

# Catalogue of the Cerambycidae (Coleoptera) of Canada and United States of America. Part I. Subfamilies Parandrinae, Prioninae and Spondylidinae

January 2022

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**Recommended format for citation: Available from:**

**[https://cerambycids.com/catalog/Monne&Nearns\\_2022\\_NearcticCat\\_part\\_I.pdf](https://cerambycids.com/catalog/Monne&Nearns_2022_NearcticCat_part_I.pdf)**

This catalogue is an attempt to offer the names, the geographical distribution and bibliographic references for extant taxa of Cerambycidae of Canada and United States of America.

All informations of the present catalogue were previously published, there is not unpublished data. The geographical distribution of the extant families and subfamilies in the North America is based on previously published records, supplemented by data extracted from several collections. The geographical distribution of the species from Canada were adapted from Bousquet, Laplante, Hammond and Langor, 2017. Tribes are listed in alphabetical order, and in each tribe genera and species follow the same order. Each species-group name is followed by author (s), publication year, page, and figure (if any), acronym of the institution depository of the type, host plants (when available) and when not strictly taxonomical, an abbreviated indication of the matter is given as:

ab. - aberration  
 biol. - biological data  
 cat. - catalogue  
 distr. - distribution  
 ecol. - ecological data  
 emend. -emendation  
*et al.*, - more than four authors  
 lect. - lectotype (designation).  
 mim. - mimetism  
 paras. - parasites  
 pred. - predators  
 refs - bibliographic references  
 rev. - revision  
 reval. - revalidation

syn. - synonymy

terat - teratology

var. - variety

Acronyms of the institutions or private collections mentioned in the Part III of the catalogue:

AMNH - American Museum of Natural History, New York, New York, United States.

ANSP - Academy of Natural Sciences, Philadelphia, Pennsylvania, United States.

BMNH - The Natural History Museum, London, United Kingdom.

CASC - California Academy of Sciences, San Francisco, California, United States.

CNCI - Canadian National Collection of Insects, Ontario, Ottawa, Canada.

EMEC - Essig Museum of Entomology, University of California, Berkeley, California, United States.

FMNH - Field Museum of Natural History, Chicago, Illinois, United States

IUBC - Department of Zoology collection, Indiana University, Bloomington, United States

LACM - Los Angeles County Museum of Natural History, Los Angeles, California, United States.

LSUK - Linnean Society, London, United Kingdom.

MCZN - Museum of Comparative Zoology, Harvard University, Cambridge, Massachusetts, United States.

MNHN - Muséum National d'Histoire Naturelle, Paris, France

NHMW - Naturhistorisches Museum, Wien, Austria.

NHRS - Naturhistoriska Riksmuseet, Stockholm, Sweden

USNM - National Museum of Natural History, Washington, D. C., United States.

UZIU - Uppsala University, Uppsala, Sweden.

ZMHB - Museum für Naturkunde der Humboldt-Universität, Berlin, Germany.

ZMUM - Zoological Museum, Moscow State University, Moscow, Russia.

### **PARANDRINAE Blanchard, 1845**

Parandrides Blanchard, C.E., 1845: 134.

**Type-genus:** *Parandra* Latreille, 1802.

**Type-species:** *Attelabus glaber* De Geer, 1774 by monotypy. Availability (under Article 11.7.2).

Parandraeidae; Gistel 1848a: (8).

### **PARANDRINI Blanchard, 1845**

Parandrides Blanchard, C. E., 1845: 134.

Parandrae; Lameere, 1912b: 180; 1913: 4 (cat.); 1919: 4.

Parandrini; Gilmour, 1956: 2; Monné, M.A., 1994: 1 (cat.); Santos-Silva, 2002b: 30 (key gen.); Monné, M.A., 2006: 8 (cat.); Santos-Silva & Martins, 2010: 15; Cardona-Duque, Santos-Silva & Wölf, 2010: 138 (key gen.); Bousquet, Heffern, Bouchard & Nearn., 2009: 14; Santos-Silva, Heffern & Matsuda, 2010: 6 (key genera); Bouchard *et al.*, 2011: 454.

**Type-genus:** *Parandra* Latreille, 1802.

**Type-species:** *Attelabus glaber* De Geer, 1774 by monotypy. Availability (under Article 11.7.2): Parandrae Blanchard, 1845 (Lameere 1913: 4).

### ***Neandra* Lameere, 1912**

*Parandra* (*Neandra*) Lameere, 1912b: 114; 1919: 15; Linsley, 1962: 5; Hatch, 1971: 91; Monné, M.A., 1994: 3 (cat.); Chemsak, 1996: 7; Santos-Silva, 2001: 239; 2002: 30; Bousquet, 2008: 62

*Neandra*; Santos-Silva, 2002: 30; Monné, M.A. & Hovore, 2006: 5 (checklist); Bousquet, 2008: 62; Santos-Silva, Heffern & Matsuda, 2010: 6; Svacha & Lawrence, 2014: 138; Bousquet, Laplante, Hammond & Langor, 2017: 28

**Type species** - *Tenebrio brunneus* Fabricius (monotypy)

**1. *Neandra brunnea* (Fabricius, 1798)**

**Syntypes locality** - Syntypes: Indiis. (ZMUC). **Distribution** - Eastern half of the United States and southeast Canada. **Host plants** - *Acer rubrum* Linnaeus (Aceraceae), *Castanea dentata* (Marshall) Borkhausen, *C. pumila* (Linnaeus) Miller, *Fagus* sp., *Quercus velutina* Lamarck (Fagaceae), *Carya* sp., *Juglans* sp. (Juglandaceae), *Liriodendron tulipifera* Linnaeus (Magnoliaceae), *Pinus rigida* Miller (Pinaceae), *Prunus cerasus* Linnaeus (Rosaceae), *Populus nigra* Linnaeus, *Salix alba* Linnaeus (Salicaceae), *Ailanthus glandulosa* Desfontaines (Simarubaceae) *Tilia americana* Linnaeus, *T. cordata* Miller, *T. platyphyllos* Scopoli (Tiliaceae)

*Tenebrio brunneus* Fabricius, 1798: 49; 1801: 148; Zimsen, 1964: 46

*Parandra brunnea*; Schoenherr, 1817: 334; Lepeletier & Audinet-Serville, 1825: 3; Harris, 1838: 88; White, 1853: 2; Horn, 1861: 43; Bland, 1861: 93; Thomson, 1861b: 84; Osten-Sacken, 1862: 118, pl. 2, fig. 6 (larva); Murray, 1862: 452, pl. 47, fig. 7; Thomson, 1867b: 113; Lacordaire, 1868: 23; Pettit, 1871: 105; Packard, 1872: 494; Horn, 1875: 150; Popenoe, 1877: 33; Provancher, 1877: 582; Schaupp, 1879: 24 (hosts); Riley, 1880: 23; Packard, 1881: 127; Townsend, 1886: 66; Packard, 1890: 481; Townsend, 1893: 202; Hopkins, 1893: 191; Chittenden, 1894: 96; Hamilton, 1895: 337; Smith, 1900: 284; Lameere, 1902a: 80; Dury, 1902: 158; Ulke, 1903: 25; Chagnon, 1905: 36; Tucker, 1907: 162; Fall & Cockerell, 1907: 190; Wickham, 1909: 28; Champlain, 1909: 181; Blatchley, 1910: 1007; Snyder, 1910: 1; Smith, 1910: 323; Gahan, 1911: 288; Casey, 1912: 216; Snyder, 1913: 131, fig. 12; Johnson, 1915: 314; Brooks, 1915: 1; Craighead, 1915: 12, pl. 3, fig. 6; pl. 4, figs 5.6; Chagnon, 1917: 229; Morris, 1918: 42; Nicolay, 1919: 20; Britton, 1920: 266, pl. 16; Craighead, 1923, 29, pl. 6, fig. 4; Hatch, 1925: 579; Fletcher, 1926: 143; Kirk & Knull, 1926: 21; Leonard, 1928: 432; Schaeffer, 1929: 39; Craighead & Middleton, 1930: 13; Barrett, 1932: 291; Beaulne, 1932: 197; Loding, 1933: 148; Herrick, 1935: 42, fig. 18; Sheppard, 1935: 97; Doane *et al.*, 1936: 161; Sheppard, 1936: 75; Chagnon, 1936: 239; Brimley, 1938: 209; Loding, 1945: 112; Knull, 1946: 144; Craighead, 1950: 258; Beal, Haliburton & Knight, 1952: 72; Duffy, 1953: 102, figs 24-29; Gilmour, 1954: 3; Anderson, 1960: 282, fig. 11.4; Nüssler, 1961: 130 (introduction); Chagnon & Robert, 1962: 239; Swan & Papp, 1972: 441, fig. 924; Baker, 1972: 197; Furniss & Carolin, 1977: 287; Waters & Hyche, 1984: 284; White, 1985: 281; Gosling, 1986: 157; Bense, 1995: 96, fig. 288

*Isocerus brunneus*; Illiger, 1802: 295:

*Parandra (Neandra) brunnea*; Lameere, 1912b: 114; 1919: 16 (syn.); Hatch, 1971: 92; Chemsak, Linsley & Noguera, 1992: 12 (cat.); Chemsak, 1996: 8, pl. 1, figs 3, 4; Schiefer, 1998: 115; Heffern, 1998: 6; Sama, 2003: 8, 2 figs

*Parandra brunnea brunnea*; Linsley, 1957: 1; Gosling, 1973: 65; Kirk & Balsbaugh, 1975: 96; Stein & Tagestad, 1976: 27; Laliberté, Chantal & LaRochelle, 1977: 96; Turnbow & Wappes, 1978: 367; Turnbow & Franklin, 1980: 338; Gosling, 1984: 72; MacRae, 1993: 26; Yanega, 1996: 25, pl. 1, figs 1a, 1b; Linsley & Chemsak, 1997: 414 (hosts); Vlasák & Vlasakova, 2002: 204

*Parandra (Neandra) brunnea brunnea*; Linsley, 1962: 8; Monné, M.A., 1994: 3 (cat.); Peck & Thomas, 1998: 116

*Neandra brunnea brunnea*; Santos-Silva, 2002: 31

*Neandra brunnea*; Ferrer, Barclay & Hancock, 2004: 579, figs 6-10 (syntypes); Monné, M.A. & Hovore, 2006: 5 (checklist); Webster, McCorquada & Majka, 2009: 291; Bouyer, Drumont & Santos-Silva, 2012: 97; Biffi & Fuhrmann, 2013: 13; Holt, 2013: 242; Bouchard, 2014: 543; Klingeman *et al.*, 2017: 294; Bousquet, Laplante, Hammond & Langor, 2017: 18, pl. 1; Haack, Keena & Eyre, 2017: 76; Webster, 2016: 484; Haack, 2017: 118; Rice, MacRae & Merickel, 2017: 669

*Tenebrio purpureus* Herbst, 1799: 21, pl. 119, fig. 2

**Type locality** - Holotype: without locality (ZMHB)

*Parandra Sayi* Thomson, 1867b: 114; Lacordaire, 1868: 23; Thomson, 1878: 4

**Syntypes locality** - Syntypes: Amer. bor. (MNHN)

*Parandra quadricollis* Thomson, 1867: 114; Lacordaire, 1868: 23; Thomson, 1878: 4

**Type locality** – Holotype : Amer. Borealis. (MNHN)

*Parandra conformis* Thomson, 1867b: 115; Lacordaire, 1868: 23; Thomson, 1878: 4

**Type locality** - Holotype: Amer. Borealis. (MNHN)

*Parandra dentata* Thomson, 1867b: 115; Lacordaire, 1868: 23; Thomson, 1878: 4

**Type locality** 8 Holotype female; Amer. Borealis. (MNHN)

*Parandra minuta* Thomson, 1867b: 116; Lacordaire, 1868: 23; Thomson, 1878: 4

**Type locality** - Holotype female: Amer. Borealis. (MNHN)

*Parandra ampliceps* Casey, 1912: 216 ; Lingafelter *et al.*, 2014: 39, 369, fig. 36u (lect.)

**Type locality** - Lectotype male: United States, Indiana. (USNM)

*Parandra gravidula* Casey, 1912: 216 ; Lingafelter *et al.*, 2014: 71, 369, fig. 36w (lect.)

**Type locality** - Lectotype male: United States : Pennsylvania (USNM)

*Parandra brunnea coloradensis* Linsley, 1957: 2

**Type locality** - Holotype male: United States, Colorado. (AMNH)

*Parandra brunnea quebecensis* Abdullah, 1968: 75

**Type locality** - Holotype: Canada, Quebec, Morgans Arboretum. (depository unknown)

## 2. *Neandra marginicollis* (Schaeffer, 1929)

**Type locality** - United States, California: Los Angeles County. (MCZN). **Distribution** – United States (California and southern Arizona). **Host plants** - *Alnus oblongifolia* Torrey, *A. rhombifolia* Nuttall (Betulaceae), *Quercus agrifolia* Née (Fagaceae), *Juglans regia* Linnaeus (Juglandaceae), *Platanus racemosa* Nuttall ex Audubon (Platanaceae), *Malus* sp. (Rosaceae).

*Parandra marginicollis* Schaeffer, 1929: 40; Doane *et al.*, 1936: 162; Moore, 1937: 86; Swan & Papp, 1972: 441, fig. 926

*Parandra (Neandra) marginicollis*; Linsley, 1962: 9, fig. 3; Chemsak, Linsley & Noguera, 1992: 13 (cat.); Chemsak, 1996: 10

*Parandra marginicollis marginicollis*; Hovore & Giesbert, 1976: 349; Linsley & Chemsak, 1997: 414

*Neandra marginicollis*; Santos-Silva, 2002: 3; Monné, M.A., & Hovore, 2006: 5 (checklist)

*Parandra punctillata* Schaeffer, 1929: 40; Doane *et al.*, 1936: 162; Linsley, Knull & Statham, 1961: 3; Lingafelter *et al.*, 2014: 396, fig. 149c (holotype)

*Parandra (Neandra) marginicollis punctillata*; Chemsak, Linsley & Noguera, 1992: 13

*Parandra marginicollis punctillata*; Furniss & Carolin, 1977: 288, fig. 170

**Type locality** – United States, Arizona, Santa Catalina Mountains and Prescott. (USNM)

## PRIONINAE Latreille, 1802

Prionii Latreille, 1802: 212.

**Type-genus:** *Prionus* Geoffroy, 1762

**Type-species:** *Cerambyx coriarius* Linnaeus, 1758 (see ICZN 1994: 60).

## CALLIPOGONINI Thomson, 1861

Callipogonitae Thomson, 1861a: 293, 323.

Callipogonides; Lacordaire, 1868: 91.

Callipogonines; Lameere, 1904a: 7.

Callipogonini; Lameere, 1912b: 181; 1919: 63; Melzer, 1919: 79; Heyrovsky, 1955: 68; Gilmour, 1956: 111; Monné, M.A., 2006: 28 (cat.). Bousquet *et al.*, 2009: 15; Bouchard *et al.*, 2011: 456.

**Type-genus:** *Callipogon* Audinet-Serville, 1832

**Type-species:** *Prionus barbatus* Fabricius, 1781 (monotypy).

Anacanthitae Thomson, 1864: 285.

**Type-genus:** *Anacanthus* Audinet-Serville, 1832 (junior homonym of *Anacanthus* Gray, 1831 [Pisces])

**Type-species:** *Anacanthus costatus* Audinet-Serville, 1832 (monotypy). Comment. This name is permanently invalid because it is based on a preoccupied type genus (Article 39).

Enoploceritae Thomson, 1864: 290.

**Type-genus:** *Enoplocerus* Audinet-Serville, 1832

**Type-species:** *Prionus armillatus* Fabricius, 1775 (monotypy).

Orthomegitae Thomson, 1864: 294.

**Type-genus:** *Orthomegas* Audinet-Serville, 1832

**Type-species:** *Cerambyx corticinus* Olivier, 1790 designated by Desmarest (1860: 307).

Ctenoscelitae Thomson, 1864: 295.

Ctenoscelinae Pascoe, 1869: 661, 663.

**Type-genus:** *Ctenoscelis* Audinet-Serville, 1832

**Type-species:** *Prionus ater* Olivier, 1795 designated by Thomson (1864: 297).

Ergatites Fairmaire in Jacquelin DuVal, 1864: 117, 191.

Ergatides; Lacordaire, 1868: 93.

Ergatini; LeConte, 1873b: 286; LeConte & Horn, 1883: 271; Leng, 1884: 8; Linsley, 1962: 24.

**Type-genus:** *Ergates* Audinet-Serville, 1832.

**Type-species:** *Prionus serrarius* Panzer, 1793 (monotypy). Availability (under Article 11.7.2).

### ***Trichocnemis* LeConte, 1851**

*Trichocnemis* LeConte, 1851: 110; Thomson, 1864: 298; Casey, 1912: 221; Swift, Santos-Silva & Nearn, 2010: 39; Monné, M. A., 2012: 128.

*Ergates* (*Trichocnemis*); Casey, 1890: 490; 1891: 20; Lameere, 1904a: 46; 1919: 81.

**Type-species** - *Trichocnemis spiculatus* LeConte, 1851 (monotypy).

*Ergates*; LeConte & Horn, 1883: 271; Leng, 1884: 8; Horn, 1891: 41; Linsley, 1962: 24; Arnett, 1962: 855; Hatch, 1971: 92; Monné, M.A., 2006: 37 (cat.).

#### **1. *Trichocnemis pauper* (Linsley, 1957)**

**Type locality** - Holotype female: United States, California: Tulare County. (CASC).

**Distribution** - Sierra Nevada and Coast Range mountains of California. **Host plants** – *Quercus agrifolia* Née, *Q. chrysolepis* Liebman, *Q. kelloggii* Newberry, *Q. wislizenii* A. de Candolle (Fagaceae)

*Ergates pauper* Linsley, 1957: 5; 1962: 29; Tyson, 1966: 203 (hosts); 1967: 125 (larva, pupa); Leech, 1968: 86(distr.); Hovore & Giesbert, 1976: 350 (hosts); Chemsak, Linsley & Noguera, 1992: 17 (cat.); Monné, M.A., & Giesbert, 1994: 9 (checklist); Monné, M.A., 1995: 11 (cat.); Chemsak, 1996: 89, fig. 11; Linsley & Chemsak, 1997: 373 (hosts); Monné, M.A., & Hovore, 2006: 5 (checklist)

*Trichocnemis pauper*; Swift, Santos-Silva & Nearn, 2010: 42, 2 figs

#### **2. *Trichocnemis spiculatus spiculatus* LeConte, 1851**

**Type locality** - Holotype male: United States, California. (MCZN). **Distribution** - Pacific Coast from British Columbia to southern California, northern Rocky Mountains and Mexico (Baja California, Durango). **Host plants** - *Abies concolor* Gordon & Glen, *A. magnifica* A. Murray, *Pinus contorta* Douglas ex Loudon, *P. insignis* Douglas ex Loudon, *P. jeffreyi* Balfour, *P. ponderosa* Douglas ex Lawson & P. Lawson, *P. tuberculata* Gordon, *Pseudotsuga menziesii* (Mirbel) Franco, *P. mucronata* Rafinesque (Pinaceae), *Sequoia sempervirens* (D. Don) Endlicher (Taxodiaceae).

*Trichocnemis spiculatus* LeConte, 1851: 110; Thomson, 1864: 298; Swift, Santos-Silva & Nearn, 2010: 43, figs 3-8.

*Macrotoma spiculata*; White, 1853: 40.

*Ergates spiculatus*; LeConte, 1854c: 218; 1857: 59, pl. 2, fig. 9a; Lacordaire, 1868: 96; LeConte, 1873b: 286; Snow, 1877: 19 (distr.); Riley, 1880: 238 (hosts); Packard, 1881: 162 (biol.); Snow, 1883: 42 (distr.); LeConte & Horn, 1883: 271; Leng, 1884: 8, pl. 2, fig. 9; Ricksecker, 1885: 97 (biol.); Rivers, 1886b: 6 (hosts); Horn, 1890: 161; 1891: 41 (syn.); Packard, 1890: 704 (hosts); Blaisdell, 1892: 34 (hosts); Beutenmuller, 1896: 73 (hosts); Wickham, 1897a: 167 (hosts); Harrington, 1899: 107 (distr.); Fall, 1901: 142 (distr.); Hopkins, 1904: 21, 35 (biol.); Wright & Coolidge, 1908: 68 (distr.); Craighead, 1915: 17, pl. 3, fig. 7, pl. 4, figs 1, 2, pl. 6, fig. 2 (larva, pupa); Garnett, 1918: 172 (distr.); Hardy & Preece, 1926: 34 (hosts);

- Essig, 1926: 448, fig. 348 (larva); Beaulne, 1932: 197 (hosts); Ingles, 1933: 59 (biol.); Doane *et al.*, 1936: 162, figs 75, 77 (biol.); Moore, 1937: 87 (distr.); Kimmey & Furniss, 1943: 23, figs 6a-b (biol.); Spencer, 1949: 20 (biol.); DeLeon, 1952: 79 (hosts); Keen, 1952: 192, fig. 89 (biol.); Duffy, 1953: 116, fig. 49 (larva, pupa); Spencer & Buckell, 1957: 30 (paras.); Hardy, 1957: D64 (distr.); Linsley, 1957: 6; Schoening & Tilden, 1959: 167 (biol.); Duffy, 1960: 64 (larva, pupa); Linsley, 1962: 25, fig. 8; Tyson, 1967: 125, figs 5, 7 (larva, pupa); Hatch, 1971: 93, pl. 9, fig. 1; Swan & Papp, 1972: 443, fig. 932; Chemsak, Linsley & Noguera, 1992: 17 (cat.); Chemsak, 1996: 86; Haack, Keena & Eyre, 2017: 76 (eggs)
- Ergates (Trichocnemis) spiculatus*; Casey, 1890: 491, pl. 4, fig. 17; 1891: 21; Lameere, 1904a: 46; 1919: 81, pl. 5, fig. 1; Nishio, 1956b: 68, pl. 5, figs 3, 4; Monné, M.A., & Giesbert, 1994: 9 (checklist);
- Ergates spiculatus spiculatus*; Linsley, 1962: 27, figs 7, 8; Tyson, 1966: 203 (hosts); Arnaud, 1968: 81 (biol.); Hovore & Giesbert, 1976: 350 (hosts); Hovore, 1988: 3 (distr.); Noguera & Chemsak, 1996: 396 (cat.); Chemsak, 1996: 87, pl. 5, figs 7, 8; Linsley & Chemsak, 1997: 374 (hosts); Monné, M.A., 2002: 7 (cat. hosts); Monné, M.A., & Hovore, 2006: 11 (checklist); Monné, M.A., 2006: 37 (cat.).
- Trichocnemis spiculatus spiculatus*; Rice, Merickel & MacRae, 2017: 669 (distr.); Bousquet. Laplante, Hammond & Langor, 2017: 28, pl 1
- Macrotoma californica* White, 1853: 37.
- Syntypes locality** - Syntypes male: United States, California. (BMNH).
- Macrotoma spiculigera* White, 1853:39.
- Type locality** - Holotype female: United States, California. (BMNH).

#### 2a. *Trichocnemis spiculatus neomexicanus* (Casey, 1890)

- Type locality** - Holotype male: United States, New Mexico. (USNM). **Distribution** - Rocky Mountains to New Mexico, southern Arizona and northern Mexico. **Host plants** - *Quercus sideroxyla* Kunth (Fagaceae), *Pinus arizonica* Engelm ex Rothrock, *P. engelmanni* Carr. var. *blancoi* Martínez, *P. latifolia* H. Mayr, *P. leiophylla chihuahuana* (Engelm) A. E. Murray, *P. ponderosa* Douglas ex Lawson & P. Lawson (Pinaceae).
- Ergates (Trichocnemis) neomexicanus* Casey, 1890: 491, fig. 16; 1891: 20; Lameere, 1915: 54; Lingafelter *et al.*, 2014: 104, figs 115m, n (lect. designation).
- Ergates spiculatus* var. *neomexicanus*; Casey, 1893: 597.
- Trichocnemis neomexicana*; Casey, 1912: 221.
- Ergates neomexicanus*; Spieth, 1950: fig. 40.
- Ergates spiculatus neomexicanus*; Linsley, Knull & Statham, 1961: 29, fig. 8; Swan & Papp, 1972: 443; Kirk & Balsbaugh, 1975: 96 (distr.); Lewis, 1979: 22 (biol., distr.); Hovore, Penrose & Neck, 1987: 322 (hosts); Terrón, 1992: 299 (biol., distr.); Chemsak, Linsley & Noguera, 1992: 17 (cat.); Monné, M.A., & Giesbert, 1994: 9 (checklist); Noguera & Chemsak, 1996: 396 (cat.); Chemsak, 1996: 88, pl. 5, figs 9, 10; Linsley & Chemsak, 1997: 374 (hosts); Heffern, 1998: 6 (distr.); Monné, M.A., 2002: 8 (cat. hosts); Monné, M.A., & Hovore, 2006: 11 (checklist) Monné, M.A., 2006: 36 (cat.).
- Ergates spiculatus*; Hamilton in Leng & Hamilton, 1896: 164; Knaus, 1904: 156 (distr.); Snow, 1906b: 170 (distr.); Fall & Cockerell, 1907: 191 (distr.).
- Ergates spiculatus* var. *marmoratus* Cockerell, 1890: 161; Horn, 1890: 161.
- Type locality** - Holotype female: United States, Colorado: Mountain Valley. (BMNH).

#### MACROTOMINI Thomson, 1861

- Macrotominae Thomson, 1861a: 290, 312; 1864: 298; 1865: 477.
- Macrotomides; Lacordaire, 1868: 96.
- Macrotominae; Pascoe, 1869: 661, 666.
- Macrotomiens; Lameere, 1903a: 89.
- Macrotomini; Lameere, 1912b: 180; 1913: 7 (cat.); Melzer, 1919: 27; Bradley, 1930: 227; Gilmour, 1956: 9; Linsley, 1962: 12; Villiers, 1980b: 140; Monné, M.A., 1995b: 1 (cat.); Chemsak, 1996: 70; Monné, M.A., 2006: 45 (cat.); Santos-Silva & Martins, 2006b: 398 (key

genera); Bousquet, Heffern, Bouchard & Nearn, 2009: 17; Bouchard *et al.*, 2011: 457; Santos-Silva & Wappes, 2012: 4 (key genera North and Central America).

**Type-genus:** *Macrotoma* Audinet-Serville, 1832.

**Type-species:** *Prionus palmatus* Fabricius, 1793 designated by Desmarest (1860: 307). Comment. *Macrotoma* Audinet-Serville, 1832 [July] is a junior homonym of *Macrotoma* Laporte, 1832 [April], a junior synonym of *Longina* Wiedemann, 1830 (Diptera). Heffern *et al.* (2006) applied the reversal of precedence (Article 23.9) to qualify *Macrotoma* Audinet-Serville of *nomen protectum*.

### ARCHETYPINA Lameere, 1912

Archetypina Lameere, 1912b: 180.

Archetypina; Bousquet, Heffern, Bouchard & Nearn, 2009: 17; Bouchard *et al.*, 2011: 457.

**Type genus:** *Archetypus* Thomson, 1861.

**Type-species:** *Archetypus parandroides* Thomson, 1861 (subsequent designation, Thomson, 1864: 307).

### *Strongylaspis* Thomson, 1861

*Strongylaspis* Thomson, 1861a: 313; 1864: 299; 1865: 477; Lacordaire, 1868: 100; Bates, 1879: 6; Lameere, 1903: 24; 1919: 23; Melzer, 1919: 28; Bradley, 1930: 227; Zayas, 1957: 160; Linsley, 1962: 12; Arnett, 1962: 855; Zajciw, 1970: 1; Cerda, 1974: 41; Zayas, 1975: 19; Villiers, 1980b: 143; Chemsak, 1996: 70; Monné, M.L. & Santos-Silva, 2003: 32 (rev.); Monné, M.A., 2006: 60 (cat.); Monné, M.A. & Hovore, 2006: 14 (checklist); Santos-Silva & Durán, 2009: 353 (key spp.); Monné, M.A., 2012: 130.

**Type-species** - *Strongylaspis scobinatus* Thomson, 1861, monotypy [= *Ergates corticarius* Erichson, 1849].

#### 1. *Strongylaspis corticarius* (Erichson, 1848)

**Syntypes locality** - Syntypes male and female: Guiana. (ZMHB). **Distribution** - United States (Florida), Mexico (Veracruz), Guatemala, Belize, Honduras, El Salvador, Nicaragua, Costa Rica, Panama, Guyana, French Guiana, Venezuela, Brazil (Roraima), Cuba, Jamaica, Dominica, Martinique, St. Lucia, Dominican Republic.

*Ergates corticarius* Erichson in Schomburgk, 1849: 571; White, 1853: 11.

*Strongylaspis corticarius*; Bates, 1884: 234; Leng & Mutchler, 1914: 443 (distr.); Schwarz in Holland, 1917: 341 (distr.); Gowdey, 1926: 20 (distr.); Fisher, 1944: 3 (distr.); Franz, 1954: 215 (distr.); Zayas, 1957: 160, pl. 8; Linsley, 1962: 13; Zayas, 1975: 20, pl. 1, fig. b; Chemsak, Linsley & Mankins, 1980: 28 (distr.); Villiers, 1980a: 130; 1980b: 143, fig. 8; Wendt, 1984: 331 (syntypes); Chemsak, Linsley & Noguera, 1992: 16 (cat.); Maes *et al.*, 1994: 6 (distr.); Monné, M.A., & Giesbert, 1994: 7 (checklist); Noguera & Chemsak, 1996: 396 (cat.); Chemsak, 1996: 70, pl. 4, figs 1, 2; Toledo *et al.*, 2002: 525 (distr.); Monné, M.L. & Santos-Silva, 2003: 45, figs 14, 18–28; Turnbow, Cave & Thomas, 2003: 4 (distr.); Lozada Piña, Fernández García & Trujillo Anaya, 2004: 105 (distr.); Monné, M.A., 2006: 61 (cat.); Peck, 2005: 165 (distr.); 2006: 191 (distr.); Hovore, 2006: 371 (distr.); Monné, M.A. & Hovore, 2006: 14 (checklist); Noguera *et al.*, 2007: 310 (distr.); Touroult, 2007: 6 (distr.); Audureau, 2008: 4 (distr.); Swift *et al.*, 2010: 8 (distr.); Maes *et al.*, 2010a: 71, 7 figs (distr.); Touroult, 2012: 76, fig. 10 (distr.); Lingafelter, 2015: 355, 1d, 13a. (distr.); Devesa, Fonseca & Barro, 2015: 29, 50, figs 1–10; Peck, 2016: 171 (distr.).

*Strongylaspis (Strongylaspis) corticaria*; Lameere, 1903a: 31; Rosales, 1966: 56, pl. 2, figs 3, 4; Vitali & Rezbanyai-Reser, 2003: 5, figs 1 a, b.

*Strongylaspis corticaria*; Galileo & Martins, in Rafael, 1991: 328 (distr.); Maes, 1998: 884 (distr.); Bouyer & Santos-Silva, 2016: 87, figs 1–4; Audureau & Roguet, 2018: 58 (distr.).

*Strongylaspis scobinatus* Thomson, 1861a: 313; Chevrolat, 1862: 272; Thomson, 1864: 299; Lacordaire, 1868: 101; Bates, 1872: 167; 1879: 6, pl. 1, fig. 7, pl. 2, fig. 9; 1884: 232; Thomson, 1878a: 5 (type); Gahan, 1895a: 82; Schaeffer, 1909: 149; Gowdey, 1926: 20 (distr.).

**Type locality** - Holotype female: Mexico. (MNHN).

*Strongylaspis scobinatus* var. *belti* Bates, 1884: 233.

**Type locality** - Holotype: Nicaragua, Chontales. (BMNH).

*Strongylaspis lobulifer* Bates, 1892b: 145.

**Type locality** - Holotype male: Mexico, Veracruz: Atoyac. (BMNH).

*Hovatoma gramreta* Gilmour, 1956: 30.

*Hovatoma (Hovatoma) gramreta*; Ferreira & Veiga Ferreira, 1959: 12; Gilmour, 1965: 3 (key).

*Parahovatoma gramreta*; Santos Ferreira, 1980: 63, 67.

**Type locality** - Holotype male: South Africa. (MAGD).

### **BASITOXINA Lameere, 1912**

Basitoxi Lameere, 1912b: 180.

Basitoxina; Bousquet, Heffern, Bouchard & Nears., 2009: 17; Bouchard *et al.*, 2011: 457.

**Type-genus:** *Basitoxus* Audinet-Serville, 1832

**Type-species:** *Basitoxus armatus* Audinet-Serville, 1832 designated by Desmarest (1860: 307).

Mécosarthrines Lameere, 1903b: 307 (based on *Mecosarthron* Buquet, 1840). *Nomen nudum*.

Comment. This name is unavailable under Article 11.7.2 (vernacular name proposed after 1899)

Mecosarthrini Melzer, 1919: 35.

**Type-genus:** *Mecosarthron* Buquet, 1840

**Type-species:** *Mecosarthron buphagus* Buquet, 1840 by monotypy.

### **Archodontes Lameere, 1903**

*Basitoxus (Archodontes)* Lameere, 1903b: 216.

*Archodontes*; Lameere, 1919: 27; Casey, 1924: 224; Bradley, 1930: 227; Linsley, 1962: 13;

Arnett, 1962: 855; Chemsak, 1996: 71; Monné, M.A., 2006: 46 (cat.); Monné, M.A. &

Hovore, 2006: 12 (checklist); Monné, M.A., 2012: 129.

**Type-species** - *Cerambyx melanopus* Linnaeus, 1767 (original designation).

*Aplagiognathus*; Thomson, 1864: 307 (*partim*).

*Mallodon*; Horn in Leng, 1884: 9 (*partim*).

*Paramallus* Casey, 1912: 222, 227.

**Type-species** - *Cerambyx melanopus* Linnaeus, 1767 (original designation).

### **1. *Archodontes melanopus melanopus* (Linnaeus, 1767)**

**Type locality** - Type: United States, Carolina. (depository unknown). **Distribution** - Southern

United States from North Carolina to Louisiana. **Host plants** – *Acer negundo* Linnaeus

(Aceraceae), *Diospyros virginiana* Linnaeus (Ebenaceae), *Carya illinoensis* (Wagenheim)

K.Koch, *Quercus geminate* (Fagaceae), *Prunus persica* (Linnaeus) Batsch (Rosaceae).

*Cerambyx melanopus* Linnaeus, 1767: 623

*Prionus melanopus*; Fabricius, 1781: 208; 1787: 130; 1793: 250; Olivier, 1795: 18, pl. 112, fig.

46; Fabricius, 1801: 264; Schoenherr, 1817: 344; White, 1853:

*Cerambyx (Prionus) melanopus*; Gmelin, 1790: 1816

*Mallodon melanopus*; White, 1853: 46; Riley, 1880: 238; Packard, 1881: 28; Horn in Leng, 1884:

10; Riley, 1884: 410; Hubbard, 1886: 13; Packard, 1890: 50, pl. 35, fig. 1; Beutenmuller,

1896: 73 (hosts); Fall, 1901: 142; Knaus, 1903: 189; Hopkins, 1904: 37; Herrick, 1904: 21,

figs 13,14; Craighead, 1915: 15; Garnett, 1918: 172; Dozier, 1920: 339, fig. 8b

*Aplagiognathus melanopus*; Thomson, 1864: 307; 1867c: 90

*Basitoxus (Archodontes) melanopus*; Lameere, 1903b: 217

*Paramallus melanopus*; Casey, 1912: 227

*Archodontes melanopus*; Lameere, 1913: 10; Casey, 1924: 224; Doane *et al.*, 1936: 263; Brimley,

1938: 209; Loding, 1945: 112; Sherman, 1946: 126; Alexander, 1958: 45; Linsley, 1962: 15;

Baker, 1972: 206; Chemsak, Linsley & Noguera, 1992: 14; Brown & Peck, 1996: 2158;

Chemsak, 1996: 72; Korotyaev *et al.*, 2005: 253 (hosts); Vlasak & Vlasakova, 2021: 5

(hosts)

*Stenodontes melanopus*; Herrick, 1935: 219;

*Archodontes (Mallodon) melanopus*; Craighead, 1950: 252



*Archodontes melanopus melanopus*; Linsley, 1962: 16; Turnbow & Franklin, 1980: 338; Monné, M.A., & Giesbert, 1994: 5 (checklist); Monné, M.A., 1995: 5 (cat.); Chemsak, 1996: 73, pl. 4, figs 3, 4; Yanega, 1996: 26, pl. 1, fig. 5; Linsley & Chemsak, 1997: 345 (hosts); Schiefer, 1998: 115; Peck & Thomas, 1998: 116; Monné, M.A. & Hovore, 2006: 12 (checklist); Holt, 2013: 243; Haack, 2017: 113. Klingeman *et al.*, 2017: 294

*Prionus cilipes* Say, 1824: 328;

*Orthosoma cilipes*; Haldeman, 1847a: 31

*Mallodon cilipes* Haldeman, 1847b: 371; LeConte, 1851: 111; White, 1853: 46; LeConte, 1859a: 48

*Aplagiognathus cilipes*; Thomson, 1867c: 90

*Paramallus cilipes*; Casey, 1912: 228

*Archodontes cilipes*; Casey, 1924: 224*bi*-

**Syntypes locality** - Syntypes female: United States, Carolina. (depository unknown).

*Mallodon simplicicollis* Haldeman, 1847a: 30

**Type locality** - Syntypes female: United States. (MCZH)

*Mallodon simplicicollis* var. *bi-impressum* Haldeman, 1847a: 30

**Type locality** - Holotype male: United States (MCZH)

#### 1a. *Archodontes melanopus aridus* Casey, 1924

**Type locality** - Holotype male: United States, Arizona "probably southern". (USNM).

**Distribution** - United States (Colorado River in California and Arizona), Mexico (Baja California). **Host plants** - *Salix* sp. (Salicaceae).

*Archodontes aridus* Casey, 1924: 224; Lingafelter *et al.*, 2014: 19, figs 19q, r (holotype).

*Archodontes melanopus aridus*; Linsley, 1962: 17, fig. 4; Chemsak, Linsley & Noguera, 1992: 14 (cat.); Monné, M.A., & Giesbert, 1994: 5 (checklist); Noguera & Chemsak, 1996: 396 (cat.); Chemsak, 1996: 75, pl. 4, figs 7, 8; Linsley & Chemsak, 1997: 345 (hosts); Monné, M.A., 2002: 12 (cat.); Monné, M.A., 2006: 46 (cat.); Monné, M.A. & Hovore, 2006: 12 (checklist);

#### 1b. *Archodontes melanopus serrulatus* (LeConte, 1854)

**Syntypes locality** - Syntypes: United States, Texas: Laredo to Ringgold Barracks. (MCZN).

**Distribution** - Southwestern United States from Arkansas to Arizona, northern Mexico. **Host plants** - *Prosopis juliflora* (Swartz) de Candolle (Mimosaceae), *Citrus paradisi* Macfadyen (Rutaceae), *Populus* sp. (Salicaceae).

*Mallodon serrulatus* LeConte, 1854b: 82; 1858a: 40; 1859e: 127, pl. 3, fig. 5; Riley, 1880: 238 (hosts); Horn *in* Leng, 1884: 9, 10; Wickham, 1893: 143; Snow, 1906a: 146 (distr.); Schaeffer, 1908: 329 (distr.).

*Aplagiognathus serrulatus*; Thomson, 1867c: 91 (error).

*Paramallus serrulatus*; Casey, 1912: 228.

*Archodontes melanopus serrulatus*; Dean, 1953: 174; Linsley, Knull & Statham, 1961: 3; Linsley, 1962: 16, fig. 4; Manley & French, 1976: 46; MacKay, Zak & Hovore, 1987: 363; Hovore, Penrose & Neck, 1987: 293; Chemsak, Linsley & Noguera, 1992: 14 (cat.); Lingafelter & Horner, 1993: 163; Monné, M.A., & Giesbert, 1994: 5 (checklist); Chemsak, 1996: 74, pl. 4, figs 5, 6; Linsley & Chemsak, 1997: 345 (hosts); Monné, M.A., 2006: 46 (cat.); Monné, M.A. & Hovore, 2006: 12 (checklist);

*Archodontes serrulatus*; Alexander, 1958: 45

### MALLODONINI Thomson, 1861

Mallodonitae Thomson, 1861a: 292 (key), 318; 1864: 305.

Mallodonites; Thomson, 1867c: 85.

Mallodontides; Lacordaire, 1868: 122.

Mallodontinae; Pascoe, 1869: 661, 671.

Mallodontini; LeConte, 1873b: 286; LeConte & Horn, 1883: 271; Leng, 1884: 8; Casey, 1912: 221; Villiers, 1980b: 140.

Mallodonini Drumont & Komiya, 2010: 91; Bouchard *et al.*, 2011: 459.

**Type-genus:** *Mallodon* Lacordaire, 1830

**Type-species:** *Cerambyx spinibarbis* Linnaeus, 1758 (monotypy).

*Stenodontines* Lameere, 1902c: 63, 104 (based on *Stenodontes* Audinet-Serville, 1832). *Nomen nudum*. Comment. This name is unavailable under Article 11.7 (vernacular name proposed after 1899).

*Stenodontini* Lameere, 1903a: 4 (key), 54.

**Type-genus:** *Stenodontes* Audinet-Serville, 1832.

**Type-species:** *Prionus exsertus* Olivier, 1795 designated by Desmarest (1860: 307).

### ***Mallodon* Lacordaire, 1830**

*Mallodon* Lacordaire, 1830: 171; Chevrolat in D'Orbigny, 1846a: 609; Desmarest, 1860: 307; Strauch, 1861: 124; Schjodte, 1865: 194; Thomson, 1867c: 92; Lacordaire, 1868: 125; Desmarest in Chenu, 1870: 307; Bates, 1879: 8; Leng, 1884: 9; Lameere, 1902c: 91; Casey, 1912: 221, 222; Lameere, 1913: 12; 1919: 31; Fragoso & Monné, M.A., 1995a: 217 (syn.); Chemsak, 1996: 78; Monné, M.A., 2006: 48 (cat.); Monné, M.A. & Hovore, 2006: 12 (checklist); Bousquet, 2007: 619; Monné, M.A., 2012: 129.

**Type-species** - *Cerambyx spinibarbis* Linnaeus, 1758 (monotypy).

*Stenodontes* (*Orthomallodon*) Linsley, 1957: 3; 1962: 19.

**Type-species** - *Cerambyx spinibarbis* Linnaeus, 1758 (original designation).

#### **1. *Mallodon dasystemus dasystemus* (Say, 1824)**

**Type locality** - Type: Lower Missouri River. (Depository unknown). **Distribution** - Southern United States, Mexico (Jalisco, Nayarit, Sinaloa, Tamaulipas, Veracruz), Honduras, Tobago, Colombia. **Host plants** - *Acer negundo* Linnaeus, *A. pseudoplatanus* Linnaeus (Aceraceae), *Alnus* sp. (Betulaceae), *Bursera simaruba* (Linnaeus) Sargent (Burseraceae), *Celtis laevigata* Willdenow (Cannabaceae), *Casuarina equisetifolia* Linnaeus (Casuarinaceae), *Quercus* sp. (Fagaceae), *Liquidambar styraciflua* Linnaeus (Hamamelidaceae), *Carya* sp. (Juglandaceae), *Inga* sp. (Mimosaceae), *Ficus* sp., *Morus* sp. (Moraceae), *Platanus occidentalis* Linnaeus, *P. wrightii* S. Watson (Platanaceae), *Salix* sp. (Salicaceae), *Bumelia lanuginosa* (Michaux) (Sapotaceae), *Ulmus crassifolia* Nuttall (Ulmaceae).

*Prionus dasystemus* Say, 1824: 326; 1835: 193; LeConte, 1859b: 184, 663.

*Mallodon dasystemus*; LeConte, 1851: 112; White, 1853: 46; LeConte, 1858a: 40 (distr.); Riley, 1880: 238 (hosts); Packard, 1881: 28 (biol.); Horn in Leng, 1884: 9, 10, pl. 2, fig. 5; Packard, 1890: 79, fig. 27 (biol.); Beutenmuller, 1896: 73 (hosts); Hebard, 1903: 261; Townsend, 1903: 75 (distr.); Hopkins, 1904: 37 (biol.); Tucker, 1906: 87 (distr.); Snow, 1906a: 147 (distr.); Schaeffer, 1908: 327; Wickham, 1909a: 40 (distr.); Mason, 1910: 24 (distr.); Casey, 1912: 223; Craighead, 1915: 14, pl. 3, fig. 2, pl. 5, fig. 2, pl. 7 (larva, pupa); Fragoso & Monné, M.A., 1995a: 219; Chemsak, 1996: 78, pl. 4, figs 11, 12; Monné, M.A., 2002: 13 (cat. hosts); Monné, M.A. & Hovore, 2006: 12 (checklist); Mankin *et al.*, 2018: 321 (biol.).

*Aplagiognathus dasystemus*; Thomson, 1861a: 320; 1867c: 91.

*Stenodontes* (*Mallodon*) *dasystemus dasystemus*; Lameere, 1902c: 77.

*Stenodontes* (*Mallodon*) *dasystemus*; Hatch & Ortenburger, 1930: 14 (distr.); Craighead, 1950: 252 (biol.); Gilmour, 1954: 7 (distr.); Franz, 1954: 216 (distr.); Duffy, 1960: 62 (larva, pupa).

*Stenodontes dasystemus*; Brimley, 1938: 209 (distr.); Loding, 1945: 112 (distr.); Vogt, 1949: 138 (distr., hosts); Dean, 1953: 174 (hosts); Dillon & Dillon, 1961: 576, pl. 57, No. 8; Solomon, Newsome & Darwin, 1972: 78.

*Stenodontes* (*Orthomallodon*) *dasytomus*; Linsley, 1957: 4; 1962: 19; Skiles, 1978a: 414; Chemsak, Linsley & Noguera, 1992: 15 (cat.).

*Stenodontes* (*Orthomallodon*) *dasytomus dasytomus*; Linsley, 1957: 4 (syn.); 1962: 20, fig. 5; Hovore, Penrose & Neck, 1987: 283, fig. 5 (biol., distr.); Lingafelter & Horner, 1993: 164 (distr.); MacRae, 1993: 226 (distr.); Monné, M.A., & Giesbert, 1994: 6 (checklist); Noguera & Chemsak, 1996: 396 (cat.).

*Stenodontes* (*Mallodon*) *dasytomus*; Duffy, 1960: 62 (larva).

- Stenodontes dasytomus*; Baker, 1972: 205 (biol.); Manley & French, 1976: 46, fig. 1; Browne & Peck, 1996: 2158, 2160; Toledo *et al.*, 2002: 525 (distr.); Peck, Cook & Hardy, 2002: 17 (distr.).
- Stenodontes dasytomus dasytomus*; Perry, 1974: 215 (distr.); Thomas, 1977: 83 (hosts); Turnbow & Franklin, 1980: 338 (distr.); Linsley & Chemsak, 1997: 434 (hosts).
- Mallodon dasystemus dasystemus*; Monné, M.A., 1995b: 9 (cat.); Turnbow, Cave & Thomas, 2003: 3 (distr.); Hovore & Santos-Silva, 2004: 51 (syn.); Monné, M.A., 2006: 48 (cat.); Santos-Silva & Martins, 2006: 397 (syn.); Hovore, 2006: 371 (distr.); Noguera *et al.*, 2007: 310 (distr.); Swift *et al.*, 2010: 8 (distr.); Maes *et al.*, 2010a: 47, 12 figs (distr.); Gutiérrez & Noguera, 2015: 136 (distr.); Audureau & Roguet, 2018: 58 (distr.); Vlasak & Vlasakova, 2021: 5 (hosts)
- Mallodon dasystemus*; García Morales *et al.*, 2015:112 (distr.).
- Mallodon costulata* LeConte, 1851: 111; White, 1853: 46.
- Aplagiognathus costulatus*; Thomson, 1867c: 91.
- Syntypes locality** - Syntypes female: United States, Georgia. (MCZN).
- Mallodon degeneratum* Thomson, 1867c: 95.
- Syntypes locality** - Syntypes male: America boreali. (MNHN).
- Mallodon masticator* Thomson, 1867c: 99; 1878a: 5 (type).
- Stenodontes (Mallodon) dasystemus masticator*; Lameere, 1902c: 78.
- Stenodontes (Mallodon) masticator*; Linsley, 1934b: 161; 1942: 85.
- Stenodontes (Stenodontes) masticator*; Linsley, Knull & Statham, 1961: 3, fig. 2.
- Stenodontes (Orthomallodon) dasytomus masticator*; Linsley, 1962: 21; Chemsak, Linsley & Noguera, 1992: 15 (cat.); Maes *et al.*, 1994: 5 (distr.); Noguera & Chemsak, 1996: 396 (cat.); Maes, 1998: 883 (distr.).
- Stenodontes dasytomus masticator*; Linsley & Chemsak, 1997: 435 (hosts).
- Mallodon dasystemus masticator*; Martínez, 2000: 84 (distr.).
- Syntypes locality** - Syntypes male: Colombia. (MNHN).
- Mallodon angustatum* Thomson, 1867c: 100; 1878: 5 (type); Bates, 1872: 168; 1879: 9 (distr.); 1884: 236; Dugés, 1884: 13, pl. 2 (larva, pupa).
- Syntypes locality** - Syntypes male: Mexico. (MNHN).
- Aplagiognathus guatemalensis* Casey, 1912: 227; Lingafelter *et al.*, 2014: 73, figs 78m, n (holotype).
- Type locality** - Guatemala, Escuintla. (USNM).
- Mallodon debile* Casey, 1912: 222; Lingafelter *et al.*, 2014: 50, figs 53c, d (holotype).
- Stenodontes debile*; Loding, 1945: 113 (distr.).
- Type locality** - Holotype female: United States, Alabama. (USNM).
- Mallodon baroni* Casey, 1912: 223; Lingafelter *et al.*, 2014: 25, figs 25u, v (holotype).
- Stenodontes (Orthomallodon) baroni*; Chemsak, Linsley & Noguera, 1992: 15 (cat.); Noguera & Chemsak, 1996: 396 (cat.).
- Nothopleurus baroni*; Fragoso & Monné, M.A., 1995a: 219; Monné, M.A., 2006: 54 (cat.).
- Type locality** - Holotype female: Mexico, Guerrero. (USNM). Distribution - Mexico (Guerrero).
- Stenodontes dasytomus socorrensis* Linsley & Chemsak, 1966c: 251; Chemsak & Linsley, 1978: 139 (distr., host).
- Stenodontes (Orthomallodon) dasytomus socorrensis*; Chemsak, Linsley & Noguera, 1992: 15 (cat.); Monné, M.A., & Giesbert, 1994: 6 (checklist); Noguera & Chemsak, 1996: 396 (cat.).
- Mallodon dasystemus socorroensis*; Monné, M.A., 1995b: 10 (cat.).
- Type locality** - Holotype male: Mexico, Islas Revilla Gigedo: Isla Socorro. (CASC).
- Stenodontes (Mallodon) molarius*; Linsley, 1942: 83 (not Bates, 1879).
- Mallodon melanopus*; Haldeman, 1847a: 30 (not Linnaeus, 1767).
- Mallodon spinibarbe*; Haldeman, 1847a: 31 (not Linnaeus, 1758).
- Mallodon mandibularis* Lackerbeck, 1998: 517, figs 1, 2.
- Type locality** - Holotype male: Costa Rica, Alajuela: Cariblanco. (KLPC).

***Neomallodon* Linsley, 1957**

*Stenodontes Neomallodon*) Linsley, 1957: 2; 1962: 18.

*Neomallodon*; Skiles, 1978a: 409; Chemsak, 1996: 83; Santos-Silva & Martins, 2006: 399; Monné, M.A. & Hovore, 2006: 13 (checklist); Santos-Silva & Wappes, 2013: 5.

**Type-species** - *Paramallus arizonicus* Casey, 1912: 228. (original designation).

### 1. *Neomallodon arizonicus* (Casey, 1912)

**Type locality** - Lectotype female: United States (USNM). **Distribution** - United States (Arizona), Mexico (Sonora, Jalisco). **Host plants** - *Quercus* sp. (Fagaceae).

*Paramallus arizonicus* Casey, 1912: 228.

*Stenodontes (Neomallodon) arizonicus*; Linsley, 1957: 3 (syn.); Linsley, Knull & Statham, 1961: 3 (distr.); Linsley, 1962: 19.

*Neomallodon arizonicus*; Skiles, 1978a: 409, fig. 1; Chemsak, Linsley & Noguera, 1992: 14 (cat.); Monné, M.A., & Giesbert, 1994: 5; Fragoso & Monné, M.A., 1995: 219

(checklist); Chemsak, 1996: 83, pl. 5, figs 5, 6; Linsley & Chemsak, 1997: 434 (hosts); Monné, M.A. & Hovore, 2006: 13 (checklist); Lingafelter *et al.*, 2014: 20, 369, fig. 20a (lect.); Heffern & Santos-Silva, 2016: 571.

*Aplagiognathus remotus* Linsley, 1934c: 161.

**Type locality** - Holotype male: United States, Arizona: Mt. Washington, near Nogales, Santa Cruz County. (CASC).

### *Nothopleurus Lacordaire, 1868*

*Nothopleurus* Lacordaire, 1868: 125; Bates, 1879: 8; Lameere, 1912b: 129; Casey, 1912: 222, 224; Linsley, 1934b: 162; Quentin & Villiers, 1975: 29; Villiers, 1980b: 140; Fragoso & Monné, M. A., 1995a: 219; Chemsak, 1996: 79; Monné, M.A., 2006: 54 (cat.); Monné, M.A. & Hovore, 2006: 13 (checklist); Santos-Silva, Swift & Nearn, 2010: 8; Monné, M.A., 2012: 129.

*Stenodontes (Nothopleurus)*; Lameere, 1902d c: 94; 1919: 32; Gilmour, 1956: 13.

**Type-species** - *Nothopleurus ebeninus* Lacordaire, 1868 (monotypy).

*Mallodon* Audinet-Serville, 1832: 176; Thomson, 1864: 307 (not Lepeletier & Audinet-Serville in Lacordaire, 1830).

**Type-species** - *Prionus maxillosus* Fabricius, 1775 (Thomson designation, 1864: 308).

### 1. *Nothopleurus lobigenis* Bates, 1884

**Type locality** - Holotype male: Mexico, Bahia de Tehuantepec. (MNHN). **Distribution** - United States (Texas to southern California), Mexico (Baja California, Durango, Jalisco, Sonora, Oaxaca, Nayarit, Chiapas, Puebla, Morelos, Sinaloa, Guerrero). **Host plants** - *Schinus molle* Linnaeus (Anacardiaceae), *Baccharis sergiloides* Gray, *B.sarothroides* A. (Asteraceae), *Bursera* sp. (Burseraceae), *Parkinsonia torreyana* S. Watson (Caesalpinaceae), *Prosopis juliflora* (Swartz) de Candolle (Mimosaceae), *Ficus* sp. (Moraceae).

*Nothopleurus lobigenis* Bates, 1884: 235; Fragoso & Monné, M.A., 1995a: 219; Chemsak, 1996: 81, pl. 5, figs 3, 4; Monné, M.A., 2002: 16 (cat. hosts); Noguera *et al.*, 2002: 623 (distr.); Monné, M.A., 2006: 55 (cat.); Monné, M.A. & Hovore, 2006: 13 (checklist); Noguera *et al.*, 2007: 310 (distr.); Noguera *et al.*, 2009: 87 (distr.); Santos-Silva, Swift & Nearn, 2010: 12, figs 3, 4, 23, 24, 38, 39, 58, 67, 71, 76; Noguera *et al.*, 2012: 620 (distr.); Amith & Lingafelter, 2017: 308 (distr.); Noguera *et al.*, 2017: 3 (distr.); Vlasak & Vlasakova, 2021: 5 (hosts)

*Stenodontes (Nothopleurus) lobigenis*; Lameere, 1902c: 101; Linsley, 1934b: 59 (distr.); 1934c: 162; 1935a: 69 (distr.); Linsley & Ross, 1940: 76 (biol.); Linsley, 1942: 24; Gilmour, 1954: 7, pl. 6, fig. 9.

*Stenodontes lobigenis*; Brimley, 1938: 209 (distr.); Chemsak & Noguera, 1995: 57 (distr.); Linsley & Chemsak, 1997: 435 (hosts).

*Stenodontes (Mallodon) lobigenis*; Linsley, 1962: 23, fig. 6; Skiles, 1978a: 414; Monné, M.A., & Giesbert, 1994: 6 (checklist); Hovore, 1988: 2 (hosts, distr.); Chemsak, Linsley & Noguera, 1992: 15 (cat.); Noguera & Chemsak, 1996: 396 (cat.).

*Stenodontes lobigenus*; Turnbow & Franklin, 1980: 347 (distr.).

*Mallodon gnatho* LeConte, 1858b: 81 (not *Mallodon gnatho* White, 1853); 1858a: 40; LeConte & Horn, 1883: 272.

**Type locality** - Holotype male: Sonora. (MCZN).

*Mallodon mandibulare* Gemminger, 1872: 254 (not *Prionus mandibularis* Fabricius, 1801); Bates 1879: 10; 1884: 234; Horn *in* Leng, 1884: 9; Horn, 1894: 337 (distr.); Garnett, 1918: 172 (distr.).

*Nothopleurus komiyai* Santos-Silva & Martins, 2006: 194, figs 7-9; Monné, M.A. *et al.*, 2017a: 85 (holotype).

**Type locality** - Holotype female: Brazil, Bahia: Santo Antonio. (MZSP).

## 2. *Nothopleurus madericus* (Skiles, 1978)

**Type locality** - Holotype male: United States, Arizona: Santa Cruz Co., Madera Canyon (Roundup Picnic Ground, 5400 ft). (USNM). **Distribution** - United States (Arizona), Mexico (Chihuahua). **Host plants** - *Quercus hypoleuca* Engelmann (Fagaceae).

*Stenodontes (Mallodon) madericus* Skiles, 1978a: 414, figs 2-6; Chemsak, Linsley & Noguera, 1992: 15 (cat.); Monné, M.A., & Giesbert, 1994: 6 (checklist); Lingafelter *et al.*, 2014: 94, figs 104c, d (holotype).

*Nothopleurus madericus*; Fragoso & Monné, M.A., 1995a: 225, fig. 7B; Chemsak, 1996: 80, pl. 5, figs 1, 2; Monné, M.A., 2002: 16 (cat. hosts); Monné, M.A., 2006: 55 (cat.); Monné, M.A. & Hovore, 2006: 13 (checklist); Santos-Silva, Swift & Nearn, 2010: 19, figs 5, 6, 26, 27, 41, 42, 60, 76.

*Stenodontes madericus*; Linsley & Chemsak, 1997: 435 (hosts).

*Stenodontes arizonicus*; Hovore & Giesbert, 1976: 350 (not Casey, 1912); Hovore, Penrose & Giesbert, 1978: 99 (hosts).

## *Stenodontes Audinet-Serville, 1832*

*Stenodontes* Audinet-Serville, 1832: 173; Laporte, 1840: 403; Blanchard, C.E., 1845: 142; Drapiez, 1845: 123; Chevrolat *in* D'Orbigny, 1849: 10; Gistel & Bromme, 1850: 425; Jacquelin DuVal *in* Sagra, 1857: 257; Strauch, 1861: 124; Thomson, 1861a: 323; 1864: 308; 1865: 480; 1867b: 105; Lacordaire, 1868: 123; Desmarest *in* Chenu, 1870: 307; Leng, 1884: 9; Lameere, 1902d: 67; Casey, 1912: 222, 224; Melzer, 1919: 43; Lameere, 1919: 30; Bradley, 1930: 227; Gilmour, 1956: 10; Zayas, 1957: 160; Dillon & Dillon, 1961: 576; Linsley, 1962: 17; Arnett, 1962: 855; Zayas, 1975: 21; Fragoso & Monné, M.A., 1995a: 219; Chemsak, 1996: 76; Monné, M.A., 2006: 58 (cat.); Monné, M.A. & Hovore, 2006: 14 (checklist); Monné, M.A., 2012: 130.

*Stenodontes (Stenodontes)*; Laporte, 1840: 403; Lameere, 1902d: 91; 1919: 33; Linsley, 1962: 17.

**Type-species** - *Prionus exsertus* Olivier, 1795 (subsequent designation, Desmarest *in* Chenu, 1860: 307).

## 1. *Stenodontes chevrolati* Gahan, 1890

**Syntypes locality** - Syntypes male and female: Cuba. (BMNH). **Distribution** - United States (Florida), Cuba, Bahamas, Cayman Islands. **Host plants** - *Spondias purpurea* Linnaeus (Anacardiaceae), *Cordia gerascanthus* Linnaeus (Boraginaceae), *Bursera simaruba* (Linnaeus) Sargent (Burseraceae), *Cecropia peltata* Linnaeus (Cecropiaceae), *Tectona grandis* Linnaeus fil. (Lamiaceae), *Ceiba pentandra* (Linnaeus) Gaertner (Malvaceae), *Samanea saman* (Jacquin) Merrill (Mimosaceae), *Pinus caribaea* Morelet (Pinaceae).

*Stenodontes chevrolati* Gahan, 1890: 23; 1895a: 82; Casey, 1912: 224; Leng & Mutchler, 1914: 443 (distr.); Schwarz *in* Holland, 1917: 340; Zayas, 1957: 160, pl. 10; Chemsak, 1969a: 185 (distr.); Zayas, 1975: 21, pl. 1, fig. c; Chemsak, Linsley & Noguera, 1992: 14 (cat.); Browne, Peck & Ivie, 1993: 40 (distr.); Chemsak, 1996: 77, pl. 4, figs 9, 10; Linsley & Chemsak, 1997: 434 (hosts); Monné, M.A., 2002: 17 (cat. hosts); Aragón, 2006: 54 (distr.); Monné, M.A., 2006: 59 (cat.); Monné, M.A. & Hovore, 2006: 14 (checklist); Thomas & Turnbow, 2007: 582 (distr.); Fernández García, Favila Castillo & López Iborra 2009: 322 (distr.);

- Thomas, Turnbow & Steiner, 2013: 20 (distr.); Devesa, Fonseca & Barro, 2015b: 29, 46, figs 1-10.
- Stenodontes (Stenodontes) chevrolati*; Lameere, 1902d: 92; Cazier & Lacey, 1952: 5; Linsley, 1957: 4 (syn.); Duffy, 1960: 60 (larva); Linsley, 1962: 18; Skiles, 1978a: 414; Monné, M.A., & Giesbert, 1994: 6 (checklist); Peck, 2005: 164 (distr.).
- Stenodontes damicornis*; Chevrolat, 1862: 273 (not Linnaeus, 1771); LeConte *in* Schwarz, 1878: 470.
- Stenodontes exsertus*; Horn, 1880b: xvii (not Olivier, 1795).
- Stenodontes mandibularis*; Leng, 1884: 9 (not pl. 2, fig. 10; not Fabricius, 1801).
- Stenodontes cubensis* Casey, 1912: 224 ; Leng & Mutchler, 1914: 443 (distr.); Peck, 2005: 165 (distr.); Lingafelter *et al.*, 2014: 48, figs 51m, n (lect. designation).
- Type locality** - Lectotype male: Cuba, Habana. (USNM).
- Stenodontes parallelus* Casey, 1912: 225; Lingafelter *et al.*, 2014: 295, figs 127q, r (holotype).
- Type locality** - Holotype male: Southern Florida ?. (USNM).

### **MEROSCELISINI Thomson, 1861**

- Meroscelisidae Thomson, 1861a: 285, 299; 1864: 279.
- Meroscelisides; Lacordaire, 1868: 46.
- Meroscelisini; Galileo, 1987a: 148 (rev.); Monné, M. A., 1995b: 63 (cat.); Chemsak, 1996: 125; Monné, M. A., 2006: 71 (cat.); Bousquet, Heffern, Bouchard & Nearn., 2009: 19; Bouchard *et al.*, 2011: 459.
- Type-genus:** *Meroscelisus* Audinet-Serville, 1832
- Type-species:** *Meroscelisus violaceus* Audinet-Serville, 1832 (monotypy).
- Aegosomeitae Thomson, 1861a: 308 (*partim*).
- Orthosomeitae Thomson, 1864: 284 (*partim*).
- Tragosomeitae Thomson, 1864: 286.
- Tragosomides; Lacordaire, 1868: 163.
- Tragosomini; LeConte, 1873b: 289; LeConte & Horn, 1883: 274; Leng, 1884: 8; Linsley, 1961: 629; 1962: 53
- Tragosomiens; Lameere, 1912b: 59
- Tragosomae; Lameere, 1919: 157.
- Type-genus:** *Tragosoma* Audinet-Serville, 1832
- Type-species:** *Cerambyx depsarius* Linnaeus, 1767 (monotypy).
- Tragosomites; Fairmaire *in* Jacquelin DuVal, 1864: 119, 191. (based on *Tragosoma* Audinet-Serville, 1832). *Nomen nudum*. Comment. This name is unavailable under Article 11.7 (not subsequently Latinized and attributed to Fairmaire 1864).
- Closterides Lacordaire, 1868: 149 (*partim*).
- Closterinae; Pascoe, 1869: 661, 676 (*partim*).
- Closteriens; Lameere, 1912b: 5 (*partim*).
- Closteri; Lameere, 1913: 81 (cat.); 1919: 145 (*partim*).
- Closterina; Gilmour, 1956: 220.
- Closterini; Quentin & Villiers, 1974: 250; Fragoso & Monné, M. A., 1982: 519.
- Type-genus:** *Closterus* Audinet-Serville, 1832.
- Type-species:** *Closterus flabellicornis* Audinet-Serville, 1832 (monotypy). Availability (under Article 11.7.2): *Closteri* Lacord[aire], 1869 (Lameere 1913: 81).
- Monodesmides Lacordaire, 1868: 140, 157 (based on *Monodesmus* Audinet-Serville, 1832). *Nomen nudum*. Comment. This name is unavailable under Article 11.7 (not subsequently Latinized and attributed to Lacordaire 1868 [1869]).
- Monodesminae Gahan, 1890: 299.
- Monodesmiens; Lameere, 1912b: 80.
- Type-genus:** *Monodesmus* Audinet-Serville, 1832
- Type-species:** *Monodesmus callidioides* Audinet-Serville, 1832 (monotypy).
- Luluina Gilmour, 1956: 181 (key), 222.
- Type-genus:** *Lulua* Burgeon, 1931
- Type-species:** *Lulua squamosa* Burgeon, 1931 (monotypy).

***Tragosoma* Audinet-Serville, 1832**

*Tragosoma* Audinet-Serville, 1832: 159; Mulsant, 1839: 23; Laporte, 1840: 398; Drapiez, 1845: 479; Chevrolat *in* D'Orbigny, 1849: 633; Gistel, 1848b: 130; LeConte, 1851: 107; Thomson, C. G., 1859: 148; Desmarest, 1860: 306; Thomson, 1861a: 290; 1865: 472; Mulsant, 1863: 42, 348; Fairmaire *in* Jacquelin DuVal, 1864a: 120; Schjodte, 1865: 195; Lacordaire, 1868: 167; Desmarest *in* Chenu, 1870: 306; LeConte, 1873b: 289; Redtenbacher, 1874: 396; Provancher, 1877: 583; LeConte & Horn, 1883: 274; Leng, 1884: 59; Casey, 1890: 491; 1899: 98 (key spp.); Reitter, 1912: 4; Lameere, 1912b: 59; 1919: 158; Schaufuss, 1916: 825; Planet, 1924: 22; Casey, 1924: 225; Portevin, 1927: 8; Picard, 1929: 38; Chagnon, 1936: 239; Plavilstshikov, 1936: 99; Knull, 1946: 147; Heyrovsky, 1955: 72; Linsley, 1962: 54; Arnett, 1962: 855; Chagnon & Robert, 1962: 239; Hatch, 1971: 92; Galileo, 1987a: 165 (rev.); Chemsak, 1996: 126; Monné, M.A., 2006: 76 (cat.); Monné, M.A. & Hovore, 2006: 17 (checklist); Monné, M.A., 2012: 131; Laplante, 2017: 4 (rev.); Bousquet. Laplante, Hammond & Langor, 2017: 30 (key spp)

**Type-species** - *Cerambyx depsarius* Linnaeus, 1767 (monotypy).

**1. *Tragosoma depsarium* (Linnaeus, 1767)**

**Type locality** - Type: Suecia. **Distribution** - Coniferous forests of the Northern Hemisphere.

**Host plants** – *Picea abietis* Linnaeus, *P. excelsa* Link, *Pinus contorta* Douglas ex Loudon, *P. monophylla* Torrey ex Frémont, *P. peuce* Grisebach, *P. pumilio* Haenkel, *P. rigida* Miller, *P. sibirica* Mayr, *P. strobus* Linnaeus, *P. sylvestris* Linnaeus, *Pseudotsuga menziesii* (Mirbel) Franco (Pinaceae).

*Cerambyx depsarius* Linnaeus, 1767: 624;

*Tragosoma depsarium*; Hamilton, 1889: 145; 1892: 296; 1894: 395; 1895: 337; Leng & Hamilton, 1896: 164 (syn.); Casey, 1899: 98; Mutchler, 1912: 213; Lameere, 1912b: 61; Garnett, 1918: 173; Casey, 1924: 225; Essig, 1926: 450; Mank, 1934: 79; Knowlton & Thatcher, 1936: 278; Chagnon, 1936: 239, pl. 15, fig. 2; Moore, 1937: 87; Linsley, Knull & Statham, 1961; 7 (distr.); Linsley, 1962: 54, fig. 19; 1953: 166; Chemsak, 1965: 93; Tyson, 1967: 124, figs 1-3 (larva, pupa); Hatch, 1971: 84, pl. 9, fig. 3; Baker. 1972: 198; Gosling, 1973: 68; Kirk & Balsbaugh, 1975: 97; Hovore & Giesbert, 1976: 350 (hosts); Furniss & Carolin, 1977: 390 (hosts); Galileo, 1987: 109, figs; Chemsak, Linsley & Noguera, 1992: 22; Monné, M.A., 1995: 64 (cat.); Yanega, 1996: 27, pl. 1, fig. 7; Chemsak, 1996: 127, pl., 9, figs 6.7; Linsley & Chemsak, 1997: 446 (hosts); Heffern, 1998: 7; Vlasák & Vlasakova, 2002: 204; Monné, M.A. & Hovore, 2006: 17 (checklist); Laplante, 2017: 10, fig. 8; Rice, MacRae & Merickel, 2017: 669 (distr.)

**2. *Tragosoma harrisii* LeConte, 1851**

**Syntypes locality** - Syntypes: Newfoundland, Connecticut. (MCZN). **Distribution** - Canada, Mexico, USA: Northeastern USA north to Labrador, west to southern Northwest Territories and British Columbia, south along the Rocky Mountains to northern Mexico (Chihuahua), along the Cascade range and the Sierra Nevada to southern California. **Host plants** - *Pinus ponderosa* Douglas ex Lawson & P. Lawson (Pinaceae).

*Tragosoma Harrisii* LeConte, 1851: 107; White, 1853: 28; Fitch, 1858: 715; LeConte, 1861b: 354; Lacordaire, 1868: 168; LeConte, 1867: 371; Pettit, 1871: 105 (distr.); LeConte, 1873b: 289; Horn, 1873: 717; Provancher, 1877: 583; Schaupp, 1878: 20 (distr.); Riley, 1880: 238 (hosts); LeConte & Horn, 1883: 274; Wickham, 1897b: 83

*Tragosoma harrisii*; Harrington, 1881: 33 (hosts); Packard, 1881: 162 (hosts); Snow, 1883: 42 (distr.); Leng, 1884: 60, pl. 2, fig. 7; Hamilton, 1889: 144 (hosts); Packard, 1890: 704 (hosts); Casey, 1890: 491; Beutenmuller, 1896: 74 (hosts); Wickham, 1897c: 156 (distr.); 1897a: 167 (hosts). Chagnon, 1897c: 14; Harrington, 1899: 107; Casey, 1899: 98; Smith, 1900: 284 (distr.); Fall, 1901: 143 (distr.). Ouellet, 1902: 122 (distr.); Knaus, 1903: 176 (distr.); Chagnon, 1905: 36 (distr.); Felt, 1906: 659, fig. 188 (distr.); Fall & Cockerell, 1907: 191 (distr.); Smith, 1910: 323 (distr.); Fisher & Kirk, 1912: 309 (distr.); Craighead, 1915: 17, pl. 3, fig. 1, pl. 4, fig. 3 (larva); Chagnon, 1917: 230 (distr.); Craighead, 1923: 29; Beaulne,

- 1932: 197 (hosts); Ingles, 1933: 59 (biol.); Craighead, 1950: 269; Keen, 1952: 183 (hosts); Clark, 1956: 41; Monné, M.A., & Giesbert, 1994: 18 (checklist); Webster, 2016: 484; Laplante, 2017: 10, figs 5, 7 (rev.); Bousquet, Laplante, Hammond & Langor, 2017: 30, pl 2
- Tragosoma depsarium* var. *harrisii*; Hamilton, 1890: 44; Champlain, Kirk & Knull, 1925: 105 (hosts); 1925: 139 (distr.); Hatch, 1925: 579 (distr.); Kirk & Knull, 1926: 21 (distr.); Procter, 1927: 110 (distr.); Leonard, 1928: 433 (distr.); Knowlton & Thatcher, 1936: 278 (distr.); Doane *et al.*, 1936: 165; Procter, 1946: 176; Knull, 1946: 147, pl. 3, fig. 8; Hardy, 1948: 31 (distr.); Knowton & Wood, 1950: 10 (distr.).
- Tragosoma depsarium* race *harrisii*; Schaeffer & Leng, 1912: 213.
- Tragosoma sodalis* Casey, 1899: 98; Fall & Cockerell, 1907: 191 (distr.); Lingafelter *et al.*, 2014: 361 (holotype); Laplante, 2017: 10 (syn. lectotype).
- Tragosoma sodale*; Galileo, 1987: 183 (rev.).
- Syntypes locality** - Syntypes male and female: United States, Colorado. (USNM).
- Tragosoma parvicollis* Casey, 1899: 99; Fall & Cockerell, 1907: 191 (distr.); Lingafelter *et al.*, 2014: 361 (holotype); Laplante, 2017: 10 (syn.).
- Type locality** - Holotype: United States, Utah: Southwestern Utah. (USNM).
- Tragosoma repens* Casey, 1924: 226; Knowlton & Thatcher, 1936: 278 (distr.); Laplante, 2017: 10 (syn.).
- Type locality** - Holotype male: United States, Utah. (USNM).

### 3. *Tragosoma pilosicorne* Casey 1890

- Type locality** - Holotype female: United States, California: Mount Diablo. (USNM).
- Distribution** - Northern, coastal and traverse mountain ranges of California and southern Oregon. **Host plants** - *Pinus ponderosa* Douglas ex Lawson & P. Lawson, *P. sabiniana* Douglas ex D, Don (Pinaceae)
- Tragosoma pilosicornis* Casey, 1890: 492m pl. 4, figs 14, 14<sup>a</sup>; Leng & Hamilton, 1896: 164; Casey, 1899: 99; Fall, 1901: 143 (distr.); Klages, 1901: 289; Casey, 1924: 226; Leech, 1957: 51 (distr.); Linsley, 1962: 58; Tyson, 1967: 123, figs 2, 4 (larva, nympe). Galileo, 1987: 177, figs; Chemsak, Linsley & Noguera, 1992: 22 (cat.); Monné, M.A., & Giesbert, 1994: 18 (checklist); Monné, M.A., 1995: 65 (cat.); Chemsak, 1996: 130, pl. 9, figs 10, 11; Monné, M.A. & Hovore, 2006: 17 (checklist); Wescott *et al.*, 2006: 10 (distr.); Lingafelter *et al.*, 2014: 299, fig. 132e (holotype); Laplante, 2017: 10, fig; 6 (distr.)
- Tragosoma depsarium* form *pilosicornis*; Garnett, 1918: 173

### 4. *Tragosoma soror* Laplante 2017

- Type locality** - Holotype male: United States: Idaho, Ada County. (CNCI); **Distribution** - From southern British Columbia southeastward in the Rocky Mountains to central western Wyoming and southward along the Cascade range to the Sierra Nevada and the San Bernardino Mountains in central California. **Host plants** - *Pinus coniota* Douglas ex Loudon (Pinaceae)
- Tragosoma soror* Laplante, 2017: 4, figs 1-3; Bousquet, Laplante, Hammond & Langor, 2017: 31, fig. 14; Vlasak & Vlasakova, 2021: 6 (hosts)

### 5. *Tragosoma spiculum* Casey 1890

- Type locality** - Holotype male: United States, New Mexico: Las Vegas. (USNM).
- Distribution** - United States, Southern Rocky Mountains (southern Colorado, New Mexico) and isolated mountains in southeastern Arizona. **Host plants** - *Pinus leiophylla chihuahuana* (Engelmann) A.E.Murray (Pinaceae)
- Tragosoma spiculum* Casey, 1890: 492, pl. 4, fig. 15; Leng & Hamilton, 1896: 164; Casey, 1899: 99; Fall & Cockerell, 1907: 191 (distr.); Casey, 1912: 231; 1924: 226; Lingafelter *et al.*, 2014: 322, fig. 158c (holotype); Laplante, 2017: 8, 11 (syn.)
- Tragosoma depsarium* race *spiculum*; Schaeffer & Leng, 1912: 213
- Tragosoma chiricahuae* Linsley, 1959: 127; Linsley, Knull & Statham, 1961: 7, fig. 3 (distr.); Linsley, 1962: 57; Ruetter, 1970: 22 (paratype); Lewis, 1979: 22 (distr.); Galileo, 1987: 180, figs; Chemsak, Linsley & Noguera, 1992: 22 (cat.); Monné, M.A., & Giesbert, 1994: 18



(checklist); Monné, M.A., 1995: 64 (cat.); Chemsak, 1996: 128, pl. 9, figs 8, 9; Linsley & Chemsak, 1997: 446 (hosts); Heffern 1998: 7 (distr.); Monné, M.A. & Hovore, 2006: 17 (checklist)

### **PRIONINI Latreille, 1802**

Prionii Latreille, 1802: 212.

**Type-genus:** *Prionus* Geoffroy, 1762

**Type-species:** *Cerambyx coriarius* Linnaeus, 1758 (see ICZN 1994: 60).

Prioniens; Chevrolat in D'Orbigny, 1847: 468.

Prionitae Verae Thomson, 1861a: 327.

Prionites; Fairmaire in Jacquelin DuVal, 1864a: 116, 191.

Prionites vrais; Lacordaire, 1868: 59.

Prionini; LeConte, 1873b: 286, 288; LeConte & Horn, 1883: 273; Leng, 1884: 8; Lameere, 1912b: 182; 1919: 104; Melzer, 1919: 128; Bradley, 1930: 227; Heyrovsky, 1955: 70; Gilmour, 1956: 125; Linsley, 1962: 30; Monné, M.A., 1995b: 48 (cat.); Chemsak, 1996: 91; Monné, M.A., 2006: 77 (cat.); Bousquet *et al.*, 2009: 19; Bouchard *et al.*, 2011: 460.

Prioceria Rafinesque, 1815: 116 (based on *Prioceras* Rafinesque, 1815). *Nomen nudum*. Comment. This name is unavailable under Article 11.7.1.1 (not based on an available generic name).

Cyrtognathites Blanchard, C.E. 1845: 138, 164 (based on *Cyrtognathus* Faldermann, 1835). *Nomen nudum*. Comment. This name is unavailable under Article 11.7 (not subsequently Latinized and attributed to Blanchard 1845).

Psalidognathites Blanchard, C.E. 1845: 138, 165 (based on *Psalidognathus* Gray, 1832). *Nomen nudum*. Comment. This name is unavailable under Article 11.7 (not subsequently Latinized and attributed to Blanchard 1845).

Prionommitae Thomson, 1861a: 295 (key), 327

**Type-genus:** *Prionomma* White, 1853

**Type-species:** *Prionus orientalis* Olivier, 1795 (monotypy).

Cyrtognathitae Thomson, 1861a: 328

**Type-genus:** *Cyrtognathus* Faldermann, 1835

**Type-species:** *Prionus paradoxus* Falderman, 1833 (monotypy).

Psalidognathitae Thomson, 1861a: 331.

**Type-genus:** *Psalidognathus* Gray, 1832

**Type-species:** *Psalidognathus friendii* Gray, 1832 (monotypy).

Orthosomitae Thomson, 1864: 284.

**Type-genus:** *Orthosoma* Audinet-Serville, 1832

**Type-species:** *Prionus cylindricus* Fabricius, 1775 (monotypy).

Pithoclitae Thomson, 1864: 291.

**Type-genus:** *Pithocles* Thomson, 1864

**Type-species:** *Derobrachus procerus* Thomson, 1860 (original designation).

Derobrachitae Thomson, 1864: 291.

**Type-genus:** *Derobrachus* Audinet-Serville, 1832

**Type-species:** *Derobrachus brevicollis* Audinet-Serville, 1832 (monotypy).

Derobrachinae Pascoe, 1869: 661.

Derobrachini; LeConte, 1873b: 286, 287; LeConte & Horn, 1883: 272; Leng, 1884: 8.

Titanitae Thomson, 1864: 292.

**Type-genus:** *Titanus* Audinet-Serville, 1832

**Type-species:** *Cerambyx giganteus* Linnaeus, 1771 (monotypy).

Aulacoceritae Thomson, 1864: 292.

**Type-genus:** *Aulacocerus* White, 1853

**Type-species:** *Aulacocerus mundus* White, 1853 (monotypy).

Psalidocoptides Lacordaire, 1868: 37, 38 (based on *Psalidocoptus* White, 1856). *Nomen nudum*. Comment. This name is unavailable under Article 11.7 (not subsequently Latinized and attributed to Lacordaire 1868 [1869]).

Polyarthrides Lacordaire, 1868: 38, 44 (based on *Polyarthron* Audinet-Serville, 1832). *Nomen nudum*. Comment. This name is unavailable under Article 11.7 (not subsequently Latinized and attributed to Lacordaire 1868 [1869]).

Micropsalides Lacordaire, 1868: 42 (based on *Micropsalis* Burmeister, 1865). *Nomen nudum*. Comment. This name is unavailable under Article 11.7 (not subsequently Latinized and attributed to Lacordaire 1868 [1869]).

Polyarthrini Gounelle, 1911: 326.

**Type-genus:** *Polyarthron* Audinet-Serville, 1832

**Type-species:** *Prionus pectinicornis* Fabricius, 1793 (monotypy).

Micropsalini Gounelle, 1911: 326.

**Type-genus:** *Micropsalis* Burmeister, 1861 (junior homonym of *Micropsalis* Meyer, 1859 [Crustacea])

**Type-species:** *Micropsalis heterogama* Burmeister, 1861 by monotypy. Comment. This name is permanently invalid because it is based on a preoccupied type genus (Article 39).

### ***Derobrachus* Audinet-Serville, 1832**

*Derobrachus* Audinet-Serville, 1832: 154; Laporte, 1840: 402; Blanchard, C. E., 1845: 141; LeConte, 1851: 109; Desmarest, 1860: 307; Strauch, 1861: 125; Thomson, 1861a: 294; 1864: 291; 1865: 474; Lacordaire, 1868: 73; Desmarest *in* Chenu, 1870: 307; LeConte, 1873b: 288; Bates, 1879: 4; LeConte & Horn, 1883: 273; Leng, 1884: 10; Lameere, 1911: 260; 1919: 122; Bradley, 1930: 227; Linsley, 1940: 253; 1962: 30; Arnett, 1962: 855; Chemsak & Linsley, 1977: 508; Chemsak, 1996: 91; Monné, M.A., 2006: 79 (cat.); Monné, M.A. & Hovore, 2006: 17 (checklist); Santos-Silva, 2007a: 3 (rev.); Monné, M.A., 2012: 131.

*Derobrachus* (*Derobrachus*); Lameere, 1911: 263; 1919: 123.

**Type-species** - *Derobrachus brevicollis* Audinet-Serville, 1832 (monotypy).

*Pithocles* Thomson, 1864: 291; Lacordaire, 1868: 72; Bates, 1879: 4.

**Type-species** - *Pithocles procerus* Thomson, 1864 (original designation).

*Braderochus* Lacordaire, 1868: 74 (*partim*).

#### **1. *Derobrachus brevicollis* Audinet-Serville, 1832**

**Syntypes locality** - Syntypes male and female: United States, Georgia. (BMNH).

**Distribution** - Southern United States from North Carolina and Florida to Texas, **Host plants** - *Quercus* sp. (Fagaceae)

*Derobrachus brevicollis* Audinet-Serville, 1832: 155; Laporte, 1840: 402; Chevrolat, 1844: 62; Haldeman, 1847a: 31; LeConte, 1851: 109; White, 1853: 12; Strauch, 1861: 125; Thomson, 1864: 291; Lacordaire, 1868: 73; Chenu, 1870: 307; LeConte, 1873: 287; LeConte & Horn, 1883: 273; Leng, 1884: 11; Schaeffer, 1902: 236; Wickham, 1909b: 402; Dozier, 1920: 366; Doane *et al.*, 1936: 163; Loding, 1945: 113; Sherman, 1946: 126; Fattig, 1947: 4; Linsley, 1962: 33; Swan & Papp, 1972: 442; Chemsak & Linsley, 1977: 514; Morris, 1987: 140; Chemsak, Linsley & Noguera, 1992: 19; Monné, M.A., & Giesbert, 1994: 13 (checklist); Monné, M.A. 1995: 46; Browne & Peck, 1996: 2158; Chemsak, 1996: 99, pl. 6, figs 7, 8; Linsley & Chemsak, 1997: 364; Peck & Thomas, 1998: 116; Monné, M.A. & Hovore, 2006: 17 (checklist); Santos-Silva, 2007: 8, figs; Holt, 2013: 243; Klingeman *et al.*, 2017: 294

*Derobrachus* (*Derobrachus*) *brevicollis*; Lameere, 1911: 263

#### **2. *Derobrachus geminatus* LeConte, 1853**

**Type locality** - Holotype female: United States, New Mexico: Albuquerque. (MCZN).

**Distribution** - United States (Texas to California), Mexico (Baja California, Durango, Chihuahua, Sonora, Sinaloa). **Host plants** - *Cercidium microphyllum* Rose & I.M. Johnston (Caesalpinaceae), *Olea* sp. (Oleaceae).

*Derobrachus geminatus* LeConte, 1853: 233; 1858a: 40 (distr.); 1859a: 16, pl. 2, fig. 12; 1873b: 287, 288; LeConte & Horn, 1883: 273; Snow, 1883: 42 (distr.); Leng, 1884: 11, pl. 2, fig. 11; Bates, 1884: 231; 1892: 145; Horn, 1894: 337 (distr.); Townsend, 1895: 46 (distr.); Griffith,

1900: 569 (distr.); Fall, 1901: 142; Schaeffer, 1902: 236; Fall & Cockerell, 1907: 191 (distr.); Garnett, 1918: 173 (distr.); Smyth, 1934: 116 (biol.); Linsley, 1934b: 59 (distr.); Doane *et al.*, 1936: 163; Vogt, 1949: 138 (biol.); Thomas, 1951: 35 (hosts); Linsley, 1962: 31, fig. 10; Chemsak & Linsley, 1977: 510; Furniss & Carolin, 1977: 288 (hosts); MacKay, Zak & Hovore, 1987: 363 (hosts); Hovore, Penrose & Neck, 1987: 294; Hovore, 1988: 3 (distr.); Chemsak, Linsley & Noguera, 1992: 19 (cat.); Lingafelter & Horner, 1993: 164 (distr.); Monné, M.A., & Giesbert, 1994: 13 (checklist); Noguera & Chemsak, 1996: 396 (cat.); Chemsak, 1996: 95, figs 1, 3; Linsley & Chemsak, 1997: 364 (hosts); Monné, M.A., 2002: 21 (cat. hosts); Monné, M.A., 2006: 80 (cat.); Monné, M.A. & Hovore, 2006: 18 (checklist); Santos-Silva, 2007a: 51, figs (syn.); Noguera *et al.*, 2009: 87 (distr.); Santos-Silva & Galileo, 2011: 43 (distr.).

*Braderochus geminatus*; Lacordaire, 1868: 74.

*Derobrachus (Derobrachus) geminatus geminatus*; Lameere, 1911: 264.

*Derobrachus (Derobrachus) geminatus*; Duffy, 1960: 68 (hosts).

*Derobrachus forreri* Bates, 1884: 230; Schaeffer, 1902: 236; Grossbeck, 1912: 325 (distr.); Chemsak & Linsley, 1970: 405 (lect.); 1977: 511; Wendt, 1984: 333 (syntype); Chemsak, Linsley & Noguera, 1992: 19 (cat.); Noguera & Chemsak, 1996: 396 (cat.)

*Derobrachus (Derobrachus) geminatus forreri*; Lameere, 1911: 265.

*Derobrachus geminatus* var. *forreri*; Van Dyke, 1934: 58 (hosts).

*Derobrachus geminatus forreri*; Linsley, 1942: 25; 1962: 33, fig. 10; Terrón, 1992: 300 (distr.); Linsley & Chemsak, 1997: 364 (hosts).

*Derobrachus geminatus*; LeConte, 1861a: 335 (not LeConte, 1853).

**Type locality** - Lectotype male: Mexico, Sinaloa: Presidio de Mazatlán. (BMNH).

### 3. *Derobrachus hovorei* Santos-Silva, 2007

**Type locality** - Holotype male: United States, California: Palm Springs (Riverside Co.).

(EMEC). **Distribution** - United States (California, Nevada, Arizona, New Mexico, Texas), Mexico (Chihuahua, Sonora, Nuevo León, Durango, Tamaulipas, Coahuila). **Host plants** - *Cercidium microphyllum* Rose & I.M. Johnston (Caesalpiniaceae), *Quercus* sp. (Fagaceae), *Prosopis juliflora* (Swartz) de Candolle (Mimosaceae), *Morus rubra* Linnaeus (Moraceae), *Citrus* sp. (Rutaceae), *Populus* sp. (Salicaceae), *Ulmus* sp. (Ulmaceae), *Vitis* sp. (Vitaceae).

*Derobrachus hovorei* Santos-Silva, 2007a: 19, figs (host); García Morales *et al.*, 2015:112 (distr.); Moura & Von Groll, 2017: 457 (paratype).

*Derobrachus geminatus*; Bates, 1884: 231 (distr.); Schaeffer, 1902: 236 (distr.); Heyne & Taschenberg, 1908: 237; Linsley, 1962: 31; Chemsak, 1996: 95, figs 1, 3; Linsley & Chemsak, 1997: 364 (hosts) (not LeConte, 1853)

*Derobrachus (Derobrachus) geminatus*; Lameere, 1911: 264 (part); 1913: 67 (cat.); 1919: 123 (part).

*Derobrachus geminatus geminatus*; Linsley, Knull & Statham, 1961: 5; Linsley, 1962: 32, figs 9, 10; Linsley & Chemsak, 1997: 364 (hosts); Kingsley, 1998: 52; Monné, M.A., 2002: 21 (hosts) (not LeConte, 1853)

### 4. *Derobrachus leechi* Chemsak & Linsley, 1977

**Type locality** - Holotype male: United States, California: Imperial Co., Holtville. (CASC).

**Distribution** - United States (California, Arizona and Nevada), Mexico (Baja California, Sonora). **Host plants** - *Prosopis juliflora* (Swartz) de Candolle (Mimosaceae).

*Derobrachus leechi* Chemsak & Linsley, 1977: 512; Chemsak, Linsley & Noguera, 1992: 19 (cat.); Monné, M.A., & Giesbert, 1994: 13 (checklist); Noguera & Chemsak, 1996: 396 (cat.); Chemsak, 1996: 97, pl. 6, figs 5, 6; Monné, M.A., 2002: 22 (cat. hosts); Monné, M.A., 2006: 81 (cat.); Monné, M.A. & Hovore, 2006: 18 (checklist); Santos-Silva, 2007a: 17, figs; Noguera *et al.*, 2009: 87 (distr.).

### *Orthosoma* Audinet-Serville, 1832

*Orthosoma* Audinet-Serville, 1832: 155; Laporte, 1840: 401; Drapiez, 1842: 195; LeConte, 1851: 110; Thomson, 1861a: 289; 1864: 285; Lacordaire, 1868: 145; Chenu, 1870: 307; LeConte, 1873b: 288; Provancher, 1877: 582; LeConte & Horn, 1883: 273; Leng, 1884: 11; Wickham, 1897: 82; Casey, 1912: 230; Linsley, 1940: 253; Knull, 1946: 145; Dillon & Dillon, 1961: 577; Linsley, 1962: 35; Arnett, 1962: 855; Monné, M.A., 1995: 48; Chemsak, 1996: 100; Monné, M.A. & Hovore, 2006: 18 (checklist); Bousquet, Laplante, Hammond & Langor, 2017: 29;

**Type species** - *Prionus cylindricis* Fabricius, 1781 (*Cerambyx brunneus* Forster, 1771) (monotypy)

### 1. *Orthosoma brunneum* (Forster 1771)

**Type locality** - Type: America Septentrionali (LSUK). **Distribution.** Southeastern Canada, eastern Canada, eastern and Central United States. **Host plants** - *Ostrya virginiana* (Miller) K. Koch (Betulaceae). *Cercis canadensis* Linnaeus (Caesalpiniaceae). *Juniperus virginiana* Linnaeus (*Cupressaceae*), *Robinia pseudoacacia* Linnaeus (Fabaceae). *Juglans nigra* Linnaeus (Juglandaceae), *Pinus strobus* Linnaeus, *P. rigida* Mill., *P. virginiana* Mill., *Tsuga canadensis* (Linnaeus) Carrière (Pinaceae).

*Cerambyx brunneus* Forster 1771: 37;

*Cerambyx (Lamia) brunneus* Gmelin, 1790: 1828

*Lamia brunnea*; Olivier, 1797: 453

*Orthosoma brunneum*; LeConte, 1873b: 288; Provancher, 1877: 583; Popenoe, 1877: 33; Riley, 1880: 238; Packard, 1881: 30, fig. 72; LeConte & Horn, 1883: 273; Leng, 1884: 11, pl. 2, fig. 8; Saunders, 1884: 54, fig. 21; Horn, 1886: 138; Harrington, 1887: 30, fig. 14; 1890: 185; Packard, 1890: 82, fig. 238, pl. 20, fig. 1; Riley & Howard, 1892: 239; Gahan, 1895: 83; Hamilton, 1895: 337; Fyles, 1896: 24, figs 9, 10; Beutenmuller, 1896: 74; Wickham, 1897b: 83, fig. 12; Ehrmann, 1897: 170; Smith, 1900: 284; Ehrman, 1900: 620; Dury, 1902: 158; Ulke, 1903: 25; Hopkins, 1904: 37; Melander, 1904: 20; Morris, 1908: 446, fig. 15; Wickham, 1909a: 28; Smith, 1910: 323; Blatchley, 1910: 1011, fig. 423; Lameere, 1911: 262; Leng, 1911: 215; Casey, 1912: 230; Fisher & Kirk, 1912: 309; Frost, 1912: 306; Leng & Mutchler, 1914: 444; Craighead, 1915: 15, pl. III, fig. 4, pl. IV, figs 6 & 7, pl. V, fig. 1, pl. VIII, figs 2 & 3; Johnson, 1915: 314; Chagnon, 1817: 230; Dozier, 1918: 334; Nicolay, 1919: 63; Britton, 1920: 266; Dozier, 1920: 340; Kempers, 1923: 102, fig. 571; Casey, 1924: 226; Kirk & Knull, 1926: 21; Fletcher, 1926: 143; Leonard, 1928: 433; Ware, 1929: 368; Beaulne, 1932: 197; Barrett, 1932: 190; Wolcott & Montgomery, 1933: 154; Goldman, 1933: 96, pl. 5, figs 54-57; Moennich, 1934: 98; Sheppard, 1935: 97; Chagnon, 1936: 239, pl. 15, fig. 1; Doane *et al.*, 1936: 163, fig. 77; Brimley, 1938: 210; Savely, 1939: 339; Loding, 1945: 113; Knull, 1946: 145, pl. 2, fig. 1; Craighead, 1950: 258; Beal *et al.*, 1952: 133; Zayas, 1957: 157; Linsley, 1957: 4; Alexander, 1958: 46; Gibson & Carrillo, 1959: 117; Anderson, 1960: 279; Dillon & Dillon 1961: 577, pl. 42, fig. 5; Chagnon & Robert, 1962: 239, pl. 15, fig. 1; Linsley, 1962: 35; Paim & Beckel, 1963: 1149, figs 1-10; 1964: 99; 1964: 295; 1964: 327; Baker, 1972: 205; Solomon, [Newsome] & Darwin, 1972: 78; Swan & Papp, 1972: 442, fig. 930; Gosling, 1973: 66; Meeking, Seabrook & Paim, 1974: 257; White, Paim & Seabrook, 1974: 235; Zayas, 1975: 44; Kirk & Balsbaugh, 1975: 96; Fox, 1975: 237; Solomon, Doolittle & Spilman, 1976: 290; Laliberté, Chantal & LaRochelle, 1977: 96; Turnbow & Franklin, 1980: 338; White, 1985: 281, fig. 122; Rice, Turnbow & Hovore, 1985: 18; Arnett, 1985: 360; Gosling, 1986: 157; Chemsak, Linsley & Noguera, 1992: 19; MacRae, 1993: 226; Monné, M.A., & Giesbert, 1994: 14 (checklist); Monné, M.A., 1995: 48; Chemsak, 1996: 100, pl. 6, figs 8-10; Yanega, 1996: 26, figs 8a, 8b; Linsley & Chemsak, 1997: 413; Schiefer, 1998: 115; Peck & Thomas, 1998: 116; Vlasák & Vlasakova, 2002: 204; Monné, M.A. & Hovore, 2006: 18 (checklist); Webster, MacCorquale & Majka, 2009: 201; Holt, 2013: 243; Steury & MacRae, 2014: 9; Vlasak, 2014: 317; Webster, 2016: 484; Klingeman *et al.*, 2017: 294; Bousquet, Laplante, Hammond & Langor, 2017: 29, pl. 1; Heffern, Vlasák & Alten, 2018: 740; Vlasak & Vlasakova, 2021: 5 (hosts)

*Derobrachus (Orthosoma) brunneum*; Lameere, 1913: 65; Hatch, 192Drury, 1773: 83, pl. 37, fig 1

*Orthosoma (Orthosoma) unicolor*; Laporte, 1840: 402

*Prionus unicolor*; Harris, 1841: 80; 1852: 85

*Orthosoma unicolor*; LeConte, 1852: 177; Chenu, 1870: 307; Packard, 1872: 495

**Type locality** - Holotype: United States. New York (Depository unknown)

*Cerambyx pennsylvanicus* Degeer, 1775: 99, pl. 13, fig. 13

*Prionus (Orthosoma) pennsylvanicus* Drury & Westwood, 1837: 78, pl. 47, fig. 1

*Prionus pennsylvanicus*; Emmons, 1854: 115, pl. 34, fig. 10

*Orthosoma pennsylvanicus*; Fitch, 1858: 714; Thomson, 1864: 285] Lacordaire, 1868: 146

**Type locality** - Type: United States. Pennsylvania (NHRS)

*Prionus cylindricus* Fabricius. 1781: 207; 1787: 229; 1793: 247, Olivier, 1795: 23, pl. 1, fig. 6; Fabricius, 1801: 251; Harris, 1838: 88

*Orthosoma cylindricum*; Audinet-Serville, 1832: 156; Drapiez, 1842: 195; Haldeman, 1847a: 31;

LeConte, 1851: 110; Bland, 1861: 93; Walsh, 1865: 90; Walsh & Riley, 1868: 19; 1868: 40;

Redtenbacher, 1868: 201; Riley, 1870: 87, fig. 60; Pettit. 1871: 105; Riley, 1872: 139;

Saunders, 1875: 29; Bethune, 1877: 23; 1877: 222; Harrington, 1881: 33

**Syntypes locality** - Syntypes: Amerique Boreale, (ZMUC)

*Cerambyx (Prionus) cylindroides* Gmelin, 1790: 1818

**Type locality** - Type: Amerique Boreale (NHRS)

*Prionus sulcatus* Olivier, 1795: 39, pl. 8, fig. 27

*Orthosoma sulcatus* Chevrolat, 1852: 650

**Type locality** - Holotype: Cayenne. (depository unknown)

*Orthosoma ampliars* Casey, 1912: 231; Lingafelter *et al.*, 2014: 15, fig. 14u (holotype)

*Orthosoma brunneus ampliars*; Casey, 1924: 226

**Type locality** - Holotype female: United States, Indiana. (USNM)

*Orthosoma spadix* Casey, 1912: 231; Lingafelter *et al.*, 2014: 322, fig. 157 o (holotype)

**Type locality** - Holotype female: United States, New York: Willets Point; (USNM)

### ***Prionus Geoffroy, 1762***

*Prionus* Geoffroy, 1762: 198; Fabricius, 1775: 159; Latreille, 1802: 265; Lepeletier & Audinet-Serville *in* Latreille, 1825: 199; Stephens 1831: 226; Gray *in* Griffith & Pidgeon, 1832: 99; Audinet-Serville, 1832: 191; Mulsant, 1839: 20; Laporte, 1840: 395; Drapiez, 1844b: 171; Chevrolat *in* D'Orbigny, 1847b: 470; Blanchard, C.E. *in* Cuvier, 1849: 469; LeConte, 1851: 107; Thomson, C. G., 1859: 148; Desmarest, 1860: 305; Thomson, 1861a: 295; 1864:283; 1865: 470; Mulsant, 1863: 40, 346; Schjodte, 1865: 195, 202; Lacordaire, 1868: 60; Desmarest *in* Chenu, 1870: 305; LeConte, 1873b: 288; Girard, 1873: 716; LeConte & Horn, 1883: 273; Dimmock, 1884:159 (biol.); Leng, 1884: 57; Blatchley, 1910: 1011; Reitter, 1912: 3; Lameere, 1912a: 185 (rev.); Casey, 1912: 231, 232; Schaufuss *in* Calwer, 1916: 823; Lameere, 1919: 132; Planet, 1924: 18; Portevin, 1927: 8; Picard, 1929: 36; Bradley, 1930: 227; Plavilstshikov, 1936: 69; Knull, 1946: 145; Heyrovsky, 1955: 71; Duffy, 1960: 70 (larva, pupa); Dillon & Dillon, 1961: 577; Linsley, 1962: 37; Arnett, 1962: 855; Hatch, 1971: 92; Kerzhner, 1991: 123 (available name); Chemsak: 1996: 101; Monné, M.A., 2006: 84 (cat.); Monné, M.A. & Hovore, 2006: 18 (checklist); Monné, M. A., 2012: 132; Santos-Silva, Nearn & Swift, 2016: 11 .

**Type-species** - *Cerambyx coriarius* Linnaeus, 1758 (Latreille subsequent designation, Latreille, 1810) [see also Kerzhner, 1991: 123, designation under the plenary powers].

*Neopolyarthron* Semenov, 1899: 255

*Prionus (Neopolyarthron)*; Casey, 1924: 222 (syn.); Linsley, 1962: 46; Chemsak, 1996: 110;

Monné, M. A., 2006: 87 (cat.); Monné, M.A., 2012: 132.

**Type-species** - *Cerambyx imbricornis* Linnaeus, 1767 (subsequent designation, Linsley, 1962: 46).

*Prionus (Riponus)* Casey, 1912: 245.

**Type-species** - *Cerambyx imbricornis* Linnaeus, 1767 (subsequent designation, Linsley, 1962: 46).

*Prionus (Antennalia)* Casey, 1912: 249; 1924: 223; Linsley, 1962: 49; Chemsak, 1996: 113.

**Type-species** - *Prionus fissicornis* Haldeman, 1846 (subsequent designation, Linsley, 1962: 49).

***Prionus (Prionus) Geoffroy, 1762***

*Prionus (Prionus)*; Casey, 1912: 232; 1924: 212; Linsley, 1962: 38; Chemsak, 1996: 102; Monné, M.A., 2006: 84 (cat.); Monné, M.A. & Hovore, 2006: 18 (checklist);

*Prionus (Prionellus)* Casey, 1924: 209.

*Hypoprionus* Santos-Silva, Nearn & Swift, 2016: 8 (replacement name for *Prionellus* Casey, 1924 not *Prionellus* Kieffer, 1895 (Diptera).

**Type-species** - *Cerambyx laticollis* Drury, 1773 (Santos-Silva, Nearn & Swift, 2016: 8 designation, 1962: 38).

**1. *Prionus (Prionus) californicus* Motschulsky, 1845**

**Type locality** - Holotype: Northern California. (ZMUM). **Distribution** - Pacific Coast of North America, from Alaska to Sonora, Baja California and Rocky Mountains to New Mexico. **Host plants** - *Rhus* sp. (Anacardiaceae), *Alnus incana* (Linnaeus) Moench (Betulaceae), *Arbutus menziesii* Pursh (Ericaceae), *Castanea* sp., *Quercus garryana* Douglas, *Q. lobata* Née (Fagaceae), *Juglans regia* Linnaeus (Juglandaceae), *Eucalyptus* sp. (Myrtaceae), *Abies grandis* (Lambert) Lindley, *Pinus* sp., *Pseudotsuga menziesii* (Mirbel) Franco (Pinaceae), *Amelanchier canadensis* Medikus, *Malus* sp., *Prunus* sp., *Pyrus* sp., *Rubus* sp. (Rosaceae), *Citrus* sp. (Rutaceae), *Populus deltoides* Bartram ex Marshall, *P. trichocarpa* Torrey & A. Gray, *Salix* sp. (Salicaceae), *Sequoia sempervirens* (D. Don) Endlicher (Taxodiaceae), *Humulus lupulus* Linnaeus (Urticaceae), *Vitis* sp. (Vitaceae).

*Prionus californicus* Motschulsky, 1845: 89, pl. 2, fig. 9; LeConte, 1852: 177; Mannerheim, 1852: 364; White, 1853: 16; Snow, 1877: 19 (distr.); 1878: 76 (distr.); 1883: 42 (distr.); Leng, 1884: 57, 58; Rivers, 1886a: 64 (biol.); Blanchard, F., 1887: 86; bb: 144 (distr.); Townsend, 1892: 38; Blaisdell, 1892: 34 (hosts); Hamilton, 1894: 30 (distr.); Townsend, 1895: 46; Beutenmuller, 1896: 74 (hosts); Wickham, 1897a: 167 (hosts); Harrington, 1899: 107 (distr.); Daggett, 1901: 319 (biol.); Fall, 1901: 142 (distr.); Snow, 1906b: 170 (distr.); Fall & Cockerell, 1907: 191 (distr.); Schaeffer, 1908: 329 (distr.); Lameere, 1912a: 242; Craighead, 1915: 20, pl. 4, figs 8, 9 (larva); Essig, 1915: 251, fig. 241 (biol.); Garnett, 1918: 173 (distr.); Craighead, 1923: 29, pl. 36, fig. 2 (pupa); Essig, 1926: 449, figs 349, 350 (biol.); Tanner, 1927: 33, figs 167, 168; Hardy & Preece, 1927a: 187 (biol.); Crawford & Eyer, 1928: 3, 5 figs (biol., control); Tanner, 1928: 277 (distr.); Knowlton, 1930: 56; Pack, 1930: 219 (distr.); Beaulne, 1932: 289 (hosts); Barrett, 1932: 289 (hosts); Herrick, 1935: 274 (biol.); Knowlton & Thatcher, 1936: 278; Doane *et al.*, 1936: 164, figs 78, 79 (biol.); Moore, 1937: 87 (distr.); Linsley, 1938: 105 (syn.); Quayle, 1938: 319 (biol.); Linsley, 1942: 26; Crawford & Eyer, 1942: 1 (biol.); Hardy, 1942: 10 (biol.); Leech, 1947: 141 (biol.); Schuh & Mote, 1948: 103 (biol.); Knowlton & Wood, 1950: 10 (distr.); Craighead, 1950: 262 (biol.); DeLeon, 1952: 80 (hosts); Keen, 1952: 193 (hosts); Leech, 1955: 52 (biol.); Nishio, 1956a: 241, figs 1, 2; Linsley, 1957: 6 (syn.); Linsley, Knull & Statham, 1961: 5 (distr.); Tyson, 1970: 298 (distr.); Swan & Papp, 1972: 441, fig. 927; Tanner & Tanner, 1974: 220 (distr.); Kirk & Balsbaugh, 1975: 96 (distr.); MacKay, Zak & Hovore, 1987: 363 (distr., hosts); Hovore, 1988: 3 (distr.); Chemsak, Linsley & Noguera, 1992: 20 (cat.); Noguera & Chemsak, 1996: 396 (cat.); Chemsak, 1996: 106, pl. 7, figs 3, 4; Linsley & Chemsak, 1997: 424 (hosts); Heffern 1998: 6 (distr.); Monné, M.A., 2002: 23 (cat. hosts); Cervantes, Hanks, Lacey & Barbour, 2006: 718 (pheromone); Barbour *et al.*, 2006: 623 (biol.); Monné, M.A. & Hovore, 2006: 19 (checklist) Maki *et al.*, 2011: 933 (biol.); Barbour, Lacey & Hanks, 2007: 333 (biol.); Rice, Merickel & MacRae, 2017: 669 (distr.); Bousquet, Laplante, Hammond & Langor, 2017: 30, pl 1; Barbour *et al.*, 2019: 1130 (pherom)

*Prionus (Prionus) californicus*; Casey, 1912: 242; 1924: 216; Linsley, 1962: 41, figs 13, 14; Hatch, 1971: 93, pl. 9, fig. 2; Monné, M.A., & Giesbert, 1994: 14 (checklist); Monné, M.A., 2006: 84 (cat.); Monné, M.A. & Hovore, 2006: 18 (checklist); Santos-Silva, Nearn & Swift, 2016: 80, figs 111-113, 158-171, 173-176, 183 (syn.).

*Prionus crassicornis* LeConte, 1851: 108; White, 1853: 17.

*Prionus (Prionus) californicus crassicornis*; Casey, 1924: 216.

**Syntypes locality** - Syntypes male and female: United States, Oregon. (MCZN).

*Prionus curvatus* LeConte, 1859a: 19.

*Prionus (Prionus) californicus curvatus*; Casey, 1924: 217.

**Type locality** - Holotype female: United States, New Mexico: near Santa Fe. (MCZN).

*Prionus Horni* Lameere. 1912a: 243; Linsley, 1935b: 161; Damoiseau & Cools, 1987: 33 (syntypes).

**Syntypes locality** - Syntypes male and female: United States, Arizona. (NHMW).

*Prionus (Prionus) alutaceus* Casey, 1912: 237; 1924: 216; Lingafelter *et al.*, 2014: 14, figs 13k, l (holotype).

**Type locality** - Holotype male: United States, Arizona. (USNM).

*Prionus (Prionus) solidus* Casey, 1912: 237; 1924: 215; Lingafelter *et al.*, 2014: 221, figs 157i, j (holotype).

**Type locality** - Holotype female: United States, Colorado. (USNM).

*Prionus (Prionus) spiculosus* Casey, 1912: 240; 1924: 217; Lingafelter *et al.*, 2014: 322, figs 157w, x (holotype).

**Type locality** - Holotype female: United States, Arizona: Grand Cañon of the Colorado. (USNM).

*Prionus (Prionus) consors* Casey, 1912: 240; 1924: 214; Lingafelter *et al.*, 2014: 44, figs 46q, r (holotype).

**Type locality** - Holotype male: United States, Colorado: Boulder Co. (USNM).

*Prionus (Prionus) consors acomanus* Casey, 1912: 241; Lingafelter *et al.*, 2014: 44, figs 46u, v (holotype).

*Prionus (Prionus) acomanus*; Casey, 1924: 218.

**Type locality** - Holotype female: United States, New Mexico: Jemez Springs. (USNM).

*Prionus (Prionus) consors proximans* Casey, 1912: 241; Lingafelter *et al.*, 2014: 45, figs 46w, x (holotype).

*Prionus (Prionus) acomanus proximans*; Casey, 1924: 218.

**Type locality** - Holotype: United States, New Mexico: Fort Wingate. (USNM).

*Prionus (Prionus) angustulus* Casey, 1912: 241; Lingafelter *et al.*, 2014: 17, figs 16s, t (lect. designation).

*Prionus (Prionus) ineptus angustulus*; Casey, 1924: 220.

**Type locality** - Lectotype male: United States, Cañon of the Colorado River. (USNM).

*Prionus (Prionus) californicus ineptus* Casey, 1912: 242; Lingafelter *et al.*, 2014: 35, figs 36m, n (holotype).

*Prionus (Prionus) ineptus*; Casey, 1924: 219.

**Type locality** - Holotype male: United States, California. (USNM).

*Prionus (Prionus) californicus punctulatus* Casey, 1912: 243; Lingafelter *et al.*, 2014: 35, figs 36q, r (holotype).

*Prionus (Prionus) punctulatus*; Casey, 1924: 220.

**Type locality** - Holotype female: United States, Arizona. (USNM).

*Prionus (Prionus) fissifrons* Casey, 1912: 243; Lingafelter *et al.*, 2014: 63, figs 67k, l (holotype).

*Prionus (Prionus) spiculosus fissifrons*; Casey, 1924: 218.

**Type locality** - Holotype male: United States, Arizona. (USNM).

*Prionus (Prionus) texanus* Casey, 1912: 243; 1924: 214; Lingafelter *et al.*, 2014: 332, figs 170a, b (holotype).

**Type locality** - Holotype male: United States, Texas: near El Paso. (USNM).

*Prionus (Prionus) terminalis* Casey, 1912: 244; Lingafelter *et al.*, 2014: 331, figs 168q, r (holotype).

**Type locality** - Holotype male: United States, Arizona: Cañon of the Colorado. (USNM).

*Prionus (Prionus) serriger* Casey, 1924: 215; Lingafelter *et al.*, 2014: 318, figs 153m, n (holotype).

**Type locality** - Holotype male: United States, Utah: Ibapah Mts., Trout Creek. (USNM).

*Prionus (Prionus) suspectus* Casey, 1924: 215; Lingafelter *et al.*, 2014: 330, figs 166s, t (holotype).

- Type locality** - Holotype male: United States, Utah: Eureka. (USNM).  
*Prionus (Prionus) orbiceps* Casey, 1924: 216; Lingafelter *et al.*, 2014: 292, figs 123w, x (holotype).
- Type locality** - Holotype male: United States, Utah: Eureka. (USNM).  
*Prionus (Prionus) humeralis* Casey, 1924: 216; Lingafelter *et al.*, 2014: 77, figs 84k, l (holotype).
- Type locality** - Holotype male: United States, California. (USNM).  
*Prionus (Prionus) californicus compar* Casey, 1924: 217; Lingafelter *et al.*, 2014: 35, figs 36k, l (lect. designation).
- Type locality** - Lectotype male: United States, Utah: Provo. (USNM).  
*Prionus (Prionus) californicus ovipennis* Casey, 1924: 217; Lingafelter *et al.*, 2014: 35, figs 36o, p (holotype).
- Type locality** - Holotype male: United States, Utah: Provo Cañon, North Fork. (USNM).  
*Prionus (Prionus) spiculosus coloradensis* Casey, 1924: 218; Lingafelter *et al.*, 2014: 322, figs 158a, b (holotype).
- Type locality** - Holotype male: United States, Colorado, Boulder Co. (USNM).  
*Prionus (Prionus) scutellaris* Casey, 1924: 219; Lingafelter *et al.*, 2014: 316, figs 151a, b (holotype).
- Type locality** - Holotype female: United States, Utah: Provo Cañon. (USNM).  
*Prionus (Prionus) ineptus ambiguus* Casey, 1924: 219; Lingafelter *et al.*, 2014: 80, figs 86w, x (holotype).
- Type locality** - Lectotype male: United States, Utah: Eureka. (USNM).  
*Prionus (Prionus) ineptus uintanus* Casey, 1924: 220; Lingafelter *et al.*, 2014: 80, figs 87a, b (lect. designation).
- Type locality** - Lectotype male: United States, Utah: Provo Cañon, North Fork. (USNM).  
*Prionus (Prionus) spaldingi* Casey, 1924:221; Knowlton & Thatcher, 1936: 278 (distr.); Lingafelter *et al.*, 2014: 322, figs 157q, r (lect. designation).
- Type locality** - Lectotype male: United States, Utah: Eureka. (USNM).  
*Prionus (Prionus) stultus* Casey, 1924: 221; Lingafelter *et al.*, 2014: 326, figs 163a, b (lect. designation).
- Type locality** - Lectotype male: United States, Utah: Eureka. (USNM).  
*Prionus (Prionus) stultus parvicollis* Casey, 1924: 222; Lingafelter *et al.*, 2014: 327, figs 163c, d (holotype).
- Type locality** - Holotype male: United States, Utah: Eureka. (USNM).  
*Prionus (Prionus) nanus* Casey, 1924: 222; Lingafelter *et al.*, 2014: 103, figs 114i, j (holotype).
- Type locality** - Holotype male: United States, Utah: Eureka. (USNM).  
*Prionus (Prionus) validiceps* Casey, 1912: 235; 1924: 214; Linsley, 1957: 8; Lingafelter *et al.*, 2015: 339, fig. 177w,x.
- Type locality** - Holotype male: unknown (USNM).  
*Prionus (Prionus) tumidus* Casey, 1912: 235; 1924: 213; Lingafelter *et al.*, 2014: 337, fig. 175g (holotype).
- Type locality** - Holotype male: United States, New Mexico: Fort Wingate. (USNM).  
*Prionus (Prionus) fontinalis* Casey, 1924: 236; 1924: 212; Lingafelter *et al.*, 2014: 65, fig. 69s (holotype).
- Type locality** - Holotype male: United States. New Mexico: Jemez Springs. (USNM).

## 2. *Prionus (Prionus) fissicornis* Haldeman, 1848

- Syntypes locality** - Syntypes: United States, Nebraska: near Platte river. (MCZN).  
**Distribution** - United States (Great Plains east of the Rocky Mountains, from Montana to Minnesota, south to Texas). **Host plants** - *Zea mays* Linnaeus (Poaceae)  
*Prionus fissicornis* Haldeman, 1847a: 374; 1848: 125; LeConte, 1851: 108; White, 1853: 17; LeConte, 1858a: 40; 1859: 19, pl. 1, figs 14; Lacordaire, 1868: 61; Snow, 1878: 67; Popenoe, 1878: 82; LeConte & Horn, 1883: 274; Leng, 1884: 57, pl. 2, figs 14, 15; Blanchard, 1887: 86; Evans, 1906: 99; Fall & Cockerell, 1907: 191; Wickham, 1909a: 28; Lameere, 1912a: 240; Swenk, 1922: 200; Doane *et al.*, 1936: 165; Brimley, 1938: 210; Alexander, 1958: 49; Kirk & Balsbaugh, 1975: 97; Stein & Tigestad, 1976: 31; Turnbow & Franklin, 1980: 347



*Prionus (Antennalia) fissicornis*; Casey, 1924: 223; Linsley, 1957: 9; 1962: 49; Hovore, Penrose & Neck, 1987: 394; Chemsak, Linsley & Noguera, 1992: 21; MacRae, 1993: 227; Lingafelter & Horner, 1995: 393; Monné, M.A., & Giesbert, 1994: 15 (checklist); Monné, M.A., 1995: 55; Chemsak, 1996: 113, pl. 8, 2 figs; Heffern, 1998: 6

*Prionus (Prionus) fissicornis*; Santos-Silva, Nearn & Swift, 2016: 36, figs

*Prionus (Antennalia) fissicornis transversus* Casey, 1912: 251; 1924: 223; Lingafelter *et al.*, 2014: 63, fig. 67i (holotype)

**Type locality** - Holotype female: United States, Texas, (USNM).

*Prionus (Antennalia) thoracicus* Casey, 1924: 223; Lingafelter *et al.*, 2014: 333, fig. 170w (holotype)

**Type locality** - Holotype female: United States, Colorado: Akron, (USNM)

### 3. *Prionus (Prionus) heroicus* Semenov, 1908

**Type locality** - Lectotype male: United States, Arizona. (MCZN). **Distribution** - Southwestern United States, Mexico (Tamaulipas). **Host plants** - *Quercus* sp. (Fagaceae).

*Prionus heros* Fall, 1905: 274 (preoccupied); Skinner, 1905: 291.

*Prionus heroicus* Semenov, 1908: 259 (new name); Lameere, 1912a: 241; Casey, 1912: 244; 1924: 212; Linsley, 1957: 8 (syn.); Linsley, Knull & Statham, 1961: 7 (distr.); Linsley, 1962: 45; Hovore & Giesbert, 1976: 350 (biol.); Lewis, 1979: 22 (distr.); Chemsak, Linsley & Noguera, 1992: 20 (distr.); Chemsak, 1996: 109, pl. 7, figs 7, 8; Linsley & Chemsak, 1997: 424 (hosts); García Morales *et al.*, 2015: 112 (distr.).

*Prionus (Riponus) heroicus*; Lameere, 1919: 138.

*Prionus (Prionus) heroicus*; Monné, M.A., & Giesbert, 1994: 135 (checklist); Monné, M.A. & Hovore, 2006: 19 (checklist); Santos-Silva, Nearn & Swift, 2016: 76, figs 143-157, 172, 177, 178 (lectotype).

*Prionus (Prionus) vastus* Casey, 1912: 236; 1924: 213; Lingafelter *et al.*, 2014: 342, fig. 180e (holotype).

**Type locality** - Holotype female: United States. Arizona. (USNM).

*Prionus (Prionus) tristis* Casey, 1912: 236; 1924: 212; Lingafelter *et al.* - United States.

**Syntypes locality** - Syntypes female: New Mexico: Jemez Springs. (USNM).

*Prionus (Prionus) tetricus* Casey, 1912: 237; Lingafelter *et al.*, 2014: 332, fig. 169g (holotype).

**Type locality** - Holotype female: United States. New Mexico: Jemez Springs. (USNM).

### 4. *Prionus (Prionus) imbricornis* (Linnaeus, 1767)

**Type locality** - Type: United States, Carolina. (Depository unknown). **Distribution** - Indiana to Louisiana west to Great Plains from South Dakota to Texas and Florida, Dominican Republic. **Host plants** - *Castanea dentata* (Marshall) Borkhausen, *Quercus* sp. (Fagaceae), *Zea mays* Linnaeus (Poaceae), *Pyrus* sp., *Sorbus* sp. (Rosaceae), *Vitis* sp. (Vitaceae).

*Cerambyx imbricornis* Linnaeus, 1767: 622.

*Cerambyx (Prionus) imbricornis*; Gmelin, 1790: 181.

*Prionus imbricornis*; Olivier, 1795: 28, pl. 13, fig. 52; Palisot de Beauvois, 1805: 242, pl. 36, fig. 2; Schoenherr, 1817: 340; Lepeletier & Audinet-Serville, 1825: 202; Audinet-Serville, 1832: 192; Haldeman, 1847a: 31; LeConte, 1851: 108; Chevrolat, 1852: 650; White, 1853: 17; LeConte, 1859a: 48 (distr.); Lacordaire, 1868: 61; Riley, 1870: 89 (biol.); 1872: 140; Popenoe, 1877: 33 (distr.); Snow, 1878: 67 (distr.); Webster, 1879: 20 (biol.); Riley, 1880: 238 (hosts); LeConte & Horn, 1883: 274; Leng, 1884: 57, pl. 2, fig. 13; Horn, 1885: 89 (syn.); 1886: 138; Hamilton, 1886: 112 (larva); Blanchard, 1887: 86; Marten, 1890: 60; Riley & Howard, 1891: 407 (biol.); Bruner, 1891: 240 (biol.); Forbes, 1894: 106, pl. 13, figs 3, 6; Hamilton, 1895: 337 (distr.); Leng & Hamilton, 1896: 164 (syn.); Beutenmuller, 1896: 74 (hosts); Lugger, 1899: 194, fig. 117; Ulke, 1903: 25 (distr.); Hebard, 1903: 261; Tucker, 1906: 12 (distr.); Wickham, 1909a: 28 (distr.); Blatchley, 1910: 1012, fig. 425; Leng, 1911: 215 (distr.); Lameere, 1912a: 239 (rev.); Fisher & Kirk, 1912: 309 (distr.); Craighead, 1915: 18, pl. 8, fig. 1 (larva); 1923: 29 (larva); Kirk & Knull, 1926: 21 (distr.); Leonard, 1928: 433 (distr.); Ware, 1929: 368 (distr.); Beaulne, 1932: 197 (hosts); Doane *et al.*, 1936: 165; Brimley, 1938: 210 (distr.); Loding, 1945: 113 (distr.); Knull, 1946: 146, pl. 2, fig. 3;

- Craighead, 1950: 261 (hosts); Beal, Haliburton & Knight, 1952: 71, pl. 10, fig. 4; Alexander, 1958: 49 (distr.); Dillon & Dillon, 1961: 580, pl. 57, No.7; Frost, 1969: 95 (distr.); Baker, 1972: 200, fig. 68; Swan & Papp, 1972: 442, fig. 929; Kirk & Balsbaugh, 1975: 96 (distr.); Payne, Lowman & Pate, 1975: 680 (biol.); Mullins, 1975: 43 (biol.); Stein & Tagestad, 1976: 31; Payne *et al.*, 1976: 9; Turnbow & Franklin, 1980: 338 (distr.); White, 1985: 281, fig. 122; Yanega, 1996: 27, pl. 2, fig. 12; Linsley & Chemsak, 1997: 424 (hosts); Lingafelter, 2007: 13, 138, 2 figs, pl. 2f (hosts); Steury & MacRae, 2014: 9 (distr.).
- Prionus (Riponus) imbricornis* Casey, 1912: 248.
- Prionus (Neopolyarthron) imbricornis*; Lameere, 1913: 77 (cat.); 1919: 137; Casey, 1924: 222; Ortenburger & Hatch, 1926: 146 (distr.); Hatch, 1930: 26; Gilmour, 1954: 45 (distr.); Linsley, 1957: 9 (syn.); 1962: 46, figs 15, 16; Arnett, 1985: 360, fig. 24.178; Hovore, Penrose & Neck, 1987: 294; Chemsak, Linsley & Noguera, 1992: 21 (cat.); Lingafelter & Horner, 1993: 164 (distr.); Monné, M.A., & Giesbert, 1994: 16 (checklist); Monné, M.A., 1995: 54 (cat.); Chemsak, 1996: 111, pl. 7, figs 9, 10; Heffern, 1998: 6 (distr.); Schiefer, 1998: 115 (distr.); Holt, 2013: 243 (distr.).
- Prionus (Prionus) imbricornis*; Santos-Silva, Nearn & Swift, 2016: 36, figs, (syn.).
- Prionus debilis* Casey, 1891: 21; Rice, 1981: 479 (distr.); Yanega, 1996: 26, pl. 1, figs 11a,b.
- Prionus (Riponus) debilis*; Casey, 1912: 249.
- Prionus (Neopolyarthron) debilis*; Casey, 1924: 222; Linsley, 1962: 47, fig. 16; Chemsak, Linsley & Noguera, 1992: 21 (cat.); MacRae, 1993: 227 (distr.); Monné, M.A., 1995: 54 (cat.); Chemsak, 1996: 112, pl. 7, figs 11, 12; Heffern, 1998: 174 (distr.); Peck & Thomas, 1998: 116 (distr.); Lingafelter *et al.*, 2014: 50, 369, fig. 53i (lectotype).
- Prionus imbricornis debilis*; Brimley, 1938: 210.
- Prionus imbricornis* var. *debilis*; Knoll, 1946: 146.
- Type locality** - Lectotype male: United States, Indiana. (USNM).
- Prionus (Riponus) imbricornis mimus* Casey, 1912: 248; Lingafelter *et al.*, 2014: 78, fig. 85 m (holotype).
- Prionus (Neopolyarthron) imbricornis mimus* Casey, 1924: 222.
- Type locality** - Holotype male: United States. (USNM).
- Prionus (Riponus) imbricornis brunneus* Casey, 1912: 248; Lingafelter *et al.*, 2014: 78, fig. 85 k (holotype).
- Prionus (Neopolyarthron) imbricornis brunneus*; Casey, 1924: 222.
- Type locality** - Holotype male: United States, North Carolina: Southern Pines. (USNM).
- Prionus (Riponus) diversus* Casey, 1912: 247; Lingafelter *et al.*, 2014: 50, 369, fig. 57o (lectotype).
- Prionus (Neopolyarthron) diversus* Casey, 1924: 222; Hatch, 1930: 26.
- Prionus (Neopolyarthron) imbricornis diversus*: Ortenburger & Hatch, 1926: 146 (distr.).
- Type locality** - Lectotype male: United States, Indiana. (USNM).
- Prionus (Riponus) diversus cuneatus* Casey, 1912: 247; Lingafelter *et al.*, 2014: 54, 369, fig. 57q (lectotype).
- Prionus (Neopolyarthron) cuneatus*; Casey, 1924: 222.
- Type locality** - Lectotype male: United States, North Carolina: Southern Pines. (USNM).
- Prionus (Antennalia) fissicornis parviceps* Casey, 1912: 250; Lingafelter *et al.*, 2014: 62, fig. 63g (lectotype).
- Prionus (Antennalia) parviceps*; Casey, 1924: 223.
- Type locality** - Holotype female: United States, Texas. (USNM).
- Prionus beauvoisi* Lameere, 1915: 60 (*nom. nov.*).
- Type locality** - Holotype female: Dominican Republic. (MNHN).
- Prionus (Neopolyarthron) robustus* Casey, 1924: 222; Lingafelter *et al.*, 2014: 311, fig. 174w (holotype).
- Prionus robustus*: Brimley, 1938: 210 (distr.).
- Type locality** - Holotype female: United States, North Carolina: Southern Pines. (USNM).

##### 5. *Prionus (Prionus) laticollis* (Drury, 1773)

**Type locality** - Holotype: United States, New York, (depository unknown). **Distribution** - Southern Canada and eastern United States to Oklahoma and South Dakota, **Host plants** – *Castanea* sp., *Quercus* sp (Fagaceae), *Kalmia latifolia* (Lauraceae)... *Malus* sp (Rosaceae), *Populus* sp. (Salicaceae);

*Cerambyx laticollis* Drury, 1773: 83, pl. 37, fig. 2.

*Prionus (Derobrachus) laticollis*. Drury & Westwood, 1837: 78, pl. 37, fig. 2

*Prionus laticollis*; Harris, 1841: 79; Haldeman, 1847a: 31; LeConte, 1852: 177; Emmons, 1854: 115, pl. 34, fig. 5; Fitch, 1859: 845; Bland, 1861: 93; Holmes, 1869: 51; Packard, 1870: 594, fig. 120; Riley, 1870: 77, figs 61, 62; 1873: 56; Treat, 1874: 344, figs 1-5; Saunders, 1875: 29, fig. 5; Popenoe, 1877: 33; Riley, 1880: 238; Packard, 1881: 127; 1881: 118, figs 117, 118; Weed, 1884: 13; Leng, 1884: 57, pl. 2, figs 6, 12; Blanchard, 1887: 85; Packard, 1890: 82, figs 162, 163; Bruner, 1891: 185; Webster, 1892: 198, figs 21-23; Hopkins, 1893: 192; Bruner, 1894: 154; Hamilton, 1895: 337; Beutenmuller, 1896: 74; Ehrmann, 1897: 170; Wickman, 1897: 83, figs 13, 14; Bruner, 1899: 162, figs 37-39; Lugger, 1899: 193, fig. 115; Smith, 1900: 285, fig. 124; Hopkins, 1902: 60; Dury, 1902: 158; Ulke, 1903: 25; Lockhead, 1903: 111, fig. 97; Hopkins, 1904: 97; Horsfall, 1904: 7, fig. 3; Pettit, 1904: 41, fig. 40; Laurent, 1905: 62; Fyles, 1905: 92, fig. 13; Morris, 1908: 446; Smitth, 1910: 334, fig. 130; Blatchley, 1910: 1011, fig. 424; Lameere, 1912a: 236; Fisher & Kirk, 1912: 309; Craighead, 1915: 19, pl. 3, fig. 3, pl. 6, fig. 1; Johnson, 1915: 314; Nicolay, 1919: 63; Lameere, 1919: 137; Leng, 1920: 266; Britton, 1920: 266; Kempers, 1923: 102; Kirk & Knull, 1926: 21; Leonard, 1928: 433; Hatch, 1930: 26; Beaulne, 1932: 197; Goldman, 1933: 95, pl. 5, figs 45-48; Easterling, 1934: 140; Herrick, 1935: 220, figs 180, 274; Doane *et al.*, 1936: 165; Brimley, 1938: 210; Becker, 1942: 208; Loding, 1945: 113; Knull, 1946: 145; Sherman, 1946: 126; Craighead, 1950: 252, fig. 50c; Jaques, 1951: 251, fig. 593; Beal *et al.*, 1952: 71, pl. 1, fig. 2; Shenefelt & Benjamin, 1955: 99; Linsley, 1957: 8; Alexander, 1958: 49; Gibson & Carrillo, 1959: 117; Linsley, 1962: 39; Farrar & Kerr, 1968: 563; Benham, 1969: 1331, figs. 1-4; 1970: 1413, figs 1-5; 1971: 89; Payne, Tedders & Gentry, 1970: 3, fig. 3; Swan & Papp, 1972: 442, fig. 928; Baker, 1972: 200; Gosling, 1973: 67; Kirk & Balsbaugh, 1975: 96; Benham & Farrar, 1976: 569, figs 1-9; Turnbow & Franklin, 1980: 338; Chemsak, Linsley & Noguera, 1992: 21; MacRae, 1993: 227. Monné, M.A., 1995: 52; Chemsak, 1996: 103, pl. 6, fig 11, 12; Yanega, 1996: 17, pl. 1, figs 9a, 9b; Schiefer, 1998: 115; Peck & Thomas, 1998: 116; Vlasák & Vlasakova, 2002: 204; Holt, 2013: 243; Staury & MacRae, 2014: 9; Santos-Silva, Nearn & Swift, 2016: 37, figs; Klingeman *et al.*, 2017: 294; Haack, Keena & Eyre, 2017: 74; Bousquet, Laplante, Hamond & Langor, 2017: 30, pl. 1; Hanks & Wang, 2019: 32; Vlasak & Vlasakova, 2021: 5 (hosts)

*Prionus (Prionus) laticollis*. Casey, 1912: 234; Monné, M.A., & Giesbert, 1994: 15 (checklist); Monné, M.A. & Hovore, 2006: 19 (checklist);

*Prionus (Prionellus) laticollis*; Casey, 1924: 209; Gilmour, 1954: 45 *Prionus brevicornis* Fabricius, 1801: 260; Harris, 1838: 88; Haldeman, 1847a: 31; LeConte, 1851: 109; Chevrolat, 1853: 650; White, 1853: 16; Bethune, 1868: 23; Packard, 1872: 495; LeConte, 1878: 126; LeConte & Horn, 1883: 274; Clarkson, 1884: 95; Packard, 1890: 481; Zimsen, 1964: 163

**Syntypes locality** - Syntypes: America Boreali. (ZMCD)

*Prionus (Prionus) kempii* Casey, 1912: 233; Lingafelter *et al.*, 2014: 84, fig 92c (holotype)

**Type locality** - Holotype female: United States. New York: Adirondacks mountains (USNM)

*Prionus (Prionus) parvus* Casey, 1912: 234; Lingafelter *et al.*, 2014: 296, fig 128w (holotype)

**Type locality** - Holotype male: United States. (USNM)

*Prionus (Prionus) laticollis oblongus* Casey, 1912: 234; Lingafelter *et al.*, 2014: 87, fig 95i (holotype)

**Type locality** - Holotype male: United States, Indiana, (USNM)

*Prionus (Prionellus) frosti* Casey, 1924: 210; Lingafelter *et al.*, 2014: 76, fig 71k (lectotype)

**Type locality** - Lectotype male: United States, Massachusetts: Framingham. (USNM)

*Prionus (Prionellus) nigrescans* Casey, 1924: 211; Lingafelter *et al.*, 2014: 106, fig 116s (lectotype)

**Type locality** - Lectotype male: United States, New York: Lake George (Adirondacks). (USNM)

*Prionus (Prionellus) densus* Casey, 1924: 211; Lingafelter *et al.*, 2014: 52, fig 55o (holotype)

**Type locality** - Holotype male: United States (USNM)

#### 6. *Prionus (Prionus) lecontei* Lameere, 1912

**Type locality** - Lectotype male: California. (NHMW). **Distribution** - British Columbia to Mexico (Baja California). **Host plants** - *Quercus agrifolia* Née, *Q. dumosa* Nuttall, *Q. lobata* Née (Fagaceae).

*Prionus Le Contei* Lameere, 1912a: 244.

*Prionus lecontei*; Linsley, 1935b: 161; Hovore & Giesbert, 1976: 350 (hosts); Hovore, 1988: 3 (distr.); Chemsak, Linsley & Noguera, 1992: 21 (cat.); Noguera & Chemsak, 1996: 396 (cat.). Chemsak, 1996: 108, pl. 7, figs 5, 6; Linsley & Chemsak, 1997: 424 (hosts); Monné, M.A., 2002: 25 (cat. hosts); Monné, M.A., 2006: 87 (cat.).

*Prionus (Prionus) lecontei*; Monné, Monné, M.A., & Giesbert, 1994: 15 (checklist); M.A. & Hovore, 2006: 19 (checklist); Santos-Silva, Nearn & Swift, 2016: 74, figs 49-51, 130-132 (lectotype).

#### 7. *Prionus pocularis* Dalman, 1817

**Type locality** - Holotype: United States, Georgia (NHRS). **Distribution** - Eastern North America to Texas, **Host plants** - *Pinus* sp (Pinaceae)

*Prionus pocularis* Dalman, 1817: 148; Haldeman, 1847a: 31; White, 1853: 17; Lacordaire, 1868: 61; Leng, 1884: 57; Beutenmuller, 1896: 74; Smith, 1900: 285; Ulke, 1903: 25; Evans, 1906: 99; Fall & Cockerell, 1907: 191; Leng, 1910: 77; Blatchley, 1910: 1012; Smith, 1910: 324; Lameere, 1912a: 328; Dow, 1913: 78; Frost, 1915: 207; Craighead, 1915: 20; Greene, 1918: 257; Nicolay, 1919: 63; Britton, 1920: 266; Kirk & Knul, 1926: 21; Leonard, 1928: 433; Doane *et al.*, 1936: 165; Brimley, 1938: 210; Loding, 1945: 113; Knul, 1946: 146; Craighead, 1950: 262; Beal *et al.*, 1952: 134; Linsley, 1957: 8; Dillon & Dillon, 1961: 650, pl. 57; Linsley, 1962: 41; Gosling, 1973: 67; Turnbow & Franklin, 1980: 338; Chemsak, Linsley & Noguera, 1992: 21; MacRae, 1993: 227; Monné, M.A., 1995: 53; Browne & Peck, 1996: 2158; Chemsak, 1996: 105, pl. 7, figs 1,2; Yanega, 1996: 27, pl. 1, fig. 10; Linsley & Chemsak, 1997: 425; Schiefer, 1998: 115; Peck & Thomas, 1998: 116; Vlasák & Vlasakova, 2002: 204; Bousquet, Laplante, Hammond & Langor, 2017: 30, pl. 2

*Prionus (Prionus) pocularis*; Casey, 1912: 238; 1924: 213; Monné, M.A., & Giesbert, 1994: 15 (checklist); Monné, M.A. & Hovore, 2006: 19 (checklist); Holt, 2013: 243; Klingeman, *et al.*, 2017: 294

*Prionus laevigatus* Harris, 1837: 83, pl. 1, fig. 6; Haldeman, 1847a: 31; LeConte, 1851: 109; White, 1853: 16; Bland, 1861: 93; Lacordaire, 1868: 61

**Syntypes** – Syntypes male and female: United States, Massachusetts (MCZN)

*Prionus obliquicornis* LeConte, 1851: 108; White, 1853: 17; Lacordaire, 1868: 61

*Prionus (Prionus) obliquicornis*; Casey, 1912: 239

**Type locality** - Holotype male: United States, Georgia (MCZN)

*Prionus curticornis* LeConte, 1851: 109; Lacordaire, 1868: 61

*Prionus (Prionus) curticornis* Casey, 1912: 233

**Type locality** - Holotype female: United States, Georgia. (MCZN)

*Prionus (Prionus) validiceps* Casey, 1912: 233; 1924: 214; Lingafelter *et al.*, 2014: 339, fig. 177w (holotype)

**Type locality** - Holotype male: United States (USNM)

*Prionus (Prionus) pocularis prolixus* Casey, 1912: 239; Lingafelter *et al.*, 2014: 301, fig. 134m (holotype)

**Type locality** - Holotype female: United States, (USNM)

*Prionus (Prionus) bicolor* Casey, 1912: 239; 1924: 213; Lingafelter *et al.*, 2014: 27, fig. 28a (holotype)

**Type locality** - Holotype female: United States, Indiana (USNM)

***Prionus (Homaesthesis) LeConte, 1873***

*Homaesthesis* LeConte, 1873b: 288; LeConte & Horn, 1883: 273. Leng, 1884: 57; Casey, 1912: 231; Craighead, 1923: 28

*Prionus (Homaesthesis)*; Linsley, 1962: 49; Hatch, 1971: 93; Hovore & Turnbow, 1984: 4; Monné, M.A., 1995: 56; Chemsak, 1996: 114; Monné, M.A. & Hovore, 2006: 19 (checklist); Santos-Silva, Nearn & Swift, 2016: 10.

**Type species** - *Prionus emarginatus* Say, 1824 (Casey designation, 1912: 254).

*Prionina* Casey, 1912: 231

**Type species** - *Prionus palparis* Say, 1824 (original designation)

**1. *Prionus (Homaesthesis) arenarius* Hovore, 1981**

**Type locality** - Holotype male: United States, Texas: Ward County, Monahans Sandhills State Park. (CASC), **Distribution** - United States (Texas and New Mexico)

*Prionus (Homaesthesis) arenarius* Hovore, 1981: 453, fig. 1; Hovore & Turnbow, 1984: 4, figs 1, 3; Chemsak, Linsley & Noguera, 1992: 21 (cat.); Monné, M.A., & Giesbert, 1994: 15 (checklist); Monné, M.A., 1995: 56 (cat.); Chemsak, 1996: 117, pl. 8, figs 3,4; Monné, M.A. & Hovore, 2006: 19 (checklist); Santos-Silva Nearn & Swift, 2016: 12, figs 17-19; 52-53

**2. *Prionus (Homaesthesis) emarginatus* Say, 1824**

**Type locality** - Type: United States, Arkansas: Arkansas river, near the mountains. (depository unknown). **Distribution** - United States (Colorado, Arizona, Idaho, New Mexico, Kansas, Wyoming, Missouri, Nebraska, Utah, Texas).

*Prionus emarginatus* Say, 1824: 327; Haldeman, 1847a: 31; LeConte, 1851: 107; White, 1853: 17; LeConte, 1859a: 19, pl. 2, fig. 13; 1859b: 184; Lacordaire, 1868: 61; Packard, 1877: 803, pl. 70, fig. 6; 1881: 161, fig. 73; 1890: 703, fig. 239; Lameere, 1912a: 247; Haack, 2017: 110; Rice, MacRae & Merickel, 2017: 669 (distr.)

*Homaesthesis emarginata*; LeConte, 1873b: 288; 1876: 520; Snow, 1877: 19; 1883: 42; LeConte & Horn, 1883: 273; Leng, 1884: 57; Blanchard, 1887: 86; Beutenmuller, 1896: 74; Snow, 1906: 179; Fall & Cockerell, 1907: 191; Casey, 1912: 254; Craighead, 1923: 28, pl. 1, fig. 10; pl. 12, figs 10-12; 1950: 239, fig. 51a; Linsley, 1958: 110; Gwynne & Hostetler, 1978: 347

*Prionus (Homaesthesis) emarginatus*; Lameere, 1913: 78; Linsley, 1957: 10; 1962: 50; Hatch, 1971: 94; Hovore & Turnbow, 1984: 4; Chemsak, Linsley & Noguera, 1992: 21 (cat.); Monné, M.A., & Giesbert, 1994: 15 (checklist); Monné, M.A., 1995: 56 (cat.); Chemsak, 1996: 118, pl. 8, figs 5, 6; Heffern, 1998: 8; Monné, M.A. & Hovore, 2006: 19 (checklist); Santos-Silva, Nearn & Swift, 2016: 12, figs 1-4; 83-86

*Prionus innocuous* LeConte, 1862: 43. Lacordaire 1868: 61

**Type locality** - Holotype female: United States: New Mexico. (MCZN)

*Homaesthesis pubicollis* Casey, 1912: 254; Lingafelter *et al.*, 2014: 304, fig. 137 m (holotype)

**Type locality** - Holotype male: United States, Colorado (USNM).

*Homaesthesis debiliceps* Casey, 1912: 255; Lingafelter *et al.*, 2014: 50, fig. 53e (holotype)

**Type locality** - Holotype male: United States, Colorado (USNM)

**3. *Prionus (Homaesthesis) geminus* Santos-Silva, Nearn & Swift, 2016**

**Type locality** - Holotype male: United States, Idaho: Pocatello (Bannock County). (EMEC).

**Distribution** - United States (Idaho, Utah, Arizona, Texas, Colorado)

*Prionus (Homaesthesis) integer*; Linsley, 1962: 51; Chemsak, 1996: 119 (not LeConte)

*Prionus (Homaesthesis) geminus* Santos-Silva, Nearn & Swift, 2016: 12, figs 5-8, 87-90

*Prionus geminus*; Rice, MacRae & Merickel, 2017: 669 (distr.)

**4. *Prionus (Homaesthesis) integer* LeConte, 1851**

**Type locality** - Holotype male: United States, Colorado: near Pike's Peak, Rocky Mountains. (MCZN). **Distribution** - United States (Kansas and New Mexico to Colorado and eastern Oregon). **Host plants** - *Artemisia tridentata* Nuttall, *Chrysothamnus viscidiflorus* (Hooker) Nuttall (Asteraceae)

*Prionus integer* LeConte, 1851: 197; White, 1853: 17; LeConte, 1859a: 48; Lacordaire, 1868: 61; Knowlton & Thatcher, 1936: 278; Knowlton & Wood, 1950: 10  
*Homaesthis integra*; LeConte, 1873b: 288; LeConte & Horn, 1883: 273; Casey, 1912: 253  
*Homaesthis integer*; Popenoe, 1877: 33; Leng, 1884: 57, pl. 3, fig. 2; Blanchard, 1887: 85; Knaus, 1904: 156; Fall & Cockerell, 1907: 191; Lameere, 1912a: 246;  
*Prionus (Homaesthis) integer*; Lameere, 1913: 78 (cat.); 1919: 139; Barr & Penrose, 1959: 92; Hatch, 1971: 94; Penrose & Westcott, 1974: 236; Hovore & Turnbow, 1984: 4; Chemsak, Linsley & Noguera, 1992: 22 (cat.); Monné, M.A., & Giesbert, 1994: 16 (checklist); Monné, M.A., 1995: 56 (cat.); Heffern, 1998: 6; Monné, M.A. & Hovore, 2006: 19 (checklist); Santos-Silva, Nearn & Swift, 2016: 12, figs 79-82; Rice, MacRae & Merickel, 2017: 669 (distr.)

##### 5. *Prionus (Homaesthis) palparis* (Say, 1824)

**Syntypes locality** - Syntypes male and female: United States, Arkansas: Arkansas river near the mountains. (depository unknown). **Distribution** - United States (Arizona, Colorado, Kansas, Nebraska, New Mexico, Oklahoma, Utah).

*Prionus palparis* Say, 1824: 327; Haldeman, 1847a: 31; LeConte, 1851: 108; White, 1853: 15; LeConte, 1859a: 48; 1859b: 185; Lacordaire, 1868: 61; LeConte, 1873b: 288; LeConte & Horn, 1883: 274; Leng, 1884: 57; Blanchard, 1887: 86; Fall & Cockerell, 1907: 191; Lameere, 1912a: 246; Knowlton & Wood, 1950: 10;

*Prionina palparis*; Casey, 1912: 292

*Peionus (Prionina) palparis*; Lameere, 1919: 139

*Prionus (Homaesthis) palparis*; Linsley, 1962: 58; Hovore & Turnbow, 1984: 4; Chemsak, Linsley & Noguera, 1992: 22; Monné, M.A., & Giesbert, 1994: 16 (checklist); Monné, M.A., 1995: 57; Chemsak, 1996: 126, pl. 6, figs 9.10; Heffern, 1998: 6; Monné, M.A. & Hovore, 2006: 19 (checklist); Santos-Silva, Nearn & Swift, 2016: 22, figs 9-11, 75-76

##### 6. *Prionus (Homaesthis) simplex* (Casey, 1912)

**Type locality** - Holotype male: United States, Kansas, (USNM), **Distribution** - Western Kansas and southwestern Nebraska to central Utah, Colorado, New Mexico and Arizona

*Prionina simplex* Casey, 1912: 253; Knaus, 2014: 91;

*Prionus (Homaesthis) simplex*; Linsley, 1962: 53; Hovore & Turnbow, 1984: 4; Chemsak, Linsley & Noguera, 1992: 22 (cat.); Monné, M.A., & Giesbert, 1994: 16 (checklist); Monné, M.A., 1995: 57 (cat.); Chemsak, 1996: 123, pl. 9, fig. 3; Heffern, 1998: 174; Monné, M.A. & Hovore, 2006: 19 (checklist); Lingafelter *et al.*; 2014: 320, fig. 155w (holotype); Santos-Silva, Nearn & Swift, 2016: 12, figs

*Prionus (Homaesthis) rhodocerus* Linsley, 1957: 10; 1962: 53; Hovore, 1981: 457; Hovore & Turnbow, 1984: 4; Chemsak, Linsley & Noguera, 1992: 22 (cat.); Monné, M.A., 1995: 57 (cat.); Chemsak, 1996: 122; Heffern, 1998: 6; Monné, M.A. & Hovore, 2006: 20 (checklist);

**Type locality** - Holotype male: United States, Utah: Red Creek. (CASC)

*Prionus (Homaesthis) linsleyi* Hovore, 1981: 455, fig. 2; Hovore & Turnbow, 1984: 4; Chemsak, Linsley & Noguera, 1992: 16; Monné, M.A., 1995: 57; Chemsak, 1996: 124, pl. 9, figs 4,5

**Type locality** - Holotype male: United States, California: Coconino County, 6.5 miles South of Moenkopi (CASC)

##### 7. *Prionus (Homaesthis) spinipennis* Hovore & Turnbow, 1984

**Type locality**- Holotype male: United States, Texas: Ward County, Monahans Sandhills State Park. (CASC). **Distribution** - United States (Western Texas to eastern New Mexico)

*Prionus (Homaesthis) spinipennis* Hovore & Turnbow, 1984: 1, figs 2, 4; Chemsak, Linsley & Noguera, 1992: 23 (cat.); Monné, M.A., & Giesbert, 1994: 16 (checklist); Monné, M.A., 1995: 57 (cat.); Chemsak, 1996: 121, pl. 8, figs 11, 12; Monné, M.A. & Hovore, 2006: 20 (checklist); Santos-Silva, Nearn & Swift, 2016: 12, figs 14-14. 69-72

**SOLENOPTERINI Lacordaire, 1868**

Solénoptérides Lacordaire, 1868:171, 180.

Solenopterini; LeConte, 1873b: 286; LeConte & Horn, 1883: 271; Galileo & Martins, 1993: 90 (rev.); 1993: 199 (rev.); 1993: 425 (rev.); 1994: 109 (rev.); Monné, M.A., 2006: 91 (cat.); Bousquet *et al.*, 2009: 20; Bouchard *et al.*, 2011: 461.

**Type-genus:** *Solenoptera* Audinet-Serville, 1832

**Type-species:** *Prionus canaliculatus* Fabricius, 1787 designated by Villiers (1980a: 144). Availability (under Article 11.7.2).

Dérancistrines Lameere, 1912c:181; *Nom. nudum*. Comment. This name is unavailable under Article 11.7 (vernacular name proposed after 1899).

Derancistri; Lameere, 1919: 99.

Derancistrini; Melzer, 1919: 99; Knull, 1946: 143, 144; Linsley, 1961b: 629 (mimet.).

**Type-genus:** *Derancistrus* Audinet-Serville, 1832.

**Type-species:** *Prionus elegans* Palisot de Beauvois, 1819 (monotypy).

***Elateropsis* Chevrolat, 1862**

*Elateropsis* Chevrolat, 1862: 269; Thomson, 1864: 276; Lacordaire, 1868: 183; LeConte, 1873b: 290; LeConte & Horn, 1883: 275; Leng, 1884: 8, 60; Gahan, 1890: 27; Galileo & Martins, 1994a: 109 (rev.); Monné, M.A., 2006: 92 (cat.); Monné, M.A., 2012: 132.

*Derancistrus* (*Elateropsis*); Lameere, 1909: 14; 1913: 51; 1919: 98; Zayas, 1957: 168; Linsley, 1962: 60; Zayas, 1975: 33.

**Type-species** - *Cerambyx lineatus* Linnaeus, 1758 (subsequent designation, Thomson, 1864: 276).

**1. *Elateropsis rugosus* Gahan, 1890**

**Type locality** - Holotype female: not stated. (BMNH). **Distribution** - United States (Florida), Bahamas, Cuba (?). **Host plants** - *Metopium toxiferum* (Linnaeus) Krug & Urban (Anacardiaceae), *Bursera simaruba* (Linnaeus) Sargent (Burseraceae), *Coccoloba diversifolia* Jacquin (Polygonaceae).

*Elateropsis rugosa* Gahan, 1890: 28; 1895a: 89; Leng & Mutchler, 1914: 444 (distr.); Schwarz *in* Holland, 1917: 341 (distr.).

*Derancistrus* (*Elateropsis*) *rugosus*; Lameere, 1909: 14; 1913: 51 (cat.); 1919: 99; Cazier & Lacey, 1952: 7 (distr.); Zayas, 1957: 170, pl. 12; 1975: 39; Turnbow & Hovore, 1979: 219 (distr., hosts); Chemsak, Linsley & Noguera, 1992: 18 (cat.).

*Derancistrus rugosus*; Browne, Peck & Ivie, 1993: 40 (distr.).

*Elateropsis rugosus*; Galileo & Martins, 1994a: 115, figs 163–166, 209; Monné, M.A., 2002: 26 (cat. hosts); Monné, M.A., & Giesbert, 1994: 11 (checklist); Peck, 2005: 165 (distr.); Monné, M.A. & Hovore, 2006: 22 (checklist); Monné, M.A., 2006: 95 (cat.).

**2. *Elateropsis scabrosus* Gahan, 1890**

**Syntypes locality** – Syntypes male and female: Cuba. (BMNH). **Distribution** - United States (Florida), Bahamas, Cuba. **Host** - *Bursera simaruba* (Linnaeus) Sargent (Burseraceae).

*Elateropsis scabrosa* Gahan, 1890: 29; 1895a: 89; Schaeffer, 1908: 331; Leng & Mutchler, 1914: 444 (distr.).

*Derancistrus* (*Elateropsis*) *scabrosus*; Lameere, 1909:18; 1913: 51 (cat.); 1919: 99; Cazier & Lacey, 1952: 7; Zayas, 1957: 170, pl. 14; Linsley, 1962: 61, fig. 22; Chemsak, 1967b: 182, fig. 2; Zayas, 1975: 40; Chemsak, Linsley & Noguera, 1992: 18 (cat.).

*Derancistrus scabrosus*; Chemsak, 1969a: 186 (distr.); Thomas, 1977: 86, fig. 2 (biol., distr.); Browne, Peck & Ivie, 1993: 41 (distr.).

*Elateropsis scabrosus*; Galileo & Martins, 1994a: 118, figs 167, 168, 170, 171, 211 (syn.); Monné, M.A., 2002: 26 (cat. hosts); Monné, M.A., & Giesbert, 1994: 11 (checklist); Peck, 2005: 166 (distr.); Monné, M.A., 2006: 95 (cat.); Monné, M.A. & Hovore, 2006: 22 (checklist); Devesa, Fonseca & Barro, 2015b: 29, 461, 76, figs 1-10.

*Elateropsis fuliginosus*; Chevrolat, 1862: 271 (*partim*); LeConte, 1873b: 290; LeConte *in* Schwarz, 1878: 470; LeConte & Horn, 1883: 275; Leng, 1884: 60 (not Fabricius, 1775).

*Derancistrus (Elateropsis) punctatus*; Zayas, 1957: 171 (not Gahan, 1890).

### ***Sphenostethus* Haldeman, 1848**

*Sphenostethus* Haldeman, 1848: 126; Le Conte, 1851: 106; Thomson, 1861: 288; 1864: 276,

467; Lacordaire, 1868: 184; LeConte 1873: 290; Le Cote & Horn, 1883: 275; Leng, 1884: 60; Lameere, 1909: 20; Blatchley, 1910: 1012; Knull, 1946: 144; Galileo & Martins, 1993: 211; 1994: 146; Monné, M.A. & Hovore, 2006: 23 (checklist)

*Derancistrus (Sphenostethus)*; Linsley, 1962: 59

**Type species** - *Sphenostethus taslei* Buquet, 1841 (monotypy) (= *Sphenostethus serripennis* Haldeman, 1846)

**Hoplopteryx** Westwood, 1845: 40 (not Agassiz, 1838)

#### **1. *Sphenostethus taslei* (Buquet, 1841)**

**Type locality** - Holotype: United States, Louisiana (M NHN). **Distribution** - Atlantic coast Pennsylvania and norther Florida to Missouri and Texas, **Host plants** - *Cercis canadensis* Linnaeus (Caesalpiniaceae), *Sesbania drummondii* (Rydberg) C orey (Fabaceae), *Castanea dentata* (Marshall) Borkhausen, *Fagus ferrugineus* Aiton, *Quercus alba* Linnaeus (Fagaceae)

*Solenoptera taslei* Buquet, 1841: XXXI X; White, 1851: 54; Strauch, 1861: 126

*Sphenostethus taslei*; Thomson, 1864: 276; Lacordaire, 1868: 185; LeConte, 1873: 290; LeConte & Horn, 1883: 275; Leng, 1884: 6; Luggler, 1884: 203 (hosts); Hamilton, 1895: 337; Smith, 1900: 285; Dury 1902: 158; Ulke, 1903 25; Blatchley, 1910: 1012; Smith, 1910: 324; Fisher & Kirk, 1912: 309; Craighead, 1915: 21; 1923: 29; Galileo & Martins, 1993: 215; Monné, M.A., & Giesbert, 1994: 11 (checklist); Monné, M.A., 1995: 40; Chemsak, 1996: 132; Yanega, 1996: 27, pl. 2, fig. 14; Schiefer, 1998 115; Peck & Thomas, 1998: 116; MacRae & Rice, 2007: 228; Holt, 2013: 243. Klingeman *et al.*, 2017: 294

*DBerancistrus (Sphenostethus) taslei*; Lameere, 1909: 20; 1913: 52; 1919: 99; Linsley. 1962: 59; Chemsak, Linsley & Noguera, 1992: 18; MacRae, 1993: 226

*Derancistrus taslei*; Champlain, Kirk & Knull, 1925: 105; Kirk & Knull, 1926: 21; Hatch, 1930: 26; Brimley, 1938: 209; Loding, 1945: 113; Knull, 1946: 144; Sherman, 1946: 127; Alexander, 1958: 46; Solomon, Doolittle & Spilman, 1976: 290; Turnbow & Franklin, 1980: 338; Rice, 1981: 459; Arnett, 1985: 360; Linsley & Chemsak, 1995: 364 (hosts);

*Hoplopteryx denticulatus* Westwood, 1841: 40; Haldeman, 1847: 375

**Type locality** ? (OXUM)

*Sphenostethus serripennis* Haldeman, 1648

**Type locality** - Holotype: United States, Soutghern Pennsylvania (MCZN)

### **SPONDYLIDINAE Audinet-Serville, 1832**

Spondylidii Audinet-Serville, 1832: 123

Spondylidinae; Bousquet, Laplante, Hammond & Langor, 2017: 78

**Type-genus:** *Spondylis* Fabricius, 1775

**Type-species:** *Attelabus buprestoides* Linnaeus, 1758 designated by Latreille (1810: 431).

### **ASEMINI Thomson, 1861**

Asemitae Thomson, 1861a: 139 (key), 259; 1864: 266; 1867a: 9.

Asemites; Fairmaire *in* Jacquelin DuVal, 1864a: 122.

Asemides; Lacordaire, 1868: 205.

Asemi; LeConte, 1873b: 293; LeConte & Horn, 1883: 278.

Asemini; Gahan, 1906: 94; Aurivillius, 1912: 15 (cat.); Casey, 1912: 256; Bradley, 1930: 228, 230; Linsley, 1939: 65; Knull, 1946: 148; Dillon & Dillon, 1961: 582; Linsley, 1962: 67; Arnett, 1962: 856; Hatch, 1971: 94; Monné, M.A., 1994: 18 (cat.); Monné, M.A., 2006: 107 (cat.); Bousquet, Heffern, Bouchard & Nearn., 2009: 21; Bouchard *et al.*, 2011: 464; Bousquet, Laplante, Hammond & Langor, 2017: 80 (key gen)

**Type-genus:** *Asemum* Eschscholtz, 1830.

**Type-species:** *Cerambyx striatum* Linnaeus, 1758 designated by Westwood (1838: 40).



Criomorphates Mulsant, 1863: 79, 115 (based on *Criomorphus* Mulsant, 1839). *Nomen nudum*.  
Comment. This name is unavailable under Article 11.7 (not subsequently Latinized and attributed to Mulsant 1863).

Criomorphaires Planet, 1924: 232.

Criomorphini; Portevin, 1927: 20, 36.

**Type-genus:** *Criomorphus* Mulsant, 1839 (junior homonym of *Criomorphus* Curtis, 1831 [Hemiptera]).

**Type-species:** *Callidium aulicum* Fabricius, 1775 by monotypy. Comment. This name is permanently invalid because it is based on a preoccupied type genus (Article 39).

Criocéphalites Fairmaire, 1864a: 125, 192 (based on *Criocephalus* Mulsant, 1839). *Nomen nudum*. Comment. This name is unavailable under Article 11.7 (not subsequently Latinized and attributed to Fairmaire 1864).

Criocephalinae Sharp, 1905: 147.

**Type-genus:** *Criocephalus* Mulsant, 1839

**Type-species:** *Cerambyx rusticus* Linnaeus, 1758 (monotypy).

Tetropiina Seidlitz, 1891: 179; Reitter, 1912: 42 (*partim*).

**Type-genus:** *Tetropium* Kirby, 1837.

**Type-species:** *Callidium cinnamopterum* Kirby, 1837 (see ICZN 1988: 71).

Nothorhinini Zagajkevich, 1991: 110.

**Type-genus:** *Nothorhina* Redtenbacher, 1845.

**Type-species:** *Callidium muricatum* Dalman, 1817 designated by Thomson (1864: 267).

Comment. This name has been listed in synonymy with the Asemini by Vives and Alonso-Zarazaga (2000: 569).

#### ***Arhopalus* Audinet-Serville, 1834**

*Arhopalus* Audinet-Serville, 1834b: 77; Linsley, 1940: 254; Knoll, 1946: 149; Linsley, 1962: 68; Arnett, 1962: 856; Hatch, 1971: 94; Chemsak, 1996: 18; Monné, M.A., 2006: 108 (cat.); Monné, M.A., 2012: 133; Bousquet. Laplante, Hammond & Langor, 2017: 80 (key spp)

**Type-species** - *Cerambyx rusticus* Linnaeus, 1758 (Westwood subsequent designation, Westwood, 1838: 40).

*Criocephalum* Dejean, 1835: 328 (cat.); Bousquet & Bouchard. 2013: 79.

**Type-species** - *Cerambyx rusticus* Linnaeus, 1758 (monotypy).

*Criocephalus* Mulsant, 1839: 63; LeConte, 1850a: 35; Thomson, 1861a: 260; Mulsant, 1863: 125, 431; Thomson, 1865: 464; Lacordaire, 1868: 210; LeConte, 1873a: 169; 1873b: 293, 294; Provancher, 1877: 578, 584; Bates, 1879: 15; LeConte & Horn, 1883: 278; Leng, 1884: 63; Wickham, 1897b: 105; Gahan, 1906: 96; Blatchley, 1910: 1014; Casey, 1912: 265; Bradley, 1930: 230; Chagnon, 1936: 256; Chagnon & Robert, 1962: 253, 256; Zayas, 1975: 48.

**Type-species** - *Cerambyx rusticus* Linnaeus, 1758 (subsequent designation, Thomson, 1864: 268).

*Hylescopus* Gistel, 1856 : 376

**Type-species** - *Cerambyx rusticus* Linnaeus, 1758 (monotypy).

*Cephalocrius* Sharp, 1905: 147.

**Type-species** - *Criocephalus syriacus* Reitter, 1895 (monotypy).

#### **1. *Arhopalus asperatus* (LeConte, 1859)**

**Syntypes locality** - Syntypes male and female: United States, Kansas. (MCZN). **Distribution** - Coniferous belt of western North America, Mexico (Baja California, Chiapas, Chihuahua, Veracruz), Honduras. **Host plants** - *Abies concolor* Gordon & Glen, *Abies magnifica* A. Murray, *Picea* sp., *Pinus ponderosa* Douglas ex Lawson & P. Lawson, *Pseudotsuga menziesii* (Mirbel) Franco (Pinaceae).

*Criocephalus asperatus* LeConte, 1859a: 19; 1873a: 170; Snow, 1877: 19 (distr.); Bates, 1884: 239; Leng, 1884: 63; Slossom, 1895: 6 (distr.); Harrington, 1899: 108 (distr.); Fall, 1901: 27 (distr.); Knaus, 1904: 156 (distr.); Sharp, 1905: 160; Snow, 1906b: 170 (distr.); Fall & Cockerell, 1907: 191 (distr.); Garnett, 1918: 174 (distr.); Hardy, 1926: 27; Essig, 1926: 451 (biol.); Knowlton, 1930: 56 (distr.); Beaulne, 1932: 198 (hosts); Davis, 1932: 85 (distr.);

- Mank, 1934: 80 (distr.); Knowlton & Thatcher, 1936: 278 (distr.); Doane *et al.*, 1936: 168 (biol.); Moore, 1937: 87 (distr.); Carl & Hardy, 1945: C36 (biol.).
- Arhopalus asperatus*; Knowlton & Wood, 1950: 10 (distr.); Keen, 1952: 195, fig. 93 (hosts); Linsley, 1957: 11 (syn.); Linsley, Knull & Statham, 1961: 7; Linsley, 1962: 69, figs 25, 26; Hatch, 1971: 95, pl. 9, fig. 5; Kirk & Balsbaugh, 1975: 97 (distr.); Furniss & Carolin, 1977: 291 (hosts); Lewis, 1979: 22 (distr.); Chemsak, Linsley & Mankins, 1980: 28 (distr.); Hovore, 1988: 3 (distr.); Chemsak, Linsley & Noguera, 1992: 24 (cat.); Monné, M.A., & Giesbert, 1994: 22 (checklist); Noguera & Chemsak, 1996: 396 (cat.); Chemsak, 1996: 19, pl. 1, fig. 9 (rev.); Linsley & Chemsak, 1997: 345 (hosts); Heffern 1998: 7 (distr.); Monné, M.A., 2002: 32 (cat. hosts); Turnbow, Cave & Thomas, 2003: 5 (distr.); Monné, M.A., 2006: 108 (cat.); Monné, M.A. & Hovore, 2006: 23 (checklist); Hovore, 2006: 371 (distr.); Gutiérrez & Noguera, 2015: 138 (distr.); Rice, MacRae & Merickel, 2017: 669 (distr.); Bousquet. Laplante, Hammond & Langor, 2017: 81, pl. 14
- Criocephalus honduranus* Casey, 1912: 265; Lingafelter *et al.*, 2014: 76, figs 82u, v (holotype).  
**Type locality** - Holotype male: Honduras. (USNM).
- Criocephalus filitarsis* Casey, 1912: 266; Lingafelter *et al.*, 2014: 62, figs 66k, l (holotype).  
**Type locality** - Holotype female: United States, Texas: El Paso. (USNM).

## 2. *Arhopalus foveicollis* (Haldeman, 1847)

- Syntypes localities** - Syntypes: United States, Maryland, Virginia. (MCZN). **Distribution** - Coniferous forests of North America except the Pacific Coast. **Host plants** - *Picea* sp., *Pinus rigida* Miller, *Pinus strobus* Linné (Pinaceae).
- Criocephalus foveicollis* Haldeman, 1847a: 35.
- Arhopalus foveicollis*; Linsley, 1957: 11 (syn.); 1962: 70, fig. 26; Gosling, 1973: 68, fig. 7 (biol., distr.); Stein & Tigestad, 1976: 3 (distr.); Laliberté, Chantal & LaRochelle, 1977: 91 (biol.); Furniss & Carolin, 1977: 291; Gosling, 1986: 155 (hosts); Chemsak, Linsley & Noguera, 1992: 24 (cat.); MacRae, 1993: 227 (distr.); Monné, M.A., 1994: 19 (cat.); Monné, M.A., & Giesbert, 1994: 22 (checklist); Chemsak, 1996: 21, pl. 1, fig. 10; Yanega, 1996: 43, pl. 2, fig. 16; Linsley & Chemsak, 1997: 345 (hosts); Heffern, 1998: 7 (distr.); Vlasák & Vlasakova, 2002: 209 (distr.); Monné, M.A. & Hovore, 2006: 23 (checklist); Lingafelter, 2007: 15, 138, 2 figs, pl. 3d (hosts); Webster, 2016: 486; Klingeman *et al.*, 2017: 294 (distr.); Bousquet. Laplante, Hammond & Langor, 2017: 81, pl. 24
- Callidium agreste* Kirby, 1837: 170 (preoccupied).
- Criocephalus agrestis*; Haldeman, 1847a: 35; LeConte, 1850b: 234 (distr.); 1850a: 36; White, 1855: 311; LeConte, 1859a: 48 (distr.); Packard, 1870: 119 (distr.); Pettit, 1871: 105 (distr.); Bethune, 1872: 55; LeConte, 1873a: 170; Horn, 1873: 717; 1876: 169; Provancher, 1877: 585; Packard, 1881: 158 (biol.); Harrington, 1881: 33 (biol.); Leng, 1884: 63; Saunders, 1884: 53; 1887: 29 (distr.); Packard, 1890: 699, pl. 17, figs 3, 3a; Harrington, 1890: 185 (distr.); Evans, 1895: 173 (distr.); Chagnon, 1897: 16 (distr.); Wickham, 1897c: 106; 1899: 199 (distr.); Harrington, 1899: 108 (distr.); Smith, 1900: 285 (distr.); Ulke, 1903: 25 (distr.); Chagnon, 1905: 35 (distr.); Sharp, 1905: 160; Fall & Cockerell, 1907: 191 (distr.); Morris, 1908: 446; Davis, 1909: 42 (distr.); Wickham, 1909a: 28 (distr.); Morris, 1909: 60 (biol.); Sherman, 1910: 194 (distr.); Smith, 1910: 324; Blatchley, 1910: 1015; Fisher & Kirk, 1912: 309 (distr.); Frost, 1915: 207; Chagnon, 1917: 230 (distr.); Britton, 1920: 266 (distr.); Casey, 1924: 230 (syn.); Fall, 1926: 202 (distr.); Kirk & Knull, 1926: 21 (distr.); Leonard, 1928: 434 (distr.); Brown, 1930: 244 (distr.); Beaulne, 1932: 198 (hosts); Brown, 1934: 229 (distr.); Mank, 1934: 80 (distr.); Doane *et al.*, 1936: 268; Chagnon, 1936: 256, pl. 17, fig. 1; 1939: 86 (distr.); Procter, 1946: 177 (biol.); Clark, 1956: 41 (distr.); Chagnon & Robert, 1962: 256, pl. 17, fig. 1.
- Criocephalus rusticus* var. *agrestis*; Hamilton, 1890: 44.
- Arhopalus agrestis*; Knull, 1946: 119, pl. 3, fig. 7; Knowlton & Wood, 1950: 10 (distr.); Hicks, 1955: 165 (distr.); Gardiner, 1957: 251 (distr.).
- Syntypes locality** - Syntypes: Canada, Nova Scotia. (BMNH).
- Criocephalus lacustrinus* Casey, 1912: 267; Lingafelter *et al.*, 2014: 85, fig. 93e (holotype).  
**Type locality** - Holotype female: United States, Wisconsin: Bayfield. (USNM).

*Criocephalus cervinus* Casey, 1912: 267; Lingafelter *et al.*, 2014: 39, fig. 40w (holotype).

**Type locality** - Holotype male: United States, Indiana. (USNM).

### 3. *Arhopalus hesperus* Chemsak & Linsley, 1965

**Type locality** - United States, Western Nevada and California **Host plants** - *Pinus monophylla* Torrey & Fremont (Pinaceae)

*Arhopalus rusticus hesperus*; Chemsak & Linsley, 1965: 141; Tyson, 1970: 297 (hosts); Chemsak, Linsley & Noguera, 1992: 23 (cat.); Monné, M.A., 1994: 20; Chemsak, 1996: 27, pl. 2, fig. 3; Monné, M.A. & Hovore, 2006: 23 (checklist);

*Arhopalus hesperus*; Bousquet, Laplante, Hammond & Langor, 2017: 18

### 4. *Arhopalus montanus* (LeConte, 1873)

**Syntypes locality** - Syntypes male and female: United States, Colorado. (MCZN).

**Distribution** - Rocky Mountain region from Colorado to New Mexico, Arizona and northern Mexico (Chihuahua, Chiapas, Nuevo León, Oaxaca, Tamaulipas). **Host plants** - *Pinus arizonica* Engelmann ex Rothrock, *P. leiophylla chihuahuana* (Engelmann) A. E. Murray, *P. ponderosa* Douglas ex Lawson & P. Lawson, *Pseudotsuga menziesii* (Mirbel) Franco (Pinaceae).

*Criocephalus montanus* LeConte, 1873a: 170; Lameere, 1883: 9 (cat.); Leng, 1884: 63, 64; Craighead, 1923: 33.

*Arhopalus montanus*; Knowlton & Wood, 1950: 10 (distr.); Linsley, 1957: 12 (syn.); Linsley, Knull & Statham, 1961: 7 (distr., hosts); Bousquet, Laplante, Hammond & Langor, 2017: 81

*Arhopalus rusticus montanus*; Linsley, 1972: 76, fig. 27; Furniss & Carolin, 1977: 291; Lewis, 1979: 22 (distr., hosts); Chemsak, Linsley & Noguera, 1992: 24 (cat.); Noguera & Chemsak, 1996: 396 (cat.); Chemsak, 1996: 26, pl. 2, fig. 2 (rev.); Linsley & Chemsak, 1997: 346 (hosts); Heffern, 1998: 7 (distr.); Monné, M.A., 2002: 33 (cat. hosts); Monné, M.A., & Giesbert, 1994: 22 (checklist); Monné, M.A., 2006: 109 (cat.); Monné, M.A. & Hovore, 2006: 23 (checklist); Gutiérrez & Noguera, 2015: 138 (distr.); García Morales *et al.*, 2015: 99 (distr.).

*Arhopalus montanus*; Bousquet, Laplante, Hammond & Langor, 2017: 81

*Nothorhina spissicornis* Casey, 1912: 264; Lingafelter *et al.*, 2014: 323, figs 159g, h (lect. designation).

**Type locality** - Lectotype male: United States, Colorado: Boulder Co. (USNM).

*Nothorhina spissicornis longicornis* Casey, 1912: 246; Lingafelter *et al.*, 2014: 323, figs 159m, n (holotype).

**Type locality** - Holotype male: United States, Colorado: Boulder Co. (USNM).

*Nothorhina gracilipes* Casey, 1912: 265; Lingafelter *et al.*, 2014: 70, figs 75u, v (holotype).

**Type locality** - Holotype male: United States, New Mexico: Las Vegas. (USNM).

*Criocephalus cavicollis* Casey, 1912: 266; Lingafelter *et al.*, 2014: 38, figs 39s, t (holotype).

**Type locality** - Holotype male: United States, Colorado. (USNM).

*Criocephalus coloradensis* Casey, 1924: 231; Lingafelter *et al.*, 2014: 43, figs 44m, n (holotype).

**Type locality** - Holotype female: United States, Colorado: Florissant. (USNM).

### 5. *Arhopalus nubilus* (LeConte, 1850)

**Syntypes locality** - Syntypes: not stated. (MCZN). **Distribution** - Southeastern United States, Bahamas, Jamaica. **Host plants** - *Pinus palustris* Miller (Pinaceae).

*Criocephalus nubilus* LeConte, 1850a: 36; White, 1855: 311; LeConte, 1873a: 170; Riley, 1880: 238 (hosts); Packard, 1881: 162 (biol.); Leng, 1884: 63, 64; Packard, 1890: 704 (biol.); Beutenmuller, 1896: 74 (hosts); Castle & Laurent, 1897: 8 (distr.); Sharp, 1905: 158; Fall & Cockerell, 1907: 191 (distr.); Wickham, 1909b: 402 (distr.); Davis & Leng, 1912: 121 (hosts); Dozier, 1918: 334 (distr.); Gowdey, 1926: 21 (distr.); Loding, 1933: 148 (distr.); Brimley, 1938: 210 (distr.); Loding, 1945: 114 (distr.); Sherman, 1946: 126 (distr.).

*Arhopalus rusticus nubilus*; Linsley, 1962: 75, fig. 27; Chemsak, 1967b: 182 (distr.); Turnbow & Franklin, 1980: 338 (distr.); Chemsak, Linsley & Noguera, 1992: 24 (cat.); Browne, Peck & Ivie, 1993: 41 (distr.); Chemsak, 1996: 25, pl. 2, fig. 1 (rev.); Linsley & Chemsak, 1997: 346

(hosts); Monné, M. A., 2002: 34 (cat. hosts); Monné, M.A., & Giesbert, 1994: 22 (checklist); Monné, M.A., 2006: 110 (cat.).

*Arhopalus nubilus*; Bousquet. Laplante, Hammond & Langor, 2017: 81

#### 6. *Arhopalus obsoletus* (Randall, 1838)

**Type locality** - United States, Maine. (Depository unknown). **Distribution** - Boreal North America west to Rocky Mountains, Mexico, Guatemala, Honduras. **Host plants** - *Pinus banksiana* Lambert, *P. pseudo-strobus* Lindley, *P. sylvestris* Linné, *P. tenuifolia* Benth (Pinaceae).

*Callidium obsoletum* Randall, 1838: 27.

*Criocephalus obsoletus*; LeConte, 1851: 106; White, 1855: 311; Bland, 1861: 94 (distr.); Lacordaire, 1868: 211; Packard, 1872: 93 (distr.); LeConte, 1873a: 170; Provancher, 1877: 585; Leng, 1884: 63; Packard, 1888: 142 (distr.); Wickham, 1897b: 106; Chagnon, 1897: 15 (distr.); Smith, 1900: 285 (distr.); Ulke, 1903: 25 (distr.); Sharp, 1905: 154; Chagnon, 1905: 232; Fall & Cockerell, 1907: 191 (distr.); Blatchley, 1910: 1015; Smith, 1910: 325 (distr.); Fisher & Kirk, 1912: 309 (distr.); Nicolay, 1919: 63 (distr.); Britton, 1920: 266 (distr.); Craighead, 1923: 33 (larva, biol.); Hatch, 1925: 579 (distr.); Kirk & Knull, 1926: 22 (distr.); Leonard, 1928: 434 (distr.); Beaulne, 1932: 198 (hosts); Linsley, 1935a: 72 (distr.); Doane *et al.*, 1936: 168 (biol., hosts); Brimley, 1938: 210 (distr.); Loding, 1945: 114 (distr.); Craighead, 1950: 237 (biol.); Schwerdtfeger, 1955: 319 (biol.).

*Arhopalus obsoletus*; Knull, 1946: 150; Duffy, 1960: 82 (hosts).

*Arhopalus rusticus obsoletus*; Linsley, 1962: 75, fig. 27; Gosling, 1973: 68, fig. 8 (biol.); Turnbow & Franklin, 1980: 338 (distr.); Rice, 1981: 460 (distr.); Chemsak, Linsley & Noguera, 1992: 24 (cat.); MacRae, 1993: 227 (distr., hosts); Noguera & Chemsak, 1996: 396 (cat.); Chemsak, 1996: 25, pl. 1, fig. 12 (rev.); Linsley & Chemsak, 1997: 346 (hosts); Monné, M.A., 2002: 34 (cat. hosts); Turnbow, Cave & Thomas, 2003: 5 (distr.); Monné, M.A., & Giesbert, 1994: 22 (checklist); Monné, M.A., 2006: 110 (cat.); Hovore, 2006: 371 (distr.); Holt, 2013: 246 (distr.); Spomer, 2014: 298 (distr.); Webster *et al.*, 2016: 112 (hosts); Klingeman *et al.*, 2017: 295 (distr.)

*Arhopalus obsoletus*; Webster, 2016: 486; Bousquet. Laplante, Hammond & Langor, 2017: 81, pl. 14

*Criocephalus obscurus* LeConte, 1850a: 36.

**Type locality** - United States, New York. (MCZN).

*Criocephalus mexicanus* Thomson, 1861a: 260; 1878: 7 (type); Bates, 1879: 15 (distr.); 1884: 239 (distr.); Schaeffer, 1908: 329 (distr.).

**Type locality** - Mexico. (MNHN).

#### 7. *Arhopalus productus* (LeConte, 1850)

**Type locality** - Holotype: United States, Oregon. (MCZN). **Distribution** - Pacific coast of North America from British Columbia to Baja California and Rocky Mountains, south into Mexico, Guatemala and Honduras. **Host plants** - *Abies* sp., *Pinus* sp., *Pseudotsuga menziesii* (Mirbel) Franco (Pinaceae).

*Criocephalus productus* LeConte, 1850a: 36; White, 1855: 310; LeConte, 1857: 23 (distr.); 1859a: 48 (distr.); 1869: 371 (distr.); 1873a: 169; Horn *in* Hayden, 1873: 717; Packard, 1877: 804; Snow, 1877: 19 (distr.); LeConte, 1879: 505 (distr.); Packard, 1881: 159, fig. 71 (biol.); Snow, 1881: 70 (distr.); 1883: 42 (distr.); Leng, 1884: 63, 64 (not pl. 2, fig. 4); Bates, 1884: 239 (distr.); Packard, 1890: 699, fig. 235 (biol.); Townsend, 1895: 47 (distr.); Harrington, 1899: 108 (distr.); Fall, 1901: 27; Sharp, 1905: 160; Snow, 1906: 1906b: 170 (distr.); Fall & Cockerell, 1907: 191 (distr.); Wickham, 1909a: 28 (distr.); Hyslop, 1912: 100 (biol.); Garnett, 1918: 173 (distr.); Craighead, 1923: 32, pl. 2, figs 2, 3, 6, 23, 25 (larva); Hardy, 1926: 4, pl. 4, fig. 23; Knowlton, 1930: 56 (distr.); Pack, 1930: 219 (distr.); Beaulne, 1932: 198 (hosts); Mank, 1934: 80 (distr.); Knowlton & Thatcher, 1936: 278 (distr.); Doane *et al.*, 1936: 168 (biol.); Moore, 1937: 87 (distr.); Kimmey & Furniss, 1943: 23, figs 6, c-d (biol.).

*Arhopalus productus*; Knowlton & Wood, 1950: 10 (distr.); Keen, 1952: 195 (biol.); Eaton & Lyon, 1955: 11, figs 1-3 (biol.); Linsley, 1957: 12 (syn.); Eaton, 1959: 114 (biol.); Linsley,

1962: 72, fig. 27; Hatch, 1971: 95, pl. 16, fig. 1; Kirk & Balsbaugh, 1975: 97 (distr.); Furniss & Carolin, 1977: 291, fig. 174A (hosts); Chemsak, Linsley & Mankins, 1980: 29 (distr.); Chemsak, Linsley & Noguera, 1992: 24 (cat.); Noguera & Chemsak, 1996: 396 (cat.); Chemsak, 1996: 22, pl. 1, fig. 11 (rev.); Linsley & Chemsak, 1997: 345 (hosts); Heffern 1998: 7 (distr.); Monné, M.A., 2002: 33 (cat. hosts); Turnbow, Cave & Thomas, 2003: 5 (distr.); Monné, M.A., & Giesbert, 1994: 22 (checklist); Monné, M.A., 2006: 109 (cat.); Hovore, 2006: 371 (distr.); Monné, M.A. & Hovore, 2006: 24 (checklist); Rice, MacRae & Merickel, 2017: 669 (distr.); Bousquet, Laplante, Hammond & Langor, 2017: 81, pl. 14  
*Criocephalus elongatus* Casey, 1924: 230; Lingafelter *et al.*, 2014: 57, figs 60w, x (lect. designation).

**Type locality** - Lectotype female: United States, Utah: Stockton. (USNM).

*Criocephalus propinquus* Casey, 1924: 230; Lingafelter *et al.*, 2014: 303, figs 136g, h (lect. designation).

**Type locality** - Lectotype female: United States, Colorado. (USNM).

### 8. *Arhopalus rusticus rusticus* (Linnaeus, 1758)

**Syntypes locality** - Syntypes: Suecia. (UZIU). **Distribution** - Europe, Palearctic Asia through Japan; north of Africa, and North America (except Pacific Coast). Introduced in Argentina (Buenos Aires).

*Cerambyx rusticus* Linnaeus, 1758: 395.

*Arhopalus rusticus*; Laporte, 1840: 453; Linsley, 1962: 63; Monné, M.A., & Giesbert, 1994: 22 (checklist); Chemsak, 1996: 23; Di Iorio, 2004d: 664 (distr.); Turienzo, 2007: 321 (hosts, distr.); Monné, M.L., Monné, M.A. & Wang, 2017: 35, fig. 58 (larva); Bousquet, Laplante, Hammond & Langor, 2017: 81, pl. 14

### *Asemum* Eschscholtz, 1830

*Asemum* Eschscholtz, 1830: 66; Audinet-Serville, 1834b: 79; Westwood, 1838: 40; Mulsant, 1839: 62; LeConte, 1850a: 35; Thomson, 1861a: 260; Mulsant, 1863: 119, 425; Thomson, 1864: 268; 1865: 464; Lacordaire, 1868: 206; LeConte, 1873b: 293; LeConte & Horn, 1883: 277, 278; Leng, 1884: 62; Blatchley, 1910: 1014; Casey, 1912: 257; Craighead, 1923: 31 (larva); Bradley, 1930: 230; Hopping, 1931: 234 (syn.); Chagnon, 1936: 256; Knull, 1946: 184; Dillon & Dillon, 1961: 582; Linsley, 1962: 78; Arnett, 1962: 856; Chagnon & Robert, 1962: 253, 256; Hatch, 1971: 95; Monné, M.A., 2006: 110 (cat.); Monné, M.A., 2012: 133; Bousquet, Laplante, Hammond & Langor, 2017: 82 (key spp.)

**Type-species** - *Cerambyx striatus* Linnaeus, 1758 (subsequent designation, Westwood, 1838).

*Onychoplectes* Gistel, 1856: 376.

**Type-species** - *Cerambyx striatus* Linnaeus, 1758 (monotypy).

*Liaseum* Casey, 1912: 262; Bradley, 1930: 230.

**Type-species** - *Asemum nitidum* LeConte, 1873 (subsequent designation, Linsley, 1962: 78).

### 1. *Asemum australe* LeConte, 1850

**Type locality** - Holotype: United States, Georgia. (MCZN). **Distribution** - Canada, Atlantic Coast from Massachusetts to Georgia and Louisiana. **Host plants** - *Pinus strobus* Linné (Pinaceae).

*Asemum australe* LeConte, 1850a: 35; White, 1855: 312; Linsley, 1957: 14 (syn.); 1962: 83, fig. 31; Turnbow & Franklin, 1980: 338; Chemsak, Linsley & Noguera, 1992: 24 (cat.); Monné, M.A., & Giesbert, 1994: 22 (checklist); Chemsak, 1996: 36, pl. 2, fig. 8; Yanega, 1996: 44, pl. 2, fig. 18; Schiefer, 1998: 116 (distr.); Vlasák & Vlasakova, 2002: 209 (distr.); Monné, M.A. & Hovore, 2006: 24 (checklist); Lingafelter, 2007: 15, 139 (hosts); Bousquet, Laplante, Hammond & Langor, 2017: 82, pl. 15

*Criocephalus australis*; LeConte, 1862: 43; 1873a: 170; 1873b: 294; Henshaw, 1874: 22 (distr.); LeConte & Horn, 1883: 179; Leng, 1884: 63; Evans, 1906: 99 (distr.); Wickham, 1909a: 28 (distr.).

*Criocephalus champlainianus* Casey, 1924: 231; Leonard, 1928: 434; Lingafelter *et al.*, 2014: 39, fig. 41g (holotype).

**Type locality** - Holotype male: United States, New York: near Lake George (Lake Champlain region). (USNM).

## 2. *Asemum caseyi* Linsley, 1957

**Type locality** - Holotype male: United States, California: Bear Valley (St. Bernardino Mts.). (CASC). **Distribution** - Canada. Coniferous forests of Oregon and California to Mexico (Baja California). **Host plants** - *Pinus contorta* Douglas ex Loudon, *P. coulteri* D. Don, *P. jeffreyi* Grev, & Balb., *P. lambertiana* Douglas, *P. ponderosa* Douglas ex Lawson & P. Lawson, *P. sabiniana* Douglas ex D. Don (Pinaceae).

*Asemum caseyi* Linsley, 1957: 13; 1962: 83, fig. 31; Barr & Penrose, 1969: 88 (distr.); Hatch, 1971: 96; Furniss & Carolin, 1977: 292; Skiles, 1978b: 14 (biol.); Hovore, 1988: 4 (distr.); Chemsak, Linsley & Noguera, 1992: 24 (cat.); Monné, M.A., & Giesbert, 1994: 22 (checklist); Noguera & Chemsak, 1996: 396 (cat.); Chemsak, 1996: 34, pl. 2, fig. 7 (rev.); Linsley & Chemsak, 1997: 346 (hosts); Monné, M.A., 2002: 35 (cat. hosts); Monné, M.A., 2006: 111 (cat.); Monné, M.A. & Hovore, 2006: 24 (checklist); Rice, MacRae & Merickel, 2017: 669 (distr.); Bousquet, Laplante, Hammond & Langor, 2017: 83, pl. 15

## 3. *Asemum nitidum* LeConte, 1873

**Type locality** - Holotype male: United States, Oregon. (MCZN). **Distribution** - Pacific Coast of North America from British Columbia to southern California and New Mexico.

**Host plants** - *Abies* sp., *Pinus jeffreyi* Balfour, *P. ponderosa* Douglas ex Lawson & P. Lawson, *Pseudotsuga menziesii* (Mirbel) Franco (Pinaceae).

*Asemum nitidum* LeConte. 1873a: 169; Leng, 1884: 62; Fall, 1901: 143 (distr.); Hopkins, 1904: 21 (biol.); Garnett, 1918: 173 (distr.); Craighead, 1923: 32, pls 2,3,7; Hopping, 1931: 235; Beaulne, 1932: 197 (hosts); Doane *et al.*, 1936: 167; Keen, 1952: 196 (biol.); Linsley, 1957: 13 (syn.); Townes & Townes, 1960: 157 (paras.); Linsley, 1962: 82; Barr & Penrose, 1969: 88 (distr.); Furniss & Carolin, 1977: 292; Skiles, 1978b: 14 (distr.); Chemsak, Linsley & Noguera, 1992: 24 (cat.); Monné, M.A., 1994: 22 (cat.); Monné, M.A., & Giesbert, 1994: 22 (checklist); Chemsak, 1996: 33, pl. 2, fig. 6; Linsley & Chemsak, 1997: 346 (hosts); Monné, M.A. & Hovore, 2006: 24 (checklist); Rice, MacRae & Merickel, 2017: 669 (distr.); Bousquet, Laplante, Hammond & Langor, 2017: 83

*Liasemum nitidum*; Casey, 1912: 262; Essig, 1926: 450; Moore, 1937: 87 (distr.);

*Liasemum mokelumne* Casey, 1912: 262; Moore, 1937: 87 (distr.); Lange, 1937: 174 (hosts); Lingafelter *et al.*, 2014: 101, 368, fig. 111g (lectotype).

*Asemum mokelumne*; Hopping, 1931: 235; Doane *et al.*, 1936: 167; Keen, 1952: 196 (hosts);

**Type locality** - Lectotype female: United States, California: Calaveras County, Mokelumne Hill. (USNM).

## 4. *Asemum striatum* (Linnaeus, 1758)

**Syntypes locality** - Syntypes: Sweden. (UZIU). **Distribution** - Coniferous belt of Europe, Asia and North America. **Host plants** - *Abies firma* Siebold & Zuccarini, *A. holophylla* Maximowicz, *A. homolepis* Siebold & Zuccarini, *A. mariesii* Masters, *A. nephrolepis* (Trautvetter) Maximowicz, *A. sachalinensis* Masters, *A. veitchii* Lindley, *Larix europaea* de Candolle, *L. kaempferi* Fortune ex Gordon, *L. koreana* Nakai, *L. laricina* (Duroi) K. Koch, *Picea abies* Linné, *P. glauca* (Moench) Voss, *P. jezoensis* Carrière, *P. koraiensis* Nakai, *Pinus armandii* Franchet, *P. contorta* Douglas ex Loudon, *P. densiflora* Siebold & Zuccarini, *P. echinata* Miller, *P. inops* Solander, *P. jeffreyi* Balfour, *P. koraiensis* Siebold & Zuccarini, *P. nigra* Arnold, *P. ponderosa* Douglas ex Lawson & P. Lawson, *P. resinosa* Aiton, *P. rigida* Miller, *P. strobus* Linné, *P. sylvestris* Linné, *P. tabulaeformis* Hortulanorum ex C. Koch, *P. thunbergii* Parlatore, *Pseudotsuga menziesii* (Mirbel) Franco (Pinaceae), *Cryptomeria japonica* D. Don (Taxodiaceae).

*Cerambyx striatus* Linnaeus, 1758: 396; 1761: 192; 1767: 635.

*Callidium striatum*; Fabricius, 1775: 191; 1801: 343; Kirby, 1837: 171; Bethune, 1872: 56.

*Asemum striatum*; Audinet-Serville, 1834: 69; White, 1855: 312; Thomson, 1864: 268; Heyden, 1890: 132 (syn.); Smith, 1905: 165 (hosts); Dillon & Dillon, 1961: 582, pl. 57, No. 9; Linsley, 1962: 79, figs 29, 30; Hatch, 1971: 97, pl. 9, fig. 6; Swan & Papp, 1972: 444, fig. 934; Gosling, 1973: 68 (distr.); Perry, 1975: 59 (hosts); Kirk & Balsbaugh, 1975: 97 (distr.); Furniss & Carolin, 1977: 292 (hosts); Turnbow & Franklin, 1980: 338 (distr.); Gosling, 1984: 71 (hosts); Waters & Hyche, 1984: 284 (distr.); Gosling, 1986: 255 (hosts); Chemsak, Linsley & Noguera, 1992: 24 (cat.); MacRae, 1993: 227 (distr., hosts); Monné, M.A., 1994: 23 (cat.); Monné, M.A., & Giesbert, 1994: 22 (checklist); Chemsak, 1996: 32, pl. 2, fig. 5; Yanega, 1996: 94, pl. 2, figs 17a,b; Linsley & Chemsak, 1997: 345 (hosts); Heffern, 1998: 7 (distr.); Schiefer, 1998: 116 (distr.); Peck & Thomas, 1998: 117 (distr.); Vlasák & Vlasakova, 2002: 209 (distr., hosts); Turnbow, Cave & Thomas, 2003: 5 (distr.); Sikes & Webster, 2005: 327 (distr.); Monné, M.A. & Hovore, 2006: 24 (checklist); Lingafelter, 2007: 15, 139, 2 figs, pl. 3c (hosts); Webster, McCorquodale & Majka, 2009: 221 (distr.); Holt, 2013: 246 (distr.); Webster, 2016: 486; Monné, M.L., Monné, M.A. & Wang, 2017, fig. 97; Rice, MacRae & Merickel, 2017: 669 (distr.); Bousquet, Laplante, Hammond & Langor, 2017: 82, pl. 15

*Callidium agreste* Fabricius, 1787: 152; 1801: 338; Zimsen, 1964: 179 (type).

**Type locality** - Holotype: Germany, Saxe-Anhalt: Halle. (ZMUC).

*Callidium (Callidium) dichrous* Gmelin, 1790: 1846.

**Type locality** -

*Callidium buprestoide* Savenius, 1825: 64.

**Type locality** - Holotype: Finlandia. (Depository unknown).

*Asemum atrum* Eschscholtz, 1830: 66; LeConte, 1851: 105; White, 1855: 312; LeConte, 1857: 23; LeConte, 1869: 371; Snow, 1877: 19 (distr.); Harrington, 1881: 22 (biol.); Leng, 1884: 62; Holland, 1888: 91 (distr.); Harrington, 1890: 185 (distr.); Packard, 1890: 809 (hosts); Keen, 1895: 219 (distr.); Beutenmuller, 1896: 74 (hosts); Wickham, 1897b: 105; Chagnon, 1897: 15 (distr.); Harrington, 1899: 107 (distr.); Warren, 1899: 196 (distr.); Ouellet, 1902: 122 (distr.); Fall & Cockerell, 1907: 191 (distr.); Casey, 1912: 259; Garnett, 1918: 173 (distr.); Craighead, 1920: 8; 1923: 32, pl. 6, fig. 1 (larva); Fall, 1926: 201 (distr.); Essig, 1926: 450; Engelhardt, 1927: 73 (distr.); Knowlton, 1930: 56; Pack, 1930: 219 (distr.); Hopping, 1931: 235; Beaulne, 1932: 197 (hosts); DeLeon, 1934: 57 (hosts); Brown, 1934: 229 (distr.); Mank, 1934: 79 (distr.); Knowlton & Thatcher, 1936: 278 (distr.); Chagnon, 1936: 256; Doane *et al.*, 1936: 167, fig. 81; Lange, 1937: 174 (hosts); Kimmey & Furniss, 1943: 26; Knull, 1946: 148, pl. 4, fig. 11; Leech, 1947: 108 (hosts); Knowlton & Wood, 1950: 10 (distr.); Howden & Vogt, 1951: 591 (hosts); Beal, Haliburton & Knight, 1951: 121 (biol.); Keen, 1952: 195 (biol.); Thomas, 1955: 340 (hosts); Hicks, 1955: 165 (distr.); Clark, 1956: 41 (distr.); Gardiner, 1957: 249; Linsley, Knull & Statham, 1961: 9 (distr.); Chagnon & Robert, 1962: 256; Laliberté, Chantal & LaRochelle, 1977: 91.

**Type locality** - Holotype: United States, California. (ZMUM)

*Asemum moestum* Haldeman, 1847a: 35; LeConte, 1850a: 35; Mannerheim, 1853: 248; White, 1855: 312; LeConte, 1857: 23; Bland, 1861: 94; Pettit, 1871: 105; Packard, 1872: 496, fig. 483; Henshaw, 1874: 22; Horn, 1876: 169; LeConte, 1879: 505; Riley, 1880: 238 (hosts); Harrington, 1881: 33 (biol.); Packard, 1881: 156, fig. 70 (biol.); Leng, 1884: 62, pl. 2, fig. 1; Knaus, 1885: 69 (distr.); Packard, 1890: 697, 829, pl. 19, fig. 1, fig. 234; Hopkins, 1893: 192 (biol.); Hamilton, 1894: 30; 1895: 337; Slosson, 1894: 3 (distr.); Evans, 1895: 173 (distr.); Beutenmuller, 1896: 74 (hosts); Wickham, 1897b: 105; 1899: 109 (distr.); Smith, 1900: 285 (distr.); Dury, 1902: 158 (distr.); Ouellet, 1902: 122 (distr.); MacGillivray & Houghton, 1902: 252 (distr.); Knaus, 1903: 176 (distr.); Ulke, 1903: 25, 50 (distr.); Hopkins, 1904: 35 (biol.); Chagnon, 1905: 35 (distr.); 1905: 232; Houghton, 1905: 51 (distr.); Fall & Cockerell, 1907: 191 (distr.); Wickham, 1909a: 28 (distr.); Smith, 1910: 324; Frost, 1912: 306 (distr.); Casey, 1912: 257; Nicolay, 1917: 94 (distr.); Chagnon, 1917: 230 (distr.); Blackman & Stage, 1918: 6 (biol.); Nicolay, 1919: 63 (distr.); Britton, 1920: 266 (distr.); Craighead, 1923: 31, pl. 6, figs 8, 12, pl. 25, figs 1,2; Hatch, 1925: 579 (distr.); Kirk & Knull, 1926: 21 (distr.); Procter, 1927: 110 (distr.); Leonard, 1928: 434 (distr.); Beaulne, 1932: 197 (hosts); Wolcott & Montgomery, 1933: 155; Easterling, 1934: 140 (hosts); Brown, 1934: 229 (distr.); Herrick, 1935: 252, 377 (biol.); Doane *et al.*, 1936: 167; Brimley, 1938: 210 (distr.); Savely, 1939:

- 333 (biol.); Parmelee, 1941: 377 (hosts); Loding, 1945: 114 (distr.); Procter, 1946: 176 (distr.); Hardy, 1948: 32 (distr.); Craighead, 1950: 237; Gardiner, 1950: 1.
- Syntypes locality** - Syntypes: United States, Pennsylvania. (MCZN).
- Asemum moestum* var. *obsoletum* Haldeman, 1847a: 35.
- Type locality** - Holotype: United States. (MCZN).
- Asemum moestum* var. *brunneum* Haldeman, 1847a: 35.
- Type locality** - Holotype: United States. (MCZN).
- Asemum substriatum* Haldeman, 1847a: 36.
- Type locality** - Holotype: United States. (MCZN).
- Asemum juvencum* Haldeman, 1847a: 36; Casey, 1912: 257.
- Type locality** - Holotype: United States. (MCZN).
- Asemum fuscum* Haldeman, 1847a: 36; Casey, 1912: 261.
- Type locality** - United States. (MCZN).
- Asemum subsulcatum* Motschulsky, 1860: 152.
- Type locality** - Lectotype male: Russia, Siberia. (ZMUM).
- Asemum amurense* Kraatz, 1879: 97.
- Syntypes locality** - Syntypes: Russia, Ost Siberien: Amur.(SDEI).
- Asemum gracilicorne* Casey, 1912: 258; Lingafelter et al., 2014: 70, fig. 75q (holotype).
- Type locality** - Holotype male: United States, Wisconsin: Bayfield. (USNM).
- Asemum ebenum* Casey, 1912: 258; Leonard, 1928: 434 (distr.); Lingafelter et al., 2014: 56, fig. 59s (holotype).
- Type locality** - Holotype female: United States, Lake Superior. (USNM).
- Asemum curtipenne* Casey, 1912: 258; Lingafelter et al., 2014: 49, fig. 52a (holotype).
- Type locality** - Holotype female: United States, Wisconsin: Bayfield. (USNM).
- Asemum amputatum* Casey, 1912: 259; Lingafelter et al., 2014: 15, fig. 15c (holotype).
- Type locality** - Holotype male: United States, Massachusetts: Wellesley. (USNM).
- Asemum parvicorne* Casey, 1912: 260; Lingafelter et al., 2014: 296, fig. 128 m (holotype).
- Type locality** - Holotype female: United States, Colorado: Boulder County. (USNM).
- Asemum fulvipenne* Casey, 1912: 260; Knowlton & Thatcher, 1936: 278 (distr.); Lingafelter et al., 2014: 77, fig. 72c (holotype).
- Asemum atrum fulvipenne*; Casey, 1924: 228;.
- Type locality** - Holotype female: United States, Wyoming: Laramie. (USNM).
- Asemum costulatum* Casey, 1912: 260; Lingafelter et al., 2014: 47, fig. 49q (holotype).
- Type locality** - Holotype female: Canada, British Columbia: Aldermere. (USNM).
- Asemum pugetanum* Casey, 1912: 261; Lingafelter et al., 2014: 305, 365, fig. 138 g (lectotype).
- Type locality** - Lectotype male: United States, Washington: Seattle. (USNM).
- Asemum brevicorne* Casey, 1912: 261; Lingafelter et al., 2014: 32, fig. 33e (holotype).
- Type locality** - Holotype male: Canada, Ontario. (USNM).
- Asemum amurense* var. *tomentosum* Plavilstshikov, 1915: 108.
- Type locality** - Lectotype male: China, Manchuria, Prov. Girin: Chandaohedzy. (ZMUM).
- Asemum striatum* var. *limbatipenne* Pic, 1916: 10.
- Type locality** - Holotype: France, Saône-et-Loire: Marly-sous-Issy.(MNHN).
- Asemum carolinum* Casey, 1924: 227; Brimley, 1938: 210 (distr.); Lingafelter et al., 2014: 37, 365, fig. 38u (lectotype).
- Type locality** - Lectotype male: United States, North Carolina: Southern Pines. (USNM).
- Asemum stocktonense* Casey, 1924: 227; Lingafelter et al., 2014: 324, fig. 160 c (holotype).
- Type locality** - Holotype male: United States, Utah: Stockton. (USNM).
- Asemum striatum* var. *Theresae* Pic, 1945: 6
- Type locality** - Holotype: France, Saône-et-Loire: Digoïn. (MNHN).
- Megasemum Kraatz, 1879**
- Megasemum* Kraatz, 1879: 97; Sharp, 1905: 147; Van Dyke, 1937: 112; Linsley, 1962: 76; Arnett, 1962: 856; Hatch, 1971: 94; Monné, M.A., 2006: 111 (cat.); Monné, M.A. & Hovore, 2006: 25 (checklist); Monné, M.A., 2012: 133.
- Type-species** - *Megasemum quadricostulatum* Kraatz, 1879 (monotypy)



### 1. *Megasemum asperum* (LeConte, 1854)

**Syntypes locality** - Syntypes: United States, Oregon: Prairie Paso. (MCZN). **Distribution** - Coniferous belt of western North America to southern montane Arizona and northern Mexico (Sonora). **Host plants** - *Abies* sp., *Pinus contorta* Douglas ex Loudon, *P. monticola* Douglas ex D. Don, *Pseudotsuga menziesii* (Mirbel) Franco (Pinaceae).

*Asemum asperum* LeConte, 1854a: 18; 1857: 60; 1862: 42; 1869: 371.

*Nothorhina aspera*; LeConte, 1873a: 169; 1873b: 294; LeConte & Horn, 1883: 279; Leng, 1884: 63; 1886: pl. 3, fig. 24; Smith, 1888: 91; Harrington, 1899: 108 (distr.); Knaus, 1903: 176 (distr.); Snow, 1906b: 170 (distr.); Fall & Cockerell, 1907: 191 (distr.); Casey, 1912: 263; Garnett, 1918: 173 (distr.); Craighead, 1923: 33, pl. 6, fig. 10 (larva); Hardy & Preece, 1927b: 61 (biol.); Beaulne, 1932: 198 (hosts); Mank, 1934: 79 (distr.).

*Megasemum asperum*; DeLeon, 1934: 57 (hosts); Doane *et al.*, 1936: 167 (biol.); Van Dyke, 1937: 112; Hardy, 1942: 10 (biol.); Keen, 1952: 196 (hosts); Linsley, 1957: 12 (syn.); Linsley, Knull & Statham, 1961: 9 (distr.); Linsley, 1962: 77, fig. 28; Ross, 1968: 11, 12 (biol.); Hatch, 1971: 96; Furniss & Carolin, 1977: 293; Chemsak, Linsley & Noguera, 1992: 25 (cat.); Monné, M.A., & Giesbert, 1994: 23 (checklist); Noguera & Chemsak, 1996: 396 (cat.); Chemsak, 1996: 29, pl. 2, fig. 4 (rev.); Linsley & Chemsak, 1997: 396 (hosts); Heffern, 1998: 7 (distr.); Monné, M.A., 2002: 35 (cat. hosts); Monné, M.A., 2006: 111 (cat.); Monné, M.A. & Hovore, 2006: 25 (checklist); Rice, MacRae & Merickel, 2017: 669 (distr.); Bousquet, Laplante, Hammond & Langor, 2017: 82, pl. 15

*Nothorhina aspera impressa* Casey, 1912: 264; Lingafelter *et al.*, 2014: 20, figs 20o, p (lect. designation).

**Type locality** - Lectotype male: United States, Colorado: Boulder Co. (USNM).

*Nothorhina aspera rectipennis* Casey, 1912: 264; Lingafelter *et al.*, 2014: 20, figs 20q, r (holotype).

**Type locality** - Holotype male: United States, New Mexico: Cloudcroft. (USNM).

*Criocephalus uteanus* Casey, 1924: 231; Lingafelter *et al.*, 2014: 339, figs 177q, r (holotype).

**Type locality** - Holotype female: United States, Utah: Eureka. (USNM).

### *Tetropium* Kirby, 1837

*Callidium* (*Tetropium*) Kirby in Richardson, 1837: 174;

*Tetropium*; Haldeman, 1847b: 372; LeConte, 1850a: 34; 1850b: 35; Thomson, 1861a: 258; Kraatz, 1863: 106; Thomson, 1864: 266; 1865: 462; Lacordaire, 1868: 208; Bethune, 1872: 93; LeConte, 1873b: 293, 294; Provancher, 1877: 578, 585; LeConte & Horn, 1883: 277, 278; Leng, 1884: 95; Casey, 1891: 22; 1896: 165; Wickham, 1897b: 105; Gahan, 1906: 95; Casey, 1912: 268; Craighead, 1923: 33 (larva); Bradley, 1930: 230; Chagnon, 1936: 256; Knull, 1946: 248; Linsley, 1962: 85; Arnett, 1962: 856; Chagnon & Robert, 1962: 253, 256; Hatch, 1971: 95; Mroczkowski, 1986: 188; Svacha & Danilevsky, 1987: 153 (larva); Monné, M.A., 2006: 111 (cat.); Monné, M.A. & Hovore, 2006: 24 (checklist); Monné, M.A., 2012: 133; Bousquet, Laplante, Hammond & Langor, 2017: 83 (key spp.)

**Type-species** - *Tetropium cinnamopterum* Kirby, 1837 (subsequent designation, Thomson, 1864: 266).

*Isarthron* Dejean, 1835: 229.

**Type-species** - *Callidium aulicum* Fabricius, 1775 (Linsley designation, 1962: 85).

*Criomorphus* Mulsant, 1839: 58; 1863: 115, 421; Planet, 1924: 236; Portevin, 1927: 26.

**Type-species** - *Callidium aulicum* Fabricius, 1775 (monotypy).

### 1. *Tetropium abietis* Fall, 1912

**Syntypes locality** - Syntypes male and female: United States, California: Fresno County, Huckleberry Meadow. (MCZN), **Distribution** - Pacific Coast from Washington south to southern California. **Host plants** - *Juniperus* sp. (Cupressaceae), *Abies concolor* Gordon & Glen, *A. magnifica* A. Murray (Pinaceae).

*Tetropium abietis* Fall, 1912: 320; Craighead, 1923: 34, pl. 3, fig. 8, pl. 8, fig. 7 (larva); Essig, 1926: 450 (biol.); Craighead & Middleton, 1930: 9 (biol.); Beaulne, 1932: 198 (hosts); Doane

*et al.*, 1936: 168 (biol.); Hatch, 1938: 187; Keen, 1952: 173 (biol.); Anderson, 1960: 255 (biol.); Linsley, 1962: 87, figs 32,33; Tyson, 1966: 207 (hosts); Ruetten, 1970: 22 (paratype); Hatch, 1971: 97, pl. 9, fig. 7; Swan & Papp, 1972: 444, fig. 933; Furniss & Carolin, 1977: 293 (hosts); Chemsak, Linsley & Noguera, 1992: 25 (cat.); Monné, M.A., 1994: 25 (cat.); Monné, M.A., & Giesbert, 1994: 23 (checklist); Chemsak, 1996: 39, pl. 2, fig. 9; Linsley & Chemsak, 1997: 443 (hosts); Monné, M.A. & Hovore, 2006: 24 (checklist); Bousquet, Laplante, Hammond & Langor, 2017: 84, pl. 15

## 2. *Tetropium auripilis* Bates, 1885

**Type locality** - Holotype male: Mexico, Veracruz: Las Vigas. (MNHN). **Distribution** - United States (southern Arizona), Mexico (Chihuahua, Veracruz)

*Tetropium auripilis* Bates, 1885: 435; Linsley, 1934c: 162; Linsley, Knull & Statham, 1961: 9 (distr.); Linsley, 1962: 91, fig. 33; Chemsak, Linsley & Noguera, 1992: 25 (cat.); Monné, M.A., & Giesbert, 1994: 23 (checklist); Noguera & Chemsak, 1996: 396 (cat.); Monné, M.A., 2006: 112 (cat.); Monné, M.A. & Hovore, 2006: 24 (checklist); Gutiérrez & Noguera, 2015: 138 (distr.).

## 3. *Tetropium cinnamopterum* Kirby, 1837

**Syntypes locality** - Syntypes: America Borealis, Latitude 65 degrees. (BMNH).

**Distribution** - Northeastern United States to Alaska. **Host plants** - *Abies* sp., *Picea glauca* (Moench) Voss, *Pinus inops* Solander, *P. ponderosa* Douglas ex Lawson & P. Lawson (Pinaceae).

*Callidium (Tetropium) cinnamopterum* Kirby, 1837: 174, pl. 5, fig. 8.

*Callidium cinnamopterum*; Haldeman, 1847a: 37.

*Tetropium cinnamopterum*; LeConte, 1850b: 234; 1850a: 35; White, 1855: 327; LeConte, 1857: 6, 23 (distr.); Thomson, 1864: 266; Bethune, 1872: 94 (distr.); Horn, 1876: 169; Provancher, 1877: 586; Snow, 1877: 19 (distr.); Leng, 1884: 96; Snow, 1885: 68 (distr.); Leng, 1885: 35, pl. 1, fig. 1; Harrington, 1890: 185 (distr.); Casey, 1891: 22; Slosson, 1893: 290 (distr.); 1894: 3 (distr.); Hopkins, 1893: 192; Hamilton, 1895: 337 (distr.); 1896: 165; Evans, 1895: 173 (distr.); Wickham, 1897b: 105; MacGillivray & Houghton, 1902: 252 (distr.); Skinner, 1903: 40 (distr.); Hopkins, 1904: 27 (biol.); Houghton, 1905: 51 (distr.); Snow, 1906: 179 (distr.); Fall & Cockerell, 1907: 191 (distr.); Davis, 1909: 42 (distr.); Blatchley, 1910: 1015; Morris, 1916: 19 (hosts); Chagnon, 1917: 230 (distr.); Gibson, 1917: 150 (distr.); Britton, 1920: 266 (distr.); Rohwer, 1921: 442 (paras.); Craighead, 1923: 34, pl. 2, figs 1-2, pl. 6, fig. 9 (larva); Fall, 1926: 201 (distr.); Kirk & Knull, 1926: 21 (distr.); Leonard, 1928: 434 (distr.); Beaulne, 1932: 198 (hosts); Mank, 1934: 79 (distr.); Chagnon, 1936: 256; Doane *et al.*, 1936: 168; Chagnon, 1939: 86 (distr.); Morley, 1939: 244 (biol.); Townes, 1944: 772 (paras.); Knull, 1946: 149; Procter, 1946: 177 (distr.); Craighead, 1950: 268 (biol.); Howden & Vogt, 1951: 591 (hosts); Belyea, 1952: 325 (hosts); Duffy, 1953: 259, fig. 121 (larva); Gardiner, 1957: 249, figs 1, 10, 15; Townes & Townes, 1960: 109, 159, 375 (paras.); Linsley, 1962: 89; Roff, 1967: 27 (hosts); Ross, 1968: 12 (biol.); Ross & Vanderwal, 1969: 10, figs. 1-5; Baker, 1972: 199; Swan & Papp, 1972: 444; Gosling, 1973: 68, fig. 10 (biol.); Raske, 1973: 745, figs 1-6; Furniss & Carolin, 1977: 293 (hosts); Chemsak, Linsley & Noguera, 1992: 25 (cat.); Monné, M.A., 1994: 25 (cat.); Monné, M.A., & Giesbert, 1994: 23 (checklist); Chemsak, 1996: 42; Yanega, 1996: 44, pl. 2, fig. 21; Androw & Keeney, 1999: 2 (distr.); Vlasák & Vlasakova, 2002: 209 (distr., hosts); Webster, McCorquodale & Majka, 2009: 291 (distr.); Costello, Jacobi & Negrón, 2013: 151 (hosts); Webster, 2016: 486; Goczal, Sweeney & Tofilskim 2017: 497, fig. 3 (morph.); Bousquet, Laplante, Hammond & Langor, 2017: 85, pl. 15

*Tetropium cinnamopterum cinnamopterum*; Chemsak, 1996: 43, pl. 2, fig. 11; Linsley & Chemsak, 1997: 443 (hosts); Monné, M.A. & Hovore, 2006: 24 (checklist);

*Criomorpha cinnamopterus*; Mannerheim, 1853: 247.

## 4. *Tetropium fuscum* (Fabricius, 1787)

**Syntypes locality** - Syntypes: Germany, Saxe-Anhalt: Halle. (ZMUC). **Distribution** - Europe, introduced in Canada. **Host plants** - *Abies* sp., *Picea abies* Linné, *P. excelsa* Link,

*P. glauca* (Moench) Voss, *P. mariana* Britton, Sterns & Poggenburg, *P. orientalis* Carrière, *P. rubens* Sargent, *Pinus sylvestris* Linné (Pinaceae).

*Callidium fuscum* Fabricius, 1787: 154.

*Tetropium fuscum*; Smith & Hurley, 2001: 540 (distr., hosts); Silk *et al.*, 2007: 697 (pherom); Haack, Keena & Eyre, 2017: 75; Webster, 2016: 486; Haack, 2017: 120 (hosts); Hanks & Wang, 2017: 134 (biol.); Bousquet, Laplante, Hammond & Langor, 2017: 85

##### 5. *Tetropium parallelum* Casey, 1891

**Type locality** - Lectotype female: United States, Colorado. (USNBM). **Distribution** - Canada, Colorado to Arizona and New Mexico. **Host plants** - *Abies concolor* Gordon & Glen (Pinaceae).

*Tetropium parallelum* Casey, 1891: 23; Leng & Hamilton, 1896: 165; Linsley, Knull & Statham, 1961: 9 (distr.); Linsley, 1962: 91; Raske, 1973: 754; Chemsak, Linsley & Noguera, 1992: 25 (cat.); Monné, M.A., 1994: 26 (cat.); Chemsak, 1996: 45, -pl. 3, fig. 2; Heffern, 1998: 8 (distr.); Monné, M.A. & Hovore, 2006: 24 (checklist); Lingafelter *et al.*, 2014: 295, 370, fig. 127 m (lectotype); Bousquet, Laplante, Hammond & Langor, 2017: 85

##### 6. *Tetropium parvulum* Casey, 1801

**Type locality** - Holotype male: United States, Indiana. (USNM). **Distribution** - North Central States to Alaska, and Colorado. **Host plants** - *Picea engelmanni* Engelmann, *P. glauca* (Moench) Voss, *Pinus resinosa* Aiton, *P. strobus* Linné (Pinaceae).

*Tetropium parvulum* Casey, 1891: 24; Leng & Hamilton, 1896: 165; Raske, 1973: 745 (biol.); 1973: 757; Furniss & Carolin, 1977: 294 (hosts); Yanega, 1996: 44, pl. 2, fig. 22; Lingafelter *et al.*, 2014: 296, fig. 128q (holotype).

*Tetropium cinnamopterum parvulum*; Linsley, 1962: 89, fig. 33; Hatch, 1971: 98; Gosling, 1976: 158 (hosts); Chemsak, Linsley & Noguera, 1992: 25 (cat.); Monné, M.A., 1994: 25 (cat.); Monné, M.A., & Giesbert, 1994: 23 (checklist); Chemsak, 1996: 44, pl. 2, fig. 12; Linsley & Chemsak, 1997: 443 (hosts); Heffern, 1998: 7 (distr.); Monné, M.A. & Hovore, 2006: 24 (checklist);

*Tetropium parvulum*; Bousquet, Laplante, Hammond & Langor, 2017: 85

*Tetropium alaskanum* Fall, 1926: 201; Raske, 1973: 754.

**Type locality** - Holotype male: United States, Alaska: Sheep Creek on the Yukon River below Eagle. (MCZN).

##### 7. *Tetropium schwarzianum* Casey, 1891

**Type locality** - Holotype female: United States, Michigan: Marquette. (USNM). **Distribution** - Minnesota to Nova Scotia to North Carolina. **Host plants** - *Picea* sp., *Pinus resinosa* Aiton, *P. strobus* Linné (Pinaceae).

*Tetropium schwarzianum* Casey, 1891: 24; Leng & Hamilton, 1896: 165; Linsley, 1962: 89; Raske, 1973: 754; Gosling, 1973: 68 (distr.); 1986: 158 (hosts); Chemsak, Linsley & Noguera, 1992: 25 (cat.); Monné, M.A., 1994: 26 (cat.); Monné, M.A., & Giesbert, 1994: 23 (checklist); Chemsak, 1996: 94, pl. 3, fig. 1; Yanega, 1996: 44, pl. 2, fig. 19; Linsley & Chemsak, 1997: 443 (hosts); Androw & Keeney, 1999: 2 (distr.); Vlasák & Vlasakova, 2002: 209 (distr.); Morris, 2004: 209 (distr.); Monné, M.A. & Hovore, 2006: 25 (checklist); Lingafelter, 2007: 15, 139, 2 figs, pl. 3h (hosts); Webster, McCorquodale & Majka, 2009: 292 (distr.); Lingafelter *et al.*, 2014: 316, fig. 150q (holotype); Webster, 2016: 486; Klingeman *et al.*, 2017: 294 (distr.); DiGirolamo & Dodds, 2017: 410 (hosts); Bousquet, Laplante, Hammond & Langor, 2017: 85

##### 7. *Tetropium velutinum* LeConte, 1869

**Syntypes localities** - Syntypes female: Canada, British Columbia: Vancouver's Island. United States, Oregon. (MCZN). **Distribution** - Pacific Coast and northern Rocky Mountains, to southern Arizona. **Host plants** - *Abies* sp., *Larix laricina* (DuRoi) K. Koch, *L. occidentalis* Nuttall, *Pseudotsuga menziesii* (Mirbel) Franco, *P. mucronata* Rafinesque, *Tsuga heterophylla* (Rafinesque) Sargent (Pinaceae).

*Tetropium velutinum* LeConte, 1869: 382; Leng, 1884: 95; Holland, 1888: 91 (distr.); Casey, 1891: 23; Leng & Hamilton, 1896: 165; Fall, 1901: 143 (distr.); Fall & Cockerell, 1907: 191 (distr.); Garnett, 1918: 174 (distr., hosts); Rohwer, 1921: 442 (paras.); Craighead, 1923: 34, pl. 6, fig. 5, pl. 14; Essig, 1926: 450 (biol.); Hardy & Preece, 1927a: 187 (hosts); Leonard, 1928: 434 (distr.); Craighead & Middleton, 1930: 9 (biol.); Beaulne, 1932: 198 (hosts); Mank, 1934: 79 (distr.); DeLeon, 1934: 58 (hosts); Doane *et al.*, 1936: 168 (hosts); Hardy, 1942: 10 (biol.); Townes, 1944: 772 (paras.); Knull, 1946: 149, pl. 4, fig. 10; Leech, 1947: 108 (hosts); Hardy, 1948: 32 (distr.); Knowlton & Wood, 1950: 10 (distr.); Keen, 1952: 173 (biol.); Clark, 1956: 41 (distr.); Linsley, 1957: 15 (syn.); 1962: 88, fig. 33; Ross, 1967a: 23; 1967b: 25, figs 1-3; Ross, 1968: 11; Ross & Geistlinger, 1968: 14 (insecticides); Finlayson, 1969: 62 (paras.); Hatch, 1971: 97; Furniss & Carolin, 1977: 294 (hosts); Chemsak, Linsley & Noguera, 1992: 25 (cat.); Monné, M.A., 1994: 26 (cat.); Monné, M.A., & Giesbert, 1994: 23 (checklist); Chemsak, 1996: 40, pl. 2, fig. 10; Yanega, 1996: 44, pl. 2, fig. 20; Linsley & Chemsak, 1997: 443 (hosts); Heffern 1998: 8 (distr.); Monné, M.A. & Hovore, 2006: 25 (checklist); Maier, 2017: 426 (distr.); Rice, MacRae & Merickel, 2017: 669 (distr.); Bousquet, Laplante, Hammond & Langor, 2017: 85

*Tetropium columbianum* Casey, 1912: 268; Clark, 1956: 421 (distr.); Lingafelter *et al.*, 2014: 43, fig. 44 q (holotype).

**Type locality** - Holotype male: Canada, British Columbia: Inverness. (USNM).

*Tetropium hexagonum* Casey, 1924: 228; Lingafelter *et al.*, 2014: 75, fig. 80u (holotype).

**Type locality** - Holotype male: United States, California: Humboldt County. (USNM).

*Tetropium boreale* Casey, 1924: 228; Lingafelter *et al.*, 2014: 31, fig. 31o (holotype).

**Type locality** - Holotype male: United States, Idaho: Priest Lake, Bonner County. (USNM).

### **ATIMIINI LeConte, 1873**

Atimiini LeConte, 1873b: 292, 322; LeConte & Horn, 1883: 307; Leng, 1884: 61; Bradley, 1930: 228, 240; Linsley, 1939: 65 (rev.); Knull, 1946: 147; Linsley, 1962: 92; Arnett, 1962: 856; Hatch, 1971: 95; Monné, M.A., 1994: 27 (cat.); Monné, M.A., 2006: 113 (cat.); Monné, M.A. & Hovore, 2006: 25 (checklist); Bousquet, Heffern, Bouchard & Nearn., 2009: 21; Bouchard *et al.*, 2011: 465.

**Type-genus:** *Atimia* Haldeman, 1847.

**Type-species:** *Atimia tristis* Haldeman, 1847 (monotypy).

### ***Atimia* Haldeman, 1847**

*Atimia* Haldeman, 1847a: 56; 1847b: 373; LeConte, 185a: 25; Thomson, 1864: 224; 1865: 441; Lacordaire, 1868: 144; LeConte, 1873b: 322; LeConte & Horn, 1883: 307; Gahan, 1908: 144; Blatchley, 1910: 1041; Craighead, 1923: 34 (larva); Bradley, 1930: 240; Linsley, 1934a: 23; 1939: 65 (rev.); Knull, 1946: 147; Linsley, 1962: 92; Arnett, 1962: 856; Hatch, 1971: 95; Svacha & Danilevsky, 1987: 146; Monné, M.A., 2006: 113 (cat.); Monné, M.A. & Hovore, 2006: 25 (checklist); Monné, M.A., 2012: 133; Bousquet, Laplante, Hammond & Langor, 2017: 86

**Type-species** - *Atimia tristis* Haldeman, 1847 (monotypy) [= *Clytus confusus* Say, 1826].

*Myctus* Semenov & Plavilstshikov, 1937: 252.

**Type-species** - *Myctus maculipunctus* Semenov & Plavilstshikov, 1937 (original designation).

### **1. *Atimia confusa confusa* (Say, 1827)**

**Syntypes localities** - Syntypes: United States, Pennsylvania, New Jersey, N.W. Territories. (Depository unknown). **Distribution** - Eastern and central United States and Canada. **Host plants** - *Chamaecyparis thyoides* (Linné) Britton, Sterns & Poggenburg, *Cupressus* sp., *Juniperus virginiana* Linné, *Thuja occidentalis* Linné (Cupressaceae), *Taxodium distichum* (Linné) Richard (Taxodiaceae).

*Clytus confusus* Say, 1827: 276; LeConte, 1859b: 333.

*Clytus ? confusus*; Haldeman, 1847a: 41.

*Atimia confusa*; Haldeman, 1847b: 373; LeConte, 1850a: 25; Thomson, 1861a: 373; 1864: 224; Lacordaire, 1868: 145; LeConte. 1873: 322; 1879:505; Harrington, 1881: 33; LeConte & Horn, 1883: 307; Leng, 1890: 10; 1890: 110 (distr.); Packard, 1890: 809 (hosts); Schwarz, 1896: 44 (biol.); Beutenmuller, 1896: 77 (hosts); Wickham, 1897c: 169; Smith, 1900: 290 (distr.); Schwarz, 1901: 44; Fall, 1901: 247 (distr.); Ulke, 1903: 26, 50 (distr.); Smith, 1910: 329; Blatchley, 1910: 1042, fig. 443; Garnett, 1918: 211 (distr.); Craighead, 1923: 35 (larva); Kirk & Knull. 1926: 41 (distr.); Leonard, 1928: 448 (distr.); Beaulne, 1932: 203 (hosts); Davis, 1932: 213 (distr.); Linsley, 1934: 24; Doane et al., 1936: 185; Brimley. 1938: 216 (distr.); Linsley, 1939: 68, pl. 14, fig. 7; Knull, 1946: 147, pl. 4, fig. 14; Craighead, 1950: 237 (biol.); Beal, Haliburton & Knight, 1952: 112 (biol.); Linsley, 1962: 95; Baker. 1972: 198; Swan & Papp, 1972: 444, fig. 935; Gosling, 1973: 68 (distr.); Laliberté, Chantal & LaRochelle, 1977: 91 (biol.); Furniss & Carolin, 1977: 292 (hosts); Chemsak, Linsley & Noguera, 1992: 25 (cat.); Chemsak, 1996: 51; Monné, M.A. & Hovore, 2006: 25 (checklist); Lingafelter, 2007: 76, 139, 2 figs, pl. 18e (hosts); Bousquet, Laplante, Hammond & Langor, 2017: 86, pl. 15; Klingeman *et al.*, 2017: 295 (distr.)

*Atimia confusa confusa*; Linsley, 1962: 96, pl. 1, fig. 5; Turnbow & Franklin, 1980: 338 (distr.); Rice, 1981: 460 (distr., hosts); MacRae, 1993: 227 (distr.); Monné, M.A., 1994: 27 (cat.); Monné, M.A., & Giesbert, 1994: 23 (checklist); Chemsak, 1996: 53, pl. 3, fig. 4; Yanega, 1996: 44, pl. 25, fig. 284; Linsley & Chemsak, 1997: 348 (hosts); Heffern, 1998: 8 (distr.); Schiefer, 1998: 116 (distr.); Peck & Thomas, 1998: 117 (distr.); Vlasák & Vlasakova, 2002: 209 (distr., hosts); Holt, 2013: 246 (distr.); Spomer, 2014: 298, fig. 2 (distr.); Webster et al., 2016: 12 (distr., hosts).

*Atimia tristis* Haldeman, 1847: 56.

**Syntypes locality** - Syntypes: United States, Pennsylvania. (MCZN).

### 1a. *Atimia confusa maritima* Linsley, 1939

**Type locality** - Holotype male: United States, California: Coastal Central California. (CASC).

**Distribution** - United States (Coastal central California). **Host plants** - *Cupressus goveniana* Gordon, *C. macrocarpa* Hartweg ex Gordon (Cupressaceae).

*Atimia confusa maritima* Linsley, 1939: 70; Linsley, 1962: 97, pl. 1, fig. 7, fig. 34; Tyson, 1966: 202 (hosts); Swan & Papp, 1972: 445; Furniss & Carolin, 1977: 292 (hosts); Chemsak, Linsley & Noguera, 1992: 25 (cat.); Monné, M.A., 1994: 28 (cat.); Monné, M.A., & Giesbert, 1994: 23 (checklist); Chemsak, 1996: 54, pl. 3, fig. 6; Linsley & Chemsak, 1997: 349 (hosts); Monné, M.A. & Hovore, 2006: 25 (checklist);

*Atimia maritima*; Barr, 1947: 58 (hosts); Keen, 1952: 176 (hosts).

### 2. *Atimia dorsalis* LeConte, 1869

**Syntypes locality** - Syntypes: Canada, Vancouver's Island. (MCZN). **Distribution** - Pacific coast of North America, from British Columbia to the San Pedro Martir Mts. of Baja California to Utah. **Host plants**- *Calocedrus decurrens* (Torrey) Florin, *Cupressus forbesii* Jepson, *C. macrocarpa* Hartweg ex Gordon, *Juniperus* sp., *Thuja plicata* Donn ex D.Don (Cupressaceae), *Sequoia sempervirens* (D. Don) Endlicher (Taxodiaceae).

*Atimia dorsalis* LeConte, 1869: 385; 1873b: 322; Horn, 1876: 199 (distr.); LeConte & Horn, 1883: 307; Leng, 1890: 10; Horn, 1894: 339 (distr.); Fall, 1901: 147 (distr.); Wright & Coolidge, 1908: 68 (distr.); Garnett, 1918: 211 (distr.); Craighead, 1923: 34, pl. 3, fig. 4, pl. 6, fig. 2, pl. 8, fig. 5, pl. 23, fig. 5. pl. 25, figs 3, 4 (larva, hosts); Hardy, 1926: 32, pl. 4, fig. 6; Essig, 1926: 457 (hosts); Beaulne, 1932: 203 (hosts); Linsley, 1934a: 24; 1936: 199 (biol.); Doane *et al.*, 1936: fig. 94; Moore, 1937: 90 (distr.); Linsley, 1939: 70, pl. 14, fig. 4 (rev.); 1942: 28 (distr.); Leech, 1944: 30 (biol.); Hardy, 1944: 17 (distr., hosts); DeLeon, 1952: 81 (hosts); Keen, 1952: 176 (hosts); Ross, 1968: 12 (biol.); Barr & Penrose, 1969: 89 (distr.); Bousquet, Laplante, Hammond & Langor, 2017: 87, pl. 15

*Atimia confusa dorsalis*; Linsley, 1962: 96, pl. 1, fig. 6, fig. 34; Tyson, 1966: 202 (hosts); Hatch, 1971: 98, pl. 9, fig. 8; Swan & Papp, 1972: 445; Furniss & Carolin, 1977: 292 (hosts); Hovore, 1988: 27 (distr.); Chemsak, Linsley & Noguera, 1992: 25 (cat.); Napp, 1994: 277, figs 20, 75, 104, 133, 146, 147, 171, 172, 228, 241; M.A., & Giesbert, 1994: 23 (checklist); Noguera & Chemsak, 1996: 396 (cat.); Chemsak, 1996: 54, pl. 3, fig. 5 (rev.); Linsley & Chemsak, 1997: 349 (hosts); Monné, M.A., 2002: 36 (cat. hosts); Monné, M.A., 2006: 113 (cat.); Monné, M.A. & Hovore, 2006: 25 (checklist); Rice, MacRae & Merickel, 2017: 669 (distr.)

### 3. *Atimia gannoni* Hovore & Giesbert, 1974

**Type locality** - Holotype male: United States, California: Los Angeles County, Little Mt. Gleason 5 miles West of Mill Creek Summit. (CACS). **Distribution** - Southern California northward to Tuolumne Co. **Host plants** - *Calocedrus decurrens* (Torrey) Florin. (Cupressaceae).

*Atimia gannoni* Hovore & Giesbert, 1974: 139, figs 1, 3; Furniss & Carolin, 1977: 293 (hosts); Chemsak, Linsley & Noguera, 1992: 26 (cat.); Monné, M.A., 1994: 28 (cat.); Monné, M.A., & Giesbert, 1994: 23 (checklist); Chemsak, 1996: 57, pl. 3, fig. 8; Monné, M.A. & Hovore, 2006: 25 (checklist);

### 4. *Atimia helena* Linsley, 1934

**Type locality** - Holotype male: United States, California: Cypress Ridge, Marin County. (CASC). **Distribution** - Dry foothills of southern, central and northern California ; San Diego, Marin, Sonoma, Napa and Lake Counties. **Host plants** - *Cupressus forbesii* Jepson, *C. goveniana* Gordon, *C. pygmaea* Sargent, *C. sargentii* Jepson (Cupressaceae).

*Atimia helena* Linsley, 1934a: 25; Doane *et al.*, 1936: 185; Linsley & Usinger, 1936: 55 (distr.); Linsley, 1939: 72, pl. 14, fig. 5; 1962: 97, pl. 1, fig. 2; Frankie & Jensen, 1971: 287, figs 1-4 (biol.); Furniss & Carolin, 1977: 293 (hosts); Chemsak, Linsley & Noguera, 1992: 26 (cat.); Monné, M.A., 1994: 28 (cat.); Monné, M.A., & Giesbert, 1994: 23 (checklist); Chemsak, 1996: 61, pl. 3, fig. 11; Linsley & Chemsak, 1997: 349 (hosts); Monné, M.A. & Hovore, 2006: 25 (checklist);

### 5. *Atimia hoppingi* Linsley, 1939

**Type locality** - Holotype male: United States, Washington: Mt. Rainier, White R. Camp. (CASC). **Distribution** - Washington to northern California. **Host plants** - *Chamaecyparis nootkatensis* (D. Don) Spach, *Cupressus macnabiana* Andrew Murray (Cupressaceae).

*Atimia hoppingi* Linsley, 1939: 75, pl. 14, fig. 6; Keen, 1952: 176 (hosts); Linsley, 1962: 99, pl. 1, fig. 3, fig. 34; Hatch, 1971: 98, pl. 9, fig. 9; Hovore & Giesbert, 1974: 141, fig. 2; Furniss & Carolin, 1977: 293 (hosts); Chemsak, Linsley & Noguera, 1992: 26 (cat.); Monné, M.A., 1994: 28 (cat.); Monné, M.A., & Giesbert, 1994: 23 (checklist); Chemsak, 1996: 58, pl. 3, fig. 9; Linsley & Chemsak, 1997: 349 (hosts); Monné, M.A. & Hovore, 2006: 25 (checklist); Bousquet, Laplante, Hammond & Langor, 2017: 87

### 6. *Atimia huachucae* Champlain & Knoll, 1922

**Type locality** - Holotype female: United States, Arizona: Huachuca Mts. (FMNH). **Distribution** - United States (Southern Nevada, Colorado to Texas), northern Mexico

(Chihuahua). **Host plants** - *Cupressus arizonica* Greene, *Juniperus deppeana* Steudel (Cupressaceae).

*Atimia huachucae* Champlain & Knull, 1922: 148; Linsley, 1934a: 24; Doane *et al.*, 1936: 185; Linsley, 1939: 67, pl. 14, fig. 1 (rev.); Keen, 1952: 176 (hosts); Linsley, Knull & Statham, 1961: 9 (distr.); Linsley, 1962: 93, pl. 1, fig. 4, fig. 34; Chemsak, 1977: 173 (type); Furniss & Carolin, 1977: 293 (hosts); Chemsak, Linsley & Noguera, 1992: 26 (cat.); Monné, M.A., & Giesbert, 1994: 23 (checklist); Noguera & Chemsak, 1996: 396 (cat.); Chemsak, 1996: 55, pl. 3, fig. 7 (rev.); Linsley & Chemsak, 1997: 349 (hosts); Heffern, 1998: 8 (distr.); Monné, M. A., 2002: 36 (cat. hosts); Monné, M.A., 2006: 113 (cat.); Monné, M.A. & Hovore, 2006: 25 (checklist); Noguera & Gutierrez, 2016: 657 (distr.)

#### 7. *Atimia vandykei* Linsley, 1939

**Type locality** - Holotype male: United States, New Mexico: Fort Wingate. (CASC).

**Distribution** - New Mexico to California. **Host plants** - *Juniperus occidentalis* Hooker (Cupressaceae).

*Atimia vandykei* Linsley, 1939: 74, pl. 14, fig. 8; 1962: 98, pl. 1, fig., 1, fig. 34; Furniss & Carolin, 1977: 293 (hosts); Cope, 1984: 28 (hosts); Chemsak, Linsley & Noguera, 1992: 26 (cat.); Monné, M.A., 1994: 28 (cat.); Monné, M.A., & Giesbert, 1994: 23 (checklist); Chemsak, 1996: 59, pl. 3, fig. 10; Linsley & Chemsak, 1997: 349 (hosts); Monné, M.A. & Hovore, 2006: 25 (checklist);

#### *Paratimia* Fisher, 1915

*Paratimia* Fisher, 1915: 78; Bradley, 1930: 240; Linsley, 1939: 77; Arnett, 1962: 856, 876; Linsley, 1962: 99; Hatch, 1971: 95; Monné, M.A., 1994: 29; Chemsak, 1996: 62; Monné, M.A. & Hovore, 2006: 25 (checklist);

**Type-species** - *Paratimia conicola* Fisher, 1915 (original designation).

#### 1. *Paratimia conicola* Fisher, 1915

**Type locality** - Holotype male; United States, California: Monumental Mines. (USNM).

**Distribution** - United States (Coast Range Mts. of Oregon and California). **Host plants** - *Pinus contorta* Douglas ex Loudon, *P. tuberculata* Gordon (Pinaceae).

*Paratimia conicola* Fisher, 1915: 78; Rohwer, 1921: 451 (paras.); Craighead, 1923: 35, pl. 6, fig. 7, pl. 40, figs 6, 7; Essig, 1926: 795 (paras.); Doane *et al.*, 1936: 185, fig. 95; Linsley, 1939: 78, pl. 14, fig. 2; Townes, 1944: 773 (paras.); Keen, 1952: 23 (biol.); Ruckes, 1959: 134 (biol.); Townes & Townes, 1960: 384 (paras.); Linsley, 1962: 100, pl. 1, fig. 8; Hatch, 1971: 98; Chemsak, 1972: 150 (hosts); Furniss & Carolin, 1977: 293 (biol.); Chemsak, Linsley & Noguera, 1992: 26 (cat.); Monné, M.A., 1994: 29 (cat.); Monné, M.A., & Giesbert, 1994: 23 (checklist); Chemsak, 1996: 63, pl. 3, fig. 12; Linsley & Chemsak, 1997: 415 (hosts); Monné, M.A. & Hovore, 2006: 25 (checklist); Lingafelter *et al.*, 2014: 44, fig. 46g (holotype); Haack, 2017: 114 (hosts)

#### SAPHANIINI Gistel, 1848

Saphanidae Gistel, 1848: (8).

Saphanites; Fairmaire, 1868: 127.

Saphanides; Lacordaire, 1869: 211.

Saphanini; Aurivillius, 1912: 23; Bouchard *et al.*, 2011: 465.

**Type-genus**: *Saphanus* Audinet-Serville, 1834.

**Type-species**: *Callidium spinosum* Fabricius, 1792 (= *Callidium piceum* Laicharting, 1784) (monotypy).

Michthysomini LeConte, 1873b: 332. Comment: incorrect original stem formation, not in prevailing usage.

Michthysomini; LeConte & Horn, 1883: 317; Leng & Hamilton, 1896: 103.

Michthysomini; Linsley, 1962: 101; Arnett, 1962: 856.

**Type-genus**: *Michthysoma* J. L. LeConte, 1850 [as *Michthysoma*, incorrect subsequent

spelling of type genus name, not in prevailing usage].

**Type-species:** *Michthisoma heterodoxus* LeConte, 1850 (monotypy).

***Michthisoma* LeConte, 1850**

*Michthisoma* LeConte, 1850a: 30; Thomson, 1861a: 229; Linsley, 1962: 101; Arnett, 1962: 856; Monné, M.A., 1993: 1 (cat.).

*Michthisoma*; Thomson, 1864: 131; Leng in Hamilton, 1896: 103; Davis & Leng, 1912: 13; Craighead, 1923: 103; Bradley, 1930: 228; Linsley, 1959: 127.

**Type-species** - *Michthisoma heterodoxus* LeConte, 1850 (monotypy).

**1. *Michthisoma heterodoxum* LeConte, 1850**

**Type locality** - Holotype: United States, Georgia: Yona Mountain (near the top). (MCZN).

**Distribution** - United States (Mountains of North Carolina to Georgia). **Host plants** - *Castanea* sp., *Quercus* sp. (Fagaceae), *Tilia* sp. (Malvaceae).

*Michthisoma heterodoxum* LeConte, 1850a: 30; Linsley, 1962: 102; Perry, 1977: 97 (distr.); Turnbow & Franklin, 1980: 338 (distr.); Chemsak, Linsley & Noguera, 1992: 26 (cat.); Monné, M.A., 1993: 1 (cat.); Monné, M.A., & Giesbert, 1994: 24 (checklist); Yanega, 1996: 45, pl. 17, fig. 208; Lingafelter, 2007: 68, 147, 2 figs, pl. 16 g (hosts); Vlasák, 2014: 318 (hosts); Klingeman *et al.*, 2017: 295 (distr.)

*Michthisoma heterodoxum*; Melsheimer, 1853: 103 (cat.); Thomson, 1864: 131; LeConte, 1873b: 332; LeConte & Horn, 1883: 317; Leng, 1896: 103 (distr.); Beutenmuller, 1903: 519 (biol., distr.); Leng, 1910: 77 (distr.); Mutchler, 1912: 213 (distr.); Craighead, 1923: 103, figs (larva); Brimley, 1938: 216 (distr.); Sherman, 1946: 127 (distr.); Fattig, 1947: 27 (distr.).

**SPONDYLIDINI Audinet-Serville, 1832**

Spondylii Audinet-Serville, 1832: 123.

Spondylidae; LeConte, 1851: 99. 1873: 279.

Spondylitae; Thomson, 1860: 261; 1864: 9.

Spondylinae; LeConte & Horn, 1883: 266; Casey, 1912: 218; Linsley, 1962: 62; Arnett, 1962: 854.

Spondylini; Aurivillius, 1912: 13; Bradley, 1930: 228.

Spondylidini; Bousquet, Heffern, Bouchard & Nearn., 2009: 22; Bouchard *et al.*, 2011: 465.

**Type-genus:** *Spondylis* Fabricius, 1775.

**Type-species:** *Attelabus buprestoides* Linnaeus, 1758 designated by Latreille (1810: 431).

***Neospondylis* Sama, 2005**

*Neospondylis* Sama, 2005: 8; Monné, M.A., 2006: 114 (cat.); Monné, M.A. & Hovore, 2006: 23 (checklist); Monné, M.A., 2012: 134.

**Type-species** - *Spondylis upiformis* Mannerheim, 1843 (original designation).

*Spondylis*; LeConte, 1873b: 281; Bates, 1879: 14; LeConte & Horn, 1883: 266; Casey, 1912: 218; Bradley, 1930: 230; Linsley, 1962: 63; Arnett, 1962: 856; Napp, 1994: 272; Chemsak, 1996: 12. (not Fabricius, 1775).

**Type-species** - *Attelabus buprestoides* Linnaeus, 1758 (Thomson designation, 1864: 272).

**1. *Neospondylis upiformis* (Mannerheim, 1843)**

**Type locality** - Holotype: United States, Alaska: Sitka. (FMUH). **Distribution** - Coniferous forest of North America from Alaska southeast to the Great Lakes region, south into the Rocky Mountains and along the Pacific coast, Mexico (Durango). **Host plants** - *Picea glauca* (Moench) Voss, *Pinus contorta* Douglas ex Loudon, *P. monticola* Douglas ex D. Don (Pinaceae).

*Spondylis upiformis* Mannerheim, 1843: 304; LeConte, 1851: 99; White, 1853: 4; LeConte, 1857: 23; 1873b: 282; LeConte & Horn, 1883: 267; Harrington, 1890: 185 (distr.); Fall, 1901: 142; Fall & Cockerell, 1907: 190 (distr.); Casey, 1912: 218; Tanner, 1927: 33 (distr.); 1928: 277 (distr.); Knowlton, 1930: 56 (distr.); Beaulne, 1932: 107 (hosts); Knowlton, 1934: 86 (distr.);



- DeLeon, 1934: 57 (hosts); Mank, 1934: 79 (distr.); Doane, Van Dyke, Chamberlin & Burke, 1936: 166, fig. 80; Saalas, 1936: 54, pl. 5, fig. 38 (morphol.); Linsley, 1938: 105 (syn.); Leech, 1947: 108 (hosts); Hardy, 1948: 101 (distr.); Knowlton & Wood, 1950: 10 (distr.); Keen, 1952: 196 (hosts); Clark, 1956: 41 (distr.); Linsley, Knull & Statham, 1961: 7 (distr.); Linsley, 1962: 63, figs. 23, 24; Gardiner, 1970b: 33, figs 1-3 (larva); Hatch, 1971: 92, pl. 9, fig. 4; Gosling, 1973: 68, fig. 6 (biol.); Kirk & Balsbaugh, 1975: 97 (distr.); Laliberté, Chantal & LaRochelle, 1977: 99 (biol.); Furniss & Carolin, 1977: 290, fig. 172; Gosling, 1986: 157 (hosts); Chemsak, Linsley & Noguera, 1992: 23 (distr.); Monné, M.A., & Giesbert, 1994: 21 (checklist); Noguera & Chemsak, 1996: 396 (distr.); Chemsak, 1996: 12, pl. 1, fig. 7; Yanega, 1996: 28, pl. 1, fig. 4; Hefern, 1998: 7 (distr.); O'Neill, Fultz & Ivie, 2008: 33 (distr.).
- Spondylus upiformis*; Smith & Hurley, 2005: 448 (distr., error).
- Spandylis (Spondylis) upiformis*; Lameere, 1902b: 328 (revis.)
- Neospondylis upiformis*; Sama, 2005: 39, figs 1, 4-8, 15-17, 19, 21, 25-30, 36; Monné, M.A. & Hovore, 2006: 23 (checklist); Webster, MaCorquodale & Majka, 2009: 291 (distr.); Majka & Ogden, 2010: 12, figs 1, 2 (distr.); Webster *et al.*, 2016: 311 (distr.); Gutiérrez & Noguera, 2015: 139 (distr.); Webster, 2016: 486; Rice, MacRae & Merickel, 2017: 669 (distr.)
- Spondylis laticeps* LeConte, 1850b: 233; 1851: 99; White, 1853: 4.
- Type locality** - Holotype: United States, Michigan: Lake Superior (Eagle Harbor). (MCZN).
- Spondylis collaris* Casey, 1912: 218; Lingafelter *et al.*, 2014: 42, fig. 44c (holotype).
- Type locality** - Holotype male: United States: Utah. (USNM).
- Spondylis robustula* Casey, 1912: 219; Lingafelter *et al.*, 2014: 310, fig. 144k (holotype).
- Type locality** - Holotype male: United States, Washington State. (USNM).
- Spondylis subpubescens* Casey, 1912: 219; Lingafelter *et al.*, 2014: 328, fig. 165g (lectotype).
- Type locality** - Lectotype male: United States, California. (USNM).
- Spondylis basalis* Casey, 1912: 220; Lingafelter *et al.*, 2014: 26, fig. 26a (holotype).
- Type locality** - Holotype female: United States, Washington State (USNM).
- Spondylis parva* Casey, 1924: 226; Lingafelter *et al.*, 2014: 296, fig. 128c (holotype).
- Type locality** - Holotype female: United States, Washington: Port Columbia (Pudget Sound). (USNM).

### ***Scaphinus* LeConte, 1851**

- Scaphinus* LeConte, 1851: 100; Thomson, 1861a: 272; 1864: 272, 465; Lacordaire, 1868: 199; LeConte, 1873b: 281; LeConte & Horn, 1883: 266; Bradley, 1930: 230; Linsley, 1962: 66; Arnett, 1962: 856; Monné, M.A., 1994: 17; Chemsak, 1996: 14; Monné, M.A. & Hovore, 2006: 22 (checklist);
- Spondylis (Scaphinus)*; Lameere, 1902b: 330.
- Type-species** - *Spondylis sphaericollis* LeConte, 1847 (= *Prionus muticus* Fabricius, 1801) (monotypy).

#### **1. *Scaphinus muticus* (Fabricius, 1801)**

- Type locality** - Holotype: America Boreali. (BMNH). **Distribution** - Southeastern United States from Florida to Virginia and Arkansas. **Host plants** - *Taxodium distichum* (Linné) Richard (Taxodiaceae).
- Prionus muticus* Fabricius, 1801: 265; Zimsen, 1964: 164 (type).
- Scaphinus muticus*; Aurivillius, 1912: 15 (cat., syn.); Doane *et al.*, 1936: 266; Brimley, 1938: 210 (distr.); Loding, 1945: 113 (distr.); Sherman, 1946: 126 (distr.); Linsley, 1962: 66, fig. 24; Monné, M.A., & Giesbert, 1994: 21 (checklist);
- Spondylis sphaericollis* LeConte, 1847: 93; Perry, 1974: 215 (distr.); Turnbow & Franklin, 1980: 338 (distr.); Chemsak, Linsley & Noguera, 1992: 23 (cat.); Monné, M.A., 1994: 18 (cat.); Chemsak, 1996: 14; Yanega, 1996: 28, pl. 1, fig. 3; Linsley & Chemsak, 1997: 432 (hosts); Schiefer, 1998: 115 (distr.); Peck & Thomas, 1998: 116 (distr.); Sama, 2005: 3, 6, 9, figs 3, 23, 38; Monné, M.A. & Hovore, 2006: 22 (checklist); Holt, 2013: 246 (distr.).
- Scaphinus sphaericollis*; LeConte, 1851: 100; White, 1853: 5; Thomson, 1861a: 272; 1864: 272; Lacordaire, 1868: 199; LeConte, 1873b: 282; Lacordaire, 1876: 29, pl. 83, figs 5-5b; LeConte & Horn, 1886: 267.

*Spondylis (Scaphinus) sphaericollis*; Lameere, 1902b: 331.

**Type locality** - Holotype: United States, Georgia: Savannah. (MCZ)

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<https://doi.org/10.5962/bhl.title.1959>

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