

A journal of world insect systematics

# INSECTA MUNDI

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1011

New state records for 33 species of round fungus beetles,  
small carrion beetles and mammal nest beetles  
(Coleoptera: Leiodidae) in Ohio, USA

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Date of issue: October 27, 2023

Center for Systematic Entomology, Inc., Gainesville, FL

**Karns KD. 2023.** New state records for 33 species of round fungus beetles, small carrion beetles and mammal nest beetles (Coleoptera: Leiodidae) in Ohio, USA. *Insecta Mundi* 1011: 1–8.

Published on October 27, 2023 by  
**Center for Systematic Entomology, Inc.**  
P.O. Box 141874  
Gainesville, FL 32614-1874 USA  
<http://centerforsystematicentomology.org/>

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# New state records for 33 species of round fungus beetles, small carrion beetles and mammal nest beetles (Coleoptera: Leiodidae) in Ohio, USA

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**Abstract.** New state records for 33 species of Leiodidae (Coleoptera) are reported from Ohio, with the majority of records from one locality in the southeastern portion of the state. This doubles the known members of the family in Ohio to 66 species in 20 genera.

**Key words.** Ohio coleopterists, fungivore, local biodiversity.

**ZooBank registration.** urn:lsid:zoobank.org:pub:DF3542D6-680B-4F0F-9D93-A30529720879

## Introduction

As part of an ongoing project through the Ohio Coleopterists Society to obtain records for a future checklist of the beetles of Ohio, the Leiodidae (Coleoptera) present an exceptional case. The family Leiodidae is represented by 38 genera and 382 species in North America north of Mexico (Peck and Newton 2017). In their annotated catalog of the Nearctic Leiodidae, Peck and Newton (2017) list 29 species of Leiodidae found to occur in Ohio, with an additional two species from Wheeler (1979) and two species from Karns (2019). Peck and Newton's (2017) catalog lists the states surrounding Ohio as having significantly higher documented records of Leiodidae (Indiana 39, Kentucky 55, Michigan 54, Pennsylvania 47, and West Virginia 36). The new Ohio state records presented herein bring the Ohio total to 66 species in 20 genera (Table 1), a clearer reflection of the diversity of the Leiodidae known to occur in the state.

## Materials and Methods

Representatives of the family Leiodidae that form the basis of this report were collected with large area flight intercept traps (FIT) operated year round, Lindgren funnel traps (LFT) baited with ethanol, a UV light trap, and from a mammal host. The main study area herein referred to as the author's cabin property (39°15.274'N, 82°21.390'W, 2 miles NE of Prattsville), consists of 9.7 hectares of privately held upland beech-maple hardwood forest in Vinton County, Ohio.

Traps were serviced weekly with all male specimens of Leiodidae extracted, the genitalia dissected, cleared, and placed in euparal on acetate strips which were placed on the pin with the mounted beetle. The evaluation of the aedeagus in all Leiodidae is of great utility in facilitating determination to species (Cooter and Barclay 2006; Peck and Cook 2013b) and is recommended by the author as a matter of course. Due to the difficulty in determining female specimens to species, only males were used for this report. Sample size is indicated by (n =). Materials reported in this study are deposited in the author's collection.

This report follows the systematics and taxonomy of Peck (1973, 2001, 2006), Wheeler (1979), Baranowski (1993), Peck and Stephan (1996), Peck and Cook (2002, 2009, 2013a, b), and Peck and Newton (2017).

**Table 1.** Checklist of Leiodidae known in Ohio based on Wheeler (1979), Peck and Newton (2017), and Karns (2019). New records presented herein are marked with an asterisk \*.

Subfamily	Tribe	Species
Coloninae		<i>Colon (Colon) arcum</i> Peck and Stephan
		<i>Colon (Myloechus) dentatum</i> LeConte*
		<i>Colon (Myloechus) forceps</i> Hatch*
		<i>Colon (Myloechus) hubbardi</i> Horn*
		<i>Colon (Myloechus) megasetosum</i> Peck and Stephan
		<i>Colon (Myloechus) monstrosus</i> Peck and Stephan*
		<i>Colon (Eurycolon) oblongum</i> Blatchley*
		<i>Colon (Myloechus) rectum</i> Hatch*
		<i>Colon (Myloechus) schwarzi</i> Hatch*
		<i>Colon (Striatocolon) thoracicum</i> Horn*
Leiodinae	Sogdini	<i>Hydnobius longidens</i> LeConte
		<i>Hydnobius pumilus</i> LeConte*
	Leiodini	<i>Anogdus obsoletus</i> (Melsheimer)*
		<i>Anogdus puritanus</i> (Fall)*
		<i>Anogdus tridens</i> Peck and Cook*
		<i>Cyrtusa subtestacea</i> (Gyllenhal)*
		<i>Isoplastus fossor</i> Horn*
		<i>Leiodes appalachiana</i> Baranowski*
		<i>Leiodes assimilooides</i> Baranowski*
		<i>Leiodes autumnalis</i> Baranowski*
		<i>Leiodes campbelli</i> Baranowski*
		<i>Leiodes collaris</i> (LeConte)*
		<i>Leiodes conferta</i> (LeConte)*
		<i>Leiodes grandipes</i> Baranowski*
		<i>Leiodes impressa</i> Baranowski*
		<i>Leiodes pygmaea</i> Baranowski*
		<i>Leiodes sorenseni</i> Baranowski*
		<i>Leiodes stephani</i> Baranowski*
		<i>Lionothus forticornis</i> Daffner*
		<i>Lionothus ulkei</i> Brown*
		<i>Zeadolopus egenus</i> (LeConte)*
		<i>Zeadolopus oklahomensis</i> Daffner*
	Pseudoliadini	<i>Colenis bifida</i> Peck
		<i>Colenis impunctata</i> (LeConte)
		<i>Colenis stephani</i> Peck
	Scotocryptini	<i>Aglyptinus laevis</i> (LeConte)
	Agathidiini	<i>Agathidium aristerium</i> Wheeler
		<i>Agathidium atronitens</i> Fall
		<i>Agathidium bushi</i> Miller and Wheeler
		<i>Agathidium dubitans</i> Fall
		<i>Agathidium exiguum</i> Melsheimer
		<i>Anisotoma basalis</i> (LeConte)
		<i>Anisotoma bifoveata</i> Wheeler
<i>Anisotoma blanchardi</i> (Horn)		

Subfamily	Tribe	Species
		<i>Anisotoma discolor</i> (Melsheimer)
		<i>Anisotoma expolita</i> Brown
		<i>Anisotoma geminata</i> (Horn)
		<i>Anisotoma obsoleta</i> (Horn)
		<i>Agathidium oniscoides</i> Beauvois
Cholevinae	Anemadini	<i>Dissochaetus oblitus</i> (LeConte)
		<i>Nemadus hornii</i> Hatch
		<i>Nemadus falli</i> Peck and Cook
		<i>Nemadus tenuitarsis</i> Jeannel
		<i>Nemadus triangulum</i> Jeannel
	Cholevini	<i>Catops alsiosus alsiosus</i> (Horn)*
		<i>Catops americanus</i> Hatch
		<i>Catops graciosus</i> (Blanchard)
		<i>Catops neomeridionalis</i> Peck and Cook*
		<i>Catops simplex</i> Say
		<i>Sciodrepoides latinotum</i> Peck and Cook
		<i>Sciodrepoides terminans</i> (LeConte)
		<i>Sciodrepoides watsoni</i> (Spence)
		<i>Prionochoeta opaca</i> (Say)
	Ptomaphagini	<i>Ptomaphagus (Adelops) ulkei</i> Horn*
Platypsyllinae		<i>Platypsyllus castoris</i> Ritsema*
		<i>Leptinus orientamericanus</i> Peck

## Results

### Subfamily Coloninae Horn, 1880

#### Genus *Colon* Herbst, 1797

***Colon (Myloechus) dentatum* LeConte. New State Record** ( $n = 9$ ): OHIO: Vinton County, author's cabin property from FIT: 7–14 May 2011(1), 14–21 May 2011(2), 22–29 April 2012(3), 4–12 May 2012(1), 20–27 April 2013(1), 27 April–4 May 2013(1).

***Colon (Myloechus) forceps* Hatch. New State Record** ( $n = 12$ ): OHIO: Vinton County, author's cabin property from FIT (except as noted): 14–21 May 2011(1), 6–13 April 2012(4) LFT, 13–21 April 2012(3), 4–12 May 2012(1), 25 May–1 June 2013(2), 2–9 August 2014(1).

***Colon (Myloechus) hubbardi* Horn. New State Record** ( $n = 18$ ): OHIO: Vinton County, author's cabin property from FIT: 14–21 May 2011(2), 11–26 June 2011(2), 6–13 April 2012(1), 13–21 April 2012(1), 4–12 May 2012(3), 12–19 May 2012(1), 11–18 May 2013(1), 25 May–1 June 2013(3), 1–8 June 2013(1), 22–29 June 2013(1), 6–12 June 2015(2).

***Colon (Myloechus) monstrosum* Peck and Stephan. New State Record** ( $n = 2$ ): OHIO: Vinton County, author's cabin property from FIT: 25 May–1 June 2013(1), 1–8 June 2013(1).

***Colon (Eurycolon) oblongum* Blatchley. New State Record** ( $n = 22$ ): OHIO: Vinton County, author's cabin property from FIT: 9–16 April 2011(1), 23–30 April 2011(1), 7–15 May 2011(3), 14–21 May 2011(3), 6–13 April 2012(2), 5–15 May 2012(4), 20–27 April 2013(1), 27 April–4 May 2013(3), 19–26 April 2014(1), 10–15 July 2015(1), 11–18 May 2018(1), 4–11 May 2019(1).

***Colon (Myloechus) rectum* Hatch. New State Record** ( $n = 9$ ): OHIO: Vinton County, author's cabin property from FIT: 13–21 April 2012(1), 5–15 May 2012(3), 26 April–4 May 2013(1), 4–11 May 2013(2), 25 May–1 June 2013(2).

***Colon (Myloechus) schwarzi* Hatch. New State Record** ( $n = 21$ ): OHIO: Vinton County, author's cabin property from FIT: 30 October–6 November 2011(1), 5–12 November 2011(1), 21–28 November 2011(5), 13–27 October 2012(1), 12–19 October 2013(1), 9–23 November 2013(3), 1–8 November 2014(3), 15–27 November 2014(2), 28 November–13 December 2014(1), 21 May–6 June 2015(1), 6–12 June 2015(1), 18–25 October 2015(1).

***Colon (Striatocolon) thoracicum* Horn. New State Record** ( $n = 20$ ): OHIO: Vinton County, author's cabin property from FIT: 17–24 November 2011(1), 7–14 October 2012(1), 28 October–4 November 2012(1), 4–16 November 2012(2), 9–23 November 2013(1), 15–22 December 2013(1), 15–22 March 2014(1), 24–31 May 2014(1), 16–27 November 2014(2), 6–20 December 2014(5), 20–27 December 2014(2), 24 January–7 February 2015(1), 22–27 November 2015(1).

### Subfamily Leiodinae Fleming, 1821

#### Tribe Sogdini Lopatin, 1961

#### Genus *Hydnobius* Schmidt, 1841

***Hydnobius pumilus* LeConte. New State Record** ( $n = 2$ ): OHIO: Vinton County, author's cabin property from FIT: 12–19 May 2012(1), 4–11 May 2019(1).

#### Tribe Leiodini Fleming, 1821

#### Genus *Anogdus* LeConte, 1866

***Anogdus obsoletus* (Melsheimer). New State Record** ( $n = 95$ ): OHIO: Vinton County, author's cabin property from FIT: 1–10 October 2011(1), 4–12 May 2012(1), 19–27 May 2012(1), 2–9 June 2012(3), 9–16 June 2012(4), 16–23 June 2012(1), 7–14 July 2012(2), 14–24 July 2012(1), 21–29 July 2012(1), 28 July–4 August 2012(7), 9–16 August 2012(4), 16–24 August 2012(2), 25 May–1 June 2013(1), 5–15 June 2013(6), 22–29 June 2013(1), 30 June–7 July 2013(1), 6–13 July 2013(3), 12–19 July 2013(3), 19–26 July 2013(5), 10–24 August 2013(2), 21–28 June 2014(2), 28 June–5 July 2014(1), 5–11 July 2014(1), 2–9 August 2014(1), 9–16 August 2014(2), 16–23 August 2014(2), 23–30 August 2014(5), 21 May–6 June 2015(2), 6–12 June 2015(7), 20–27 June 2015(1), 18–25 July 2015(3), 25–31 July 2015(4), 1–8 August 2015(2), 15–29 August 2015(1), 4–11 June 2016(1), 2–8 July 2016(1), 27 June–4 July 2017(3), 7–14 July 2018(1), 18–25 May 2019(1), 21–28 May 2022(1), 25 June–1 July 2022(2), 16–23 July 2022(1).

***Anogdus puritanus* (Fall). New State Record** ( $n = 1$ ): OHIO: Vinton County, author's cabin property from FIT: 7–14 July 2012(1). This record represents a significant range extension from the previously known distribution: **CANADA:** MB, ON, QC, **USA:** MA, NC, SC (Peck and Newton 2017).

***Anogdus tridens* Peck and Cook. New State Record** ( $n = 3$ ): OHIO: Lake County, 3.2 km NE Mentor, 41.6904N, 81.3202W, UV light trap, 23 July–6 August 2014(1) R. Freeborn; Miami County, 3.9 km NW Tipp City, 39.9809N, 84.2072W, 21 May–6 June 2014(1) R. Davis; Williams County, 3.8 km NNW Pulaski Wildlife Area, 41.5417N, 84.5262W, 3–17 July 2014 (1) C. Poe.

#### Genus *Cyrtusa* Erichson, 1842

***Cyrtusa subtestacea* (Gyllenhal). New State Record** ( $n = 1$ ): OHIO: Vinton County, author's cabin property from FIT: 13–27 October 2012(1).

#### Genus *Isoplastus* Horn, 1880

***Isoplastus fossor* Horn. New State Record** ( $n = 33$ ): OHIO: Vinton County, author's cabin property from FIT: 7–14 May 2011(1), 14–21 May 2011(2), 25 June–2 July 2011(1), 4–12 May 2012(2), 12–19 May 2012(1), 19–27 May 2012(3), 16–23 June 2012(1), 25 May–1 June 2013(5), 8–15 June 2013(5), 22–29 June 2013(1), 6–13 July

2013(3), 24–31 May 2014(2), 14–21 June 2014(1), 21 May–6 June 2015(1), 6–12 June 2015(1), 11–18 May 2018(1), 2–9 June 2018(1), 23–30 June 2018(1).

### Genus *Leiodes* Latreille, 1797

***Leiodes appalachiana* Baranowski. New State Record** ( $n = 2$ ): OHIO: Vinton County, author's cabin property from FIT: 7–15 May 2011(1), 5–17 July 2014(1).

***Leiodes assimiloides* Baranowski. New State Record** ( $n = 1$ ): OHIO: Vinton County, author's cabin property from FIT: 25 May–1 June 2013(1).

***Leiodes autumnalis* Baranowski. New State Record** ( $n = 6$ ): OHIO: Vinton County, author's cabin property from FIT: 9–16 October 2011(1), 22–29 October 2011(1), 13–27 October 2012(1), 9–23 November 2013(1), 13–27 September 2014(2). Baranowski (1993) describes *L. autumnalis* as a “rare and obviously very local species” with only four specimens examined from MA, NY, and VA.

***Leiodes campbelli* Baranowski. New State Record** ( $n = 15$ ): OHIO: Vinton County, author's cabin property from FIT: 1–8 October 2011(1), 1–10 October 2011(1), 19–27 May 2012(1), 23 September–7 October 2012(3), 7–14 October 2012(2), 14–27 October 2012(1), 11–18 May 2013(1), 28 May–1 June 2013(1), 8–16 June 2013(1), 21–28 June 2014(1), 27 September–5 October 2014(1), 6–12 June 2015(1).

***Leiodes collaris* (LeConte). New State Record** ( $n = 1$ ): OHIO: Vinton County, author's cabin property from FIT: 12–19 May 2012(1).

***Leiodes conferta* (LeConte). New State Record** ( $n = 2$ ): OHIO: Vinton County, author's cabin property from FIT: 15–27 November 2014(1), 3–17 January 2015(1). The eastern North American distribution for *L. conferta* is represented by the type specimen from Illinois and is presently known from three localities in Ontario and one in Quebec, Canada (Baranowski 1993).

Baranowski (1993) further suggests *L. conferta* has its activity period very late in the year. Specimens known to him were collected from October to December. The Ohio records herein support the cool season activity of this species, which may contribute to its apparent rarity in collections.

***Leiodes grandipes* Baranowski. New State Record** ( $n = 42$ ): OHIO: Vinton County, author's cabin property from FIT: 9–16 October 2011(1), 5–12 November 2011(2), 19–26 November 2011(1), 21–29 April 2012(1, teneral), 7–14 October 2012(2), 13–27 October 2012(2), 4–16 November 2012(4), 18–25 November 2012(3), 24 November–8 December 2012(2), 25 May–1 June 2013(5, teneral) 9–23 November 2013(1), 22–29 December 2013(1), 29 December–12 January 2013(1), 24–31 May 2014(2, teneral), 27 September–5 October 2014(1), 11–18 October 2014(2), 15–27 November 2014(1), 29 November–13 December(2), 6–20 December(1), 23 May–6 June 2015(1, teneral), 7–21 November 2015(3), 22–27 November 2015(3).

Baranowski (1993) lists the North American distribution of *L. grandipes* as: KY, NC, TN, VA, WV. Baranowski (1993) further states *L. grandipes* is “Restricted to the central Appalachian Mountains in North America”. The Ohio records herein represent the first apparent occurrence of this species outside a montane habitat. The Ohio records suggest *L. grandipes* has a peak activity period late September–January, with teneral specimens April–June.

***Leiodes impressa* Baranowski. New State Record** ( $n = 134$ ): OHIO: Vinton County, author's cabin property from FIT: 23–30 April 2011(1), 30 April–7 May 2011(1), 7–15 May 2011(1), 14–21 May 2011(13), 11–26 June 2011(1), 25 June–2 July 2011(1), 21–29 April 2012(1), 4–12 May 2012(9), 19–27 May 2012(8), 2–9 June 2012(8), 9–16 June 2012(4), 16–23 June (8), 7–14 July 2012(3), 21–29 July 2012(1), 28 July–4 August 2012(4), 26 April–4 May 2013(1), 4–11 May 2013(1), 11–18 May 2013(4), 18–25 May 2013(1), 28 May–1 June 2013(2), 1–8 June 2013(5), 8–15 June 2013(13), 30 June–7 July 2013(1), 6–13 July 2013(6), 12–19 July 2013(1), 27 July–2 August 2013(1), 10–17 May 2014(3), 31 May–14 June 2014(1), 21–28 June 2014(3), 28 June–5 July 2014(3), 15–29 November 2014(1), 6–12 June 2015(6), 20–27 June 2015(1), 27 June–4 July 2015(3), 18–25 May 2018(2), 9–16 June 2018(2), 15–22 June 2018(2), 23–30 June 2018(1), 18–25 May 2019(2), 1–8 June 2019(2), 9–16 April 2022(1), 4–12 June 2022(1). This is the most commonly encountered species in the study area.



***Leiodes pygmaea* Baranowski. New State Record** ( $n = 8$ ): OHIO: Vinton County, author's cabin property from FIT: 2–19 November 2011(2), 17–24 November 2011(1), 21–28 November 2011(1), 19–27 May 2012(1), 9–16 August 2012(1), 24 January–7 February 2015(1), 25–31 July 2015(1). The collection of *L. pygmaea* in Ohio represents a moderate range extension for this species previously known from: **CANADA:** ON. **USA:** NH, NY. (Peck and Newton 2017).

Baranowski (1993) states “This is probably a rare species” with the habitat unknown and likely overwintering as an adult.

***Leiodes sorenssoi* Baranowski. New State Record** ( $n = 3$ ): OHIO: Vinton County, author's cabin property from FIT: 14–21 September 2013(1), 12–19 October 2013(1), 25–31 July 2015(1).

***Leiodes stephani* Baranowski. New State Record** ( $n = 1$ ): OHIO: Vinton County, author's cabin property from a FIT: 8–15 June 2013(1).

### Genus *Lionothus* Brown, 1937

***Lionothus forticornis* Daffner. New State Record** ( $n = 96$ ): OHIO: Vinton County, author's cabin property from FIT: 7–15 May 2011(2), 14–21 May 2011(4), 25 June–2 July 2011(2), 13–27 August 2011(1), 6–12 April 2012(2), 21–29 April 2012(1), 4–12 May 2012(7), 5–16 May 2012(3), 19–27 May 2012(2), 2–9 June 2012(4), 9–16 June 2012(2), 16–23 June 2012(6), 23–30 June 2012(2), 7–14 July 2012(6), 14–24 July 2012(2), 21–29 July 2012(1), 28 July–4 August 2012(3), 16–24 August 2012(1), 25 May–1 June 2013(2), 8–15 June 2013(8), 22–29 June 2013(1), 30 June–7 July 2013(2), 6–13 July 2013(2), 12–18 July 2013(1), 19–26 July 2013(2), 10–24 August 2013(4), 14–21 September 2013(1), 28 September–5 October 2013(1), 21–28 June 2014(1), 16–23 August 2014(2), 21 May–6 June 2015(2), 6–12 June 2015(1), 4–10 July 2015(1), 7–14 July 2015(1), 1–8 August 2015(2), 18–25 June 2016(1), 2–8 July 2016(1), 18–25 May 2018(2), 26 May–2 June 2018(1), 23–30 June 2018(1), 7–14 July 2018(1), 8–15 June 2019(1), 13–21 July 2019(1), 3–11 August 2019(1), 25 June–1 July 2022(1).

***Lionothus ulkei* Brown. New State Record** ( $n = 5$ ): OHIO: Vinton County, author's cabin property from FIT: 5–16 May 2012(3), 7–14 July 2012(2). The Ohio records herein represent a moderate range extension for this species previously recorded from: **USA:** DC, FL, GA, MD, MS, OK, TX, VA (Peck and Newton 2017).

### Genus *Zeadolopus* Broun, 1903

***Zeadolopus egenus* (LeConte). New State Record** ( $n = 3$ ): OHIO: Athens County, Waterloo State Forest, 39 18.246N, 82 16.518W, LFT: 4–10 July 2015(1) K.D. Karns; Butler County, 3.8 km NNW of Sharonville, 39. 2998N, 84.4297W, 10–24 June 2014(1); Vinton County, author's cabin property from FIT: 28 July–4 August 2012(1).

***Zeadolopus oklahomensis* Daffner. New State Record** ( $n = 2$ ): OHIO: Vinton County, author's cabin property from FIT: 19–27 May 2012(1), 8–15 June 2013(1). The records herein represent a moderate range extension for this species previously recorded from: **USA:** AL, AR, FL, OK, TX, VA (Peck and Newton 2017).

## Subfamily Cholevinae Kirby, 1837

### Tribe Cholevini Kirby, 1837

#### Genus *Catops* Paykull, 1798

***Catops alsiosus alsiosus* (Horn). New State Record** ( $n = 1$ ): OHIO: Vinton County, author's cabin property from a FIT: 31 March–6 April 2018(1).

***Catops neomeridionalis* Peck and Cook. New State Record** ( $n = 8$ ): OHIO: Vinton County, author's cabin property from FIT: 13–27 October 2012(1), 4–16 November 2012(3), 22 March–5 April 2014(1), 18–25 May 2019(1), 2–9 November 2019(2).



## Tribe Ptomaphagini Jeannel, 1911

### Genus *Ptomaphagus* Hellwig, 1795

*Ptomaphagus (Adelops) ulkei* Horn. **New State Record** ( $n = 27$ ): OHIO: Vinton County, author's cabin property from FIT: 9–16 April 2011(2), 6–13 August 2011(3), 10–17 September 2011(1), 23 March–1 April 2012(2), 6–13 April 2012(5), 13–21 April 2012(5), 4–12 May 2012(4), 5–15 May 2012(1), 6–12 June 2015(3), 28 May–4 June 2016(1).

## Subfamily Platypsyllinae Ritsema, 1869

### Genus *Platypsyllus* Ritsema, 1869

*Platypsyllus castoris* Ritsema. **New State Record** ( $n = 22$ ): OHIO: Perry County, Bristol Farm, from trapped American beaver, *Castor canadensis* Kuhl (MAMMALIA: CASTORIDAE): 4 December 1998 (22). Specimens of this interesting ectoparasitic beetle were hand collected from a recently dead beaver. Peck (2006) states “the full distribution of the beetle is probably the same as that of the host”.

## Conclusions

The Leiodidae present an interesting case illustrating our poor understanding of the beetle fauna in Ohio. Even though this study doubled the number of reported species, it is based primarily on sampling of a single locality. Ohio has many other regions and habitats that are likely under sampled with unknown faunas. Additional new records for Ohio are anticipated as appropriate surveys are made in other areas.

## Acknowledgments

The author thanks the Ohio Department of Natural Resources Division of Forestry, Parks and Recreation and Wildlife Areas for their continued support of the Ohio Coleopterists Society and for providing permits for the sampling of Coleoptera diversity on property under their care. Additional thanks go to Robert A. Androw (Carnegie Museum of Natural History), Robert L. Otto (Shawano, Wisconsin), and editorial staff for their review and valuable input on the manuscript.

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**Received August 31, 2023; accepted September 21, 2023.**

**Review editor Paul Skelley.**