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8-11-2020

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

Nur Ritter

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

## Summary Data

**Number of Taxa:** 250 Species, in 170 Genera, 113 Families, and 33 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.

## 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.

## 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

#### Cerambycidae (3 species)

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

Identified and First Noted By: N. Ritter

Year Observed: 2020

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

Identified and First Noted By: N. Ritter

Year Observed: 2020

##### *Typocerus velutinus* (Banded Longhorn Beetle)

Identified and First Noted By: N. Ritter

Year Observed: 2020

##### 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

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### Coccinellidae (3 species)

#### *Coccinella septempunctata* (Seven-spot Lady Bug)

Identified and First Noted By: N. Ritter

Year Observed: 2017

#### Status

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

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***Harmonia axyridis* (Asian Lady Beetle)**

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

**Year Observed:** 2019

**Status**

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

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

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

**Year Observed:** 2013

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**Curculionidae (2 species)**

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

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

**Year Observed:** 2020

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***Rhinoncomimus latipes* (Mile-a-minute Weevil)**

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

**Years Observed:** 2009; 2019

**Status**

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

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**Elmidae (8 species)**

***Elmidae* Indet. #1**

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

**Year Observed:** 2013

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***Elmidae* Indet. #2**

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

**Year Observed:** 2017

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

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

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***Optioservus ovalis* (No Common Name)**

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

**Status**

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

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***Optioservus/Oulimnius* Indet.**

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

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***Oulimnius latiusculus* (No Common Name)**

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

**Status**

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

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***Stenelmis crenata* (No Common Name)**

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

**Status**

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

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***Stenelmis* Indet. #1**

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

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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

#### 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

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### Lycidae (2 species)

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

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

Year Observed: 2015

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

Identified and First Noted By: N. Ritter

Year Observed: 2020

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**Meloidae (1 species)**

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

Identified and First Noted By: N. Ritter

Year Observed: 2019

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**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

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**Psephenidae (2 species)**

***Ectopria* Indet. #1**

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

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***Psephenus herricki* (No Common Name)**

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

**Status**

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

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**Scarabaeidae (1 species)**

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

Identified and First Noted By: N. Ritter

Year Observed: 2020

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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

#### Status

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

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## Tenebrionidae (1 species)

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

Identified and First Noted By: N. Ritter

Year Observed: 2020

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## Order Diptera

## Asilidae (2 species)

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

Identified and First Noted By: N. Ritter

Year Observed: 2020

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

Identified and First Noted By: N. Ritter

Year Observed: 2020

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### Cecidomyiidae (3 species)

#### *Ampelomyia vitiscoryloides* (Gall Midge)

Identified and First Noted By: N. Ritter

Year Observed: 2019

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

Identified and First Noted By: G. Hertel

Year Observed: 2013

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#### *Resseliella liriodendri* (Gall Midge)

Identified and First Noted By: N. Ritter

Year Observed: 2020

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### Ceratopogonidae (1 species)

#### *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

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

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***Cricotopus/Orthocladius* Indet.**

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

**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

**Status**

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

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***Nilotanypus fimbriatus***

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

**Year Observed:** 2017

**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 clarkei***

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

**Year Observed:** 2017

**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

**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

**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

**Status**

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

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***Orthocladius dorenus***

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

**Year Observed:** 2017

**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

**Status**

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

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***Orthocladius* Indet. #1**

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

**Year Observed:** 2017

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***Orthocladius obumbratus***

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

**Year Observed:** 2017

**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

**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

**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

**Year Observed:** 2017

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***Polypedilum aviceps* (No Common Name)**

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

**Year Observed:** 2017

**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

**Status**

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

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***Potthastia/Sympotthastia* Indet.**

**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

**Status**

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

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***Rheotanytarsus* Indet. #1**

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

**Year Observed:** 2017

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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)**

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

**Year Observed:** 2017

**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

**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

**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***

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

**Year Observed:** 2017

**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

**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

**Status**

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

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**Dolichopodidae (1 species)**

***Condylostylus patibulatus***

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

**Year Observed:** 2020

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**Drosophilidae (1 species)**

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

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

**Year Observed:** 2018

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### **Empididae (3 species)**

#### ***Chelifera* Indet. #1**

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

**Year Observed:** 2017

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#### ***Clinocera* Indet. #1**

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

**Years Observed:** 2007; 2017

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#### ***Empididae* Indet. #1**

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

**Year Observed:** 2017

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### **Limoniidae (2 species)**

#### ***Antocha* Indet. #1**

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

**Year Observed:** 2017

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#### ***Helius* Indet. #1**

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

**Year Observed:** 2007

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### **Muscidae (1 species)**

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

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

**Year Observed:** 2020

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**Pediciidae (1 species)**

***Dicranota* Indet. #1**

Identified and First Noted By: D. DiFederico

Year Observed: 2007

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**Simuliidae (4 species)**

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

Identified and First Noted By: D. DiFederico

Year Observed: 2007

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***Simuliidae* Indet. #1**

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

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***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 (1 species)**

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

Identified and First Noted By: N. Ritter

Year Observed: 2020

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## 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

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### *Tipulidae* Indet. #1

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

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## Family Unknown

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

Identified and First Noted By: N. Ritter

Year Observed: 2020

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## Order Ephemeroptera

## Ameletidae (1 species)

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

Identified and First Noted By: D. DiFederico

Year Observed: 2007

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## Baetidae (1 species)

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

Identified and First Noted By: D. DiFederico

Year Observed: 2007

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## Heptageniidae (2 species)

### *Maccaffertium modestum* (Flat-headed Mayfly)

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

#### 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

## Family Unknown

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

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

## Order Hemiptera

## Acanaloniidae (1 species)

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

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

Years Observed: 2018; 2020

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## Aphalaridae (1 species)

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

Identified and First Noted By: N. Ritter

Year Observed: 2020

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## 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

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### **Capitophorous Indet. #1 (Aphid)**

Identified and First Noted By: N. Ritter

Year Observed: 2020

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### **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

#### Status

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

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

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

Year Observed: 2019

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### **Macrosiphum rosae (Rose Aphid)**

Identified and First Noted By: N. Ritter

Year Observed: 2020

#### Status

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

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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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## Coreidae (1 species)

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

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

Year Observed: 2019

#### Status

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

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## Diaspididae (1 species)

### *Diaspididae* Indet. #1 (Armored Scale Insects)

Identified and First Noted By: N. Ritter

Year Observed: 2019

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## Flatidae (1 species)

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

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

Years Observed: 2018; 2020

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## 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

#### Status

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

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## Lygaeidae (1 species)

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

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

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

#### Status

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

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## Monophlebidae (1 species)

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

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

**Year Observed:** 2019

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## Phylloxeridae (1 species)

### *Phylloxera* Indet. #1 (Gall Aphid)

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

**Year Observed:** 2020

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## Family Unknown

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

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

**Year Observed:** 2019

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## Order Hymenoptera

### Apidae (2 species)

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

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

**Year Observed:** 2018

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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; 2020

**Status**

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

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### 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

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### Diprionidae (1 species)

#### *Neodiprion lecontei* (Redheaded Pine Sawfly)

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

**Year Observed:** 2012

**Status**

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

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### Formicidae (4 species)

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

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

**Year Observed:** 2020

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

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

Year Observed: 2020

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***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 (1 species)**

***Augochlora pura* (Pure Green Sweat Bee)**

Identified and First Noted By: N. Ritter

Year Observed: 2020

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**Vespidae (5 species)**

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

Identified and First Noted By: N. Ritter

Years Observed: 2017; 2018

**Status**

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

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

Identified and First Noted By: N. Ritter

Year Observed: 2019

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

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

**Years Observed:** 2007; 2020

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***Vespula maculifrons* (Eastern Yellowjacket)**

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

**Years Observed:** 2016; 2017; 2018; 2019

**Status**

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

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***Vespula squamosa* (Southern Yellowjacket)**

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

**Year Observed:** 2019

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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**

**Erebidae (7 species)**

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

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

**Year Observed:** 2019

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***Euchaetes egle* (Milkweed Tussock Moth)**

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

**Year Observed:** 2019

**Status**

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

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***Halysidota tessellaris* (Banded Tussock Moth)**

**Identified By:** dsnaturalist21 (iNaturalist); **First Noted By:** dsnaturalist21

**Year Observed:** 2019

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***Hyphantria cunea* (Fall Webworm)**

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

**Years Observed:** 2018; 2019

**Status**

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

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

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

**Year Observed:** 2019

**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

**Status**

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

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**Gelechiidae (1 species)**

***Fascista cercerisella* (Redbud Leaffolder Moth)**

Identified and First Noted By: N. Ritter

Year Observed: 2020

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**Geometridae (2 species)**

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

Identified By: k8thegr8 (from photos on 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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**Hesperiidae (3 species)**

***Atalopedes campestris* (Sachem)**

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

Year Observed: 2020

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***Epargyreus clarus* (Silver-spotted Skipper)**

Identified and First Noted By: N. Ritter

Years Observed: 2019; 2020

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***Polites themistocles* (Tawny-edged Skipper)**

Identified and First Noted By: N. Ritter

Year Observed: 2019

**Status**

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

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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

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**Noctuidae (2 species)**

***Acronicta americana* (American Dagger Moth)**

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

Year Observed: 2019

**Status**

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

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

Identified and First Noted By: A. Rivellini

Year Observed: 2019

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## Notodontidae (1 species)

### *Schizura concinna* (Red-humped Caterpillar)

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

Year Observed: 2011

#### Status

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

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## Nymphalidae (5 species)

### *Danaus plexippus* (Monarch Butterfly)

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

Years Observed: 2014; 2020

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### *Junonia coenia* (Common Buckeye)

Identified and First Noted By: N. Ritter

Year Observed: 2019

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

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

Years Observed: 2014; 2020

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### *Vanessa atalanta* (Red Admiral)

Identified and First Noted By: G. Hertel

Year Observed: 2012

#### Status

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

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

Identified and First Noted By: N. Ritter

Year Observed: 2019

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## Papilionidae (2 species)

### *Papilio glaucus* (Eastern Tiger Swallowtail)

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

Years Observed: 2012; 2020

Status

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

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### *Papilio troilus* (Spicebush Swallowtail)

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

Years Observed: 2012; 2013; 2019

Status

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

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## Saturniidae (3 species)

### *Antheraea polyphemus* (Polyphemus Moth)

Identified and First Noted By: N. Ritter

Year Observed: 2019

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### *Callosamia promethea* (Promethea Silkmoth)

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

Status

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

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### *Citheronia regalis* (Regal Moth)

Identified and First Noted By: G. Hertel

Year Observed: 2014

Status

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

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

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## Sphingidae (1 species)

### *Eumorpha pandorus* (Pandora Sphinx Moth)

Identified and First Noted By: M. Beatty

Year Observed: 2018

#### 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

#### 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

#### 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

## Order Plecoptera

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## Nemouridae (4 species)

### *Amphinemura delosa* (Eastern Forestfly)

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

Status

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

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### *Amphinemura* Indet. #1

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

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### *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

Status

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

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## Family Unknown

### *Capniidae/Leuctridae* Indet. (Stonefly)

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

### *Perlidae/Perlodidae* Indet. (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

## 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

## Order Trichoptera

### Glossosomatidae (1 species)

#### *Glossosomatidae* Indet. #1

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

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## 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

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### *Diplectrona* Indet. #1

Identified and First Noted By: D. DiFederico

Year Observed: 2007

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### *Diplectrona modesta* (No Common Name)

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

#### Status

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

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### *Hydropsyche betteni* (No Common Name)

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

#### Status

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

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### *Hydropsyche* Indet. #1

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

Years Observed: 2007; 2017

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### *Hydropsyche slossonae* (No Common Name)

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2017

#### 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

**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 aterrima* (No Common Name)**

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

**Year Observed:** 2017

**Status**

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

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***Chimarra* Indet. #1**

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

**Years Observed:** 2007; 2017

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***Dolophilodes* Indet. #1**

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

**Year Observed:** 2007

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***Philopotamidae* Indet. #1**

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

**Year Observed:** 2017

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**Rhyacophilidae (1 species)**

***Rhyacophila* Indet. #1**

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

**Year Observed:** 2007

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**Thremmatidae (2 species)**

***Neophylax* Indet. #1**

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

**Year Observed:** 2007

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***Neophylax oligius* (No Common Name)**

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

**Year Observed:** 2017

**Status**

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

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**Family Unknown**

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

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

**Year Observed:** 2017

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**Springtails**

**Order Entomobryomorpha**

**Entomobryidae (1 species)**

*Entomobrya atrocincta* (Slender Springtail)

Identified and First Noted By: N. Ritter

Year Observed: 2020

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**Order Tomoceridae**

**Tomoceridae (1 species)**

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

Identified and First Noted By: N. Ritter

Year Observed: 2020

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## Arthropods

### Order Araneae

#### 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

##### 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

##### 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

##### 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

**Status**

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

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**Lycosidae (1 species)**

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

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

**Year Observed:** 2020

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**Pisauridae (2 species)**

***Dolomedes albineus* (White-banded Fishing Spider)**

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

**Year Observed:** 2020

**Status**

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

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

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

**Years Observed:** 2018; 2020

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**Tetragnathidae (1 species)**

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

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

**Years Observed:** 2018; 2020

**Status**

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

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## 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

### 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

#### 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

#### 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

**Status**

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

**Order Julida**

**Julidae (1 species)**

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

Identified and First Noted By: N. Ritter

Year Observed: 2020

**Order Opiliones**

**Sclerosomatidae (1 species)**

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

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

Years Observed: 2018; 2020

**Status**

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

**Order Polydesmida**

## 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

#### Status

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

## Family Unknown

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

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

**Years Observed:** 2019; 2020

## Order Trombidiformes

## 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

## 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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**Family Unknown**

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

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

**Year Observed:** 2017

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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 acuminatus* (Acuminate Crayfish)

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2019

##### Status

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

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

##### *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

##### *Orconectes* (Orco Crayfish)

Identified and First Noted By: Stroud Water Research Center

Year Observed: 2018

### Order Isopoda



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**Oniscidae (1 species)**

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

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

**Year Observed:** 2018

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**Trachelipodidae (1 species)**

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

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

**Year Observed:** 2019

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## 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

##### 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

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## Zonitidae (1 species)

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

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

**Year Observed:** 2018

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## Order Unknown

## Arionidae (4 species)

### **Arion hortensis (Garden Slug)**

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

**Year Observed:** 2018

**Status**

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

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### ***Arion Subgenus Mesarion* Indet. #1 (Dusky Slug)**

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

**Year Observed:** 2018

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### ***Arion Subgenus Mesarion* Indet. #2 (Dusky Slug)**

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

**Year Observed:** 2018

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### ***Arion Subgenus Mesarion* Indet. #3 (Dusky Slug)**

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

**Year Observed:** 2018

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## 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

#### Status

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

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## Family Unknown

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

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

**Year Observed:** 2017

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## Order Unranked

## Pleuroceridae (1 species)

### *Pleuroceridae* Indet. #1 (Pleurocerid Snail)

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

**Year Observed:** 2020

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## *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

##### 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

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Worms

**Order Haplotaxida**

**Megascolecidae (1 species)**

***Amyntas agrestis* (Crazy Snake Worm)**

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

**Year Observed:** 2018

**Status**

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

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**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

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***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

[IUCN] International Union for the Conservation of Species. 2020. The IUCN Red List of Threatened Species. Version 2020-2. <https://www.iucnredlist.org>. Date accessed: 6/30/2020.

[PNHP] Pennsylvania Natural Heritage Program. 2020. Pennsylvania Natural Heritage Species and Natural Features List (<http://www.naturalheritage.state.pa.us/SpeciesFeatures.aspx>); Date accessed: 3/27/2020.

## Metadata

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