INSECTS OF WESTERN NORTH AMERICA

1. A Survey of the Cerambycidae (Coleoptera), or Longhorned Beetles of Colorado

Contributions of the
C.P. Gillette Museum of Arthropod Diversity
Department of Bioagricultural Sciences and Pest Management
Colorado State University
Cover illustration. *Moneilema armatum* LeConte, illustration by Matt Leatherman.

Copies of this publication may be ordered for $10.00 from Gillette Museum of Arthropod Diversity, Department of Bioagricultural Sciences and Pest Management, Colorado State University, Fort Collins, Colorado 80523. Make check to Gillette Museum Publications. See inside back cover for other available publications.
INSECTS OF WESTERN NORTH AMERICA

1. A Survey of the Cerambycidae (Coleoptera), or Longhorned Beetles, of Colorado

by

Daniel J. Heffern
10531 Goldfield Lane
Houston, Texas 77064

1998

A Survey of the Cerambycidae (Coleoptera), or Longhorned Beetles of Colorado

Daniel J. Heffern
10531 Goldfield Lane
Houston, TX 77064

Abstract

The purpose of this publication is to provide an account of the longhorned beetles of Colorado, to present new distributional records and to bring pertinent literature records together. One hundred ninety-three species and subspecies in 88 genera are listed, including thirty-eight new state records. The overall species distributions and host plants are included to provide an understanding of the zoogeography and possible origins of the species in the state. All available county records are included from the major institutional collections in Colorado, literature records, and numerous private collections. Previous literature citations for species not occurring or unlikely to occur in Colorado are discussed. *Hyperplatys montana* Casey is considered a valid species and removed from synonymy with *H. aspersa* (Say). *Neoclytus ascendens* LeConte is considered a synonym of *N. leucozonus leucozonus* (Castelnau & Gory).
Introduction

With an area of 26,998,930 ha (103,922 sq. mi.), Colorado is the eighth largest state and includes three-quarters of the nation's land above 3,048 m (10,000 ft). Colorado can be divided into three distinct natural or physiographic regions (Chronic and Chronic, 1972): the western extension of the Great Plains that encompasses approximately the eastern 40 percent of Colorado; the Mountain Region that rises abruptly from the Plains, and the Plateau Region that gradually tapers from the mountains to the Utah border. From the Kansas and Nebraska borders at an elevation of approximately 1,066 m (3,500 ft), the Plains Region slopes gently upward to the Rocky Mountains. This area was once comprised primarily of shortgrass prairie, but has more recently been converted to other uses by humans. The northern Plains Region is used for heavy agricultural production, whereas the central to southern portion is used for rangeland. Most of Colorado's largest cities and population occupy the western plains along the Front Range of the Rocky Mountains. Along the Front Range, the grasslands blend with ponderosa pine and pinyon pine-juniper woodlands or shrublands at the base of the mountains. The Rocky Mountains west of the Continental Divide descend to broad tablelands and mesas covered with big sagebrush and other species. The Colorado River and its tributaries dissect the Plateau Region into numerous rocky canyons and arid valleys. The higher elevations are capped with pinyon pine-juniper woodlands.

Colorado, with its three physiographic regions, includes typical midwestern or eastern species reaching their westernmost range extension in the east and species typical of the Great Basin or Southwest reaching their easternmost or northermost range extensions, respectively. Numerous boreal species attain their southermost range extensions in the Mountain Region of Colorado, and sometimes farther south.

Other than the Cicindelidae (Kippenhan, 1990), the Coleoptera of Colorado have not received any attention since Wickham (1902) published a list for the state. Wickham's list was based on earlier accounts and collections made by some of the first entomologists to visit Colorado, such as himself, F. H. Snow, C. P. Gillette, P. R. Uhler, F. C. Bowditch, T. D. A. Cockerell and others. All species of Cerambycidae known from Colorado, including thirty-eight species or subspecies not previously recorded, are presented here.

Methods and Materials

This paper is the result of the examination of Cerambycidae in institutional collections in Colorado, numerous private collections and extraction of records from literature. The author examined and identified all of the species that were not previously recorded from Colorado. Colorado specimens of approximately 80% of the species recorded from the state in this paper were examined by the author. Most of these specimens are from the two major entomological museums in Colorado: the Colorado Museum of Arthropod Diversity, Colorado State University [CSUC], Fort Collins and the University of Colorado Museum [UCMC], Boulder. Unless otherwise noted, all records and label data are from specimens in these two museums. Collection codens are included for records which are not from either of these museums. The collection codens, or acronyms, are based upon the system of Arnett et al. (1993), including the following not listed in that work:

DNMC: Dinosaur National Monument Collection, Dinosaur, CO
GSDC: Great Sand Dunes National Monument Collection, Great Sand Dunes National Monument, CO
DJHC: Daniel J. Heffern Collection, Houston, TX
JDBC: Josef D. Beierl Collection, North Hollywood, CA
LGBC: Larry G. Bezark Collection, Sacramento, CA
MGKC: Michael G. Kippenhan Collection, Portland, OR
RMGC: Robert M. Gemmill Collection, Englewood, CO
SWLC: Steve W. Lingafelter Collection, Derwood, MD

Additional records are from the Denver Museum of Natural History [DNHC]; the Colorado National Monument Collection [CNMC], Fruita; the Mesa Verde National Park Collection [MVNP]; the Essig Museum of Entomology, [EMEC], Berkeley, CA; the Museum of Comparative Zoology, [MCZC], Cambridge, MA; the United States National Museum,
The subfamilies are listed according to Lawrence and Newton (1995). Genera and species are listed according to the catalog of Monné and Giesbert (1995), except where noted. The tribe Lepturini, needing a revision on a worldwide basis, is broken into two groups corresponding to the latest treatments of the North American forms (Linsley and Chemsak, 1972, 1976). For each taxon, the following may be included: the type locality if in Colorado, larval host records, a brief discussion of habits or taxonomic problems, general distribution by state, province and country, and county distribution within Colorado. In order to understand the distribution of cerambycid species within Colorado, it is important to present the overall known distribution of that species. Few host plant records were found for Colorado specimens and most were from firewood or building lumber. Because of this void in knowledge of the hosts utilized in Colorado, larval host plants cited in this work represent records from all of North America. Comprehensive, modern checklists exist for very few states or regions and none which are adjacent to Colorado. The state and Canadian provincial distributions presented here are based on literature records and specimens which the author has examined. Records for the District of Columbia are included with Maryland. Older literature records are occasionally not explicit and unreliable, the result of misidentifications or erroneous labeling. Records from the 1800’s occasionally cite a territory such as Missouri or Kansas which encompassed a much greater region than presently and at that time included part of present day Colorado.


For brevity, records from Wickham’s publication are indicated by his initials in parentheses: (HFW). Wickham’s records are only included when there are no other voucher specimens or published records from a particular county. It was beyond the scope of this paper to locate and examine questionable specimens that were reported in previous papers. Included in the species discussion are comments which try to reconcile the differences between the following list of Cerambycidae and the records of Cerambycidae in Wickham’s paper, particularly since many new species have been described.

The abbreviations for the states and provinces are listed in Table 1.

Table 2 is a list of all Colorado counties and their reference numbers. Refer to the map (Figure 6) for the locations of the counties.
Table 1. List of States and Provinces.

<table>
<thead>
<tr>
<th>AK Alaska</th>
<th>LA Louisiana</th>
<th>NY New York</th>
<th>WY Wyoming</th>
</tr>
</thead>
<tbody>
<tr>
<td>AL Alabama</td>
<td>MA Massachusetts</td>
<td>OH Ohio</td>
<td>AB Alberta</td>
</tr>
<tr>
<td>AR Arkansas</td>
<td>MD Maryland</td>
<td>OK Oklahoma</td>
<td>BC Brit. Columbia</td>
</tr>
<tr>
<td>AZ Arizona</td>
<td>ME Maine</td>
<td>OR Oregon</td>
<td>LB Labrador</td>
</tr>
<tr>
<td>CA California</td>
<td>MI Michigan</td>
<td>PA Pennsylvania</td>
<td>MB Manitoba</td>
</tr>
<tr>
<td>CO Colorado</td>
<td>MN Minnesota</td>
<td>RI Rhode Island</td>
<td>NB New Brunswick</td>
</tr>
<tr>
<td>CT Connecticut</td>
<td>MO Missouri</td>
<td>SC South Carolina</td>
<td>NF Newfoundland</td>
</tr>
<tr>
<td>DE Delaware</td>
<td>MS Mississippi</td>
<td>SD South Dakota</td>
<td>NS Nova Scotia</td>
</tr>
<tr>
<td>FL Florida</td>
<td>MT Montana</td>
<td>TN Tennessee</td>
<td>NT Northwest Terr.</td>
</tr>
<tr>
<td>GA Georgia</td>
<td>NC North Carolina</td>
<td>TX Texas</td>
<td>ON Ontario</td>
</tr>
<tr>
<td>IA Iowa</td>
<td>ND North Dakota</td>
<td>UT Utah</td>
<td>PE Prince Edward I.</td>
</tr>
<tr>
<td>ID Idaho</td>
<td>NE Nebraska</td>
<td>VA Virginia</td>
<td>PQ Quebec</td>
</tr>
<tr>
<td>IL Illinois</td>
<td>NH New Hampshire</td>
<td>VT Vermont</td>
<td>SK Saskatchewan</td>
</tr>
<tr>
<td>IN Indiana</td>
<td>NJ New Jersey</td>
<td>WA Washington</td>
<td>YK Yukon Territory</td>
</tr>
<tr>
<td>KS Kansas</td>
<td>NM New Mexico</td>
<td>WI Wisconsin</td>
<td></td>
</tr>
<tr>
<td>KY Kentucky</td>
<td>NV Nevada</td>
<td>WV West Virginia</td>
<td></td>
</tr>
</tbody>
</table>

Table 2. List of the Counties of Colorado.

1 Moffat 17 Boulder 33 Douglas 49 Dolores
2 Rio Blanco 18 Gilpin 34 Elbert 50 Montezuma
3 Routt 19 Clear Creek 35 Lincoln 51 La Plata
4 Jackson 20 Grand 36 Kit Carson 52 Archuleta
5 Larimer 21 Summit 37 Cheyenne 53 Mineral
6 Weld 22 Eagle 38 Kiowa 54 Rio Grande
7 Morgan 23 Garfield 39 Crowley 55 Alamosa
8 Logan 24 Mesa 40 Pueblo 56 Conejos
9 Sedgwick 25 Delta 41 Fremont 57 Costilla
10 Phillips 26 Gunnison 42 Custer 58 Huerfanl
11 Yuma 27 Lake 43 Saguache 59 Las Animas
12 Washington 28 Pitkin 44 Hinsdale 60 Otero
13 Adams 29 Chaffee 45 San Juan 61 Bent
14 Arapahoe 30 Park 46 Ouray 62 Prowers
15 Denver 31 Teller 47 Montrose 63 Baca
16 Jefferson 32 El Paso 48 San Miguel
Figure 6. Map of Colorado indicating counties and physiographic regions. Denver County – 15; Gilpin County – 18; Clear Creek County – 19.
Longhorned Beetles of Colorado  
Family Cerambycidae

Subfamily Parandrinae

Tribe Parandrini
Parandra (Neandra) brunnea (Fabricius)

Discussion: Adults are found in and on dead trunks and logs and are attracted to lights in summer. Chemsak (1996) does not recognize subspecies for *P. brunnea*.

Distribution: AL, AR, CO, CT, DE, FL, GA, IA, ID, IL, IN, KS, KY, MA, MD, ME, MI, MN, MO, MS, NC, ND, NE, NJ, NY, OH, OK, PA, SC, SD, TN, TX, VA, VT, WI, WV, WY, NB, ON, PQ.

Counties: 5, 6, 7, 8(DAL), 13, 15, 17, 32, 51(HFW), 59, 60(DAL), 63.

Parandra (Neandra) californicus Motschulsky

Discussion: Larvae are root feeders, occasionally attacking logs and stumps. Adults are active in summer and fly to lights. On average, this is the largest cerambycid in Colorado.

Distribution: AZ, CO, ID, KS, MT, NC, ND, NE, NM, WY, BC, Mexico.

Counties: 1, 2, 5, 6, 15(DHNC), 16, 17, 23, 24, 25, 29, 32, 34, 40, 48, 50, 51, 52, 55, 58, 59, 62, 63.

Prionus (Prionus) californicus Motschulsky
Hosts: *Quercus, Juglans, Castanea, Prunus, Malus, Pyrus, Vitis, Populus, Salix, Eucalyptus, Arbutus menziesii, Citrus, Amelanchier, Rhus, Pinus, Abies, Pseudotsuga menziesii.*

Discussion: Larvae are root feeders, occasionally attacking logs and stumps. Adults are active in summer and fly to lights. On average, this is the largest cerambycid in Colorado.

Distribution: AZ, CO, ID, KS, MT, NC, ND, NE, NM, WY, BC, Mexico.

Counties: 1, 2, 5, 6, 15(DHNC), 16, 17, 23, 24, 25, 29, 32, 34, 40, 48, 50, 51, 52, 55, 58, 59, 62, 63.

Prionus (Prionus) heroicus Semenov
Hosts: Quercus.

Discussion: Hovore and Giesbert (1976) found females at the bases of oak stumps in AZ. This species was first recorded from Colorado, without specific location, by Linsley (1962a). It appears confined to the southern Rocky Mountain region. Occasionally it is confused with *P. californicus*.

Distribution: AZ, CO, NM.

Counties: 1.
**Tribe Meroscelisini**

*Tragosoma chirciatae* Linsley  
**Hosts:** *Pinus chihuhuauna*

**Discussion:** Galileo (1987) recorded one specimen from Durango, Horse Canyon, 7000 ft, VII-21-1968. Another specimen was examined from Mesa Co., Upper Northgate Canyon, VII-12-1997.

**Distribution:** AZ, CO, NM.

**Counties:** 24, 51 (Galileo, 1987).

*Tragosoma asperatus* (Linnaeus)  
**Hosts:** *Pinus contorta, P. monophylla, P. ponderosa, P. strobus, Pseudotsuga menziesii.*

**Discussion:** Larvae feed in sapwood and heartwood of recently dead or dying trees. Wickham listed this species in the genus *Criocephalus.*

**Distribution:** AZ, CA, CO, ID, MT, NM, NV, OR, SD, UT, WA, WI, WY, AB, BC, MB, NK, NS, NT, ON, PQ, SK, Mexico, Honduras.

**Counties:** 17, 24, 28(HFW), 50, 52, 54(HFW), 57(HFW).

*Arhopalus productus* (LeConte)  
**Type locality:** Colorado (no further data).  
**Hosts:** *Pinus, Abies, Pseudotsuga menziesii.*

**Discussion:** Larvae feed in the sapwood and heartwood of recently dead or dying trees. Wickham listed this species in the genus *Criocephalus.*

**Distribution:** AZ, CA, CO, ID, MT, NM, NV, OR, SD, UT, WA, WY, AB, BC, MB, SK, Mexico, Honduras.

**Counties:** 17, 24, 28(HFW), 50, 52, 54(HFW), 57(HFW).

*Arhopalus rusticus montanus* (LeConte)  
**Type locality:** Colorado (no further data).  
**Hosts:** *Pinus chihuhuauna, P. ponderosa, Pinus spp.*

**Discussion:** Larvae usually occur in roots of dead trees and stumps. In Wickham’s list, this species was listed as *Criocephalus montanus* LeConte. Wickham's *C. ossoletus* Randall records are being included here.

**Distribution:** AZ, CA, CO, NE, NM, NV, SD, TX, UT, WY, Mexico.

**Counties:** 1, 5, 16, 17(HFW), 24, 28(HFW), 31, 32(MGKC), 50(MVNP), 51, 55(GSDDC).

*Asaemus striatum* (Linnaeus)  
**Hosts:** *Picea, Larix, Abies, Pinus including P. virginiana, Pseudotsuga menziesii.*

**Discussion:** Larvae feed in the trunks of dead trees. Wickham listed two synonyms of this species in his list: *A. atrum* Eschscholtz and *A. moestum* Haldeman.

**Distribution:** AL, AR, AZ, CA, CO, CT, FL, GA, IA, ID, IL, IN, LA, MA, MD, ME, MI, MN, MO, MS, MT, NC, NE, NH, NJ, NM, NV, NY, OH, OK, OR, SC, SD, TN, TX, UT, VA, VT, WA, WI, WY, AB, BC, MB, NB, NF, NT, ON, PQ, SK, YK, and coniferous forests of Eurasia.

**Counties:** 4, 5, 16, 17, 18, 20, 22, 28, 29(HFW), 30, 42(HFW), 43(HFW), 50(MVNP), 51(HFW), 52, 54(HFW), 59(SWLC).

**Subfamily Spondylidinae**

**Tribe Spondylidini**

*Spondylis upiformis* Mannerheim  
**Hosts:** *Pinus contorta, P. ponderosa.*

**Discussion:** Adults are active in late spring and early summer.

**Distribution:** AK, AZ, CA, CO, ID, MT, NE, NM, NV, OR, PA, SD, UT, VT, WA, WI, WY, AB, BC, MB, NK, NS, NT, ON, PQ, SK, Mexico.

**Counties:** 5, 16, 17, 18, 20, 31, 33.

**Tribe Asemini**

*Arhopalus asperatus* (LeConte)  
**Type locality:** “Kansas”. When this species was described, Kansas was a territory which roughly included the eastern half of Colorado. This species does not occur in Kansas.  
**Hosts:** *Abies magnifico, A. concolor, Pseudotsuga menziesii, Picea, Pinus.*

**Discussion:** Larvae feed in dead and dying trees. This species is closely related to *A. foveicollis* (Haldeman) and difficult to separate. Wickham listed this species in the genus *Criocephalus.*

**Distribution:** AK, AZ, CA, CO, ID, MT, ND, NE, NM, NV, OR, SD, TX, UT, WA, WY, AB, BC, NT, SK, Mexico, Honduras.

**Counties:** 1(DNMC), 5, 8, 17, 25, 47, 50, 58.

*Arhopalus foveicollis* (Haldeman)  
**Hosts:** *Pinus rigida, P. strobos, Picea.*

**Discussion:** Larvae feed in the bases of dead trees. Wickham's *Criocephalus agristis* Kirby is probably this species, but those records could include some misidentified *A. asperatus* (LeConte).

**Distribution:** AK, AZ, CO, CT, FL, IA, IL, IN, MA, MD, ME, MI, MN, MO, MT, ND, NH, NJ, NM, NY, OH, PA, SD, UT, WI, WY, AB, BC, LB, MB, NB, NF, NS, NT, ON, PQ, SK, YK.

**Counties:** 5, 15(HFW), 28(HFW), 33, 41(HFW), 52(HFW).

*Arhopalus productus* (LeConte)  
**Hosts:** *Pinus, Abies, Pseudotsuga menziesii.*

**Discussion:** Larvae feed in the sapwood and heartwood of recently dead or dying trees. Wickham listed this species in the genus *Criocephalus.*

**Distribution:** AZ, CA, CO, ID, MT, NM, NV, OR, SD, UT, WA, WY, AB, BC, MB, SK, Mexico, Honduras.

**Counties:** 17, 24, 28(HFW), 50, 52, 54(HFW), 57(HFW).

*Arhopalus rusticus montanus* (LeConte)  
**Type locality:** Colorado (no further data).  
**Hosts:** *Pinus chihuhuauna, P. ponderosa, Pinus spp.*

**Discussion:** Larvae usually occur in roots of dead trees and stumps. In Wickham’s list, this species was listed as *Criocephalus montanus* LeConte. Wickham's *C. ossoletus* Randall records are being included here.

**Distribution:** AZ, CA, CO, NE, NM, NV, SD, TX, UT, WY, Mexico.

**Counties:** 1, 5, 16, 17(HFW), 24, 28(HFW), 31, 32(MGKC), 50(MVNP), 51, 55(GSDDC).

*Asaemus striatum* (Linnaeus)  
**Hosts:** *Picea, Larix, Abies, Pinus including P. virginiana, Pseudotsuga menziesii.*

**Discussion:** Larvae feed in the trunks of dead trees. Wickham listed two synonyms of this species in his list: *A. atrum* Eschscholtz and *A. moestum* Haldeman.

**Distribution:** AL, AR, AZ, CA, CO, CT, FL, GA, IA, ID, IL, IN, LA, MA, MD, ME, MI, MN, MO, MS, MT, NC, NE, NH, NJ, NM, NV, NY, OH, OK, OR, PA, SC, SD, TN, TX, UT, VA, VT, WA, WI, WY, AB, BC, MB, NB, NF, NT, ON, PQ, SK, YK, and coniferous forests of Eurasia.

**Counties:** 4, 5, 16, 17, 18, 20, 22, 28(HFW), 31, 33, 42, 54(HFW), 57(HFW), 59.

*Megaseum asperum* (LeConte)  
**Hosts:** *Abies, Pseudotsuga menziesii.*

**Discussion:** Larvae bore in the heartwood. Wickham listed this species in the genus *Nothorhina.*

**Distribution:** AZ, CA, CO, ID, MT, NM, OR, UT, WA, WY, AB, BC, NT, SK, Mexico.

**Counties:** 5, 16, 23, 31, 50.

*Tragacanthia cinnamopterum parvulum* Casey  
**Hosts:** *Picea glauca.*

**Discussion:** Chensak (1996) treats *parvulum* as a subspecies. Previously, Raske (1973a) elevated it to full species due to differences he saw in the larval form and host plant preference.
Wickham's record of *T. cinnamopterum* probably belongs here.

**Distribution:** AK, CO, IN, MN, MT, NM, OR, WA, AB, BC, NB, NF, SK, YK. Counties: 19(HFW), 22 or 23 (from Linsley, 1962a).

**Tetropium parallelum** Casey  
**Hosts:** Unknown.  
**Discussion:** Adults have been collected on freshly cut logs of *Abies lasiocarpa* in Graham County, Arizona (J. D. Beierl, pers. comm.).  
**Distribution:** AZ, CO, NM. Counties: 5, 32, 50.

**Tetropium velutinum** LeConte  
**Hosts:** *Larix occidentalis, Tsuga heterophylla, Pseudotsuga menziesii, Abies, Picea, Pinus.*  
**Discussion:** Larvae feed in living trees and may cause extensive damage.  
**Distribution:** AZ, CA, CO, ID, ME, MI, MT, NC, NM, NY, OR, PA, WA, AB, BC, LB, MB, NB, NF, NT, ON, PQ, SK, YK. Counties: 4, 5, 15(HFW), 17(HFW), 19(HFW), 21(HFW), 26(HFW), 28(HFW), 29(HFW), 41, 42(HFW), 49(HFW), 52(HFW), 53, 56(HFW), 57(HFW).

**Tribe Atimiini**  
**Atimia confusa confusa** (Say)  
**Hosts:** *Cupressus, Juniperus spp. including J. virginiana, Thuja, Chamaecyparis, Taxodium distichum.*  
**Discussion:** Larvae feed in dead trees under the bark, later pupating in the sapwood. Besides Wickham's records, only one specimen was examined: Larimer Co., Phantom Canyon, IX-30-1993.  
**Distribution:** CO, CT, FL, GA, IA, IN, KS, KY, MA, MD, ME, MI, MO, MS, NC, NH, NJ, NM, NY, OH, OK, PA, SC, TX, TN, VA, VT, WV, ON, PQ. Counties: 5, 17(HFW), 57(HFW).

**Atimia huachucae** Champlain and Knnull  
**Hosts:** *Cupressus arizonica, Juniperus deppeana.*  
**Discussion:** Numerous specimens were examined. It has been reared from both the branches and trunks of "upright" ornamental junipers (D. Leatherman, pers. comm.).  
**Distribution:** AZ, CO, NM, NV, TX, Mexico. Counties: 5, 14, 15, 16(DAL), 24.

**Subfamily Necydalinae**  
**Tribe Necydalini**  
**Necydalis diversicollis diversicollis** Schaeffer  
**Hosts:** *Amelanchier, Quercus, Salix, Alnus.*  
**Discussion:** New state record: Montezuma Co., 1.6 mi E of Mancos, Hwy 160, VII-25-1993, and Rio Blanco Co., 4 mi NE Meeker, VII-7-1996. The species in this holarctic genus are excellent wasp mimics.  
**Distribution:** CA, CO, OR, MT, UT, WA, BC.

**Subfamily Lepturinae**  
**Tribe Lepturini** (group 1)  
Most species in this group are diurnal. Refer to Linsley and Chemsak (1976) for flower association records.

**Acmaeops proteus proteus** (Kirby)  
**Hosts:** *Pinus, Abies, Tsuga, Picea.*  
**Discussion:** This species is quite variable and frequently collected on flowers.  
**Distribution:** AK, AZ, CA, CO, CT, ID, ME, MI, MT, NC, NM, NY, OR, PA, WA, WY, AB, BC, LB, MB, NB, NF, NT, ON, PQ, SK, YK. Counties: 4, 5, 15(HFW), 17(HFW), 19(HFW), 21(HFW), 26(HFW), 28(HFW), 29(HFW), 41, 42(HFW), 49(HFW), 52(HFW), 53, 56(HFW), 57(HFW).

**Brachysomida atra** (LeConte)  
**Hosts:** Unknown.  
**Discussion:** This species was listed by Wickham in the genus *Acmaeops.*  
**Distribution:** CO, ID, MT, OR, WA, AB, BC. Counties: 4(Casey, 1913), 5(HFW), 19(DNHC), 21(HFW), 24(HFW).

**Brachysomida californica** (LeConte)  
**Hosts:** Unknown.  
**Discussion:** The type locality for *B. lanatula* Casey, a synonym of *B. californica* (LeConte), is "Colorado". No other specimens are known from Colorado. Its occurrence in Colorado needs to be verified.  
**Distribution:** CA, CO, OR. Counties: No county records located.

**Brachysomida rugicollis** Linsley and Chemsak  
**Hosts:** Unknown.  
**Discussion:** New state record. Three specimens were examined with identical data: Rio Blanco Co., Rt 139, mile post 59, VII-2-1991.  
**Distribution:** CO, ID, MT, UT, WY. Counties: 2.

**Centrodera minima** Linsley and Chemsak  
**Type locality:** "Mesa Verde National Park, Colorado".  
**Hosts:** Unknown.  
**Discussion:** The holotype male and two male paratypes were collected at the type locality on VI-7-1955. Members of this genus are nocturnal and frequently attracted to lights.  
**Distribution:** CO, UT. Counties: 50(type).
**Cortodera coniferae** Hopping and Hopping

Hosts: Picea, Pinus.

Discussion: Hopping and Hopping (1947) reported examining a single specimen of this species from Colorado (no further data). No specimens have been examined by the author.

Distribution: CO, MT, OR, BC.

Counties: No county records located.

**Cortodera longicornis** (Kirby)

Hosts: Unknown.

Discussion: This extremely variable, common, wide-ranging species was listed by Wickham in the genus Acmaeops, along with two synonyms: A. vinca LeConte and A. gigata LeConte. Species in this genus are usually difficult to identify, but nearly all of the Colorado specimens of Cortodera that were examined are this species.

Distribution: CA, CO, ID, MT, ND, NE, NM, NV, OR, SD, UT, WA, AB, BC, SK.

Counties: 1, 3, 4, 5, 15, 16, 17, 19(HFW), 20, 22, 23, 24, 26, 31, 32(HFW), 33, 34, 42, 46(HFW), 50, 51(HFW), 54(HFW), 55, 56(HFW), 57(HFW), 58, 59.

**Cortodera sparia** (LeConte)

Hosts: Unknown.

Discussion: Hopping and Hopping (1947) reported examining one specimen of this rare species from Colorado (no further data). No specimens have been examined by the author.

Distribution: AZ, CO, ID, OR.

Counties: No county records located.

**Cortodera sp.**

Hosts: Unknown.

Discussion: Three black specimens were examined which apparently represent an undescribed species. The shape of the hind trochanter distinguishes it from C. longicornis. Specimens have white pubescence on the scutellum.

Distribution: CO.

Counties: 5, 17, 34(DJHC).

**Gnathacmaeops pratensis** (Laicharting)

Hosts: Pinus, Picea.

Discussion: This species was in Wickham’s list in the genus Acmaeops. This species occurs throughout the northern hemisphere in boreal forests.

Distribution: AK, AZ, CA, CO, GA, ID, IN, ME, MI, MT, NC, NM, NY, OH, OR, PA, SC, SD, UT, VA, WA, WY, AB, BC, LB, NB, NF, NT, ON, PQ, SK, YK, Europe, Asia.

Counties: 3(HFW), 4, 5, 15(HFW), 17, 18, 19(HFW), 21(HFW), 26, 28(HFW), 29(LGBC), 31, 32(HFW), 42(HFW), 43, 46(HFW), 48, 49(HFW), 50, 51(HFW), 53, 54(HFW), 56(HFW), 57(HFW).

**Neanthophylax mirificus** (Bland)

Type locality: “Colorado Territory”.

Hosts: Abies, Picea, Pinus spp. including P. ponderosa, Pseudotsuga.

Discussion: This is an uncommon, sexually dimorphic, wide-ranging species. Only several specimens from Colorado were examined. One specimen was labeled: “Monument Gulch east of Pingree Park, VI-15-1992”. This species was listed by Wickham in the genus Anthophilax.

Distribution: CA, CO, ID, MT, OR, UT, AB, BC, Mexico, Costa Rica.

Counties: 2(Nicolay, 1917b), 5.

**Neanthophylax subvittatus** (Casey)

Type locality: “Colorado ?”.

Hosts: Unknown.

Discussion: This species occurs throughout the northern hemisphere in boreal forests. Only several specimens from Colorado were examined. One specimen was labeled: “Monument Gulch east of Pingree Park, VI-15-1992”. This species was listed by Wickham in the genus Anthophilax.

Distribution: CA, CO, ID, MT, OR, UT, AB, BC, Mexico, Costa Rica.

Counties: 2(Nicolay, 1917b), 5.

**Pachyta lamed liturata** Kirby

Hosts: Abies, Picea, Pinus, Pseudotsuga.

Discussion: This species was in Wickham’s list in the genus Acmaeops. This species occurs throughout the northern hemisphere in boreal forests. The nominate form occurs in northern Eurasia.

Distribution: AK, AZ, CA, CO, ID, MI, MT, NM, NV, OR, PA, SD, UT, WA, WY, AB, BC, LB, MB, NF, NT, ON, PQ, YK.

Counties: 3(HFW), 4, 5, 17, 18, 19(HFW), 21(HFW), 22(LGBC), 23, 25, 27(HFW), 28(HFW), 29, 32(HFW), 42(HFW), 48(HFW), 54(HFW), 55.

**Pseudogaurotina cressoni cressoni** (Bland)

Type locality: “Rocky Mts., Colorado Territory”.

Hosts: Abies, Pseudotsuga.

Discussion: This species was the in genus Gaurotes in Wickham’s list.

Distribution: CO, ID, MT, OR, UT, WA, AB, BC.

Counties: 5, 15(HFW), 18, 20, 26, 46(HFW), 56(HFW), 57(HFW).

**Rhagium inquisitor inquisitor** (Linnaeus)

Hosts: Abies spp. including A. concolor, A. lasiocarpa, A. magnifica, Larix occidentalis, Pseudotsuga menziesii, Tsuga, Picea engelmannii, P. sitchensis, Pinus spp. including Pinus contorta, P. jeffreyi, P. monticola, P. ponderosa, P.
Anastrangalia sanguinea

Discussion: Wickham recorded this wide-ranging, variable species as *R. lineatum* Oliv.

**Distribution:** AK, AL, AZ, CA, CO, CT, FL, GA, ID, IN, IA, MA, MD, ME, MI, MS, MT, NC, NJ, NY, OH, OK, OR, PA, SC, SD, TX, UT, WA, WI, AB, BC, MB, NB, NF, NT, ON, PQ, SK, YK, Mexico, Europe, Asia.

**Counties:** 5, 6, 16(HFW), 17, 18, 19(DAL), 26(HFW), 29(DAL), 30(DAL), 32(HFW), 42(HFW), 47, 48, 50, 54(HFW), 57(HFW), 59.

*Stenocorus obtusus* (Le Conte)

**Hosts:** Unknown.

**Discussion:** Wickham in the genus *Toxotus* recorded this species from Colorado without locality.

**Distribution:** CO, ID, MT, NV, OR, UT, WA, WY, AB, BC, SK.

**Counties:** 3(from map, Linsley and Chemsak, 1972), 21.

*Stenocorus trivittatus* (Say)

**Hosts:** Unknown.

**Discussion:** This species was listed by Wickham in the genus *Leptura*.

**Distribution:** CO, ID, MT, NV, OR, UT, WA, WI, AB, BC, MB, SK.

**Counties:** 22.

Tribe Lepturini (group 2)

Nearly all species in this group are diurnal. Refer to Linsley and Chemsak (1976) for flower association records.

*Aenastrangalia haldemani* (Casey)

**Hosts:** *Pinus chihuahuaana*.

**Discussion:** New state record. Several specimens of this sexually dimorphic species were examined. Adults have been collected in June.

**Distribution:** AZ, CO, NM, Mexico.

**Counties:** 5, 17, 32, 34.

*Aenastrangalia sanguinea* (Le Conte)

**Hosts:** *Pinus*.

**Discussion:** Wickham listed this species as *Leptura*.

**Distribution:** AK, AZ, CA, CO, ID, MI, MN, MT, NH, NM, NV, NY, OR, PA, SD, UT, WA, WI, WY, AB, BC, MB, NB, ON, PQ, SK, YK.

**Counties:** 5, 17, 19(HFW), 26, 28(HFW), 32(HFW), 33, 54(HFW), 57(HFW).

*Brachyleptura circumdata* (Olivier)

**Hosts:** *Picea*.

**Discussion:** The type locality for *B. subquadrata* Casey, a synonym, is “Colo”. Linsley and Chemsak (1976) state that the status of *B. subquadrata* may change if more material is available for study.

**Distribution:** AL, CA, CO, GA, IN, MA, MD, MI, MS, NC, NJ, NY, OH, PA, SC, VA, WI.

**Counties:** No county records located.

*Cosmosalia chrysocoma* (Kirby)

**Hosts:** *Alnus, Picea, Pinus, Populus*.

**Discussion:** Wickham listed this species in the genus *Leptura*.

**Distribution:** AZ, CA, CO, ID, ME, MI, MN, MT, NH, NM, NV, NY, OR, RI, SD, UT, WA, WI, WY, AB, BC, MB, NB, NF, NS, NT, ON, PE, PQ, SK, YK, Mexico.

**Counties:** 5, 16, 17, 18, 19(HFW), 21(HFW), 26, 32, 34, 42(HFW), 46(HFW), 49(HFW), 50, 54(HFW).

*Cosmosalia nigrolineata nigrolineata* (Bland)

**Type locality:** “Colorado Territory”.

**Hosts:** Unknown.

**Discussion:** This species was listed as a species of *Leptura* in Wickham’s list.

**Distribution:** CO, ID, NM, OR.

**Counties:** 4, 5, 15(HFW), 17, 18, 19, 21, 22, 26, 28(HFW), 46(HFW), 47, 52(HFW), 54(HFW).

*Grammoptera subargentata* (Kirby)

**Hosts:** *Lithocarpus, Populus, Quercus, Rhus spp.* including *R. glabra*.

**Discussion:** This species appeared in the genus *Leptura* in Wickham’s list. Craighead’s (1923) report of larvae of *G. exigua* (Newman) from Colorado may apply to this species.

**Distribution:** AK, AL, CA, CO, GA, ID, IN, MA, MD, ME, MI, MT, NC, NH, NM, NV, NY, OH, OR, PA, SD, UT, VA, VT, WA, WY, AB, BC, MB, NB, NF, NT, ON, PQ, SK, YK.

**Counties:** 4, 5, 16, 17, 18, 19(HFW), 25, 26, 29(HFW), 32(HFW), 42(HFW), 43, 44, 46(HFW), 47, 51(HFW), 52, 55, 57(HFW), 59.

*Judolia instabilis* (Haldeman)

**Hosts:** *Pinus*.

**Discussion:** This species was listed by Wickham in the genus *Leptura*.

**Distribution:** AZ, CA, CO, ID, MT, NM, NV, OR, UT, WA, WI, WY, AB, BC, MB, SK, YK, Mexico.

**Counties:** 2, 4, 5, 16, 17, 20, 22, 23, 24, 26, 30, 45(HFW), 47, 50, 51(HFW), 52, 53, 54(HFW), 56(HFW), 58.

*Judolia montivagans montivagans* (Couper)

**Hosts:** *Abies, Picea, Pinus, Populus, Pseudotsuga, Salix*.

**Discussion:** This appeared in Wickham’s list as *Leptura sexmaculata* Linnaeus, which is actually a similar Palearctic
species now also placed in Judolia. This species prefers high altitudes in Colorado.

Distribution: AK, CA, CO, ID, MA, MI, MN, MT, NH, NM, NY, OR, SD, WA, WI, AB, BC, LB, MB, NB, NS, NT, ON, PQ, SK, YK.

Counties: 4, 5, 17, 18, 19, 20(HFW), 21, 22, 26(LGBC), 28(HFW), 30, 46(HFW), 53, 54.

Judolia quadrata (LeConte)

Hosts: Unknown.

Discussion: According to Swaine and Hopping (1928), there is a specimen in the U. S. National Museum from Colorado.

Distribution: CO, BC, MB, NT, ON, PQ, SK, YK.

Counties: No county records located.

Leptura (Leptura) obliterata obliterata (Haldeman)

Hosts: Abies, Pinus, Pseudotsuga, Sequoia, Tsuga.

Discussion: Wickham’s Leptura soror record may belong here and Linsley and Chemsak (1976) state that its range extends to Colorado, although no state records are known to me.

Distribution: CA, CO, ID, MT, NV, OR, WA, BC.

Counties: No county records located.

Leptura (Leptura) propinqu a Bland

Type locality: “Colorado Territory”.

Hosts: Picea engelmannii, Pinus spp. including P. jeffreyi, P. monticola, P. murrayana, P. ponderosa.

Discussion: This species is frequently abundant on flowers.

Distribution: AK, AZ, CA, CO, ID, MT, NM, NV, OR, UT, WA, BC.

Counties: 1(HFW), 5, 16, 17, 18, 19(HFW), 24, 31, 32, 42, 46(HFW), 53, 54(HFW).

Pygoleptura nigrella nigrella (Say)

Hosts: Abies, Larix, Picea, Pinus, Pseudotsuga.

Discussion: This species appears in the genus Leptura in Wickham’s list. Frequently all black, some specimens have reddish or testaceous elytra with a narrow, marginal, longitudinal black band on the apical third of the elytra.

Distribution: AK, CO, GA, ID, ME, MI, MT, NM, NV, NY, OR, PA, WA, WI, AB, BC, LB, MB, NB, NF, NS, NT, ON, PQ, SK.

Counties: 5, 31, 54(HFW).

Stictopleptura canadensis cribripennis (LeConte)

Hosts: Pinus, Picea, Pseudotsuga, Tsuga, Quercus spp. including Q. garryana, Populus tremuloides.

Discussion: This species is listed by Wickham as Leptura canadensis Fabricius.

Distribution: CO, ID, MT, NM, OR, SD, UT, WA, AB, BC, MB, SK.

Counties: 2, 5, 16, 17, 18, 22, 26(HFW), 30(DNHC), 31, 32(HFW), 33, 42(HFW), 43, 50, 51, 52, 53, 54, 55(GSDC).

Strophia nigrella nigrella (Say)

Hosts: Abies, Picea, Pinus, Pseudotsuga, Sequoia, Tsuga.

Discussion: Wickham lists this species in the genus Leptura.

Distribution: CA, CO, ID, MT, NM, OR, WA, BC, NT, YK.

Counties: 60.

Strangalia sexnotata Haldeman

Hosts: Unknown.

Discussion: One specimen examined: Otero Co.: Vogel Canyon, VI-18-1996. This specimen would be assignable to S. montana Casey if it were recognized as a valid species or subspecies. The western form occurs in the mountains of western Texas, New Mexico and southeastern Arizona.

Hopping (1937) recorded this species from Colorado without further information.

Distribution: AL, AR, AZ, CO, FL, GA, KS, LA, MO, MS, NC, NM, OK, SC, TX.

Counties: 60.

Straphiona nitens (Forster)

Hosts: Carya, Castanea, Fagus, Juglans, Quercus.

Discussion: This is an extremely variable species and frequently confused with T. octonotatus with which it sometimes occurs.

Distribution: AZ, CA, CO, ID, MT, NM, OR, WA, AB, BC, NT, YK.

Counties: 5.

Trachysida aspera aspera (LeConte)

Hosts: Betula, Picea, Pinus, Pseudotsuga, Salix.

Distribution: AK, CO, ID, MT, NM, OR, WA, BC, NT, YK.

Counties: 5, 24, 31, 32(Craighead, 1923), 17, 41, 46(HFW), 53, 57.

Trigonarthris atrata (LeConte)

Hosts: Unknown.

Discussion: New state record. Two specimens in DNHC were among a recent donation of specimens supposedly from Colorado. The labels bear “County 14”. There are no other notes or records to determine their origin. A population in this state would be over 600 km west of any records known to the author.

Distribution: AL, CO, FL, GA, IL, KS, MO, MS, OK, TX.

Type locality: “Colorado Territory”.

Hosts: Unknown.

Discussion: Found on flowers of Chrysothamnus spp. in August and September.

Distribution: AZ, CA, CO, ID, MT, NM, NV, UT, WY, AB, NT.

Counties: 1, 4, 5, 20, 24, 51, 54, 55, 56, 57.

Typocerus balsatus Horn

Type locality: “Colorado”.

Hosts: Unknown.

Discussion: New state record. Two specimens in DNHC were among a recent donation of specimens supposedly from Colorado. The labels bear “County 14”. There are no other notes or records to determine their origin. A population in this state would be over 600 km west of any records known to the author.

Distribution: AL, CO, FL, GA, IL, KS, MO, MS, OK, TX.

Type locality: “Colorado Territory”.

Hosts: Unknown.

Discussion: New state record. Two specimens in DNHC were among a recent donation of specimens supposedly from Colorado. The labels bear “County 14”. There are no other notes or records to determine their origin. A population in this state would be over 600 km west of any records known to the author.

Distribution: AL, CO, FL, GA, IL, KS, MO, MS, OK, TX.

Type locality: “Colorado Territory”.

Hosts: Unknown.

Discussion: New state record. Two specimens in DNHC were among a recent donation of specimens supposedly from Colorado. The labels bear “County 14”. There are no other notes or records to determine their origin. A population in this state would be over 600 km west of any records known to the author.

Distribution: AL, CO, FL, GA, IL, KS, MO, MS, OK, TX.

Type locality: “Colorado Territory”.

Hosts: Unknown.

Discussion: New state record. Two specimens in DNHC were among a recent donation of specimens supposedly from Colorado. The labels bear “County 14”. There are no other notes or records to determine their origin. A population in this state would be over 600 km west of any records known to the author.

Distribution: AL, CO, FL, GA, IL, KS, MO, MS, OK, TX.
**Typocerus gloriosus** Hopping

Hosts: Unknown.

Discussion: This species is the least known member of the genus, with only a few records existing. Linsley and Chemsak (1976) list this species as occurring in the Colorado Plateau of Arizona, Colorado, New Mexico and Utah. This species has been collected in early June.

Distribution: AZ, CA, CO, NM, UT.

Counties: No county records located.

**Typocerus octonotatus** (Haldeman)

Hosts: Agropyron smithii, Andropogon scoparius, Sorghastrum nutans, Sporobolus airoides.

Discussion: This is a widespread species, occasionally abundant on flowers.

Distribution: AL, AR, CO, CT, DE, FL, GA, IA, IL, IN, KS, LA, MA, MD, MI, MN, MO, MS, ND, NE, NM, OH, OK, PA, SC, SD, TN, TX, VA, WY, ON.

Counties: 5, 6, 11, 16, 17, 61, 62, 63.

**Typocerus serraticornis** Linsley and Chemsak

Hosts: Oryzopsis hymenoides.

Discussion: This species is frequently localized in sandy habitats.

Distribution: CO, ID, NM, NV, UT.

Counties: 2, 23, 24, 31, 46.

**Typocerus simatus** (Newman)

Hosts: Unknown.

Discussion: *T. brunnicornis* LeConte, listed by Wickham, is a synonym. Older literature records of this species from the eastern states may actually be for *T. octonotatus*, and this species is probably misidentified in many collections.

Distribution: AL, CO, FL, GA, MI, NC?, ND, NM, SC?, SD, TX.

Counties: 5, 6, 7, 11, 16, 17, 32, 33, 41(DJHC), 59, 61.

**Xestoleptura cockerelli** (Fall)

Hosts: *Pinus*.

Discussion: Swaine and Hopping (1928) state that Wickham's records for *Leptura carbonata* LeConte are actually for this species.

Distribution: AZ, CO, NM, UT.

Counties: 5, 17, 26, 41(LGBC), 42(HFW), 46(HFW), 51(HFW).

**Xestoleptura crassipes** (LeConte)

Hosts: *Larix, Thuja, Tsuga, Pseudotsuga, Pinus, Umbellaria, Eucalyptus*.

Discussion: Swaine and Hopping (1928) recorded this species from Colorado without further data. One specimen was examined from Moffat Co., Dinosaur NM, Harper Corner, VII-20-1998.

Distribution: CA, CO, ID, MT, NV, OR, SD, UT, WA, BC.

Counties: 1.

Subfamily Cerambycinae

**Tribe Oemini**

*Oeme costata costata* LeConte

Hosts: *Pinus* spp. including *P. monophylla, P. contorta, P. edulis, P. ponderosa*.

Discussion: New state record. One specimen was examined from Larimer Co., Endo Valley, Rocky Mt. Nat. Pk., VII-14-1990.

Distribution: AZ, CA, CO, ID, MT, NM, NV, OR, TX, UT, WY.

Counties: 5, 26(RMGC), 43(RMGC).

*Oeme rigida deserta* Casey

Hosts: *Cupressus arizonica, Juniperus* spp.

Discussion: This species is attracted to lights.

Distribution: AZ, CO, NM, TX, UT.

Counties: 15, 63.

**Tribe Methiini**

*Methia mormona* Linell

Hosts: *Juniperus deppeana, Juglans major, Salix, Berberis harrisoniana*.

Discussion: This small, fragile species is attracted to lights.

Distribution: AZ, CA, CO, NM, NV, TX, UT, Mexico.

Counties: 24, 50(MVNP).

**Tribe Hesperophanini**

*Brothylus gemmulatus* LeConte

Hosts: *Quercus agrifolia, Q. kelloggii*.

Discussion: Craighead (1923) recorded larvae of this species from Colorado. Only one adult has been examined: “Mesa Co., Upper Red Canyon, V-31-1997, UV trap”.

Distribution: CA, CO, OR, UT, WA, Mexico.

Counties: 24.

*Eucrossus villicornis* LeConte

Hosts: *Pinus* spp. including *P. monophylla, P. torreyana, P. jeffreyi, P. muricata, P. ponderosa, P. sabiniana*.

Discussion: New state record. This species is attracted to lights.

Distribution: AZ, CA, CO, NM, NV, Mexico.

Counties: 24, 41, 50, 58.

*Haplidus testaceus* LeConte

Hosts: *Pinus* spp. including *P. ponderosa, P. contorta, P. monophylla, P. jeffreyi*.

Discussion: This species is attracted to lights.

Distribution: CA, CO, NM, OR, WA.

Counties: 1(DNMC), 17, 24, 50(MVNP).

*Malobidion brunneum* Schaeffer

Hosts: *Frazinus anomala, Rhus trilobata, Amelanchier utahensis, Berberis harrissiana*.
Discussion: Only a few specimens are known from CO. A specimen from Montezuma Co. has the data: Mesa Verde National Park, VII-20-1978. This species is attracted to lights.
Distribution: AZ, CO, UT, Mexico.
Counties: 24, 50.

*Anelaphus villosus (Fabricius)*
Discussion: New state record. This is a widely scattered eastern species. One specimen examined: Logan Co.; adult cut out of branch of Russian olive (*Eleagnus angustifolia*).
Distribution: AL, AZ, CO, FL, GA, IN, KS, MA, MD, MI, MO, MS, NC, ND, NJ, NY, OH, OK, PA, SC, SD, TX, WI, MB, ON, PQ.
Counties: 63.

*Enaphalodes atomarius* (Drury)
Hosts: *Quercus* spp., *Castanea*, *Celtis*, *Juglans*, *Carya*, *Chamaerops* *palmetto*.
Discussion: This is a wide-ranging species. It is very common in the southeastern USA and extends its range to the southern Rocky Mountains.
Distribution: AL, AR, AZ, CO, CT, FL, GA, IA, IL, IN, KS, LA, MD, MI, MO, MS, NC, NJ, NY, OH, OK, PA, RI, SC, TN, TX, WI, ON, Mexico, Honduras.
Counties: 53 (SEMC).

*Parelaphidion incertum* (Newman)
Hosts: *Baccharis neglecta*, *Carya glabra*, *Celtis*, *Morus rubra*, *Prosopis glandulosa*, *Quercus primus*.
Discussion: New state record. A series of specimens were examined from Mesa County: Grand Junction, VII-12-1990, “on boxelder”. Another single specimen was examined from Denver.
Distribution: AL, AR, CO, FL, GA, IA, IL, IN, LA, MD, MS, NC, ND, NJ, NY, OK, PA, RI, SC, TX, WI, ON.
Counties: 15 (RMGC), 24.

**Tribe Elaphidiini**

*Anelophora parowana* Casey
Hosts: Unknown.
Discussion: There is a wide-ranging species. It is very common in the southeastern USA and extends its range to the southern Rocky Mountains.
Distribution: CA, CO, NM, OR, UT.
Counties: 24, 50.

*Anelophora rectilinea* rectilinea Casey
Hosts: *Quercus*, *Baccharis*?
Discussion: New state record. Members of this genus are attracted to lights. The twenty North American species in this genus are frequently difficult to identify.
Distribution: CA, CO, NM, TX, Mexico.
Counties: 63.

*Anelaphus moestus* moestus (LeConte)
Hosts: *Celtis*, *Juglans*, *Pithecellobium flexicaule*, *Quercus*, *Rhus*, *Sophora secundifolia*, *Zanthoxylum clava-herculis*.
Discussion: New state record. The range of this species just extends into the state. It is common farther south and is attracted to lights. One specimen examined: Picture Canyon, Baca County, reared from *Celtis* (RMGC).
Distribution: AZ, CO, KS, MO, NM, OK, TX, Mexico.
Counties: 63.

**Tribe Eumichthini**

*Poecilobrium chalybeum* (LeConte)
Hosts: *Acer*, *Rhus*, *Quercus*, *Prunus emarginata*, *Amelanchier*, *Ceanothus* spp. including *C. thyrsiflorus*.
Discussion: Adults have been collected on *Ceanothus*, *Rhus* and *Cercocarpus*. Linsley (1963) recorded this species from Colorado without specific locality.
Distribution: CA, CO, ID, MT, NM, OR, WA, BC, Mexico.
Counties: 57 (HFW).

**Tribe Molorchini**

*Molorchus bimaculatus* Say
Discussion: There are currently six subspecies recognized. The nominate subspecies and three other subspecies occur from Texas to Canada and the Atlantic coast. Two subspecies have been described from California. No attempt was made to assign the Colorado specimens to a subspecific level because only few specimens were available for study. Additionally, one specimen is in the author’s collection from extreme north-central New Mexico.
Counties: 17.

*Molorchus leonigolius* LeConte
Hosts: *Rhus*, *Quercus*, *Rhamnus*, and *Ceanothus*.
Discussion: New state record. Two specimens were examined with the same data: Larimer Co.: Big Thompson Canyon, Round Mt. Trail, V-22-1996.
Distribution: CA, CO, MT, OR, WA, BC.
Counties: 5.

**Tribe Callidiini**

*Callidiium antennatum hesperum* Casey
Hosts: *Pinus* spp. including *P. monophylla*, *P. ponderosa*, *P. jeffreyi*, *P. flexilis*, *P. aristata*, *Tsuga mertensiana*, *Pseudotsuga menziesii*.

Discussion: This is a widespread species, frequently encountered on fresh-cut host limbs.

Distribution: CA, CO, NM, OR, UT, WA, BC.

Counties: 5(DJHC), 7(DJHC), 14, 15, 16(DAL), 17, 20(RMGC), 24, 29(HFW), 32(DAL), 33(DAL), 34(DAL), 35, 37, 47.

**Callidium cicatricosum** (Mannerheim)

Hosts: *Abies grandis*, *Pseudotsuga menziesii*.

Discussion: Wickham's record for this species in Colorado requires verification. No specimens from the state have been examined. Its known distribution is farther north and west.

Distribution: AK, CO(?), ID, MT, OR, WA, AB, BC, YK.

Counties: 17(HFW).

**Callidium juniperi** (Fisher)

Hosts: *Juniperus*

Discussion: New state record. Montrose, VI-16-1925, identified by J. Knell. This species may prove to be only a synonym of *C. texanum* Schaeffer.

Distribution: CO, NM, OK, UT.

Counties: 47.

**Callidium texanum** Schaeffer

Hosts: *Juniperus* spp. including *J. osteosperma*, *J. virginiana*.

Discussion: This is a common species on fresh-cut juniper.

Distribution: CA, CO, FL, GA, IN, MS, NV, UT, TX, VA, WY.

Counties: 3, 5, 14, 15, 22(DAL), 40, 62.

**Elatotrypes hofari** (Fisher)

Type locality: Ute Pass, El Paso County, Colorado.

Hosts: *Pinus flexilis*, *P. ponderosa*, *Juniperus californica*.

Discussion: This species is uncommon in collections. Most known specimens have been reared. Craighead (1923) described the larva and larval habits of this species but considered it to be a species of *Xylocrus* at that time.

Distribution: CO, ID.

Counties: 32(type).

**Meryllium proteus** (Kirby)

Hosts: *Picea*, *Abies*, *Pinus*.

Discussion: Wickham listed this species in the genus *Merium*. This boreal species was reared from *Pinus contorta*, Rainbow Lodge, Grand Lake, in Grand County (RMGC).

Distribution: AK, CO, CT, ID, IN, ME, MI, MN, NJ, NY, OR, WI, AB, BC, MB, NT, ON, PQ, SK, YK.

Counties: 20(RMGC).

**Phymatodes blandus blandus** (LeConte)

Hosts: *Salix*.

Discussion: New state record. A single specimen was examined from Mesa Co., Fruita, suction trap, 1988, and identified by F. T. Hovore. This considerably extends the range of this species. The specimen fits the description of the nominate subspecies from the Sierra Nevada Mountains of California, although other subspecies are recognized from California.

Distribution: CA, CO, OR, WA.

Counties: 24.

**Phymatodes dimidiatus** (Kirby)

Hosts: *Larix*, *Picea*, *Tsuga*, *Pseudotsuga menziesii*.

Discussion: This species has been reported from Colorado only by Wickham. No specimens were examined by the author. Its presence in the state needs verification.

Distribution: CA, CO, NM, SD, WA, AB, BC.

Counties: 5, 28(HFW), 32, 34.

**Phymatodes maculicollis** (LeConte)

Hosts: *Abies bracteata*, *A. lasiocarpa*, *A. venusta*, *Picea engelmannii*.

Discussion: This species has been reported from Colorado only by Wickham. No specimens were examined by the author. Its presence in the state needs verification.

Distribution: CA, CO(?), ID, MI, MT, NY, OR, UT, WA, AB, BC, NB, PQ, YK.

Counties: 46(HFW), 57(HFW).

**Phymatodes varius** (Fabricius)

Hosts: *Vitis, Quercus alba*, *Q. emoryi*, *Carya*.

Discussion: Wickham listed this species as *P. variabilis* Fabricius.

Distribution: AR, AZ, CO, CT, GA, IA, IL, IN, KS, MA, MD, ME, MI, MN, MO, MS, NC, NJ, NM, NY, OH, OK, PA, RI, SC, UT, TX, VA, WI, ON, PQ.

Counties: 32, 33(RMGC), 46(HFW), 51.

**Phymatodes sp.**

Hosts: Unknown.

Discussion: A single, male specimen of an apparently undescribed species was collected near Colorado Springs. Kippenhan (pers. comm.) states that it was collected on a pile of firewood. The body is completely brown and medium-sized for species in this genus, with the antennae slightly exceeding the apex of the elytra. It keys out (Linsley, 1964) to *P. infuscatus* (LeConte) from California.

Distribution: CO.

Counties: 32(DJHC).
**Pronocera collaris collaris** (Kirby)

Hosts: *Picea, Pinus.*

Discussion: In Wickham's list this species is in the genus *Gonocalus.*

Distribution: AK, CO, ID, ME, MI, MN, MT, NC, NH, NM, NY, OH, OR, PA, VT, WA, WY, AB, BC, MB, NB, NF, NT, ON, PQ, SK, YK.

Counties: 4, 20, 46(HFW).

**Semanotus juniperi** (Fisher)

Hosts: *Juniperus spp., including J. osteosperma.*

Discussion: New state record. Larvae feed just under the bark of live trees and adults emerge in spring. This species is widely distributed but rarely encountered. Its relatively large emergence holes in the trunk or larger branches may help to locate it.

Distribution: AZ, CA, CO, ID, NM, TX.

Counties: 24, 50.

**Semanotus ligneus parvicollis** (Casey)

Hosts: *Juniperus osteosperma.*

Discussion: This was listed by Wickham as *Hylotrupes ligneus* Fabricius. Only one subspecies is being listed for Colorado, although the nominate subspecies is recorded by Linley (1964) as occurring in northern New Mexico. *S. l. conformis* is a synonym of this subspecies.

Distribution: AZ, CO, ID, UT.

Counties: 5(HFW), 17(HFW), 23, 26, 40, 50(MVNP), 51.

**Semanotus littigiosus** (Casey)

Hosts: *Abies spp, including A. bracteata, A. concolor, A. magnifica, A. grandis, A. lasiocarpa, Tsuga, Pseudotsuga menziesii, P. mucronata, Picea sitchensis.*

Distribution: CA, CO, ID, ME, MI, MN, MT, NH, NM, NY, OR, UT, VT, WA, WI, AB, BC, MB, NB, NT, ON, PQ, SK.

Counties: 5, 15, 51.

**Xylocris agastis** (LeConte)

Hosts: *Ribes.*


Distribution: CA, CO, ID, MT, NM, OR, UT, WA, BC

Counties: 17.

**Tribe Clytini**

**Callioides nobilis mormonus** Schaeffer

Hosts: Unknown.

Discussion: The larvae probably feed in moist dead stumps or dying trunks of *Quercus* or other hardwoods similar to *C. n. nobilis* (Harris) of eastern North America, or *C. ierquini* Buquet of California as described by Cope (1984). Two specimens from Colorado were examined: Paonia, VIII-11-1993 and North Cheyenne Canyon, Colorado Springs, VI-17-1972 (JDBC).

Distribution: AZ, CO, NM, UT, Mexico.

Counties: 14(RMGC), 25, 32(JDBC), 33(RMGC).

**Clytoleptus albofasciatus** (Castelnau and Gory)

Hosts: *Vitis, Corya.*

Discussion: Wickham's unique record is the only basis for inclusion. The specimen was noted as a "variety of *Clytanthus albofasciatus* Lap.". Its presence in Colorado needs verification.

Distribution: AL, CO, CT, FL, GA, IL, IN, KS, MD, MI, MO, NJ, NY, OH, OK, PA, VA, ON, PQ.

Counties: 57(HFW).

**Clytus canadensis** Hopping

Hosts: *Abies concolor.*

Discussion: This is a rather uncommon species throughout the central Rocky Mountain region.

Distribution: CO, ID, MT, NM, OR, WA, AB, BC.

Counties: 23(DJHC), 53, 57.

**Megacheuma brevipennis brevipennis** (LeConte)

Hosts: *Sarcobatus verruculatus, Atriplex mutallii, and A. confertifolia.*


Distribution: CO, ID, NV, OR, UT, WY.

Counties: 1.

**Megacyllene angulifera** (Casey)

Hosts: Unknown.

Discussion: New state record. Two specimens from Colorado were examined: Fort Collins, VII-30-1992 and County Hwy 90 (Larimer County), IX-27-1995. *Dalea candida* may possibly be a host plant. Craighead (1923) reported rearings of *Megacyllene infausta* LeConte, a synonym of *M. decora* (Oliver), from *D. candida* at Aweme, Manitoba. G. Hopping (1937) stated collectors misidentified *M. angulifera* as *M. infausta.* This species is very uncommon in collections.

Distribution: CO, KS, ND, SD, AB, MB, SK.

Counties: 5.

**Megacyllene caryae** (Gahan)

Hosts: *Carya, Celtis, Fraxinus, Gleditsia triacanthos, Juglans, Maclura, Morus, Prosopis glandulosa, Prunus, Quercus, Ulmus, Vitis.*

Discussion: This species is not yet known to be established in Colorado. Several specimens have been examined that were associated with firewood imported from eastern states. The species oviposits on recently dead or cut wood.

Distribution: AR, CT, GA, IA, IL, IN, KS, MA, MD, MI, MN, MO, MS, OH, OK, NC, NE, NJ, NY, PA, SC, TX, WV, ON, Mexico.

Counties: 14.
Megacyllene decora (Olivier)
Host: Amorpha fruticosa.
Discussion: Two old specimens were examined from Colorado. This attractive black and yellow species has an extremely variable elytral pattern. Wickham listed this species in the genus Cyllene. The larvae feed in the living root crown of the host (Rice, 1988). Adults of this and many Megacyllene species are attracted to Solidago (goldenrod) blossoms.
Distribution: AL, CO, FL, GA, IA, IL, IN, KS, MN, MO, MS, NC, NE, NM, NY, OH, OK, SC, SD, TX, VA, AB, MB
Counties: 16, 17(HFW).

Megacyllene lutoso (LeConte)
Type locality: “Kearns, near the Rocky Mts.” This species was described in 1861 and perhaps was collected when the Kansas Territory included the eastern half of Colorado.
Hosts: Unknown. Most larvae of this genus occur in Fabaceae (Leguminosae).
Discussion: An extremely rare species, apparently active in June.
No recent records are known from any state.
Distribution: CO?, IA, KS.
Counties: No county records located.

Megacyllene robiniae (Forster)
Hosts: Robinia pseudacacia.
Discussion: This eastern USA species has been introduced and established for quite some time.
Distribution: AL, CO, CT, FL, GA, IA, ID, IL, IN, KS, KY, MA, MD, ME, MI, MN, MO, MS, NE, NH, NJ, NY, OH, PA, SC, SD, VA, WA, WI, ON, PQ.
Counties: 5, 6, 8, 9(DAL), 13, 15, 16, 17, 24, 32, 38(DAL).

Megacyllene snowi snowi (Casey)
Host: Robinia.
Discussion: Tyson (1982) recorded a single specimen: Colorado Springs, VIII-1950. This specimen was not examined nor were any others from the state. It seems much more probable that the eastern subspecies M. s. zuania (Casey) would be found in the south-central part of the state as I have examined it from Bernalillo Co. NM. Besides the one record for CO, the nominate subspecies is only known from the west side of the Continental Divide.
Distribution: AZ, CO, NM.
Counties: 32(from Tyson, 1982).

Neoclytus acuminatus hesperus Linsley
Type locality: North Cheyenne Canyon, Colorado.
Hosts: Quercus, Pithecellobium pallens, Citrus, Zanthoxylum fagara, Baccharis angustifolia, Prosopis glandulosa, Eleagnus angustifolia (new host record).
Discussion: The nominate subspecies infests the dead wood of numerous hardwoods and occurs from Texas and the Great Plains across the eastern half of the USA and southern Canada. As there are no natural boundaries separating the subspecies, intergrades are common. The chief difference between the subspecies is coloration.
Distribution: CO, NM, TX, Mexico.
Counties: 5, 6, 15(DAL), 24, 40, 41, 60, 63.

Neoclytus approximatus (LeConte)
Hosts: Unknown.
Discussion: This species is rare in collections. Two old records are known from Colorado: Fort Collins, VI-28-1900 (2 specimens), and Wickham’s record “Morrison, August, Oslar coll.”.
Distribution: CO, KS, MO, OK, TX.
Counties: 5, 16(HFW).

Neoclytus caprea (Say)
Hosts: Celtis reticulata, Eucalyptus, Fraxinus, Carya, Ulmus, Quercus, Prosopis, Vitis, Juglans.
Discussion: This is a wide-ranging species that heavily infests fresh-cut firewood and lumber.
Distribution: AL, AR, AZ, CO, CT, GA, IA, IL, IN, KS, MD, MI, MO, MS, NC, NJ, NM, NY, OH, OK, PA, SC, SD, TX, UT, WY, ON, PQ.
Counties: 3, 5, 17, 24, 29(DAL), 41, 50, 51, 60.

Neoclytus leucozonus leucozonus (Castelnau and Gory)
Hosts: Picea, Larix.
Discussion: Wickham recorded this species as N. muricatulus Kirby but that name was synonymized with N. leucozonus by Hoffman (1988). Regarding N. ascendens LeConte, Hopping (1932) states “It is possibly a variation of muricatulus, but until more material is available, the markings are distinctive enough to retain it as a distinct species. ... The specimen before me was taken with a series of muricatulus on telegraph poles at Edmonton, Alberta.” The author examined the holotype of N. ascendens LeConte [MCZC] from “Leavenworth Valley, ab. Georgetown, Colo. 9,000 to 10,000 ft.” A distinguishing feature of the holotype are the unbroken subbasal elytral fasciae which extends from the suture to the elytral margins and curves upwards toward the humeri. All other pubescent fasciae and features of the holotype are identical to most specimens of N. leucozonus. Variations in the width of the subapical elytral fasciae are not uncommon in specimens of N. leucozonus from Colorado. The author considers N. ascendens LeConte to be conspecific with N. leucozonus leucozonus (new synonymy).
Distribution: AK, CO, CT, ID, IN, ME, MI, MN, MT, ND, NE, NH, NM, NY, OR, SD, NY, UT, VA, WA, WI, WY, AB, BC, LB, MB, NB, NF, NS, NT, ON, PE, PQ, SK, YK.
Counties: 1, 5, 16(RMGC), 17, 18, 19(HFW), 20, 26(RMGC), 28(HFW), 29, 30(RMGC), 32(HFW), 33, 36, 43, 46(HFW), 49(HFW), 52.

Neoclytus magnus Schaeffer
Hosts: Adenostoma fasciculatum.
Discussion: There is only one record of this species from Colorado. All other records of this species are from Southern California and northwest Mexico.

Distribution: CA, CO. Mexico.

Counties: 23(from Cope, 1984).

*Neoclytus mucronatus vogti* Linseley


Distribution: Counties: 22, 23, 24, 26, 43(HFW), 46(HFW), S7(HFW), 31(type). Type locality: Florissant, Colorado elev.

Hosts: Acer, Carya, Castanea, Fagus, Fraxinus, Juglans, Quercus alba, Q. nigra, Pinus virginiana, Tsuga canadensis, Ulmus.

Discussion: New state record. Specimens of this subspecies have been collected on *Sapindus drummondii* and some have been reared from *Celtis*. 

Counties: 63.

Some of the *Xylotrechus* from Colorado, as well as other mountain states are difficult to identify using existing taxonomic treatments due to variations in the size and shape of the elyтрal markings.

*Xylotrechus annosus emotus* Brown

Hosts: Populus tremuloides, P. trichocarpa.

Distribution: CA, CO, ID, MT, NV, OR, UT, WA, BC. Counties: 22, 23, 24, 26, 43(HFW), 46(HFW), 51(HFW), 52, 57(HFW).

*Xylotrechus bowditchi bowditchi* Hopping

Type locality: Florissant, Colorado elev. 8,000 ft.

Hosts: Picea...

Distribution: AZ, CO, UT. Counties: 31(type).

*Xylotrechus bowditchi hoppingi* Linseley

Hosts: Abies, Picea, Pinus.

Distribution: CO, NM. Counties: 5, 16(RMGC).

*Xylotrechus colomus* (Fabricius)

Hosts: Acer, Carya, Castanea, Fagus, Fraxinus, Juglans, Quercus alba, Q. nigra, Pinus virginiana, Tsuga canadensis, Ulmus. 

Discussion: New state record. One specimen was examined from Larimer Co., Ft. Collins, X-19-1962. This species is very common in eastern North America.

Distribution: AL, AR, CO, CT, DE, FL, GA, IA, IL, IN, KS, LA, MA, MD, ME, MI, MN, MO, MS, NC, ND, NE, NH, NJ, NY, OH, OK, PA, RI, SC, SD, TN, TX, VA, VT, WI, WV, MB, NB, ON, PQ.

Counties: 5.

*Xylotrechus longitarsis* Casey

Hosts: Pseudotsuga menziesii.

Discussion: Specimens reported by Wickham as *X. undulatus* (Say) are presumably this species. Available series of specimens from Colorado show considerable variation in the markings on the elytra, including specimens where the subbasal elytral fasciae are band-like and do not curve upward along the elytral suture. Specimens with these band-like markings key out (Linseley, 1964) to *X. robustus* Hopping or *X. gemellus* Casey.

Distribution: CA, CO, ID, MT, OR, SD, WA, WA, AB, BC, NT. Counties: 5, 17, 29(HFW), 30, 31(HFW), 32, 55(GSDC).

*Xylotrechus obliteratus* LeConte

Type locality: “Colorado”

Hosts: Populus tremuloides.

Discussion: The larvae feed in the lower trunk and roots. R. Gemmill (pers. comm.) states that he found this species to be active in June and July where wind or snow has toppled infested trees on steep south-facing slopes. Hopping (1932) incorrectly reported *X. mormonus* LeConte as occurring in CO, NM, and UT and *X. obliteratus* LeConte as occurring in CO and the Pacific Northwest area.

Distribution: CO, NM.

Counties: 5, 20(RMGC), 26(RMGC), 40, 45(RMGC), 53(RMGC), 58.

*Xylotrechus robustus* Hopping

Type locality: “Griffith Mill, Estes Park, Colorado, 7,800 ft.” Hosts: Picea First host record.

Discussion: A specimen was taken in Gunnison Co: “Soap Creek N of Blue Mesa Reservoir, VII-12-1992, emerged from spruce” [RMGC]. R. Gemmill (pers. comm.) states that he found adults on the sun-scarred bark of living Engelmann spruce, lodgepole pine and sub-alpine fir in August and September. Two specimens from a short series collected by Gemmill have the subbasal elytral fasciae curving upwards along the suture as in *X. longitarsis*. The author examined two syntypes of *X. gemellus* Casey [USNM]. One is labeled “ind.” (for Indiana) and the other is unlabelled. These syntypes are very similar to some specimens of *X. robustus* and *X. longitarsis* that have band-like subbasal elytral fasciae. There is a reasonable chance that the type locality of *X. gemellus* is incorrect since it has not been recollected since it was described.

Distribution: AZ, CO.

Counties: 5, 20(RMGC), 26(RMGC), 29, 46(EMEC).

*Xylotrechus sagittatus* sagittatus (Germar)

Hosts: Pimus spp. including *P. virginiana*, Abies, Picea.

Distribution: AL, AR, CO, CT, FL, GA, IN, IA, LA, MA, MD, ME, MI, MN, MO, MS, NC, NJ, NM, NY, OH, OK, PA, SC, TN, TX, VA, WI, MB, ON, PQ.

Counties: 5.
Tribe Rhopalophorini

Rhopalophora meskei Casey
Hosts: Pinus.
Discussion: This was formerly considered a subspecies of R. longipes (Say). Wickham’s records for R. longipes are assumed to belong here because the two species are allopatric.
Distribution: AZ, CO, NM, SD, TX, UT, Mexico, Guatemala.
Counties: 5, 15(HFW), 17, 30, 31, 32, 42(DNHC), 50(MVNP), 51(HFW), 52.

Rhopalophora rugicollis rugicollis LeConte
Hosts: Ptelea angustifolia, Zanthoxylum clava-herculis, Pinus sylvestris, Salix.
Discussion: Wickham’s record of this species taken in the “Upper San Juan” (Archeuta Co.) is possible considering the wide range of this species.
Distribution: AZ, CO, NM, TX, Mexico.
Counties: 52 (HFW).

Tribe Trachyderini

Amanthus vittiger LeConte
Hosts: Atriplex spp., probably including A. canescens and A. confertifolia.
Discussion: New state record. Adults have been taken on the blossoms of Sphaeralcea. This species is active in June or earlier.
Distribution: AZ, CO, ID, NM, TX, UT.
Counties: 41(DNHC), 47(DJHC).

Batyle ignicollis ignicollis (Say)
Hosts: Pinus, Hypericum spathulatum, Rhus aromatica.
Discussion: This species is frequently collected on flowers.
Distribution: AL, AR, CO, KS, LA, MO, MT, NC, ND, NM, OH, OK, SC, SD, TX, UT, AB, Mexico.
Counties: 5, 6, 11, 16, 17, 22, 29, 40, 47, 52, 55, 58, 60, 61, 62.

Batyle suturalis infuscatus Linsley
Type locality: “Paonia, Delta County, Colorado”.
Hosts: Unknown.
Discussion: No specimens of this subspecies were available, however B. s. pearsalli (Bland) was also seen from Delta County. Linsley (1962b) states that some subspecies may eventually be given specific rank upon further study.
Distribution: CO.
Counties: 25.

Batyle suturalis pearsalli (Bland)
Hosts: Unknown. B. s. suturalis (Say), from the eastern USA has been reared from Carya, Quercus, and Castanea.
Discussion: This species is commonly collected on flowers.
Distribution: CO, KS, MT, NE, NM, SD, WY, AB, MB, SK.
Counties: 5, 6, 7, 13, 14, 15, 16, 23, 24, 25, 28, 29, 32, 33, 38, 40, 41, 42, 43, 47, 50, 51, 52, 55, 56, 57, 58, 59, 61, 62, 63.

Batyle sp.
Hosts: Unknown.
Discussion: This form is distinguished from other Batyle species by its black pronotum and red elytra. Specimens have been taken in the Great Sand Dunes National Monument area in early August on flowers. Further study is required to determine its taxonomic status.
Distribution: CO.
Counties: 43, 55.

The genus Crossidius is represented by five species in Colorado. Adults are active in late summer and early autumn where they congregate on their host plants, usually on the flowers. The larvae feed in the living root crowns.

Crossidius ater LeConte
Hosts: Artemisia tridentata, Chrysothamnus viscidiflorus, C. nauseosus, Haplopappus suffrutescens, H. bloomeri.
Distribution: AZ, CA, CO, ID, MT, NV, OR, UT, WA, WY.

Crossidius coralinus coralinus (LeConte)
Hosts: unknown.
Discussion: This species has 13 described subspecies. According to Linsley and Chemsak (1961), the nominate subspecies is found in extreme southwestern Colorado and the adjacent region of New Mexico.
Distribution: CO, NM.
Counties: 50, 52.

Crossidius coralinus fulgidus Chemsak and Linsley
Hosts: Chrysothamnus nauseosus.
Discussion: New state record. Linsley and Chemsak (1961) list the range for this subspecies as Duchesne and Uintah Counties, UT. A series of specimens were examined from Moffat Co., 3 mi. W Dinosaur, VIII-8-1986.
Distribution: CO, UT.
Counties: 1.

Crossidius coralinus jocosus (Horn)
Type locality: “Colorado”.
Hosts: Unknown.
Discussion: This appeared in Wickham’s list as Oxopius jocosus Horn. Linsley and Chemsak (1961) list this subspecies as occurring in the south-central region of the state.
Distribution: CO.

Crossidius coralinus ssp.
Discussion: It is beyond the scope of this paper to refer all specimens of C. coralinus to a particular subspecies because many intermediate populations exist.
Crossidius discoides blandi Casey  
**Hosts:** Xanthocephalum sarothrae, Gutierrezia spp. including G. californica, G. lucida, G. microcephala, Haplopappus spp. including H. gracile, H. spinulosus, H. scabrreis, H. hartweyi, H. venetus, Chrysopsis.  
**Discussion:** New state record. One specimen was examined from Durango, CO.  
**Distribution:** AZ, CA, CO, ID, NM, NV, TX, UT, AB, Mexico.  
** Counties:** 2, 5, 6, 24, 25, 47.

Crossidius discoides sayi Casey  
**Hosts:** Unknown.  
**Discussion:** This common subspecies occurs throughout eastern Colorado.  
**Distribution:** CO, KS, NM, WY.  
** Counties:** 5, 6, 15(HFW), 16, 17, 23, 24, 32, 34, 41(HFW), 42(HFW), 57(HFW), 63.

Crossidius hirtipes allgewahri LeConte  
**Hosts:** Unknown.  
**Discussion:** New state record.  
**Distribution:** CO, ID, UT, WY.  
** Counties:** 1, 23, 47.

Crossidius hirtipes wickhami Casey  
**Hosts:** Unknown.  
**Discussion:** New state record. Assignment of specimens to this subspecies is tentative due to lack of comparative material.  
**Distribution:** AZ, CO, NV, UT.  
** Counties:** 55, 57.

Crossidius pulchellus LeConte  
**Hosts:** Xanthocephalum spp including X. sarothrae, X. lucida, X. microcephala, X. longifolia, X. microphylla, Haplopappus spp. including H. hartweyi.  
**Distribution:** AZ, CA, CO, ID, KS, MO, MT, ND, NE, NM, SD, TX, UT, AB, Mexico.  
** Counties:** 1, 5, 6, 15(HFW), 17, 23, 24, 25, 31(LGBC), 32, 43, 51(Linsley and Chemsak, 1961), 55, 57(HFW), 59, 62.

Tragidion coquus (Linnaeus)  
**Hosts:** Quercus, Acsia.  
**Discussion:** This large handsome species is sometimes found on roadside flowers in late summer and autumn. Two specimens from Routt County were notably smaller than average. The elytra of this species are usually brownish-orange, however specimens with all black elytra or black with a single brownish-orange spot on each elytron are not unusual.  
**Distribution:** AL, AR, AZ, CO, FL, GA, IA, IL, IN, KS, KY, LA, MD, MO, MS, NC, NJ, NM, NY, OH, OK, PA, SC, SD, TN, TX, UT, VA.

Counties: 3, 5, 11, 12, 17, 23, 32, 33(RMGC), 50, 53, 54(HFW), 61.

**Subfamily Lamiinae**

**Tribe Moneilemini**

*Moneilema* feed on cactus, *Opuntia* spp., as larvae and adults. Adults are active in summer and may be found on cacti at night or during the cooler or overcast periods of the day. Being flightless and restricted to one food source, species of *Moneilema* are generally localized. Four species, all black, with a great deal of variation in punctuation and relative size, are currently recognized in Colorado.

*Moneilema annulatum* Say  
**Hosts:** *Opuntia phaeacantha, O. polyacantha.*  
**Distribution:** CO, KS, MT, ND, NE, NM, OK, SD, WA, AB, SK.  
** Counties:** 5, 6, 17, 32, 40, 41(HFW), 58, 59(DNHC), 60.

*Moneilema appressum* LeConte  
**Hosts:** *Opuntia spp.* including *O. arbuscula, O. imbricata, O. spinosior, O. versicolor.*  
**Distribution:** AZ, CO, NM, TX, Mexico.  
** Counties:** 43, 54, 55, 56, 57.

*Moneilema armatum* LeConte  
**Hosts:** *Opuntia spp.* including *O. violacea, O. arbuscula, O. imbricata, O. robusta, O. spinosior and probably O. arborescens, O. engelmanni, O. macrocentra.*  
**Discussion:** *Moneilema laevigatum* Bland, included by Wickham, is a synonym of this species.  
**Distribution:** AZ, CO, KS, NM, OK, TX, Mexico.  
** Counties:** 5, 15(DNHC), 32, 40, 41(Psota, 1930), 50, 58, 59, 60, 61, 63.

*Moneilema semipunctatum* LeConte  
**Hosts:** *Opuntia spp.* including *O. acanthocarpa, O. basilaris, O. echinocarpa, O. erinacea, O. parryi, O. whipplei.*  
**Distribution:** AZ, CA, CO, ID, NM, NV, UT, Mexico.  
** Counties:** 1, 50.

**Tribe Lamiini**

*Goes tesselatus* (Haldeman)  
**Hosts:** *Quercus, Castanea, Ulmus, Amelanchier.*  
**Discussion:** The type locality for *Hammoderus amplipennis* Casey, a synonym of *G. tesselatus* (Haldeman) is “Colorado” (no further data). This species is wide-ranging, but not commonly collected. It is attracted to lights. No other records for Colorado exist and its presence in the state requires verification.  
**Distribution:** AL, AR, CO?, FL, GA, IA, IL, IN, KS, LA, MA, MD, MI, MN, MO, MS, NC, NE, NJ, NY, OH, OK, PA, SC, TN, TX, VA, WI, WV.  
** Counties:** No county records located.
Monochamus clamator clamator (LeConte)
Hosts: *Pinus, Pseudotsuga*.
Discussion: This species appeared in Wickham’s list as *Monohamus maculatus* Horn.
Distribution: AZ, CO, NM, SD, TX, UT.
Counties: 4, 5, 15, 16(DNHC), 18, 17, 24, 29, 30, 31, 32, 34, 38(DAL), 42(7(HFW)), 47, 50, 52, 55, 58.

Monochamus scutellatus scutellatus (Say)
Hosts: *Pinus* spp. including *P. virginiana, P. ponderosa* and others, *Pseudotsuga, Abies, Picea*.
Discussion: Linsley and Chemsak (1985) show a locality in northern Colorado for the subspecies *M. s. oregonensis* LeConte. However this locality is surrounded by records of the nominate subspecies.
Distribution: AK, AZ, CO, CT, FL, GA, ID, IN, MA, MD, ME, MI, MN, MT, NC, ND, NH, NJ, NM, NV, NY, OH, RI, SC, TN, UT, VA, VT, WI, WY, AB, BC, LB, MB, NB, NF, NS, NT, ON, PE, PQ, SK, YK.
Counties: 1(DNMC), 3(DAL), 4, 5, 17, 18, 19(DNHC), 22(DNHC), 23(HFW), 26, 28(HFW), 29, 30, 32, 33(DNHC), 46(HFW), 47, 51(HFW), 52, 53, 54(HFW), 55(GSDC).

*Electrodera scalator* (Fabricius)
Hosts: *Populus* spp. especially *P. deltoids, Salix*.
Discussion: This wide-ranging species is common in the southern and central Great Plains. It is diurnal and found on live trunks of its hosts from middle to late summer.
Distribution: AL, AR, CO, FL, GA, IA, IL, IN, KS, LA, MD, MI, MO, MS, MT, ND, NE, NJ, NM, NY, OH, OK, PA, SC, SD, TN, TX, Mexico.
Counties: 5, 12, 13(DNHC), 33(DNHC), 60, 61(DAL), 62(DAL).

Tribe Dorcaschematini
*Dorcaschema alternatum* (Say)
Hosts: *Machaera pomifera, Morus*.
Distribution: AL, AR, CO, FL, GA, IA, IL, IN, KS, KY, MA, MD, MI, MN, MO, MS, NC, NJ, NY, OH, OK, PA, SC, SD, TN, TX, VA.
Counties: 60.

*Tribe Apomecynini
*Adetus brouxi* (Horn)
Hosts: *Curcurbita foetidissima*.
Discussion: New state record. This species is active from May to July and is always associated with *Curcurbita*.
Distribution: CO, KS, NM, TX, Mexico.
Counties: 11, 61, 63.

Tribe Pteropliini
*Ataxia hubbardi* Fisher
Discussion: This species is readily attracted to lights.
Distribution: AR, AZ, CO, KS, MO, NE, NM, OK, TX, Mexico.
Counties: 35, 60, 61, 62, 63.

Tribe Pogonocherini
*Pogonocherus (Pogonocherus) penicillatus* LeConte
Hosts: *Picea*.
Discussion: AK, CO, ME, MI, NH, NY, AB, BC, NB, NF, NS, NT, ON, PE, PQ.
Counties: 20(RMGC).

*Pogonocherus (Eupogonocherus) mixtus* Haldeman
Hosts: *Larix, Pinus, Picea, Pyrus, Salix*.
Discussion: *P. simplex* LeConte, a synonym of *P. mixtus* Haldeman, appeared on Wickham’s list. No specimens of *P. mixtus* have been examined from Colorado.
Distribution: CO, CT, FL, GA, ID, IL, IN, IA, MA, MD, ME, MI, MN, MO, MS, MT, NC, ND, NH, NJ, NM, NY, OH, PA, SC, SD, VA, VT, WA, WI, WV, AB, BC, MB, NB, NT, ON, PQ, YK.
Counties: 5(HFW), 7(HFW), 17(HFW), and additional localities in the center and southwestern corner of Colorado are shown on a map (Linsley and Chemsak, 1985).

*Pogonocherus (Eupogonocherus) parvulus* LeConte
Hosts: *Salix*.
Discussion: CO, MA, MI, ND, NJ, NY, PA, SD, UT, AB, MB, ON, PQ, SK.
Counties: 5, 32(Craighead, 1923).

*Pogonocherus (Eupogonocherus) pictus* (Fall)
Type locality: Telluride, Colorado.
Hosts: *Pinus ponderosa, Larix occidentalis, Populus trichocarpa, P. tremuloides*.
Discussion: *P. mixtus* Haldeman on Wickham’s list might be this species, which was undescribed at the time.
Distribution: AZ, CA, CO, MT, NM, NV, OR, SD, UT, WY, AB, BC, NT.
Counties: 4, 5, 17(DJHC), 18, 19(HFW), 21(HFW), 24, 28(HFW), 32, 46(HFW), 48(type locality), 57(HFW).

*Pogonocherus (Eupogonocherus) propinquus* (Fall)
Hosts: *Pinus contorta, P. monticola, P. ponderosa, Picea*.
Discussion: Linsley and Chemsak (1985) state that the range of this species extends to Colorado. No specimens have been located so far.
Distribution: CA, CO, ID, MT, NV, OR, WA, BC.
**Psecocerus supernotatus** (Say)

*Hosts:* *Carya, Castanea, Cornus, Ribes, Quercus, Celastrus, Liquidambar, Rhus, Salix, Parthenocissus, Lonicera, Euonymus, Ulmus, Liriodendron, Memispermum, Malus, Vitis.*

*Discussion:* New state record. Only two specimens from Colorado were examined of this widespread eastern species. *P. tristis* Casey, a synonym, was described from one specimen unquestionably from New Mexico.

*Distribution:* AR, CO, CT, DE, GA, IA, IL, IS, KS, KY, MA, MD, ME, MI, MN, MO, MS, NC, ND, NE, NH, NJ, NM, NY, OK, OK, PA, RI, SC, SD, TN, TX, PA, VA, VT, WI, WV, MB, NB, ON, PQ.

*Counties:* 5.

**Acanthocinus leeche** Dillon

*Hosts:* *Pinus monophylla.*


*Distribution:* AZ, CO.

*Counties:* 24.

**Acanthocinus obliquus** (LeConte)


*Discussion:* This is the smallest member of the genus in Colorado and it is rather common.

*Distribution:* AZ, CA, CO, ID, MT, NM, NV, OR, SD, UT, WA, AB, BC, Mexico.

*Counties:* 2, 5, 17, 18, 24, 29, 32, 46, 52, 58.

**Acanthocinus spectabilis** (LeConte)

*Hosts:* *Pinus ponderosa, P. scopulorum, P. chihuahuana.*

*Discussion:* Females of the genus typically lay their eggs on recently dead or dying pine. They are easily recognized by the long antennae which are 2.5 to 4 times the body length in males and somewhat shorter in females.

*Distribution:* AZ, CO, MT, NM, SD, UT, Mexico.

*Counties:* 5, 17, 32.

**Dectes texanus** LeConte


*Discussion:* Wickham's records of *D. spinosus* Say are probably this species.

*Distribution:* AL, AR, AZ, CO, CT, FL, GA, IA, IL, IN, KS, KY, MD, MI, MN, MO, MS, MT, NC, ND, NE, NJ, NM, NY, OH, PA, SC, SD, TN, TX, WA, WV, WY, Mexico.

*Counties:* 5(HFW), 6, 15(DHNC), 16(HFW), 17, 32(HFW), 40(HFW), 41, 59, 60(HFW), 63.

**Eutrichillus pini** Schaeffer

*Hosts:* *Pinus edulis, P. ponderosa.*

*Discussion:* This is a small species that is not uncommon in the southern part of its range.

*Distribution:* AZ, CO, NM, Mexico.

*Counties:* 32.

**Hyperplatys aspersa** (Say)

*Hosts:* *Acer spp. including A. grandidentatum, Alnus, Amelanchier, Carya, Castanea, Celastrus, Celtis, Cercocarpus, Cornus, Fraxinus, Juglans, Linderia, Liriodendron, Malus, Populus, Prunus spp. including P. melanocarpa, Rhus, Robinia, Salix, Tilia, Ulmus.*

*Discussion:* Since Wickham's records predate the description of *H. montana* Casey, his records are not certain. R. Gemmill (pers. comm.) collected a long series of this species by beating Alnus.

*Distribution:* CO, CT, GA, IA, IN, MA, MD, ME, MI, MN, MO, MS, MT, NC, ND, NE, NJ, NY, OH, PA, SC, SD, VA, WI, AB, BC, MB, NB, NF, NS, ON, PQ, SK.

*Counties:* 16(RMGC), 43(HFW), 46(HFW), 52(HFW).

**Hyperplatys montana** Casey [status revalidated]

*Hosts:* *Acer rubrum, Prunus.*

*Type locality:* Boulder, Colorado.

*Discussion:* Linsley and Chemsak (1995) synonymized *H. montana* Casey with *H. aspersa* (Say). However, the lateral elytra carinae are prominent on *H. aspersa*. On *H. montana*, they are subobsolete (Dillon, 1956). Examination of a series of *H. montana* reared from *Prunus* (RMGC) does not have any specimens with prominent lateral elytra carinae. A series of *H. aspersa* taken on *Alnus* (RMGC) has all specimens with prominent lateral elytra carinae. J. Cope (pers. comm.) states that among numerous *H. aspersa* which he has collected in Montana, there have not been any specimens of the *H. montana* phenotype.

*Distribution:* AZ, CA, CO, NM, UT.

*Counties:* 5, 6, 17, 32(RMGC), 34, 58.

**Liopinus alpha** (Say)

*Hosts:* *Acer spp. including A. negundo, Alnus, Amelanchier, Carya, Castanea, Celastrus, Celtis, Citrus, Diospyros, Ficus, Gleditsia, Juglans, Malus, Morus, Platanus, Quercus, Rhus spp. including R. glabra, R. hydra, R. copallina, R. typhina, Robinia, Ulmus, Usteria, Zanthoxylum.*
Counties:

*Saperda inornata* (Say)

**Discussion:** Wickham listed this species in the genus *Liopus*. Linsley and Chemsak (1995) moved all the *Sternidius* species into this new genus, *Liopus*. Species in this genus are small, variable and generally difficult to identify.

**Distribution:** AL, AZ, CA, CO, CT, FL, GA, IA, IL, IN, KS, MA, MD, MI, MN, MO, MS, MT, ND, NJ, NM, NY, OH, PA, SC, SD, TX, VA, WI, WY, AB, MB, NB, NS, ON, PQ.

**Counties:** 6(DAL), 11, 15, 16(DNHC), 20(RMGC), 51, 55(DNHC), 58(DAL), 61.

**Saperda lateralis** Fabricius

**Hosts:** *Acer, Alnus, Carpinus, Carya, Fraxinus, Prunus, Quercus, Rhus, Sambucus, Tilia, Ulmus.*

**Discussion:** New state record. One specimen examined: Yuma Co., Laird, VI-12-1994.

**Distribution:** AL, CO, CT, FL, GA, IA, IL, IN, KS, MA, MD, MI, MN, MO, MS, ND, NE, NJ, NY, OH, OK, PA, RI, SC, SD, TX, VA, VT, WI, WV, MB, NB, NS, ON, PQ.

**Counties:** 11.

**Liopus imitans** (Knall)

**Hosts:** Unknown.

**Discussion:** New state record. One specimen was examined from Montezuma Co., VII-18-1990. It was identified by F. T. Hovore. Adults have been collected on foliage of *Quercus*, which is probably the host.

**Distribution:** AZ, CO, TX.

**Counties:** 50.

**Saperda calcarata** Say

**Hosts:** *Populus* spp. including *deltoide*, *P. nigra*, *P. tremuloides*, *Salix*.

**Discussion:** The larvae of this species can cause extensive damage to infested trees.

**Distribution:** AL, CA, CO, CT, GA, IA, ID, IL, IN, KS, MA, MD, ME, MI, MO, MS, MT, ND, NE, NJ, NM, NV, NY, OH, OK, OR, PA, RI, SC, SD, TX, UT, VA, WI, AB, MB, NB, ON, PQ, SK.

**Counties:** 3, 5, 11, 17, 26(HFW), 35, 58.

**Saperda inornata** Say

**Hosts:** *Populus, Salix longifolia, S. concolor, S. exigua.*

**Discussion:** Included here is Wickham's record for *Mecas inornata Say*. *Saperda concolor* LeConte is a synonym of this species.

**Distribution:** AL, AZ, CO, CT, IA, ID, IN, MA, MI, MO, MT, NC, ND, NJ, NM, NY, OH, PA, RI, SD, TX, WI, AB, MB, NB, NF, NS, ON, PQ, SK.

**Counties:** 5, 6, 11, 17, 26(HFW), 35, 58.

**Saperda populnea moesta** LeConte

**Hosts:** *Populus* spp. including *P. balsamifera, Salix*.

**Discussion:** Specimens identified as this species in CSUC by Wickham are *S. inornata* Say. One old specimen of *S. populnea moesta* with only “Colo” on the label was examined.

**Distribution:** CO, CT, IA, ID, IL, IN, MI, MT, NY, OH, PA, WI, WY, AB, BC, LB, MB, NT, ON, PQ, SK, YK.

**Counties:** No county records located. Wickham’s records for 5, 46, and 52 are possibly this species or *S. inornata* Say.

**Saperda tridentata** Olivier

**Discussion:** New state record.

**Hosts:** *Ulmus* spp. including *U. americana* and *U. rubra*.

**Distribution:** AL, AR, CO, CT, FL, GA, IA, IL, IN, KS, KY, MA, MD, ME, MI, MN, MO, MS, NC, NE, NH, NJ, NY, OH, OK, PA, RI, SC, SD, TN, TX, UT, WA, WI, WY, AB, BC, LB, MB, ON, PE, PQ, SK.

**Counties:** 5, 6(DAL), 7, 8(DAL), 15, 16(DNHC).

**Tribe Saperdini**

**Saperda calcarata** Say

**Hosts:** *Populus* spp. including *deltoide*, *P. nigra*, *P. tremuloides*, *Salix*.

**Discussion:** The larvae of this species can cause extensive damage to infested trees.

**Distribution:** AL, CA, CO, CT, GA, IA, ID, IL, IN, KS, MA, MD, ME, MI, MO, MS, MT, ND, NE, NJ, NM, NV, NY, OH, OK, OR, PA, RI, SC, SD, TX, UT, VA, WI, AB, MB, NB, ON, PQ, SK.

**Counties:** 3, 5, 11, 17, 26(HFW), 35, 58.

**Saperda lateralis** Fabricius

**Hosts:** *Acer, Alnus, Carpinus, Carya, Fraxinus, Prunus, Quercus, Rhus, Sambucus, Tilia, Ulmus.*

**Discussion:** New state record. One specimen examined: Yuma Co., Laird, VI-12-1994.

**Distribution:** AL, CO, CT, FL, GA, IA, IL, IN, KS, MA, MD, MI, MS, NC, ND, NE, NJ, NY, OH, OK, PA, RI, SC, SD, TX, VA, VT, WI, WV, MB, NB, NS, ON, PQ.

**Counties:** 11.

**Liopus imitans** (Knall)

**Hosts:** Unknown.

**Discussion:** New state record. One specimen was examined from Montezuma Co., VII-18-1990. It was identified by F. T. Hovore. Adults have been collected on foliage of *Quercus*, which is probably the host.

**Distribution:** AZ, CO, TX.

**Counties:** 50.

**Saperda calcarata** Say

**Hosts:** *Populus* spp. including *deltoide*, *P. nigra*, *P. tremuloides*, *Salix*.

**Discussion:** The larvae of this species can cause extensive damage to infested trees.

**Distribution:** AL, CA, CO, CT, GA, IA, ID, IL, IN, KS, MA, MD, ME, MI, MO, MS, MT, ND, NE, NJ, NM, NV, NY, OH, OK, OR, PA, RI, SC, SD, TX, UT, VA, WI, AB, MB, NB, ON, PQ, SK.

**Counties:** 3, 5, 11, 17, 26(HFW), 35, 58.

**Saperda inornata** Say

**Hosts:** *Populus, Salix longifolia, S. concolor, S. exigua.*

**Discussion:** Included here is Wickham’s record for *Mecas inornata Say*. *Saperda concolor* LeConte is a synonym of this species.

**Distribution:** AL, AZ, CO, CT, IA, ID, IN, MA, MI, MO, MT, NC, ND, NJ, NM, NY, OH, PA, RI, SD, TX, WI, AB, MB, NB, NF, NS, ON, PQ, SK.

**Counties:** 5, 6, 11, 17, 26(HFW), 35, 58.

**Saperda lateralis** Fabricius

**Hosts:** *Acer, Alnus, Carpinus, Carya, Fraxinus, Prunus, Quercus, Rhus, Sambucus, Tilia, Ulmus.*

**Discussion:** New state record. One specimen examined: Yuma Co., Laird, VI-12-1994.

**Distribution:** AL, CO, CT, FL, GA, IA, IL, IN, KS, MA, MD, MI, MS, NC, ND, NE, NJ, NY, OH, OK, PA, RI, SC, SD, TX, VA, VT, WI, WV, MB, NB, NS, ON, PQ.

**Counties:** 11.

**Saperda populnea moesta** LeConte

**Hosts:** *Populus* spp. including *P. balsamifera, Salix*.

**Discussion:** Specimens identified as this species in CSUC by Wickham are *S. inornata* Say. One old specimen of *S. populnea moesta* with only “Colo” on the label was examined.

**Distribution:** CO, CT, IA, ID, IL, IN, MI, MT, NY, OH, PA, WI, WY, AB, BC, LB, MB, NT, ON, PQ, SK, YK.

**Counties:** No county records located. Wickham’s records for 5, 46, and 52 are possibly this species or *S. inornata* Say.

**Saperda tridentata** Olivier

**Discussion:** New state record.

**Hosts:** *Ulmus* spp. including *U. americana* and *U. rubra*.

**Distribution:** AL, AR, CO, CT, FL, GA, IA, IL, IN, KS, KY, MA, MD, ME, MI, MN, MO, MS, NC, NE, NH, NJ, NY, OH, OK, PA, RI, SC, SD, TN, TX, UT, WA, WI, WY, AB, BC, LB, MB, ON, PE, PQ, SK.

**Counties:** 5, 6(DAL), 7, 8(DAL), 15, 16(DNHC).

**Tribe Phytoeciini**

**Mecas (Mecas) bicallosa** Martin

**Hosts:** *Artemisia tridentata*.

**Discussion:** Adults have been collected on foliage of *Artemisia tridentata, A. tripartita*, and *A. arbuscula* during midsummer.

**Distribution:** CA, CO, ID, NV, OR, UT, WA, BC, Mexico.

**Counties:** 50.

**Mecas (Mecas) cana saturnina** (LeConte)

**Hosts:** *Ambrosia, Gaillardia, Helianthus* spp. including *H. maximiliana*, *Iva, Parthenium, Xanthium*.

**Discussion:** New state record. *M. cana saturnina* is separated from *M. bicallosa* by the longer antennae, using the generic key (Linsley and Chemsak, 1995). Based on the current records and available specimens, it appears that *M. bicallosa* is found only west of the Continental Divide, and *M. cana saturnina* is found on the east side. But all specimens from eastern Colorado have shorter antennae than normal for this subspecies.

**Distribution:** AL, CO, GA, KS, MO, MS, SD, TX, Mexico.

**Counties:** 6(DNHC), 11, 38, 59, 60, 61, 63.

**Mecas (Mecas) cineracea** Casey

**Hosts:** *Helenium microcephalum, Baileya multiradiata.*
Oberea

Counties: 39, 42 (HFW).

Discussion: New state record. Rice (1985) reported collecting a large series of mating pairs on *Thelesperma* in northwest Texas.

Distribution: AL, AR, CO, MS, NC, NM, SC, TX.

Counties: 5, 15 (HFW), 16, 23, 32 (HFW), 34, 52, 60, 62.

*Mecas (Mecas) marginella* LeConte

Hosts: Unknown.

Discussion: This widespread species has usually been referred to as *O. bimaculata* (Olivier).

Distribution: CO, CO, IL, IN, MD, MI, MO, MS, NC, ND, NJ, NY, OH, PA, SC, TN, TX, UT, WI, MB, ON, PQ.

Counties: No county records located.

*Oberea ocularis* (Say)

Hosts: Unknown.

Discussion: Discussion: This is one of the smaller species in the genus and not requires verification.

Distribution: AL, CO, CO, IL, IN, MN, MO, TN, TX, MB, ON.

Counties: 5, 11, 16, 17, 24, 52, 59.

*Oberea perspicillata* Haldeman

Hosts: *Rosa, Rubus*.

Discussion: This widespread species has usually been referred to as *O. bimaculata* (Olivier).

Distribution: AL, CO, CT, FL, GA, IA, IN, MD, MI, MO, MS, NC, ND, NJ, NY, OH, PA, SC, TN, TX, UT, WI, MB, ON, PQ.

Counties: 5, 11, 16, 17, 24, 52, 59.

*Oberea quadricallosa* LeConte

Hosts: *Populus, Salix*.

Discussion: This one of the smaller species in the genus and not common in Colorado.

Distribution: AZ, CA, CO, KS, NM, TX, Mexico, Guatemala, El Salvador.

Counties: 5, 12, 51, 60 (Chemsak, 1963), 61, 63.

*Tetrapops discoideus* LeConte

Hosts: *Asclepias spp. including A. tuberosus, A. subverticillata, A. verticillata, A. viridiflorus var. lanceolatus, A. speciosa and probably A. sullivantii*.

Discussion: Some of the *Tetrapops canescens* LeC. records of Wickham belong here, although a few might be for *T. pilosus* Chemsak. This species is common.

Distribution: AZ, CA, CO, KS, MT, ND, NE, NM, SD, TX, UT, WY, AB, MB.

Counties: 1, 4, 5, 6, 7, 11, 12, 23, 24 (CNMC), 25, 32, 37, 51, 52, 55, 59, 60, 61, 63. Chemsak (1963) also lists: 15, 29, 39, 50, 54, 56, 57.

*Phaea constricta* (LeConte)

Hosts: *Asclepias spp. including A. tuberosus, A. subverticillata, A. verticillata, A. viridiflorus var. lanceolatus, A. speciosa and probably A. sullivantii*.

Discussion: This is one of the smaller species in the genus and not common in Colorado.

Distribution: AZ, CA, CO, KS, NM, TX, Mexico, Guatemala, El Salvador.

Counties: 5, 12, 51, 60 (Chemsak, 1963), 61, 63.

*Oberea ochracea* (LeConte)

Hosts: *Rosa, Rubus*.

Discussion: This species was in the genus *Tetrops*. In Wickham’s list, this species was in the genus *Tetrops*.

Distribution: CO, KS, NM, OK, TX.

Counties: 6, 31, 59 (HFW).

*Tetrapops annulatus* LeConte

Hosts: *Asclepias spp. including A. tuberosus, A. subverticillata, A. verticillata, A. viridiflorus var. lanceolatus, A. speciosa and probably A. sullivantii*.

Discussion: Some of the *Tetrapops canescens* LeC. records of Wickham belong here, although a few might be for *T. pilosus* Chemsak. This species is common.

Distribution: AZ, CO, ID, KS, MT, ND, NE, NM, SD, TX, UT, WY, AB, MB.

Counties: 1, 4, 5, 6, 7, 11, 12, 23, 24 (CNMC), 25, 32, 37, 51, 52, 55, 59, 60, 61, 63. Chemsak (1963) also lists: 15, 29, 39, 50, 54, 56, 57.

*Tetrapops discoideus* LeConte

Hosts: *Asclepias spp. including A. tuberosus, A. subverticillata, A. verticillata, A. viridiflorus var. lanceolatus, A. speciosa and probably A. sullivantii*.

Discussion: This is one of the smaller species in the genus and not common in Colorado.

Distribution: AZ, CA, CO, KS, NM, TX, Mexico, Guatemala, El Salvador.

Counties: 5, 12, 51, 60 (Chemsak, 1963), 61, 63.

*Tetrapops femoratus* LeConte

Type locality: “toward the Arkansas River near the mountains.”


Discussion: Wickham listed *T. collaris* Horn, a synonym, from Colorado.

Distribution: AZ, CA, CO, ID, IL, IN, KS, MI, MN, MO, MS, MT, ND, NE, NM, NY, OH, OK, OR, SD, TX, UT, WA, WI, WY, AB, BC, MB, ON, SK, Mexico.

Counties: 1 (DNMC), 3, 5, 6, 7, 11, 12, 13, 14, 15, 16, 17, 19 (HFW), 23, 24, 25, 32, 38 (LBCG), 39, 40 (DNHC), 41 (Chemsak, 1963), 42, 43 (Chemsak, 1963), 47 (Chemsak, 1963), 50, 51, 52, 53, 54, 58, 59, 60, 61, 63.
**Tetraopes mandibularis** Chemak
Hosts: *Asclepias latifolia*.
Discussion: New state record. This species is uncommon in Colorado.
Distribution: CO, OK, TX.
Counties: 8, 17, 47, 53.

**Tetraopes pilosus** Chemak
Hosts: *Asclepias arenaria, A. tuberosus*.
Discussion: This *Tetraopes* is densely covered with whitish pubescence.
Distribution: CO, KS, NE, OK, TX.
Counties: 6, 8, 10, 58, 60, 63.

**Tetraopes tetrophthalmus** (Forster)
Hosts: *Asclepias spp. including A. syriaca, A. incarnatum, A. perennis and probably A. speciosa, Apocynum cannabinum, Acerates viridiflora*.
Discussion: This is a very common eastern *Tetraopes* which ranges only as far west as Colorado.
Distribution: AL, CO, CT, GA, IA, IL, IN, KS, MA, MD, MI, MN, MO, NC, ND, NE, NH, NJ, NY, OH, OK, SC, SD, TX, VA, VT, WI, MB, ON, PQ.
Counties: 5, 6, 8, 16, 17, 36, 60, 61.

**EXCLUDED RECORDS**

**Parandra polita** Say
Discussion: Monné and Giesbert (1995) list this species as occurring in Colorado. This inclusion is possibly based on a labeling error. This species is known from southeastern USA, southern Mexico and Central America.

**Strangalia bicolor** (Swederus)
Discussion: Casey (1913) described *Ophistomus simulans*, a synonym, from a series of four specimens with only a “Colo.” label from the Levette Collection. Casey’s own comments regarding Levette unlabelled material was that it may have came from Colorado, Indiana or Florida. It is probable that these specimens were simply mislabeled.

The following species were listed from Colorado by Wickham (1902). They represent misidentifications or labeling errors.

**Brachyleptura rubrica** (Say)
Discussion: Wickham recorded *Leptura rubrica* Say, an eastern species, from two localities. The specimens may be females of *Aneastrangalia haldemani* (Casey).

**Leptura plagifera** (LeConte)
Discussion: Wickham recorded this species from Colorado without specific locality. No other specimens have been located from Colorado. Its known hosts are *Pinus ponderosa* and *Picea*. The published records for this species include: CA, ID, MT, NV, OR, WA and BC.

**Callidium violaceum** (Linnaeus)
Discussion: Wickham listed *Callidium janthinum* LeConte, a synonym, from Colorado. The closest record of this species to Colorado is Wisconsin.

**Clytus planifrons** (LeConte)
Discussion: Wickham listed “*Xylotrechus planifrons* LeConte in variety” from Custer County but no other Colorado records exist for this species. *Clytus canadensis* Hopping, a confirmed species from Colorado, was still undescribed at that time and may have been the species to which he referred.

**Xylotrechus undulatus** (Say)
Discussion: Wickham listed this species from several places in Colorado but now they would probably be assigned to *X. longitaris* Casey, which was undescribed at that time.

**Amanthus pectoralis** LeConte
Discussion: This was likely a misidentification of *A. vittiger* LeConte or a labeling error. *Amanthus pectoralis* is southwestern in distribution, being known from AZ, CA, NV, and Mexico.

**Crossidius testaceus** (LeConte)
Discussion: This is a well-known species recorded only from California.

**Deliaspis cruentus** (LeConte) [Trachyderini]
Discussion: This species superficially resembles *Crossidius coralis* (LeConte) but occurs in Baja California.

**Plionoma suturalis** (LeConte) [Trachyderini]
Discussion: This species occurs in northern Mexico, and in the southern areas of Texas, New Mexico, and Arizona. Wickham’s record for Canon City (Fremont County) is undoubtedly an error.

**Stenaspis solitaria** (Say) [Trachyderini]
Discussion: Leng (1886) erroneously cited this species from Colorado and Arkansas. Wickham included this species based on Leng’s list. This species occurs in northern Mexico, and in southern Texas, New Mexico and Arizona.
Oberea ruficollis Fabricius
Discussion: Wicklum recorded this species from Larimer County, Colorado, but no other records have been located. Its presence in Colorado is rather unlikely. The range of this species is from east of the Great Plains to the eastern and southern states.

Tetraopes texanus Horn
Discussion: Wicklum recorded "T. quinqueoculatus Hald. var. texanus Horn". This specimen was possibly the more recently described T. mandibularis Chemsak. The known distributions of T. quinqueoculatus Haldeman and T. texanus Horn do not extend to the western half of the Great Plains.

SUMMARY

Of the 193 species and subspecies in 88 genera which are listed, at least 10 species are of somewhat uncertain status due to a lack of verifiable specimens or reliable records. Sixteen species recorded from Colorado, mostly by Wickham (1902), are excluded based on the current knowledge of their distribution or host plants. Many species are known from Colorado by a relatively small number of specimens. This appears to be due to a lack of intensive or specific collecting efforts rather than rarity. Also, the records indicate that the known ranges for many species barely extend to Colorado, which would lessen their chance of capture. No described species appear to be endemic, although two subspecies, Batyle suturalis infuscatus and Crossidius coralinus jocosus, are so far only known from Colorado. The apparently undescribed species of Cortodera and Phymatodes are only known from Colorado. The population of Batyle suturalis or closely related species, known from the Great Sand Dunes area, requires further study.

The overall cerambycid fauna for Colorado corresponds closely with its physiographic regions. Over 40% of the species are northern or northwestern in general distribution and many are associated with conifers. The Lepturini and Clytini are most prominent in this group. Over 20% of species are southwestern in distribution, being associated with a variety of plants including cactus, hardwoods, small shrubs and conifers. The Monolema, Hesperophanini, Crossidius and Acanthocinini are typical of this group and are generally more common in the western and southern areas of the state. Approximately 20% of the species are associated with grasslands and perennial plants scattered throughout the state.

These tend to be root and stem feeders and include Prionus, Mecas, Tetraopes and Typocerus. The remaining 20% of the species are associated with the woodlands of the eastern or southeastern United States and generally reach no farther than the Front Range of the Rocky Mountains. In order to get around or through the Great Plains, this last group of species reached Colorado by a northerly forested route, via the gallery forests resulting from extreme stream regulation, or were introduced with lumber or live trees used in landscape planting.
List of Species in Colorado

Subfamily Parandrinae
Tribe Parandrini
Parandra (Neandra) brunnea (Fabricius)

Subfamily Prioninae
Tribe Callipogonini
Ergates spiculatus neomexicanus Casey

Subfamily Spondylidinae
Tribe Spondylidini
Spondylis upiformis Mannerheim

Subfamily Lepturinae
Tribe Asemini
Arhopalus asperatus (LeConte)
Arhopalus foveicollis (Haldeman)
Arhopalus productus (LeConte)
Arhopalus rusticus montanus (LeConte)
Asemum striatum (Linnaeus)
Megasemum asperum (LeConte)
Tetropium cinnamopterum parvulum Casey
Tetropium parallelum Casey
Tetropium velutinum LeConte

Tribe Atimiini
Atimia confusa confusa (Sey)
Atimia huachucae Champlain and Knell

Subfamily Necydalinae
Tribe Necydalini
Necydalis diversicollis diversicollis Schaeffer

Subfamily Lepturinae
Tribe Lepturini (group 1)
Acmaeops proteus proteus (Kirby)
Brachysomida atra (LeConte)
? Brachysomida californica (LeConte)

Subfamily Cerambycinae
Tribe Oemini
Oeme costata costata LeConte
Oeme rigida desertica Casey

Tribe Methiini
Methia mormona Linell
<table>
<thead>
<tr>
<th>Tribe Hesperophanini</th>
<th>Tribe Rhopalophorini</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brothylus gemmulatus LeConte</td>
<td>Rhopalophora meeskei Casey</td>
</tr>
<tr>
<td>Eucrossus villicornis LeConte</td>
<td>Rhopalophora rugicollis LeConte</td>
</tr>
<tr>
<td>Haplidus testaceus LeConte</td>
<td></td>
</tr>
<tr>
<td>Malobidion brunneum Schaeffer</td>
<td></td>
</tr>
<tr>
<td>Xeranoplium tricallosum (Knull)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Tribe Elaphidiini</td>
<td>Tribe Trachyderini</td>
</tr>
<tr>
<td>Aneflomorpha parowana Casey</td>
<td>Amanus vittiger LeConte</td>
</tr>
<tr>
<td>Anelaphus moestus moestus (LeConte)</td>
<td>Batyle ignicollis ignicollis (Say)</td>
</tr>
<tr>
<td>Anelaphus villosus (Fabricius)</td>
<td>Batyle sutoralis infuscatus Linsey</td>
</tr>
<tr>
<td>Enaphalodes atomarius (Drury)</td>
<td>Batyle sutoralis pearsali (Bland)</td>
</tr>
<tr>
<td>Pareaphidion incertum (Newman)</td>
<td>Batyle sp.</td>
</tr>
<tr>
<td></td>
<td>Crossidius ater LeConte</td>
</tr>
<tr>
<td></td>
<td>Crossidius coralinus coralinus (LeConte)</td>
</tr>
<tr>
<td></td>
<td>Crossidius coralinus fulgidus Chemak and Linsey</td>
</tr>
<tr>
<td></td>
<td>Crossidius discoides blandi Casey</td>
</tr>
<tr>
<td></td>
<td>Crossidius discoides sayi Casey</td>
</tr>
<tr>
<td></td>
<td>Crossidius hirtipes aligewahri LeConte</td>
</tr>
<tr>
<td></td>
<td>Crossidius hirtipes wickhami Casey</td>
</tr>
<tr>
<td></td>
<td>Crossidius pulchellus LeConte</td>
</tr>
<tr>
<td></td>
<td>Tragidion coquus (Linnaeus)</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Tribe Eumichthini</td>
<td>Subfamily Lamiinae</td>
</tr>
<tr>
<td>Poecilobrium chalybeum (LeConte)</td>
<td>Tribe Moneilemini</td>
</tr>
<tr>
<td></td>
<td>Moneilema annulatum Say</td>
</tr>
<tr>
<td></td>
<td>Moneilema appressum LeConte</td>
</tr>
<tr>
<td></td>
<td>Moneilema armatum LeConte</td>
</tr>
<tr>
<td></td>
<td>Moneilema semipunctatum LeConte</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Tribe Molorchini</td>
<td>Tribe Clytini</td>
</tr>
<tr>
<td>Molorchus bimaculatus Say</td>
<td>Calloidis nobilis mormonus Schaeffer</td>
</tr>
<tr>
<td>Molorchus longicollis LeConte</td>
<td>? Clytoleptus albofasciatus (Castelau and Gory)</td>
</tr>
<tr>
<td></td>
<td>Cyrus canadensis Hopping</td>
</tr>
<tr>
<td></td>
<td>Megacheuma brevipennis brevipennis (LeConte)</td>
</tr>
<tr>
<td></td>
<td>Megacyllene unguifera (Casey)</td>
</tr>
<tr>
<td></td>
<td>Megacyllene caryae (Gahan) [not established]</td>
</tr>
<tr>
<td></td>
<td>Megacyllene decora (Olivier)</td>
</tr>
<tr>
<td></td>
<td>? Megacyllene lutosa (LeConte)</td>
</tr>
<tr>
<td></td>
<td>Megacyllene robinae (Forster)</td>
</tr>
<tr>
<td></td>
<td>? Megacyllene snowi snowi (Casey)</td>
</tr>
<tr>
<td></td>
<td>Neoclytus acuminatus hesperum Linsey</td>
</tr>
<tr>
<td></td>
<td>Neoclytus approximatus (LeConte)</td>
</tr>
<tr>
<td></td>
<td>Neoclytus caprea (Say)</td>
</tr>
<tr>
<td></td>
<td>Neoclytus leucostomus leucostomus (Castelau and Gory)</td>
</tr>
<tr>
<td></td>
<td>Neoclytus magnus Schaeffer</td>
</tr>
<tr>
<td></td>
<td>Neoclytus mucronatus vogli Linsley</td>
</tr>
<tr>
<td></td>
<td>Xylothereus annosus emotus Brown</td>
</tr>
<tr>
<td></td>
<td>Xylothereus bowditchi bowditchi Hopping</td>
</tr>
<tr>
<td></td>
<td>Xylothereus bowditchi hopping Linsey</td>
</tr>
<tr>
<td></td>
<td>Xylothereus colonus (Fabricius)</td>
</tr>
<tr>
<td></td>
<td>Xylothereus longitarsis Casey</td>
</tr>
<tr>
<td></td>
<td>Xylothereus obliteratus LeConte</td>
</tr>
<tr>
<td></td>
<td>Xylothereus robustus Hopping</td>
</tr>
<tr>
<td></td>
<td>Xylothereus sagittatus sagittatus (Germain)</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Tribe Eumichthini</td>
<td>Tribe Lamiini</td>
</tr>
<tr>
<td>Poecilobrium chalybeum (LeConte)</td>
<td>? Goes tesselatus (Haldeman)</td>
</tr>
<tr>
<td></td>
<td>Monochamus clamator clamator (LeConte)</td>
</tr>
<tr>
<td></td>
<td>Monochamus scutellatus scutellatus (Say)</td>
</tr>
<tr>
<td></td>
<td>Plectrodera scalator (Fabricius)</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Tribe Clytini</td>
<td>Tribe Dorcaschematini</td>
</tr>
<tr>
<td>Calloidis nobilis mormonus Schaeffer</td>
<td>Dorcaschema alternatum (Say)</td>
</tr>
<tr>
<td>? Clytoleptus albofasciatus (Castelau and Gory)</td>
<td></td>
</tr>
<tr>
<td>Cyrus canadensis Hopping</td>
<td></td>
</tr>
<tr>
<td>Megacheuma brevipennis brevipennis (LeConte)</td>
<td></td>
</tr>
<tr>
<td>Megacyllene unguifera (Casey)</td>
<td></td>
</tr>
<tr>
<td>Megacyllene caryae (Gahan) [not established]</td>
<td></td>
</tr>
<tr>
<td>Megacyllene decora (Olivier)</td>
<td></td>
</tr>
<tr>
<td>? Megacyllene lutosa (LeConte)</td>
<td></td>
</tr>
<tr>
<td>Megacyllene robinae (Forster)</td>
<td></td>
</tr>
<tr>
<td>? Megacyllene snowi snowi (Casey)</td>
<td></td>
</tr>
<tr>
<td>Neoclytus acuminatus hesperus Linsey</td>
<td></td>
</tr>
<tr>
<td>Neoclytus approximatus (LeConte)</td>
<td></td>
</tr>
</tbody>
</table>
Tribe Pteropliini
Ataxia hubbardi Fisher

Tribe Pogonocherini
Pogonocherus (Pogonocherus) penicillatus LeConte
Pogonocherus (Eupogonocherus) mixtus Haldeman
Pogonocherus (Eupogonocherus) parvulus LeConte
Pogonocherus (Eupogonocherus) pictus (Fall)
Pogonocherus (Eupogonocherus) propinquus (Fall)
Poliaenus oregonus (LeConte)

Tribe Desmiphorini
Psenocerus supernotatus (Say)

Tribe Acanthocinini
Acanthocinus leechi Dillon
Acanthocinus obliquus (LeConte)
Acanthocinus spectabilis (LeConte)
Dectes texanus LeConte
Eutrichillus pini Schaeffer
Hyperplatys aspersa (Say)
Hyperplatys montana Casey
Liopinus alpha (Say)
Liopinus imitans (Knull)
Sternidius variegatus (Haldeman)

Tribe Saperdini
Saperda calcarata Say
Saperda inornata Say
Saperda lateralis Fabricius
Saperda populnea moesta LeConte
Saperda tridentata Olivier

Tribe Phytoeciini
Mecas (Mecas) bicollosa Martin
Mecas (Mecas) cana saturnina (LeConte)
Mecas (Mecas) cineracea Casey
Mecas (Mecas) marginella LeConte
Mecas (Mecas) pergrata (Say)
? Oberea oculaticollis (Say)
Oberea perspicillata Haldeman
Oberea quadricollosa LeConte
Oberea schaumi LeConte
Oberea tripunctata (Swederus)

Tribe Tetraopini
Phaea canescens (LeConte)
Tetraopes annulus LeConte
Tetraopes discoideus LeConte
Tetraopes femoratus LeConte
Tetraopes mandibularis Chemsak
Tetraopes pilosus Chemsak
Tetraopes tetrophthalmus (Forster)
ACKNOWLEDGMENTS

I would like to thank the following individuals for help in making this paper as complete and accurate as possible: J. A. Chemsak, E. F. Giesbert and F. T. Hovore for assistance and expert opinions regarding the identification of specimens; M. J. Weissmann for reviewing a preliminary version of this manuscript and providing suggestions and comments; J. A. Chemsak, D. A. Leatherman, M. E. Rice and E. G. Riley for reviewing the completed manuscript; L. G. Bezark, J. S. Cope, R. M. Gemmill, M. G. Kippenhan, S. W. Lingafelter and R. W. Surdick for providing data from their private collections; J. D. Beierl for providing data from his collection and searching for records in the Essig Museum of Entomology; R. M. Gemmill for the loan of specimens from his collection; R. W. Brooks, SEMC; S. W. Lingafelter, USNM; P. D. Perkins, MCZC; V. Scott, UCMC; and R. S. Peigler, DNHC; for the loan of specimens in their care; special thanks to M. J. Weissmann for compiling data from the collections of Colorado State University, University of Colorado, Denver Museum of Natural History, and the collections of the previously mentioned national parks. And finally, I would like to express my sincere appreciation to B. C. Kondratieff, Colorado State University, Fort Collins, for providing comments, suggestions, literature, and the loan of specimens in his care.

LITERATURE CITED


HICKS, S. D. 1962. The genus *Oberoa* Mulsant (Coleoptera, Cerambycidae), with notes on the taxonomy, variation and host-affinities of many of the species. Coleop. Bull. 16:5-12


Contributions of the C.P. Museum of Arthropod Diversity
(ISSN 1084-8819)

Insects of western North America. 1. A Survey of the Cerambycidae (Coleoptera), or Longhorned Beetles, of Colorado. 1998. by Daniel J. Heffern ($10.00)


*Moths of western North America. 2. Distribution of Sphingidae of western North America, revised. 1995. by Michael J. Smith ($8.00)


*Lepidoptera of North America. 1. Distribution of silkmoths (Saturniidae) and hawkmoths (Sphingidae) of eastern North America. ($16.00).

*Lepidoptera of North America. 2. Distribution of the butterflies (Papilionoidea and Hesperiodea) of the eastern United States. Compiled by Paul A. Opler. ($18.00).

*Maps and images may be accessed through the Northern Prairie Science Center web site <http://www.npwrc.usgs.gov>

Prices are postpaid within the United States

Name ____________________________
Address ____________________________
City ___________ State ___________ Zip ___________
Country ____________________________

Make check to order of Gillette Museum Publications and mail to:

Dr. Paul A. Opler
Department of Bioagricultural Sciences and Pest Management
Colorado State University
Fort Collins, Colorado 80523