2018

## Diaspididae (1 species)

### *Diaspididae* Indet. #1 (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 (1 species)

### *Metcalfa pruinosa* (Citrus Flatid Planthopper)

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

Years Observed: 2018; 2020

## Fulgoridae (1 species)

### *Lycorma delicatula* (Spotted Lanternfly)

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

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

#### Conservation Status

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

## Lygaeidae (1 species)

### *Oncopeltus fasciatus* (Large Milkweed Bug)

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

**Years Observed:** 2014; 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*)

## Monophlebidae (1 species)

### *Icerya purchasi* (Cottony Cushion Scale)

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

**Year Observed:** 2019

## Pentatomidae (1 species)

### *Brochymena arborea* (Stink Bug)

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

**Year Observed:** 2020

## Order Hymenoptera

## Apidae (3 species)

### *Apis mellifera* (Western Honey Bee)

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

**Years Observed:** 2018; 2020

**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. obtusa*); 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*)

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### ***Bombus impatiens* (Common Eastern Bumble Bee)**

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

**Year Observed:** 2020

**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

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(*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 (*Symphotrichum 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*); Panickedleaf Ticktrefoil (*Desmodium paniculatum*); Partridgeberry (*Mitchella repens*); Pennsylvania Smartweed (*Polygonum pennsylvanicum*); 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*)

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### ***Bombus vagans* (Half-black Bumble Bee)**

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

**Years Observed:** 2013; 2017

#### **Conservation Status**

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

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (58 species: Natives - 48; Introduced - 10): Allegheny Blackberry (*Rubus allegheniensis*); Allegheny Monkeyflower (*Mimulus ringens*); Alternateleaf Dogwood (*Cornus alternifolia*); American Bladdernut (*Staphylea trifolia*); American Hogpeanut (*Amphicarpaea bracteata*); American Holly (*Ilex opaca*); American Spikenard (*Aralia racemosa*); Black Raspberry (*Rubus occidentalis*); Blackeyed Susan (*Rudbeckia hirta*); **Bull Thistle** (*Cirsium vulgare*); **Butter And Eggs** (*Linaria vulgaris*); Canada Germander (*Teucrium canadense*); Canada Goldenrod (*Solidago canadensis*); Carpenter's Square (*Scrophularia marilandica*); Common Blue Wood Aster (*Symphotrichum cordifolium*); Common Milkweed (*Asclepias syriaca*); **Common Mullein** (*Verbascum thapsus*); Common Selfheal (*Prunella vulgaris*); Culver's Root (*Veronicastrum virginicum*); Cutleaf Coneflower (*Rudbeckia laciniata*); 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*); **Garden Asparagus** (*Asparagus officinalis*); Giant Goldenrod (*Solidago gigantea*); Gray Goldenrod (*Solidago nemoralis*); Great Blue Lobelia (*Lobelia siphilitica*); **Greater Burdock** (*Arctium lappa*); **Ground Ivy** (*Glechoma hederacea*); Hairy Solomon's Seal (*Polygonatum pubescens*); Jewelweed (*Impatiens capensis*); Joe Pye Weed (*Eutrochium purpureum*); Lateflowering Thoroughwort (*Eupatorium serotinum*); **Lesser Burdock** (*Arctium minus*); New England Aster (*Symphotrichum novae-angliae*); Partridgeberry (*Mitchella repens*); Pipsissewa (*Chimaphila umbellata*); **Purple Loosestrife** (*Lythrum salicaria*); Ramp (*Allium tricoccum*); **Red Clover** (*Trifolium pratense*); Showy Orchis (*Galearis spectabilis*); Spotted Geranium (*Geranium maculatum*); Striped Prince's Pine (*Chimaphila*

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*maculata*); Swamp Milkweed (*Asclepias incarnata*); Swamp Verbena (*Verbena hastata*); **Sweetclover** (*Melilotus officinalis*); Thinleaf Sunflower (*Helianthus decapetalus*); Virginia Bluebells (*Mertensia virginica*); Virginia Mountainmint (*Pycnanthemum virginianum*); Virginia Springbeauty (*Claytonia virginica*); White Snakeroot (*Ageratina altissima*); White Turtlehead (*Chelone glabra*); Wild Sarsaparilla (*Aralia nudicaulis*); Yellow Giant Hyssop (*Agastache nepetoides*)

## Crabronidae (1 species)

### ***Crabronidae* Indet. #1 (Crabronid Wasp)**

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

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (1 species: native): Rabbit-tobacco (*Pseudognaphalium obtusifolium*)

## Cynipidae (1 species)

### ***Amphibolips quercusjuglans* (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* (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 (4 species)

### ***Camponotus chromaiodes* (Ferruginous Carpenter Ant)**

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

**Year Observed:** 2020

### ***Camponotus pennsylvanicus* (Eastern Black Carpenter Ant)**

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

**Year Observed:** 2020



***Nylanderia* Indet. #1 (Crazy Ant)**

Identified By: *ferox\_formicae* (iNaturalist); First Noted By: N. Ritter

Year Observed: 2020

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***Prenolepis* Indet. #1 (False Honey Ant)**

Identified and First Noted By: N. Ritter

Year Observed: 2020

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**Halictidae (2 species)**

***Augochlora pura* (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*)

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***Sphecodes* Indet. #1 (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*)

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**Ichneumonidae (1 species)**

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

Identified and First Noted By: N. Ritter

Year Observed: 2020

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**Megachilidae (1 species)**

***Megachile sculpturalis* (Sculptured Resin Bee)**

Identified and First Noted By: N. Ritter

Year Observed: 2020

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## Scoliidae (1 species)

### *Scolia dubia* ssp. *dubia* (Blue-winged Scoliid Wasp)

Identified and First Noted By: N. Ritter

Year Observed: 2020

## Sphecidae (3 species)

### *Sphex ichneumoneus* (Great Golden Digger Wasp)

Identified and First Noted By: N. Ritter

Year Observed: 2020

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (20 species: Natives - 18; 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*); 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* (Katydid Wasp)

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): Common Boneset (*Eupatorium perfoliatum*); Narrowleaf Mountainmint (*Pycnanthemum tenuifolium*); Swamp Milkweed (*Asclepias incarnata*); Wild Mint (*Mentha arvensis*)

### *Sphex pensylvanicus* (Great Black Digger Wasp)

Identified and First Noted By: N. Ritter

Year Observed: 2020

## Vespidae (5 species)

### *Dolichovespula maculata* (Bald-faced Hornet)

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

**Years Observed:** 2017; 2018; 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** (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*)

### *Polistes cf. fuscatus* (Northern Paper Wasp)

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

**Year Observed:** 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*)

### *Vespidae* Indet. #1 (Wasp)

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

**Years Observed:** 2007; 2020

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (2 species: Natives - 1; Introduced - 1): **Butter And Eggs (*Linaria vulgaris*)**; Rabbit-tobacco (*Pseudognaphalium obtusifolium*)

### *Vespula maculifrons* (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*)

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### ***Vespa squamosa* (Southern Yellowjacket)**

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

**Years Observed:** 2019; 2020

**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 pennsylvanicum*); Spotted Water Hemlock (*Cicuta maculata*); Swamp Milkweed (*Asclepias incarnata*)

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## **Order Isopoda**

### **Asellidae (1 species)**

#### ***Caecidotea* Indet. #1 (Isopod)**

**Identified and First Noted By:** D. DiFederico

**Year Observed:** 2007

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## **Order Lepidoptera**

### **Crambidae (3 species)**

#### ***Agriphila* Indet. #1 (Sod Webworm Moth)**

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

**Year Observed:** 2020

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

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

**Year Observed:** 2020

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#### ***Nomophila nearctica* (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*)

## Erebidae (9 species)

### *Cycnia tenera* (Delicate Cycnia Moth)

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

Year Observed: 2019

### *Euchaetes egle* (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* (Banded Tussock Moth)

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

Years Observed: 2019; 2020

### *Hypeninae* Indet. #1 (Hypenine Snout Moths)

Identified By: N. Ritter; First Noted By:

Year Observed: 2020

### *Hyphantria cunea* (Fall Webworm)

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

Years Observed: 2018; 2019

#### Conservation Status

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

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

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

Year Observed: 2020

### *Pyrrharctia isabella* (Isabella Tiger Moth)

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

**Year Observed:** 2019

**Conservation Status**

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

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

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

**Year Observed:** 2020

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***Spilosoma virginica* (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)

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**Gelechiidae (1 species)**

***Fascista cercerisella* (Redbud Leaf folder Moth)**

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

**Year Observed:** 2020

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**Geometridae (3 species)**

***Geometridae* Indet. #1**

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

**Year Observed:** 2019

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

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

**Year Observed:** 2020

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***Timandra amaturaria* (Cross-lined Wave)**

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

**Year Observed:** 2020

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## Gracillariidae (1 species)

### *Phyllocnistis liriodendronella* (Tulip Tree Leaf Miner)

Identified and First Noted By: N. Ritter

Year Observed: 2020

## Hesperiidae (5 species)

### *Atalopedes campestris* (Sachem)

Identified By: Doug 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* (Silver-spotted Skipper)

Identified and First Noted By: N. Ritter

Years Observed: 2019; 2020

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* (Wild Indigo Duskywing)

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): Red Clover (*Trifolium pratense*)

### *Pholisora catullus* (Common Sootywing)

Identified and First Noted By: N. Ritter

**Year Observed:** 2020

**Flowering Plant Species Known for the GNA That Are Visited By This Species** (15 species: Natives - 10; Introduced - 5): American Water Horehound (*Lycopus americanus*); Black Raspberry (*Rubus occidentalis*); Bulbous Bittercress (*Cardamine bulbosa*); **Butter-print (*Abutilon theophrasti*)**; Common Milkweed (*Asclepias syriaca*); Common Yellow Oxalis (*Oxalis stricta*); **Lesser Burdock (*Arctium minus*)**; Narrowleaf Mountainmint (*Pycnanthemum tenuifolium*); Northern Dewberry (*Rubus flagellaris*); **Prickly Lettuce (*Lactuca serriola*)**; **Shepherd's Purse (*Capsella bursa-pastoris*)**; Swamp Milkweed (*Asclepias incarnata*); Swamp Verbena (*Verbena hastata*); Virginia Strawberry (*Fragaria virginiana*); **White Clover (*Trifolium repens*)**

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### ***Polites themistocles* (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 pensylvanicum*); Philadelphia Fleabane (*Erigeron philadelphicus*); **Red Clover (*Trifolium pratense*)**; **Rocket Larkspur (*Consolida ajacis*)**; Swamp Milkweed (*Asclepias incarnata*); **Sweetclover (*Melilotus officinalis*)**; **White Clover (*Trifolium repens*)**

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### **Limacodidae (1 species)**

#### ***Acharia stimulea* (Saddleback Caterpillar Moth)**

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

**Year Observed:** 2014

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## Lycaenidae (1 species)

### *Cupido comyntas* (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 (2 species)

### *Acronicta americana* (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)

### *Lithophane* Indet. #1 (Dart Moth)

Identified and First Noted By: A. Rivellini

Year Observed: 2019

## Notodontidae (2 species)

### *Datana integerrima* (Walnut Caterpillar Moth)

Identified and First Noted By: N. Ritter

Year Observed: 2020

### *Schizura concinna* (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 (7 species)

### *Danaus plexippus* (Monarch Butterfly)

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

**Years Observed:** 2014; 2020

**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 (*Symphotrichum novae-angliae*); Nodding Beggartick (*Bidens cernua*); **Nodding Plumeless Thistle (*Carduus nutans*)**; Pennsylvania Smartweed (*Polygonum pensylvanicum*); 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* (Common Buckeye)

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

**Years Observed:** 2019; 2020

**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 pensylvanicum*); **Purple Loosestrife (*Lythrum salicaria*)**; Swamp Milkweed (*Asclepias incarnata*); **Sweetclover (*Melilotus officinalis*)**; **White Clover (*Trifolium repens*)**

### *Lethe appalachia* (Appalachian Brown)

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

**Year Observed:** 2020

### *Limnitis arthemis* (Red-spotted Admiral)

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

**Years Observed:** 2014; 2020

### ***Polygonia comma* (Eastern Comma)**

**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: Natives - 5; Introduced - 1): **Canada Thistle (*Cirsium arvense*)**; Common Milkweed (*Asclepias syriaca*); Early Goldenrod (*Solidago juncea*); Field Pussytoes (*Antennaria neglecta*); Joe Pye Weed (*Eutrochium purpureum*); Sugar Maple (*Acer saccharum*)

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### ***Vanessa atalanta* (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 (*Symphyotrichum novae-angliae*); Nodding Beggartick (*Bidens cernua*); **Nodding Plumeless Thistle (*Carduus nutans*)**; Pennsylvania Smartweed (*Polygonum pensylvanicum*); **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*)

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### ***Vanessa virginiensis* (American Painted Lady)**

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

**Year Observed:** 2019

**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*);

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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* (Eastern Tiger Swallowtail)**

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

**Years Observed:** 2012; 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** (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* (Spicebush Swallowtail)**

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

**Years Observed:** 2012; 2013; 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** (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 (2 species)

### *Colias philodice* (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 (*Symphyotrichum 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* (Cabbage White)

Identified and First Noted By: N. Ritter

Year Observed: 2020

**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*); Claspig 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 (*Symphotrichum 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* (Polyphemus Moth)**

Identified and First Noted By: N. Ritter

Year Observed: 2019

### ***Callosamia promethea* (Promethea Silkmoth)**

Identified By: G. Hertel; First Noted By: K. McMillen

Year Observed: 2012

#### **Conservation Status**

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

### ***Citheronia regalis* (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 (1 species)

### *Eumorpha pandorus* (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)

## Order Mantodea

## Mantidae (1 species)

### *Tenodera sinensis* (Chinese Mantid)

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

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

#### Conservation Status

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

## Order Megaloptera

## Sialidae (1 species)

### *Sialis* Indet. #1

Identified and First Noted By: D. DiFederico

Year Observed: 2007

## Order Neuroptera

## Chrysopidae (1 species)

### *Leucochrysa pavida* (Lichen-carrying Green Lacewing)

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

Years Observed: 2013; 2019

## Order Odonata

### Calopterygidae (1 species)

#### *Calopteryx maculata* (Ebony Jewelwing)

Identified and First Noted By: N. Ritter

Years Observed: 2018; 2020

#### Conservation Status

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

### Gomphidae (1 species)

#### *Gomphidae* Indet. #1

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

### Libellulidae (1 species)

#### *Libellula luctuosa* (Widow Skimmer)

Identified and First Noted By: G. Hertel

Year Observed: 2012

## Order Orthoptera

### Rhaphidophoridae (1 species)

#### *Tachycines asynamorus* (Camel Cricket)

Identified and First Noted By: N. Ritter

Year Observed: 2019



## Tettigoniidae (1 species)

### *Conocephalus brevipennis* (Short-winged Meadow Katydid)

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

Year Observed: 2020

## Order Plecoptera

### 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 (Stonefly)

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

## Nemouridae (4 species)

#### *Amphinemura* Indet. #1

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

#### *Amphinemura delosa* (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**

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

**Year Observed:** 2017

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***Prostoia* Indet. #1**

**Identified and First Noted By:** D. DiFederico

**Year Observed:** 2007

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**Perlidae (2 species)**

***Eccoptura* Indet. #1**

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

**Year Observed:** 2017

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***Eccoptura xanthenes* (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)

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**Order Thysanoptera**

**Phlaeothripidae (1 species)**

***Phlaeothripidae* Indet. #1 (Tube-tailed Thrip)**

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

**Year Observed:** 2019

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**Order Trichoptera**

## Family Unknown

### *Trichoptera* Indet. #1 (Caddisfly)

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

## Glossosomatidae (1 species)

### *Glossosomatidae* Indet. #1

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

## Hydropsychidae (8 species)

### *Cheumatopsyche* Indet. #1

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

Years Observed: 2007; 2017

### *Diplectronea* Indet. #1

Identified and First Noted By: D. DiFederico

Year Observed: 2007

### *Diplectronea modesta* (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

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

Years Observed: 2007; 2017

### *Hydropsyche betteni* (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)

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***Hydropsyche slossonae* (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)

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***Hydropsyche sparna* (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)

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***Hydropsychidae* Indet. #1**

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

**Year Observed:** 2017

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**Hydroptilidae (1 species)**

***Hydroptilidae* Indet. #1 (Microcaddisfly)**

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

**Year Observed:** 2020

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**Limnephilidae (1 species)**

***Pycnopsyche* Indet. #1**

**Identified and First Noted By:** D. DiFederico

**Year Observed:** 2007

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## Philopotamidae (4 species)

### *Chimarra* Indet. #1

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

Years Observed: 2007; 2017

### *Chimarra aterrima* (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

Identified and First Noted By: D. DiFederico

Year Observed: 2007

### *Philopotamidae* Indet. #1

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

## Rhyacophilidae (1 species)

### *Rhyacophila* Indet. #1

Identified and First Noted By: D. DiFederico

Year Observed: 2007

## Thremmatidae (2 species)

### *Neophylax* Indet. #1

Identified and First Noted By: D. DiFederico

Year Observed: 2007

### *Neophylax oligius* (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)

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*Springtails*

**Order Entomobryomorpha**

**Entomobryidae (1 species)**

***Entomobrya atrocincta* (Slender Springtail)**

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

**Year Observed:** 2020

**Tomoceridae (1 species)**

***Tomoceridae* Indet. #1 (Elongate-bodied Springtails)**

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

**Year Observed:** 2020

## Arthropods

### Order Araneae

#### Agelenidae (1 species)

##### *Agelenidae* Indet. #1 (Funnel Weaver)

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

Year Observed: 2018

#### Anyphaenidae (1 species)

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

Identified and First Noted By: K. Johnson

Year Observed: 2020

#### Araneidae (4 species)

##### *Araneus diadematus* (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* (Marbled Orbweaver)

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

Year Observed: 2018

##### Conservation Status

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

##### *Micrathena gracilis* (Spined Micrathena)

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

Years Observed: 2018; 2020



**Conservation Status**

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

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***Neoscona crucifera* (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)

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**Linyphiidae (1 species)**

***Frontinella pyramitela* (Bowl-and-doily Spider)**

Identified and First Noted By: N. Ritter

Year Observed: 2020

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**Lycosidae (2 species)**

***Schizocosa* Indet. #1 (Brush Legged Spider)**

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

Year Observed: 2020

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***Tigrosa helluo* (Wetland Giant Wolf Spider)**

Identified and First Noted By: N. Ritter

Year Observed: 2020

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**Pisauridae (3 species)**

***Dolomedes albineus* (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)

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***Dolomedes tenebrosus* (Dark Fishing Spider)**

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**Identified By:** chuuiuung (from photo on iNaturalist); **First Noted By:** P. Vermeulen; **Also Noted By:** N. Ritter  
**Years Observed:** 2018; 2020

***Pisaurina mira* (American Nursery Web Spider)**

**Identified By:** N. Ritter; **First Noted By:** P. Vermeulen  
**Year Observed:** 2018

**Tetragnathidae (1 species)**

***Leucauge venusta* (Orchard Orbweaver)**

**Identified and First Noted By:** P. Vermeulen; **Also Noted By:** N. Ritter  
**Years Observed:** 2018; 2020

**Conservation Status**

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

**Theridiidae (1 species)**

***Enoplognatha ovata* (Common Candy-striped Spider)**

**Identified and First Noted By:** N. Ritter  
**Year Observed:** 2020

**Order Endeostigmata**

**Eriophyidae (1 species)**

***Aceria negundi* (Box Elder Pouch Gall Mite)**

**Identified and First Noted By:** N. Ritter  
**Year Observed:** 2020

**Order Geophilomorpha**

## Family Unknown

### *Geophilomorpha* Indet. #1 (Soil Centipede)

Identified By: H. Hernandez (iNaturalist); First Noted By: M. Valles

Year Observed: 2020

## Geophilidae (1 species)

### *Strigamia bothriopus* (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 Ixodida

## Ixodidae (2 species)

### *Dermacentor variabilis* (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* (Deer Tick)

Identified and First Noted By: N. Ritter

Years Observed: 2016; 2017; 2018; 2019

#### Conservation Status

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

## Order Julida

## Julidae (1 species)

### *Cylindroiulus* Indet. #1

Identified and First Noted By: N. Ritter

Year Observed: 2020

## Order Opiliones

### Sclerosomatidae (2 species)

#### *Gagrella splendens* (Harvestman)

Identified and First Noted By: N. Ritter

Year Observed: 2020

#### *Leiobunum vittatum* Group (Eastern Harvestman)

Identified and First Noted By: N. Ritter; **Also Noted By:** dsnaturalist21 (iNaturalist)

Years Observed: 2018; 2020

#### Conservation Status

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

## Order Polydesmida

### Family Unknown

#### *Polydesmida* Indet. #1 (Flat-backed Millipedes)

Identified and First Noted By: N. Ritter

Years Observed: 2019; 2020

## Xystodesmidae (1 species)

### *Apheloria virginiensis* (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

#### Conservation Status

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

## Order Trombidiformes

### Erythraeidae (1 species)

#### *Callidosoma* Indet. #1 (Long-legged Mite)

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

**Year Observed:** 2020

### Trombidiaceae (1 species)

#### *Trombidium* Indet. #1 (Red Velvet Mite)

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

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

## Order Unknown

### Family Unknown

#### *Acari* Indet. #1 (Mite)

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

**Year Observed:** 2017

## Scutigerellidae (1 species)

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

**Identified By:** Nikola Szucsich (iNaturalist); **First Noted By:** N. Ritter & A. Rivellini

**Year Observed:** 2019

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## Crustaceans

### Order Amphipoda

#### Family Unknown

##### *Amphipoda* Indet. #1 (Amphipod)

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

### Order Decapoda

#### Cambaridae (3 species)

##### *Cambarus* Indet. #1 (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* (Acuminate Crayfish)

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2019

##### Conservation Status

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

PA Natural Heritage List: Conservation status: S1 (Critically Imperiled)

##### *Orconectes* Indet. #1 (Orco Crayfish)

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2018

### Order Isopoda

## Oniscidae (1 species)

### *Oniscus* Indet. #1 (Sowbug)

Identified and First Noted By: N. Ritter

Year Observed: 2018

## Trachelipodidae (1 species)

### *Trachelipus rathkii* (Rathke's Woodlouse)

Identified By: Mark Apgar (inaturalist); First Noted By: N. Ritter

Year Observed: 2019



## Gastropods

### Order Stylommatophora

#### Philomycidae (1 species)

##### *Megapallifera mutabilis* (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 (1 species)

##### *Neohelix albolabris* (Eastern Whitelip)

Identified and First Noted By: N. Ritter

Year Observed: 2018

#### Polygyridae Subfamily Triodopsinae (1 species)

##### *Polygyridae Subfamily Triodopsinae* Indet. #1 (Triodopsine Snails)

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

Year Observed: 2018

#### Succineidae (1 species)

##### *Succineidae* Indet. #1 (Amber Snails)

Identified and First Noted By: N. Ritter

Year Observed: 2020

## Zonitidae (1 species)

### *Ventridens ligera* (Globose Dome Snail)

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

Year Observed: 2018

## Order Unknown

## Arionidae (4 species)

### *Arion hortensis* (Garden Slug)

Identified and First Noted By: N. Ritter

Year Observed: 2018

#### Conservation Status

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

### *Arion* subgenus *Mesarion* Indet. #1 (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

## Family Unknown

### *Gastropoda* Indet. #1 (Snail)

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

## Limacidae (1 species)

### *Limax maximus* (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

### Order Tricladida

#### Geoplanidae (1 species)

##### *Bipalium pennsylvanicum* (Broadhead Flatworm)

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

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

##### Conservation Status

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

#### Planariidae (1 species)

##### *Planariidae* Indet. #1

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

**Year Observed:** 2017

### Order Unknown

#### Family Unknown

##### *Turbellaria* Indet. #1 (Flatworm)

**Identified and First Noted By:** D. DiFederico

**Year Observed:** 2007

## Worms

### Order Haplotaxida

#### Megascolecidae (1 species)

##### *Amynthas agrestis* (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 (Worm)

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

Years Observed: 2007; 2017

***Ribbon Worms***

**Order Unknown**

**Family Unknown**

***Nemertea* Indet. #1 (Ribbon Worm)**

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

**Year Observed:** 2017

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## References

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## Metadata

This document was generated from the GNA Database. Database created and data maintained by Nur Ritter, Stewardship Manager, Gordon Natural Area.

## Recommended Citation

Ritter, N.2020. Annotated checklist of invertebrate species observed at the Gordon Natural Area (West Chester University, PA) 2007-2020. Version II. 70 pp. Database queried and document created: 9/23/2020.