

A journal of world insect systematics

INSECTA MUNDI

0871

Checklist of Dermestidae (Insecta: Coleoptera: Bostrichoidea)
of the United States

Jiří Háva

Forestry and Game Management Research Institute
Strnady 136, CZ-156 00 Praha 5 - Zbraslav, Czech Republic

Andreas Herrmann

Bremervörder Strasse 123, 21682 Stade, Germany

Date of issue: June 25, 2021

Center for Systematic Entomology, Inc., Gainesville, FL

Háva J, Herrmann A. 2021. Checklist of Dermestidae (Insecta: Coleoptera: Bostrichoidea) of the United States. *Insecta Mundi* 0871: 1–16.

Published on June 25, 2021 by
Center for Systematic Entomology, Inc.
P.O. Box 141874
Gainesville, FL 32614-1874 USA
<http://centerforsystematicentomology.org/>

INSECTA MUNDI is a journal primarily devoted to insect systematics, but articles can be published on any non-marine arthropod. Topics considered for publication include systematics, taxonomy, nomenclature, checklists, faunal works, and natural history. *Insecta Mundi* will not consider works in the applied sciences (i.e. medical entomology, pest control research, etc.), and no longer publishes book reviews or editorials. *Insecta Mundi* publishes original research or discoveries in an inexpensive and timely manner, distributing them free via open access on the internet on the date of publication.

Insecta Mundi is referenced or abstracted by several sources, including the Zoological Record and CAB Abstracts. *Insecta Mundi* is published irregularly throughout the year, with completed manuscripts assigned an individual number. Manuscripts must be peer reviewed prior to submission, after which they are reviewed by the editorial board to ensure quality. One author of each submitted manuscript must be a current member of the Center for Systematic Entomology.

Guidelines and requirements for the preparation of manuscripts are available on the *Insecta Mundi* website at <http://centerforsystematicentomology.org/insectamundi/>

Chief Editor: David Plotkin, insectamundi@gmail.com

Assistant Editor: Paul E. Skelley, insectamundi@gmail.com

Layout Editor: Robert G. Forsyth

Editorial Board: Davide Dal Pos, Oliver Keller, M. J. Paulsen

Founding Editors: Ross H. Arnett, Jr., J. H. Frank, Virendra Gupta, John B. Heppner, Lionel A. Stange, Michael C. Thomas, Robert E. Woodruff

Review Editors: Listed on the *Insecta Mundi* webpage

Printed copies (ISSN 0749-6737) annually deposited in libraries

Florida Department of Agriculture and Consumer Services, Gainesville, FL, USA

The Natural History Museum, London, UK

National Museum of Natural History, Smithsonian Institution, Washington, DC, USA

Zoological Institute of Russian Academy of Sciences, Saint-Petersburg, Russia

Electronic copies (Online ISSN 1942-1354) in PDF format

Archived digitally by Portico

Florida Virtual Campus: <http://purl.fcla.edu/fcla/insectamundi>

University of Nebraska-Lincoln, Digital Commons: <http://digitalcommons.unl.edu/insectamundi/>

Goethe-Universität, Frankfurt am Main: <http://nbn-resolving.de/urn/resolver.pl?urn:nbn:de:hebis:30:3-135240>

Copyright held by the author(s). This is an open access article distributed under the terms of the Creative Commons, Attribution Non-Commercial License, which permits unrestricted non-commercial use, distribution, and reproduction in any medium, provided the original author(s) and source are credited. <http://creativecommons.org/licenses/by-nc/3.0/>

Checklist of Dermestidae (Insecta: Coleoptera: Bostrichoidea) of the United States

Jiří Háva

Forestry and Game Management Research Institute
Strnady 136, CZ-156 00 Praha 5 - Zbraslav, Czech Republic
jh.dermestidae@volny.cz
<https://orcid.org/0000-0001-8076-9538>

Andreas Herrmann

Bremervörder Strasse 123, 21682 Stade, Germany
herrmann@coleopterologie.de

Abstract. A checklist of Dermestidae (Coleoptera: Bostrichoidea) of the United States of America is provided. It comprises 171 valid species belonging to 25 different genera, also 6 fossil species and 41 new state records.

Key words. New records, United States of America.

ZooBank registration. urn:lsid:zoobank.org:pub:CBB09355-C9A6-400A-A1AF-E1FD0631D3E7

Introduction

Dermestidae is a family of Coleoptera which is commonly referred to as skin beetles. Other common names include larder beetle, hide or leather beetles, carpet beetles, and khapra beetles. There are approximately 1705 species worldwide (Háva 2015a, 2020). The last checklist of the dermestid species occurring in the Nearctic region (Canada and U.S.A.) was published by Beal (2003), with exception of the Hawaiian Islands. However, he had conducted studies on the Hawaiian Dermestidae a few years earlier (Beal 1991, 2000). A checklist of beetles from Canada including Alaska was recently published (Bousquet et al. 2013), a checklist of Rhode and Block Islands was published by Sikes (2002, 2003, 2004) and currently several records were actualized by the “World Catalogue of Dermestidae” (Háva 2015a, 2020). In order to continue at least partly the great and impressive work of Beal we herewith provide an actual checklist as an overview about the dermestid fauna of the U.S.A. It goes without saying that such an overview depends much on the co-operation with the owners and curators of the relevant entomological collections, and fortunately most of them have helped us in a very friendly and generous way. Nevertheless, all such lists will become outdated the day after publishing, therefore we intend to update the checklist in frequent articles of a series titled “New faunistic records and remarks on Dermestidae (Coleoptera)”. For this aim, any faunistic additions or corrections would be very welcome to us, as well as any comments, and contacts in this respect. Additionally, we want to point out that some records are based only on stock lists provided by collections, e.g. by an online list provided on a museum’s homepage. In such cases not all specimens could be checked by us.

The present checklist comprises 171 valid species belonging to 25 different genera (Fig. 1), and also includes six fossil species and 41 new state records (Table 1).

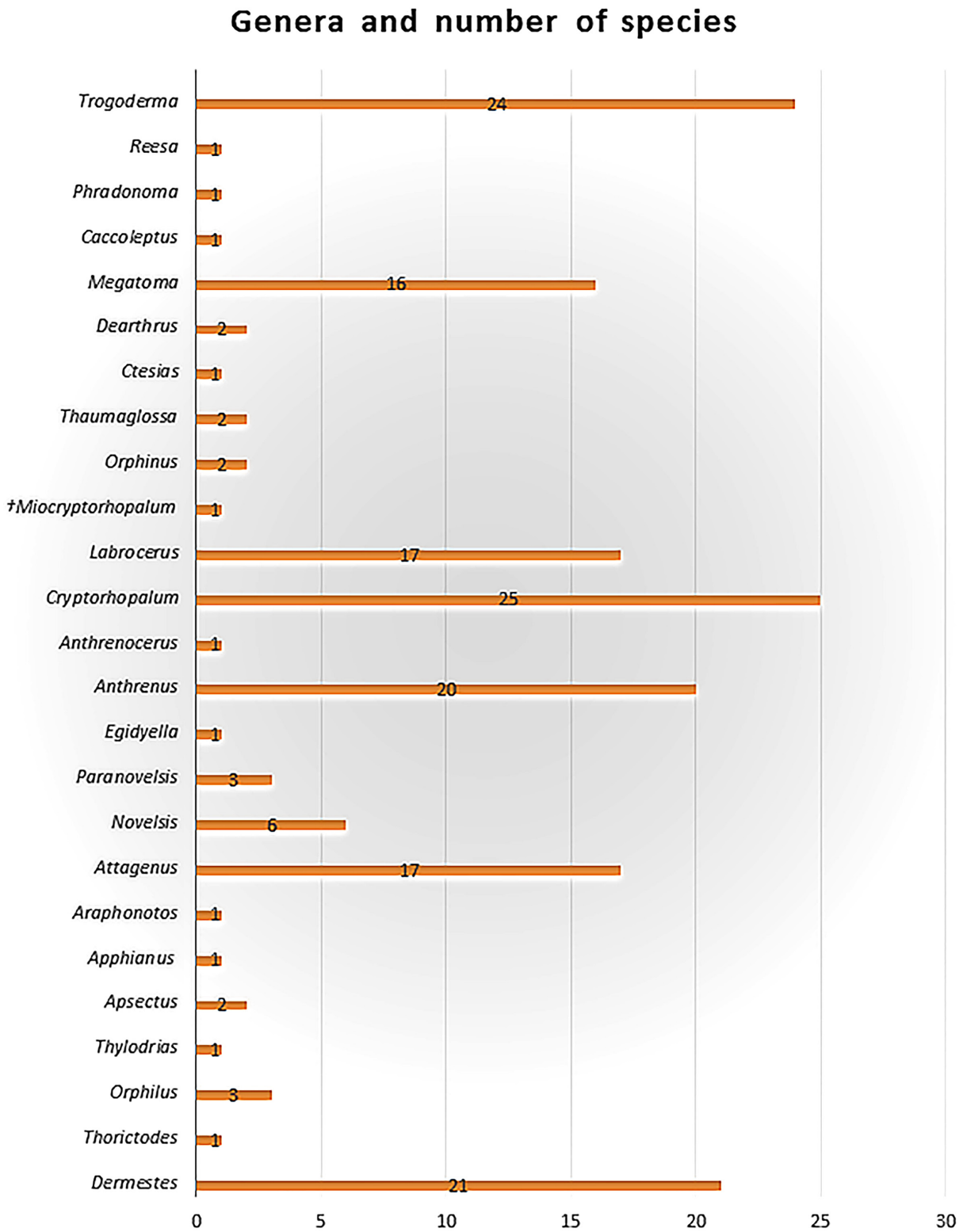


Figure 1. Genera and number of species of Dermestidae in the USA.

Table 1. New Dermestidae state records. Species are listed in the order they appear in the checklist.

| Species | US state | Deposition | Remarks or localities | Identifier |
|---|----------|------------|--|-------------|
| <i>Dermestes nidum</i> Arrow, 1915 | DE | UDCC | not published by a printed paper | UDCC |
| <i>Dermestes nidum</i> Arrow, 1915 | MA | UMEC | not published by a printed paper | UMEC |
| <i>Dermestes peruvianus</i> Laporte de Castelnaud, 1840 | MA | UMEC | not published by a printed paper | UMEC |
| <i>Dermestes pulcher</i> LeConte, 1854 | OH | UDCC | not published by a printed paper | UDCC |
| <i>Dermestes pulcher</i> LeConte, 1854 | OK | OMNH, TAMU | not published by a printed paper | OMNH, TAMU |
| <i>Dermestes caninus mannerheimi</i> LeConte, 1854 | IN | AHEC | Knox County | A. Herrmann |
| <i>Dermestes fasciatus</i> LeConte, 1854 | MN | UMSP | not published by a printed paper | UMSP |
| <i>Dermestes marmoratus</i> Say, 1823 | MN | UMSP | not published by a printed paper | UMSP |
| <i>Dermestes rattus rattus</i> LeConte, 1854 | WI | JHAC | Kenosha Co., Carol Beach, Chiwaukee Prairie | J. Háva |
| <i>Dermestes talpinus</i> Escholtz in Mannerheim, 1843 | MA | UMEC | not published by a printed paper | UMEC |
| <i>Dermestes talpinus</i> Escholtz in Mannerheim, 1843 | WA | FSCA | Whitman Co. | J. Háva |
| <i>Dermestes talpinus</i> Escholtz in Mannerheim, 1843 | MN | UMSP | not published by a printed paper | UMSP |
| <i>Dermestes talpinus</i> Escholtz in Mannerheim, 1843 | NE | UNSM | not published by a printed paper | UNSM |
| <i>Dermestes undulatus</i> Brahm, 1790 | MN | UMSP | not published by a printed paper | UMSP |
| <i>Orphilus ater</i> Erichson, 1846 | MS | AHEC | Winston, Noxubee; Starkville, Oktibbeha | R.S.Beal |
| <i>Orphilus ater</i> Erichson, 1846 | OK | OMNH, TAMU | not published by a printed paper | OMNH, TAMU |
| <i>Orphilus ater</i> Erichson, 1846 | TX | AHEC | Los Maples, Bandera; Brazos | A. Herrmann |
| <i>Apsectus araneorum</i> Beal, 1959 | FL | FSCA | Alachua Co., Gainesville, U.F.Campus, Surge Area | J. Háva |
| <i>Thylodrias contractus</i> Motschulsky, 1839 | MN | UMSP | not published by a printed paper | UMSP |
| <i>Thylodrias contractus</i> Motschulsky, 1839 | MO | CNC | not published by a printed paper | CNC |
| <i>Attagenus fasciatus</i> (Thunberg, 1795) | TX | TAMU | not published by a printed paper | TAMU |
| <i>Attagenus pellio</i> (Linnaeus, 1758) | CT | MZLU | not published by a printed paper | MZLU |
| <i>Attagenus schaefferi hypar</i> Beal, 1970 | OK | AHEC | Latimer Co. | A. Herrmann |
| <i>Attagenus unicolor japonicus</i> Reitter, 1877 | OK | TAMU | not published by a printed paper | TAMU |
| <i>Novelsis athlophora</i> Beal, 1954 | OR | TAMU | not published by a printed paper | TAMU |
| <i>Novelsis hornii</i> (Jayne, 1882) | OK | OSEC, TAMU | not published by a printed paper | OSEC, TAMU |
| <i>Paranovelsis aequalis</i> (Sharp, 1902) | NC | AHEC | Charlotte, Mecklenburg Co | A. Herrmann |

| Species | US state | Deposition | Remarks or localities | Identifier |
|--|----------|------------|---|-------------|
| <i>Paranovelsis varicolor</i> (Jayne, 1882) | NY | BMSC | not published by a printed paper | BMSC |
| <i>Paranovelsis varicolor</i> (Jayne, 1882) | NV | KSPC | Clark Co., Las Vegas | J. Háva |
| <i>Anthrenus coloratus</i> Reitter, 1881 | NC | AHEC | Charlotte, Mecklenburg Co. | A. Herrmann |
| <i>Cryptorhopalum aspilon</i> Beal, 1985 | NM | AHEC | Santa Fe County, NM 475/NM 590 | A. Herrmann |
| <i>Cryptorhopalum filitarse</i> Casey, 1900 | AZ | AHEC | Mohave, Colorado City, Sandy Hill | A. Herrmann |
| <i>Cryptorhopalum haemorrhoidale</i> (LeConte, 1824) | FL | KSPC, JHAC | Santa Rosa Co., 2 miles N Munson | J. Háva |
| <i>Cryptorhopalum pruddeni</i> Casey, 1900 | FL | KSPC | Hernando Co., 8 miles NE Brooksville | J. Háva |
| <i>Cryptorhopalum ruficorne</i> LeConte, 1854 | DE | AHEC | New Castle County, Newark, Iron Hill Park | A. Herrmann |
| <i>Megatoma variegata</i> (Horn, 1875) | ME | UNHP | not published by a printed paper | UNHP |
| <i>Trogoderma ornatum</i> (Say, 1825) | DE | AHEC | New Castle County, Newark, Iron Hill Park | A. Herrmann |
| <i>Trogoderma simplex</i> Jayne, 1882 | MD | FSCA | P.G. Co., Calverton | J. Háva |
| <i>Trogoderma sternale aspericolle</i> Casey, 1900 | DE | AHEC | New Castle County, Brookside; New Castle County, Newark; New Castle County, Edgemoor; New Castle County, Newark, Glasgow Park | A. Herrmann |
| <i>Trogoderma sternale aspericolle</i> Casey, 1900 | WV | AHEC | Marshall County, Glen | A. Herrmann |
| <i>Trogoderma versicolor</i> (Creutzer, 1799) | DE | UDCC | not published by a printed paper | UDCC |

Materials and Methods

The checklist contains only valid names without synonymy; all synonymies are listed online by Háva (2020).

The checklist is mainly based on literature data (Britton 1935; Zappe 1935; Blackwelder 1945; Hinton 1945; Löding 1945; Hatch 1962; Háva et al. 2008; Hagstrum and Subramanyam 2009; Majka et al. 2011; Háva and Thomas 2012; Olson et al. 2013; Háva 2015a–c; Háva and Brown 2015; Háva and Herrmann 2017, 2019a,b; Klimaszewski et al. 2017; Marché 2017; Holloway et al. 2020; DiGirolomo and Blackington 2021) and examination of relevant material deposited in institutional and private collections. Specimens were examined from the following collections:

| | |
|------|--|
| ABS | Archbold Biological Station, Lake Placid, Florida, U.S.A. |
| AHEC | Andreas Herrmann, Private collection, Stade, Germany |
| ANSP | Academy of Natural Sciences, Philadelphia, Pennsylvania, U.S.A. |
| BMSC | Buffalo Museum of Science, Buffalo, New York, U.S.A. |
| BPBM | Bernice P. Bishop Museum, Honolulu, Hawaii, U.S.A. |
| CAS | California Academy of Science, San Francisco, California, U.S.A. |
| CIDA | Albertson College of Idaho, Orma J. Smith Museum of Natural History, Caldwell, Idaho, U.S.A. |
| CMNH | Carnegie Museum of Natural History, Pittsburgh, Pennsylvania, U.S.A. |
| CNC | Canadian National Collection of Insects, Arachnids and Nematodes, Ottawa, Ontario, Canada |
| CUAC | Clemont University Arthropod Collection, Clemson, South Carolina, U.S.A. |
| ELMF | Maine Forest Service, Augusta, Maine, U.S.A. |

| | |
|------|---|
| FMNH | Field Museum of Natural History, Chicago, Illinois, U.S.A. |
| FSCA | Florida State Collection of Arthropods, Gainesville, Florida, U.S.A. |
| ISUI | Iowa State University, Ames, Iowa, U.S.A. |
| JCPC | Janet Ciegler, private collection, West Columbia, South Carolina, U.S.A. |
| JHAC | Jiří Háva, Private Entomological Laboratory and Collection, Prague-west, Czech Republic |
| KSPC | Kyle Schnepf, private collection, Gainesville, Florida, U.S.A. |
| LSAM | Louisiana State Arthropod Museum, Baton Rouge, Louisiana, U.S.A. |
| MCZC | Museum of Comparative Zoology, Harvard University, Cambridge, Massachusetts, U.S.A. |
| MSUC | Michigan State University Collection, East Lansing, Michigan, U.S.A. |
| MZLU | Museum of Zoology, Lund University, Lund, Sweden |
| OMNH | Oklahoma Museum of Natural History, University of Oklahoma, Norman, Oklahoma, U.S.A. |
| OSAC | Oregon State University, Corvallis, Oregon, U.S.A. |
| OSEC | K. C. Emerson Museum, Oklahoma State University, Stillwater, Oklahoma, U.S.A. |
| OSUC | Ohio State University, Columbus, Ohio, U.S.A. |
| TAMU | Texas A & M University, College Station, Texas, U.S.A. |
| UCMC | University of Colorado Museum, Boulder, Colorado, U.S.A. |
| UCRC | Entomology Research Museum, University of California, Riverside, California, U.S.A. |
| UDCC | University of Delaware, Newark, Delaware, U.S.A. |
| UMEC | University of Massachusetts, Amherst, Massachusetts, U.S.A. |
| UMSP | University of Minnesota, St. Paul, Minnesota, U.S.A. |
| UNHP | University of New Hampshire - Insects and Arachnids, Durham, New Hampshire, U.S.A. |
| UNSM | University of Nebraska State Museum, Lincoln, Nebraska, U.S.A. |
| VMNH | Virginia Museum of Natural History, Martinsville, Virginia, U.S.A. |
| WVDA | West Virginia Department of Agriculture, Charleston, West Virginia, U.S.A. |
| WKUC | Western Kentucky University, Bowling Green, Kentucky, U.S.A. |

The following abbreviations are used for US states (Fig. 2):

| | | | |
|----|----------------------|----|-----------------------------------|
| AL | Alabama | MN | Minnesota |
| AK | Alaska | MS | Mississippi |
| AZ | Arizona | MO | Missouri |
| AR | Arkansas | MT | Montana |
| CA | California | NE | Nebraska |
| CO | Colorado | NV | Nevada |
| CT | Connecticut | NH | New Hampshire |
| DC | District of Columbia | NJ | New Jersey |
| DE | Delaware | NM | New Mexico |
| FL | Florida | NY | New York |
| GA | Georgia | NC | North Carolina |
| HI | Hawaii | ND | North Dakota |
| ID | Idaho | OH | Ohio |
| IL | Illinois | OK | Oklahoma |
| IN | Indiana | OR | Oregon |
| IA | Iowa | PA | Pennsylvania |
| KS | Kansas | RI | Rhode Island (incl. Block Island) |
| KY | Kentucky | SC | South Carolina |
| LA | Louisiana | SD | South Dakota |
| ME | Maine | TN | Tennessee |
| MD | Maryland | TX | Texas |
| MA | Massachusetts | UT | Utah |
| MI | Michigan | VT | Vermont |



Figure 2. Map of the United States.

| | | | |
|----|---------------|----|-----------|
| VA | Virginia | WI | Wisconsin |
| WA | Washington | WY | Wyoming |
| WV | West Virginia | | |

The following abbreviations and notations are also used in the checklist:

| | | | |
|-----|----------------------|---|------------------|
| COS | cosmopolitan species | i | introduced |
| EU | Europe | † | fossil species |
| HOL | Holarctic | * | new state record |
| PAL | Palaearctic | | |

Checklist of Species

Subfamily Dermestinae Latreille, 1804

Tribe Dermestini Latreille, 1804

1. *Dermestes* Linnaeus, 1758

The genus is distributed worldwide and comprises 91 species in 4 subgenera (Háva 2015a, 2020).

Dermestes (s. str.)

- Dermestes ater* DeGeer, 1774 AL AZ CA CO CT DE FL GA LA ME MD MI MN NE
NH NJ NV OK PA RI SC TX VA WA WI; **COS**
- Dermestes haemorrhoidalis* Küster, 1852 CA IL KY MI TX WI; **COS**
- Dermestes lardarius* Linnaeus, 1758 AL AK AZ AR CA CO CT DE FL GA HI IA ID IL IN
KS KY LA ME MD MA MI MN MO MS MT NC ND
NE NH NJ NM NV NY OH OK PA RI SC SD TN TX
UT VA VT WV WI WY; **COS**
- Dermestes nidum* Arrow, 1915 AL CA CT DE* FL GA IL IN MA* MN NM NY OH
OK RI TX VA WI WV
- Dermestes peruvianus* Laporte de Castelnau, 1840 CT FL IN KS NY MA* WI; **COS**
- Dermestes pulcher* LeConte, 1854 IA IL IN KS NH NY OH* OK* PA TX WI
- Dermestes reductus* Kalík, 1952 AL MN ND
- Dermestes signatus* LeConte, 1874 AK AZ CA CO ID IL MA MO NE NM NV OR WA

Dermestes (*Dermestinus*) Zhantiev, 1976

- Dermestes caninus caninus* Germar, 1824 AL AZ AR CA CO CT DE FL GA HI IA IL IN KS KY
LA MA MD ME MI MN MO MS MT NC ND NE NH
NJ NM NV NY OH OK PA RI SC SD TN TX UT VA
VT WI WV WY
- Dermestes caninus mannerheimi* LeConte, 1854 CA ID IN* NM OR TX WA
- Dermestes carnivorus* Fabricius, 1775 AL AZ CA CO CT FL HI TX; **COS**
- Dermestes fasciatus* LeConte, 1854 AZ CA CO IA ID IL KA MI MN* MT NE NM ND OR
SD UT WA WI WY
- Dermestes frischii* Kugelann, 1792 AL AR AZ DE FL GA HI IA ID IL IN KS KY LA MA
MD ME MI MN MO MS MT NC ND NE NH NJ NM
NV NY OH OK OR PA RI SC SD TN TX UT VA VT
WA WI WV WY; **COS**
- Dermestes maculatus* DeGeer, 1774 AL AR CA CO CT DE FL GA HI IL IA ID IN KS KY LA
MA MD ME MI MN MO MS MT NC ND NE NH NJ
NM NV NY OH OK OR PA RI SC SD TN TX UT VA
VT WA WV WI; **COS**
- Dermestes marmoratus* Say, 1823 AL AZ CA CO CT ID IA KS MN* MS MT NE ND NM
NV OK OR SC SD TX WA WY UT
- Dermestes rattus rattus* LeConte, 1854 AL CA CO ID MT OH OR SD UT WA WI* WY
- Dermestes rattus tristis* Fall, 1897 CA ID OR WA WY
- Dermestes sardous* Küster, 1846 CA; **PAL**
- Dermestes talpinus* Escholtz in Mannerheim, 1843 AL AK AZ CA CO CT ID MA* MN* MT NE* NH NY
OH OR RI TX UT WA* WI WY
- Dermestes undulatus* Brahm, 1790 CO DE ID IL IN MA ME MN* NC NH NJ NY OR RI
WA WI WV; **HOL**

Dermestes (incertae sedis)

†*Dermestes tertiaris* Wickham, 1912 CO (Oligocene: Florissant)

Subfamily Thorictinae Agassis, 1846
Tribe Thaumaphrastini Anderson, 1949

2. *Thorictodes* Reitter, 1875

The genus currently comprises 4 species (Háva 2015a, 2020).

Thorictodes heydeni Reitter, 1875 CA HI NE NV TX; COS

Subfamily Orphilinae LeConte, 1861
Tribe Orphilini LeConte, 1861

3. *Orphilus* Erichson, 1846

The genus currently comprises 7 species distributed in the Holarctic Region (Háva 2015a, 2020).

Orphilus ater Erichson, 1846 AL AR DE FL GA IL IN IO KY MA ME MI MD MN
 MS* NE NC NH NJ NV NY OH OK* ON PA SC SD
 TN TX* VA WI WV

†*Orphilus dubius* Wickham, 1912 CO (Oligocene: Florissant)

Orphilus subnitidus LeConte, 1861 AZ CA CO ID NE NM NV OR SD UT WA WY

Subfamily Trinodinae Casey, 1900
Tribe Thylodriini Semenov-Tian-Shanskiy, 1909

4. *Thylotrias* Motschulsky, 1839

The genus currently comprises only one cosmopolitan species (Háva 2015a, 2020).

Thylotrias contractus Motschulsky, 1839 CA CP DE FL HI IL IN IA MA ME MI MN* MO* NE
 NC NJ NY OH OK PA RI TX WI; COS

Tribe Trinodini Casey, 1900

5. *Apsectus* LeConte, 1854

The genus currently comprises 10 species distributed in Nearctic and Neotropical Regions (Háva 2015a, 2020).

Apsectus araneorum Beal, 1959 AZ FL* UT

Apsectus hispidus (Melsheimer, 1844) FL MD TX

Subfamily Attageninae Laporte de Castelnau, 1840
Tribe Apphianini Háva in Zahradník and Háva, 2014

6. *Apphianus* Beal, 2005

The genus currently comprises only one species (Háva 2015a, 2020).

Apphianus yuccae Beal, 2005 CA

Tribe Attagenini Laporte de Castelnau, 1840

7. *Araphonotos* Beal and Kadej, 2008

The genus currently comprises only one species (Háva 2015a, 2020).

Araphonotos sabulorum (Beal, 1984) CA NV

8. *Attagenus* Latreille, 1802

The genus is distributed worldwide and comprises 249 species in 3 subgenera (Háva 2015a, 2020).

***Attagenus* (*Aethriostoma* Motschulsky, 1858)**

†*Attagenus turonianensis* Peris and Háva, 2016 NJ (Turonian amber)

Attagenus undulatus (Motschulsky, 1858). HI

***Attagenus* (s. str.)**

Attagenus bicolor Harold, 1868. AZ CO IA NV NM UT WI WY

Attagenus brunneus Faldermann, 1835 AL AR AZ CA CO CT DE FL GA HI IL IA ID IN KS
KY LA MA ME MD MI MN MO NC ND NE NH NJ
NM NV NY OH OK OR PA RI SC SD TN TX UT VA
VT WA WI WV WY

Attagenus cyphonoides Reitter, 1880 AL AZ CA FL KS NM NV; **COS**

Attagenus fasciatus (Thunberg, 1795) AZ CA FL HI IN NY TX*; **COS**

Attagenus inaguai Háva, 2011. FL

Attagenus lobatus Rosenhauer, 1856 MI NY; **HOL**

Attagenus pellio (Linnaeus, 1758). CT* KY MA ME MI NH NJ NY RI WI; **COS**

Attagenus rufipennis rufipennis LeConte, 1859 AZ CA IN NM OR TX UT WA

Attagenus rufipennis nigripes Casey, 1916. CA

Attagenus schaefferi hypar Beal, 1970 AZ CA ID IL MT NV OK* OR WA WV

Attagenus schaefferi spurcus LeConte, 1854 AZ CA NM

Attagenus unicolor unicolor (Brahm, 1791). AL AR AZ CA CO CT DE FL GA IA ID IL IN KS LA
MA MD ME NE NC NH NJ NM NY OH OK OR PA
RI SC SD TN TX UT WA WI WV WY; **COS**

Attagenus unicolor japonicus Reitter, 1877 CO ID LA NV MI MT ND NV OK* OR SD UT WA
WI WY; **HOL**

***Attagenus* (*incertae sedis*)**

†*Attagenus aboriginalis* Wickham, 1913 CO (Oligocene)

†*Attagenus sopitus* Scudder, 1900. CO (Oligocene)

9. *Novelsis* Casey, 1900

The genus is distributed in the Nearctic Region and comprises 6 species (Háva 2015a, 2020).

Novelsis andersoni Beal, 1954 AZ CA UT

Novelsis athlophora Beal, 1954 ID OR* WA WY

Novelsis hornii (Jayne, 1882) AZ CA CO NM OK* TX

Novelsis picta Casey, 1900 AZ CA NV

Novelsis timia Beal, 1954 AZ CA

Novelsis uteana Casey, 1900 AZ CA NE NM NV TX UT

10. *Paranovelsis* Casey, 1900

The genus is distributed in the Holarctic Region and comprises 22 species (Háva 2015a, 2020).

Paranovelsis aequalis (Sharp, 1902) DE MD NC* OK PA TX VA WV; introduced

Paranovelsis perplexus (Jayne, 1882) CA ID MT NV OR WA

Paranovelsis varicolor (Jayne, 1882). AZ CA NM NV* NY* TX WV

Tribe Egidyellini Semenov-Tian-Shanskiy, 1914

11. *Egidyella* Reitter, 1899

The genus is distributed in the Holarctic Region and comprises 2 species (Háva 2015a, 2020).

Egidyella arcana Beal and Zhantiev, 2001 CA

Subfamily Megatominae Leach, 1815

Tribe Anthrenini Gistel, 1848

Subtribe Anthrenina Gistel, 1848

12. *Anthrenus* Geoffroy, 1762

The genus currently comprises 277 species and is distributed worldwide (Háva 2015a, 2020).

Anthrenus (*Anthrenodes* Chobaut, 1898)

Anthrenus omoi Beal, 1998 AZ

Anthrenus (*Anthrenops* Reitter, 1881)

Anthrenus coloratus Reitter, 1881 AZ CA DE FL ID IL IN MD MI NC* NV TX UT VA

Anthrenus (s. str.)

Anthrenus chiton Beal, 1998 AZ CA CO TX

Anthrenus flavipes flavipes LeConte, 1854. AL AZ AR CA CO CT DE FL GA HI IA ID IL IN IA KS
KY LA MA MD ME MI MN MO MT NC ND NE NH
NJ NM NV NY OH OK OR PA SC SD TN TX UT VA
VT WA WV WI WY; **COS**

Anthrenus fucosus Beal, 1998 AZ

Anthrenus isabellinus Küster, 1848. DE VA; **i**

Anthrenus lepidus LeConte, 1854. AL AZ CA CO ID MA MT NM NV OR UT WA WY

Anthrenus maculatus Fabricius, 1798 AZ CA CO NM NV TX UT

Anthrenus oceanicus Fauvel, 1903 HI (Oahu)

Anthrenus pimpinellae Fabricius, 1775 DE NJ VA; **i**

Anthrenus pulaskii Kadej, 2011. CA

Anthrenus scrophulariae scrophulariae (Linnaeus, 1758) . AL CO CT DE HI IA ID IL IN KS ME MI MN MO MT
NC NE NH NJ NV NY OH OR RI UT VT WA WI WV;
COS

Anthrenus sophonisba Beal, 1998 AZ CA ID NV UT

Anthrenus thoracicus Melsheimer, 1844 AL AR CA CO IL IN MA MI MN MO MT OH OK PA
SC TX

Anthrenus umbra Beal, 1998 AZ

Anthrenus (*Florilinus* Mulsant and Rey, 1868)

Anthrenus blanci Beal, 1998 CA OR WA

Anthrenus castaneae Melsheimer, 1844. AL AR CO CT FL GA IL IN KS KY ME MN MO MT
NE NC NH NJ NY OH OK OR PA RI SC TN TX VA
VT WA WI WV

Anthrenus museorum (Linnaeus, 1761). AL CT IL MA ME MD MN NC NJ NY RI VT WI WV;
COS

***Anthrenus* (*Helocerus* Mulsant and Rey, 1868)**

Anthrenus fuscus Olivier, 1789 CO DE FL GA ID IA MI MN MT NE NH NJ NY OH
PA VT WI WV

***Anthrenus* (*Nathrenus* Casey, 1900)**

Anthrenus verbasci (Linnaeus, 1767) AL AZ AR CA CO CT DE FL GA HI IA ID IL IN KS
KY LA MA MD ME MI MN MO MS MT NC ND NE
NH NJ NM NV NY OH OK OR PA RI SC SD TN TX
UT VA VT WA WV WI WY; COS

Tribe Megatomini Leach, 1815
Subtribe Anthrenocerina Háva, 2015

13. *Anthrenocerus* Arrow, 1915

The genus is distributed in the Australian Region and comprises 31 species, one species is nearly cosmopolitan (Háva 2015a, 2020).

Anthrenocerus australis (Hope, 1843) CO

Subtribe Cryptorhopalina Pierce, 1960

14. *Cryptorhopalum* Guérin-Méneville, 1838

The genus currently comprises 166 species distributed in the Nearctic and Neotropical Regions (Háva 2015a, 2020).

Cryptorhopalum anthrenoides Casey, 1916 AZ
Cryptorhopalum apicale (Mannerheim, 1843) AZ CA CO ID NM NV OR TX UT WA
Cryptorhopalum aspilon Beal, 1985 AZ NM* NV
Cryptorhopalum balteatum LeConte, 1854 CA
Cryptorhopalum brooksi Beal, 1995 AZ CO NM
Cryptorhopalum distichia Beal, 1985 AZ
Cryptorhopalum filitarse Casey, 1900 AZ* CA
Cryptorhopalum floridanum Casey, 1916 AL CA FL GA MS NC SC TX
Cryptorhopalum focale Beal, 1985 FL
Cryptorhopalum fusculum LeConte, 1854 AZ CA NV TX
Cryptorhopalum haemorrhoidale (LeConte, 1824) AL AR CT DC DE FL* GA IA IL IN KS LA MA MD
ME MI MT NC NH NJ NY OH OK RI SC TN TX VA
VT WV
Cryptorhopalum haplotes Beal, 1979 CA
Cryptorhopalum obesulum Casey, 1900 AZ NM TX
Cryptorhopalum poorei Beal, 1975 AZ
Cryptorhopalum preschi Beal, 1985 Virgin Is.
Cryptorhopalum pruddeni Casey, 1900 AZ CO FL* NV NM TX
Cryptorhopalum quadrihamatus Beal, 1985 Virgin Is.
Cryptorhopalum reversum Casey, 1900 AZ CO NM TX
Cryptorhopalum rubidum Beal, 1979 AZ CA
Cryptorhopalum ruficorne LeConte, 1854 AL CT DE* FL GA IL IN KS KY LA MA MD MT NC
NJ NY OH PA SC TN TX VA WV
Cryptorhopalum sapindi Beal, 1985 AZ
Cryptorhopalum triste LeConte, 1854 AL AR AZ CA CO CT DC DE FL GA ID IL IN KS KY
LA MA MD MI MO NC NJ NV NY OH OK OR PA RI
SC TN TX VA WA WI WV

- Cryptorhopalum uteanum* Casey, 1916 AZ CA CO ID MO NM NV OK OR OK SD TX UT
WA WY
Cryptorhopalum vernale Beal, 1985 AZ NM
Cryptorhopalum woolfi Beal, 1985 AZ NM TX

15. *Labrocerus* Sharp in Blackburn and Sharp, 1885

The endemic genus is restricted to the Hawaiian Islands. A revision of this genus has been published by Beal (2000). Currently it comprises 17 species (Háva 2015a, 2020).

- Labrocerus argyroxiphii* Beal, 2000 HI (Maui)
Labrocerus auratus Beal, 2000 HI (Nihoa, Necker)
Labrocerus concolor Sharp, 1885 HI (Hawaii, Maui)
Labrocerus curticornis Sharp, 1908 HI (Oahu)
Labrocerus dasytoides Sharp, 1908 HI (Kauai)
Labrocerus depressus (Sharp, 1908) HI (Kauai)
Labrocerus jaynei Sharp, 1885 HI (Lanai, Maui)
Labrocerus laticornis Sharp, 1908 HI (Lanai, Molokai)
Labrocerus moerens Sharp, 1908 HI (Hawaii, Kauai)
Labrocerus obscurus Blackburn, 1885 HI (Hawaii)
Labrocerus obsoletus Sharp, 1908 HI (Maui)
Labrocerus producens Beal, 2000 HI (Oahu)
Labrocerus quadrisignatus Sharp, 1908 HI (Maui)
Labrocerus setosus Sharp, 1908 HI (Molokai, Oahu)
Labrocerus similaris (Sharp, 1908) HI (Kauai)
Labrocerus suffusus Sharp, 1908 HI (Maui)
Labrocerus vestitus Sharp, 1908 HI (Hawaii)

16. *Miocryptorhopalum* Pierce, 1960

The fossil genus has been described from the Miocene, based on a larva.

- †*Miocryptorhopalum kirkbyae* Pierce, 1960 CA (Miocene)

17. *Orphinus* Motschulsky, 1858

The genus is distributed worldwide and currently comprises 152 species in 4 subgenera (Háva 2015a, 2020).

Orphinus (s. str.)

- Orphinus fulvipes* (Guérin-Méneville, 1838) FL HI; COS
Orphinus terminalis (Sharp, 1885) HI

18. *Thaumaglossa* Redtenbacher, 1867

The genus is distributed worldwide and currently comprises 68 species (Háva 2015a, 2020).

- Thaumaglossa americana* (Jayne, 1882) FL TX
Thaumaglossa libochoras Beal, 1952 AZ

Subtribe *Ctesiina* Rees, 1943

19. *Ctesias* Stephens, 1830

The genus is distributed in Holarctic and Afrotropical Regions and currently comprises 27 species in 4 subgenera (Háva 2015a, 2020).

Ctesias (s. str.)

- Ctesias dusmae* Beal, 1960 CA

Subtribe Megatomina Leach, 1815**20. *Dearthrus* LeConte, 1861**

The Nearctic genus currently comprises 2 species (Háva 2015a, 2020).

- Dearthrus longulus* LeConte, 1863 AL GA IL IN MI NC OH PA SC WV
Dearthrus stebbinsi Beal, 1954 AZ CA NV OR

21. *Megatoma* Herbs, 1791

The Holarctic genus currently comprises 27 species in 2 subgenera (Háva 2015a, 2020).

***Megatoma* (s. str.)**

- Megatoma ampla* (Casey, 1900) CA OR WA
Megatoma belfragei (LeConte, 1874) TX
Megatoma cylindrica (Kirby, 1837) AL AK AZ CO ID MT NM OR UT WA WY
Megatoma dolia Beal, 1967 CA
Megatoma giffardi (Blaisdell, 1927) AL AK CA ID MT OR WA
Megatoma leucochlidon Beal, 1967 CA OR WA
Megatoma polia Beal, 1967 CA
Megatoma pubescens (Zetterstedt, 1828) AL CA ID; **HOL**
Megatoma variegata (Horn, 1875) CA CO ID ME* NV OR UT VT WA

***Megatoma* (*Pseudohadrotoma* Kalik, 1951)**

- Megatoma falsa* (Horn, 1875) CA ID OR
Megatoma graeseri (Reitter, 1887) NY WI; **HOL**
Megatoma kaliki (Beal, 1967) CO ID MT
Megatoma perversa (Fall, 1926) AK CA CO MT
Megatoma trichorhopalum (Beal, 1967) CA
Megatoma trogodermoides (Beal, 1967) CA NV OR

Unrecognized species

- Megatoma angularis* (Mannerheim, 1853) AK

Subtribe Trogodermina Mulsant and Rey, 1868**22. *Caccoleptus* Sharp, 1902**

The genus is distributed in the Nearctic and Neotropical Regions and currently comprises 12 species in 3 subgenera (Háva 2015a, 2020).

***Caccoleptus* (*Bicaccoleptus* Háva, 2004)**

- Caccoleptus kacka* Háva, 2009 FL

23. *Phradonoma* Jacquelin du Val, 1859

The genus is distributed worldwide and currently comprises 46 species (Háva 2015a, 2020). One introduced species is known from the U.S.A. (Háva et al. 2011).

- Phradonoma nobile* (Reitter, 1881) AZ; **COS, i**

24. *Reesa* Beal, 1967

The genus currently comprises one parthenogenetic species (Háva 2015a, 2020).

- Reesa vespulae* (Milliron, 1939) CA ID MI MN MT ND NH NY OR WA WI; **COS**

25. *Trogoderma* Dejean, 1821

The genus is distributed worldwide and currently comprises 164 species (Háva 2015a, 2020).

| | |
|--|---|
| <i>Trogoderma angustum</i> (Solier in Gay, 1849) | ME NY; COS, i |
| <i>Trogoderma ballfinchae</i> Beal, 1954 | AZ NM |
| <i>Trogoderma cavum</i> Beal, 1982 | FL |
| <i>Trogoderma fasciferum</i> Blatchley, 1914 | FL |
| <i>Trogoderma glabrum</i> (Herbst, 1793) | AL AK AR AZ CA CO CT DC DE GA HI IA ID IL IN KS KY LA MA MD ME MI MN MT MU NC ND NE NH NJ NM NV NY OH OK OR PA RI SC SD TN TX UT VA VT WA WI WV WY; COS |
| <i>Trogoderma granarium</i> Everts, 1898 | AZ CA HI ME NM TX WA; COS |
| <i>Trogoderma grassmani</i> Beal, 1954 | AZ CA NM NV UT |
| <i>Trogoderma inclusum</i> LeConte, 1854 | AL AR AZ CA CO CT FL GA HI ID IL IN KS KY LA MA MD ME MI MN MT NE NC NH NJ NM NV NY OH OK OR PA RI SC SD TN TX UT WA WI; COS |
| <i>Trogoderma okumurai</i> Beal, 1964 | AZ UT |
| <i>Trogoderma ornatum</i> (Say, 1825) | AL AZ CT DE* FL GA HI IA IL IN KS LA MD ME MI MT NC NE NH NJ NY OH OK PA RI SC TN TX VA WI WV; COS |
| <i>Trogoderma paralia</i> Beal, 1954 | CA |
| <i>Trogoderma primum</i> (Jayne, 1882) | OK TX |
| <i>Trogoderma serraticorne</i> (Fabricius, 1792) | CA FL HI NC TX; Leeward Is. Virgin Is. |
| <i>Trogoderma simplex</i> Jayne, 1882 | AZ CA CO ID MD* MN MT NE ND NJ NY NV OR UT WA WY |
| <i>Trogoderma sinistrum</i> Fall, 1926 | AL AK CO ID IL MN MT NH NY SD UT WY |
| <i>Trogoderma sternale</i> Jayne, 1882 | AL AR AZ CA DC DE FL GA HI IA IL IN KS KY LA MD MI MN MS MT NE NC ND NJ NY OH OK OR SC SD TN WA WY; COS |
| <i>Trogoderma sternale aspericolle</i> Casey, 1900 | AZ DE* TX WV* |
| <i>Trogoderma sternale complex</i> Casey, 1900 | TX VA |
| <i>Trogoderma sternale deserti</i> Beal, 1954 | AZ CA |
| <i>Trogoderma sternale maderae</i> Beal, 1954 | AZ CA WI |
| <i>Trogoderma sternale plagifer</i> Casey, 1916 | AL CO DE IL ID NV NM SC UT WV |
| <i>Trogoderma teukton</i> Beal, 1956 | CO IL IN IA KS MN MT NE NV ND OH WA WI |
| <i>Trogoderma variabile</i> Ballion, 1878 | AL AK AZ CA CO DC FL GA HI ID KS MD MN ND NE NJ NY OR PA SC UT WA WI WV; COS |
| <i>Trogoderma versicolor</i> (Creutzer, 1799) | AL DE* WV; COS |

Acknowledgments

We are very grateful to all the many entomologists who provided us with useful information and relevant material, particularly with lists of their holdings as well as for their big efforts of take detailed photos of certain specimens on request. Furthermore, a special thank goes to T. Keith Philips (United States) and Petr Zahradník (Czech Republic) for reviewing the manuscript, also to David Plotkin for all his efforts. This paper was supported by the Ministry of Agriculture of the Czech Republic, institutional support MZE-RO0118.

Literature Cited

- Beal RS. 1991.** Adventive Hawaiian Dermestidae (Coleoptera): An annotated list. Bishop Museum Occasional Papers 31: 160–162.
- Beal RS. 2000.** Revision of the Hawaiian genus *Labrocerus*. Transactions of the American Entomological Society 126: 373–399.
- Beal RS. 2003.** Annotated checklist of Nearctic Dermestidae with revised key to the genera. The Coleopterists Bulletin 57: 391–404.
- Beal RS. 2005.** Scientific note. Corrections to checklist of Nearctic Dermestidae. The Coleopterists Bulletin 58: 580.
- Beal RS, Kadej M. 2008.** Description of the larva of *Seffrania bleusei* Pic and assignment of *Seffrania sabulorum* (Beal) to the new genus *Araphonotos* Beal and Kadej (Coleoptera: Dermestidae). Entomological News 119: 245–250.
- Blackwelder RE. 1945.** Checklist of the coleopterous insects of Mexico, Central America the West Indies, and South America. Part 3. Smithsonian Institution United States National Museum 185: iii-iv + 343–550.
- Bousquet Y, Bouchard P, Davies AE, Sikes DS. 2013.** Checklist of beetles (Coleoptera) of Canada and Alaska. Second edition. Pensoft; Sofia-Moscow. 402 p.
- Britton WE. 1935.** A new dermestid beetle in Connecticut. Bulletin – Connecticut Agricultural Experiment Station 368: 252.
- DiGirolomo MF, Blackington CO. 2021.** New Coleoptera state records from Maine, USA: 54 species from bycatch collected in Baxter State Park. The Coleopterists Bulletin 75(1): 161–172.
- Hagstrum DW, Subramanyam B. 2009.** Stored-product insect resource. AACC International; St. Paul. 509 p.
- Hatch M H. 1962.** Volume 16. The beetles of the Pacific Northwest. Part III: Pselaphidae and Diversicornia I. University of Washington Publications in Biology; Seattle. 503 p.
- Háva J. 2014.** A contribution to the genus *Hemirhopalum* with descriptions of two new species (Coleoptera: Dermestidae: Megatominae). Heteropterus, Revista de Entomología 14(2): 89–93.
- Háva J. 2015a.** World catalogue of insects. Volume 13. Dermestidae (Coleoptera). Brill; Leiden/Boston. xxvi + 419 p.
- Háva J. 2015b.** New and interesting faunistic records of Dermestidae (Coleoptera) from Nearctic Region. Arquivos Entomológicos 14: 17–20.
- Háva J. 2015c.** Contribution to the knowledge of genus *Thaumaglossa* from Central America (Coleoptera: Dermestidae: Megatominae). Arquivos Entomológicos 14: 33–36.
- Háva J. 2020.** Dermestidae World (Coleoptera). - World Wide Web electronic publication (open in 2004). Available at <http://www.dermestidae.wz.cz> (Last accessed January 2021.)
- Háva J, Brown R. 2015.** A new record of *Megatoma (Pseudohadrotoma) graeseri* (Coleoptera: Dermestidae: Megatominae) from Wisconsin, USA. The Coleopterists Bulletin 69(4): 828–829.
- Háva J, Herrmann A. 2017.** New faunistic records and remarks on Dermestidae (Coleoptera) - Part 16. Folia Heyrovskyana, Series A 25(2): 4–14.
- Háva J, Herrmann A. 2019a.** New faunistic records and remarks on Dermestidae (Coleoptera) - Part 18. Studies and Reports, Taxonomical Series 15(1): 41–53.
- Háva J, Herrmann A. 2019b.** New faunistic records and remarks on Dermestidae (Coleoptera) - Part 19. Natura Somogyensis 33: 27–36.
- Háva J, Herrmann A, Clark WH. 2011.** *Phradonoma nobile* (Reitter, 1881) (Coleoptera: Dermestidae), first record of the genus *Phradonoma* Jacquelin du Val, 1859 in the Nearctic region. The Coleopterists Bulletin 65: 434–435.
- Háva J, Thomas MC. 2012.** A new U.S. and Florida record for *Caccoleptus (Bicaccoleptus) kacka* Háva, 2009 (Coleoptera: Dermestidae). Insecta Mundi 0237: 1–3.
- Háva J, Ward DM, Clark WH. 2008.** Contribution to the knowledge of Dermestidae (Coleoptera) from the Nearctic region. The Coleopterists Bulletin 62: 493–495.
- Hinton HE. 1945.** A monograph of the beetles associated with stored products. Volume 1. Order of the Trustees of the British Museum; London. viii + 443 p.
- Holloway GJ, Bakaloudis DE, Barclay MVL, Cañada Luna I, Foster CW, Kadej M, Callaghan A, Paxton RJ. 2020.** Revision of taxonomic status of *Anthrenus pimpinellae isabellinus* (Coleoptera: Dermestidae). European Journal of Entomology 117: 481–489.
- Klimaszewski J, Langor DW, Smith BT, Hoebeke ER, Davies A, Pelletier G, Douglas HB, Webster RP, Bourdon C, Borowiec L, Scudder GGE. 2017.** Synopsis of adventive species of Coleoptera (Insecta) recorded from Canada. Part 4: Scarabaeoidea, Scirtoidea, Buprestoidea, Byrrhoidea, Elateroidea, Derodontoidea, Bostrichoidea and Cleroidea. Series Faunistica No. 116. Pensoft; Sofia-Moscow. 215 p.
- Löding HP. 1945.** Catalogue of the beetles of Alabama. Geological Survey of Alabama Monograph 11: 1–172.

- Majka CG, Chandler DS, Donahue CP. 2011.** Checklist of the beetles of Maine, U.S.A. Empty Mirrors Press; Halifax, Nova Scotia. 328 p.
- Marché JD II. 2017.** New records of Coleoptera from Wisconsin. *The Great Lakes Entomologist* 50(1–2): 6–10.
- Olson ELO, Parsons GL, Cognato AI. 2013.** Commercial sex-pheromone lures facilitate collection of skin and carpet beetles (Coleoptera: Dermestidae) in natural and urban environments. *The Coleopterists Bulletin* 67(3): 370–376.
- Peris D, Háva J. 2016.** New species from Late Cretaceous New Jersey amber and stasis in subfamily Attageninae (Insecta: Coleoptera: Dermestidae). *Journal of Paleontology* 90: 491–498.
- Sikes DS. 2002.** Beetles of Block Island: rare species that once occurred on the mainland. Chapter 11. p. 183–191. In: Paton PW et al. (eds.). *The ecology of Block Island: Proceedings of the Rhode Island Natural History Survey Conference, October 28, 2000*. Rhode Island Natural History Survey; Kingston, RI. vii + 235 p.
- Sikes DS. 2003.** The beetle fauna of the state of Rhode Island, USA (Coleoptera): 656 new state records. *Zootaxa* 340: 1–38.
- Sikes DS. 2004.** The beetle fauna of Rhode Island: An annotated checklist. Volume 3 of the Biota of Rhode Island. Rhode Island Natural History Survey; Kingston, RI. 328 p.
- Zappe MP. 1935.** Dermestids troublesome in houses. *Bulletin – Connecticut Agricultural Experiment Station* 368: 255.

Received November 30, 2020; accepted May 10, 2021.

Review editor David Plotkin.