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

MIGUEL A. MONNÉ

Museu Nacional, Universidade Federal do Rio de Janeiro, Quinta da Boa Vista, 20940-040, Rio de Janeiro, RJ, Brazil. Fellow of the Conselho Nacional de Desenvolvimento Científico e Tecnológico.
monne@uol.com.br

EUGENIO H. NEARNS

National Identification Services (NIS) USDA APHIS PPQ Plant Health Programs National Museum of Natural History, Smithsonian Institution, Washington, DC 20560 USA

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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All informations of the present catalogue were previously published, there is not unpublished data.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 is based on previously published records, supplemented by data extracted from several collections.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
pherom. - pheromones
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 Stat
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
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, Swed
USNM - National Museum of Natural History, Washington, D. C., United States.
UZIU - Uppsala University, Uppsala, Sweden.
ZMHB - Museum für Naturkunde der Humboldt-Universitat, 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 & Wollf, 2010: 138 (key gen.); Bousquet, Heffern, Bouchard & Nearns., 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 ; 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** - This species ranges from New Brunswick to central Montana and central Wyoming, south to southern Colorado, east-central Texas, and northern Florida; it is also known from one locality in southwestern Idaho. In Canada, it ranges from western New Brunswick to western Ontario. The species is adventive and is established in Germany. **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 bunneus 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 (itroduction); 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; Staines, 2008: 147 (distr.);

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); Guarnieri, 2009: 14 (distr.); Guarnieri, 2010: 23 (distr.); Webster, McCorquadale & Majka, 2009: 291; Bouyer, Drumont & Santos-Silva, 2012 : 97; Biffi & Fuhrmann, 2013: 13; Holt, 2013: 242; Bouchard, 2014: 543; Handley *et al*., 2015: 254 (pherom.) ; Klingeman *et al*., 2017: 294; Bousquet. Laplante, Hammond & Langor, 2017: 18, pl. 1; Haack. Keena & Eyre, 2017: 76; 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 – 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
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 & Nearns, 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., 1995: 16 (cat.); Chemsak, 1996: 89, fig. 11; Linsley & Chemsak, 1997: 373 (hosts)
Trichocnemis´pauper; Swift, Santos-Silva & Nearns, 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) In Canada, it occurs in the southern part of British Columbia. **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 & Nearns, 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.

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., 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* Engelmann ex Rothrock, *P. engelmanni* Carr. var. *blancoi* Martínez, *P. latifolia* H. Mayr, *P. leiophylla chihuahuana* (Engelmann) 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.); 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., 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

Macrotomitae 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 & Nearns, 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

Archetypi Lameere, 1912b: 180.

Archetypina; Bousquet, Heffern, Bouchard & Nearns., 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.); 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.); 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 Garcia & Trujillo Anaya, 2004: 105 (distr.); Monné, M.A., 2006: 61 (cat.); Peck, 2005 : 165 (distr.); 2006: 191 (distr.); Hovore, 2006: 371 (distr.); 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.

Stongylaspis 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 & Nearns., 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., 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 illinoinensis* (Wagenheim) K.Koch, *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);

Stenodontes melanopus; Herrick. 1935: 219;

Archodontes (Mallodon) melanopus; Craighead, 1950: 252

Archodontes melanopus melanopus; Linsley. 1962: 16; Turnbow & Franklin, 1980: 338; 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; 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 simplicicolle Haldeman, 1847a: 30
Type locality – Syntypes female: United States. (MCZH)
Mallodon simplicicolle 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.); 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.).

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 serratulus; 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; Chemsak, 1996: 74, pl. 4, figs 5, 6; Linsley & Chemsak, 1997: 345 (hosts); Monné, M.A., 2006: 46 (cat.).
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).

Sténodontines 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.); 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 dasystomus dasystomus* (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 dasystomus Say, 1824: 326; 1835: 193; LeConte, 1859b: 184, 663.
Mallodon dasystomus; 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); Spikes *et al*., 2010: 1 (pherom.);Mankin *et al*., 2018: 321 (biol.).
Aplagiognathus dasystomus; Thomson, 1861a: 320; 1867c: 91.
Stenodontes (Mallodon) dasystomus dasystomus; Lameere, 1902c: 77.
Stenodontes (Mallodon) dasystomus; Hatch & Ortenburger, 1930: 14 (distr.); Craighead, 1950: 252 (biol.); Gilmour, 1954: 7 (distr.); Franz, 1954: 216 (distr.); Duffy, 1960: 62 (larva, pupa).
Stenodontes dasystomus; 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.); 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 dasystomus dasystomus; 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.).

Mallodon dasystomus; 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) dasystomus 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 dasystomus 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.); Noguera & Chemsak, 1996: 396 (cat.).
Mallodon dasystomus 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; 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.); Chemsak, 1996: 83, pl. 5, figs 5, 6; Linsley & Chemsak, 1997: 434 (hosts); 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.); Santos-Silva, Swift & Nearns, 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 (Asteraceae), *Bursera* sp. (Burseraceae), *Parkinsonia*

torreyana S. Watson (Caesalpiniaceae), *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.); Noguera *et al*., 2009: 87 (distr.); Noguera *et al*., 2007: 310 (distr.); Santos-Silva, Swift & Nearns, 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.).

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; 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.); 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.); Santos-Silva, Swift & Nearns, 2010: 19, figs5, 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).

MEROSCELISINI Thomson, 1861

Meroscelisitae Thomson, 1861a: 285, 299; 1864: 279.

Meroscélisides; 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 & Nearns., 2009: 19; Bouchard *et al*., 2011: 459.

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

Type-species: *Meroscelisus violaceus* Audinet-Serville, 1832 (monotypy).

Aegosomitae Thomson, 1861a: 308 (*partim*).

Orthosomitae Thomson, 1864: 284 (*partim*).
Tragosomitae 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).
Clostérides 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., 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; 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; 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, 14ª; 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, nymphe). Galileo, 1987: 177, figs; Chemsak, Linsley & Noguera, 1992: 22 (cat.); Monné, M.A., 1995: 65 (cat.); Chemsak, 1996: 130, pl. 9.figs 10,11; 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* sp. (Pinaceae)

Tragosoma soror Laplante, 2017: 4, figs 1-3; Bousquet, Laplante, Hammond & Langor, 2017: 31, fig. 14

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 depsatium race *spiculum*; Schaeffer & Leng, 1912: 213
Tragosoma chiricahuae Linsley, 1959: 127; Linsley, Knull & Statham, 1961: 7, fig. 3 (distr.); Linsley, 1962: 57; Ruette, 1970: 22 (paratype); Lewis, 1979: 22 (distr.); Galileo, 1987: 180, figs; Chemsak. Linsley & Noguera, 1992: 22 (cat.); Monné, M.A., 1995: 64 (cat.); Chemsak, 1996: 128, pl. 9, figs 8, 9; Linsley & Chemsak, 1997: 446 (hosts); Heffern 1998: 7 (distr.)

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).

Cyrthognathitae Thomson, 186a1: 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, 18

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.); 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. 1995: 46; Browne & Peck, 1996: 2158; Chemsak, 1996 : 99, pl. 6, figs 7, 8 ; Linsley & Chemsak, 1997 : 364 ; Peck & Thomas, 1998 : 116 ; 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 (Caesalpiniaceae), *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.); 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.); 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 (dustr.); 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.); 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.); 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; Bousquet, Laplante, Hammond & Langor, 2017: 29;

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

1. *Orthosoma brunneum* (Forsterm 1771)

Type locality - Type: America Septentrionali (LSUK). **Distribution.** Southeastern Canada, Nova Scotia to western Ontario, 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, *Tsuga canadensis* (Linnaeus) Carriere)Pinaceae).

Cerambyx brunneus Forsterm 1771: 37;

Cerambyx (Lamia) brunnus 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., 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; Staines, 2008: 147 (distr.); Guarnieri, 2009: 14 (distr.); Guarnieri, 2010: 23 (distr.); Webster, MacCorquoale & Majka. 2009: 201; Holt, 2013: 243; Steury & MacRae, 2014: 9; Vlasák, 2014: 317; Handley *et al.,* 2015: 254 (pherom.); Klingeman *et al*., 2017: 294; Bousquet. Laplamte, Hammond & Langor, 2017: 29, pl. 1; Heffern, Vlasák & Alten, 2018: 740

Derobrachus (Orthosoma) brunneum; Lameere. 1913: 65; Hatch, 1925: 579;

Cerambyx unicolor Drury, 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 - Hiolotype: 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

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

Orthosoma brunneus amplians; 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., 2012: 132; Santos-Silva, Nearns & 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.).

Prionus (Prionellus) Casey, 1924: 209.

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

Type-species - *Cerambyx laticollis* Drury, 1773 (Santos-Silva, Nearns & 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 exMarshall, *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 (b iol.); 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.); Bechtel, Hanks & Rust, 1993: 474 (distr.); 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, Cervantes, Lacey & Hanks, 2006: 623 (biol.); Rodstein *et* al., 2009: 590 (pherom.); 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

Prionus (Prionus) californicus; Casey, 1912: 242; 1924: 216; Linsley, 1962: 41, figs 13, 14; Hatch, 1971: 93, pl. 9, fig. 2; Monné, M.A., 2006: 84 (cat.); Santos-Silva, Nearns & 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 & Tagestad, 1976: 31; Turnbow & Franklin, 1980: 347

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

Prionus (Prionus) fissicornis; Santos-Silva, Nearns & 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; Santos-Silva, Nearns & 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); Staines, 2008: 147 (distr.); Steury & MacRae, 2014: 9 (distr.); Dutcher & Bactawar, 2016: 199 (biol.)

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., 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, Nearns & 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*; Knull, 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 uknown). **Distribution** - Southern Canada and eastern United States to Oklahoma and South Dakota. In Canada, it occurs only in the Mixedwood Plains of southern Quebec and southern Ontario. **Host plants** – *Castanea* sp., *Quercus* sp (Fagaceae), *Malus* sp (Rosaceae), *Populus* sp. (Salicaceae)

Cerambyx laticolis 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; Smith, 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; Staines, 2008: 147 (distr.); Guarnieri, 2009: 14 (distr.); Guarnieri, 2010: 23 (distr.); Holt, 2013: 243; Staury & MacRae, 2014: 9; Handley *et al*., 2015: 254 (pherom.); Dutcher & Bactawar, 2016: 199 (biol.); Santos-Silva, Nearns & Swift, 2016: 37, figs; Klingeman *et al*, 2017: 294; Haack, Keena & Eyre, 2017; 74; Bousquet, Laplante, Hammond & Langor, 2017: 30, pl. 1; Agnello, Huether, Gilrein & Jentsc, 2018: 45 (distr.); Hanks & Wang. 2019: 32

Prionus (Prionus) laticollis. Casey, 1912: 234

Priomus (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) kempi 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; Santos-Silva, Nearns & Swift, 2016: 74, figs 49-51, 130-132 (lectotype).

7. *Prionus pocularis* Dalman, 1817

Type locality - Holotype: United States, Georgia (NHRS). **Distribution** - This species ranges from southwestern Quebec to southeastern Minnesota, south to east-central Texas and southern Florida . In Canada, it is known only from the Ottawa valley region in southwestern Quebec to southern Ontario. **Host plants** - *Pinus* sp (Pinaceae)

Prionus pocularis Dalman, 1817: 148; Haldeman, 1847a: 31; White. 1853: 17; Lacordaire, !868: 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 & Knull, 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; Guarnieri, 2010: 24 (distr.); Bousquet, Laplante, Hammond & Langor, 2017: 30, pl. 2

Prionus (Prionus) pocularis; Casey, 1912: 238; 1924: 213; 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, Masachusetts (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; Santos-Silva, Nearns & 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., 1995: 56 (cat.); Chemsak, 1996: 117, pl. 8, figs 3,4; Santos-Silva Nearns & 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., 1995: 56 (cat.); Chemsak, 1996: 118, pl. 8, figs 5, 6; Heffern, 1998: 8; Santos-Silva, Nearns & Swift, 2016: 12, figs 1-4; 83-86

Prionus innocuous LeConte, 1862: 43. Lacordairem 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 (holotxype)

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

3. *Prionus (Homaesthesis) geminus* Santos-Silva, Nearns & 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, Nearns & 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, *Chrysoythamnus 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

Homaesthesis integra; LeConte, 1873b: 288; LeConte & Horn, 1883: 273; Casey, 1912: 253

Homaesthesis 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 (Homaesthesis) 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., 1995: 56 (cat.); Heffern, 1998: 6; Santos-Silva, Nearns & Swift, 2016: 12, figs 79-82; Rice, MacRae & Merickel, 2017: 669 (distr.)

5. *Prionus (Homaesthesis) 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 (Homaesthesis) palparis; Linsley. 1962: 58; Hovore & Turnbow, 1984: 4; Chemsak, Linsley & Noguera, 1992: 22; Monné,M.A., 1995: 57; Chemsak, 1996: 126, pl. 6, figs 9.10; Heffern, 1998: 6; Santos-Silva, Nearns & Swift, 2016: 22, figs 9-11, 75-76

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

Prionus (Homaesthesis) 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

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

Prionus (Homaesthesis) linsleyi Hovore, 1981; 455, fig. 2; Hovore & Turnbow, 1984: 4; Chemskak, 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 (Homaesthesis) 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 (Homaesthesis) spinipennis Hovore & Turnbow, 1984: 1, figs 2, 4; Chemsak, Linsley & Noguera, 1992: 23 (cat.); Monné, M.A., 1995: 57 (cat.); Chemsak, 1996: 121, pl. 8, figs 11, 12; Santos-Silva, Nearns & Swift, 2016: 12, figs 14-14. 69-72

SPONDYLIDINAE Audinet-Serville, 1832

Spondylii 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 & Nearns., 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; Knull, 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. In Canada, it is known from central

Saskatchewan to Vancouver Island, north to central Yukon Territory. **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.); 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.); 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.** From eastern Newfoundland to central Alaska, south to southwestern British Columbia, the Rocky Mountains of eastern Arizona, Missouri. **Host plants** - *Picea* sp., *Pinus rigida* Miller, *Pinus strobus* Linnaeus (Pinaceae).

Criocephalus foveicollis Haldeman, 1847a: 35.

Arhopalus foveicollis; Linsley, 1957: 11 (syn.); 1962: 70, fig. 26; Gosling, 1973: 68, fig. 7 (biol., distr.); Stein & Tagestad, 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.); 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.); Lingafelter, 2007: 15, 138, 2 figs, pl. 3d (hosts); 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 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., 2006: 109 (cat.); 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).

4. *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., 2006: 110 (cat.).

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

5. *Arhopalus obsoletus* (Randall, 1838)

Type locality - United States, Maine. (Depository unknown). **Distribution** - This species ranges from Nova Scotia to southeastern Minnesota, south to southeastern Oklahoma and central Georgia; it is also recorded from Honduras, Mexico and Guatemala. It is known in Canada only from the Maritimes and southern Ontario. **Host plants** - *Pinus banksiana* Lambert, *P. pseudo-strobus* Lindley, *P. sylvestris* Linnaeus, *P. tenuifolia* Bentham (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., 2006: 110 (cat.); Hovore, 2006: 371 (distr.); Guarnieri, 2010: 20 (distr.); Holt, 2013: 246 (distr.); Spomer, 2014: 298 (distr.); Webster *et al*., 2016: 112 (hosts); Klingeman *et al*;. 2017: 295 (distr.)

Arhopalus obsoletus; 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).

6. *Arhopalus productus* (LeConte, 1850)

Type locality – Holotype: United States, Oregon. (MCZN). **Distribution** - Pacific coast of North America from British Columbia (southeastern Saskatchewan to the west coast of Vancouver Island, north to central Alberta), south to Baja California and Rocky Mountains, 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., 2006: 109 (cat.); Hovore, 2006: 371 (distr.); 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).

7. *Arhopalus rusticus rusticus* (Linnaeus, 1758)

Syntypes locality – Syntypes: Suecia. (UZIU). **Distribution** - Europe, Paleartic 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; Chemsak. 1996: 23; Di Iorio, 2004d: 664 (distr.); Turienzo, 2007: 321 (hosts, distr.); Handley *et* al., 1995: 254 (pherom.); 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).

Liasemum 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 (southern Quebec), Atlantic Coast from Massachusetts to Georgia and Louisiana. **Host plants** - *Pinus strobus* Linnaeus (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., 1994: 22 (cat.); Chemsak, 1996: 36, pl. 2, fig. 8; Yanega, 1996: 44, pl. 2, fig. 18; Schiefer, 1998: 116 (distr.); Vlasák & Vlasakova, 2002: 209 (distr.); 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 (British Columbia, as far north as the Prince George area) (Map 104), coniferous forests of Oregon and California to Mexico (Baja California). **Host plants** - *Pinus contorta* Douglas ex Loudon, *P.*

coulteri D. Don, *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.); 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.).; 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, 190

4: 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.); Chemsak, 1996: 33, pl. 2, fig. 6; Linsley & Chemsak, 1997: 346 (hosts): 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. In North America, it ranges from east-central Alaska to eastern Newfoundland, south to southern Florida, Texas, and southern California. **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* Linnaeus, *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* Linnaeus, *P. sylvestris* Linnaeus, *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.); 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.); Lingafelter, 2007: 15, 139, 2 figs, pl. 3c (hosts);Webster, McCorquodale & Majka, 2009: 221 (distr.); Guarnieri, 2009: 14 (distr.); Guarnieri, 2010: 20 (distr.); Holt, 2013: 246 (distr.); Handley *et* al., 2015, 254 (pherom.) ; 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: Rusia, Siberia. (ZMUM).

Asemum amurense Kraatz, 1879: 97.

Syntypes locality - Syntypes: Rusia, 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 Superio. (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, Mandchuria, Prov. Girin: Chandaochedzy. (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: Digoin. (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., 2012: 133.

Type-species - *Megasemum quadricostulatum* Kraatz, 1879 (monotypy)

1. *Megasemum asperum* (LeConte, 1854)

Syntypes locality – Syntypes: United States, Oregon: Prairie Paso. (MCZN). **Distribution** - From west-central British Columbia to central Saskatchewan, north to the southern edge of Great Slave Lake in the Northwest Territories, southern California 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.); 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.); 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., 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 - *Callidum aulicum* Fabricius, 1775 (monotypy).

1. *Tetropium abietis* Fall, 1912

Syntypes locality - Syntypes male and female: United States, California: Fresno County, Huckleberry Meadow. (MCZN), **Distribution** - From west-central British Columbia south to southern California and northern Idaho. **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 (latva); 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); Ruette, 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.); Chemsak, 1996: 39, pl. 2, fig. 9; Linsley & Chemsak, 1997: 443 (hosts); 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.); Noguera & Chemsak, 1996: 396 (cat.); Monné, M.A., 2006: 112 (cat.); Gutiérrez & Noguera, 2015: 138 (distr.).

3. *Tetropium cinnamopterum* Kirby, 1837

Syntypes locality – Syntypes: America Borealis, Latitude 65 degres. (BMNH). **Distribution** - This species ranges from eastern Newfoundland to western Alaska, south to southern British Columbia, southwestern Montana, the Black Hills in western South Dakota, and the Appalachian Mountains in North Carolina. **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.); Chemsak, 1996: 42; Yanega, 1996: 44, pl. 2, fig. 21; Androw & Keeney, 1999: 2 (distr.); Vlasák & Vlasakova, 2002: 209 (distr., hosts); Silk *et al*., 2007: 697 (pherom); Webster, McCorquodale & Majka, 2009: 291 (distr.); Silk *et al* .,2011: 714 (pherom.); Costello, Jacobi & Negrón, 2013: 151 (hosts); 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).

Criomorphus cinnamopterus; Mannerheim, 1853: 247.

4. *Tetropium fuscum* (Fabricius, 1787)

Syntypes locality - Syntypes: Germany, Saxe-Anhat: Halle. (ZMUC). **Distribution** - Europe, introduced in Canada and found throughout the central part of the Nova Scotia peninsula and in southern New Brunswic. **Host plants** - *Abies* sp., *Picea abies* Linnaeus, *P. excelsa* Link, *P. glauca* (Moench) Voss, *P. mariana* Britton, Sterns & Poggenburg, *P. orientalis* Carrière, *P. rubens* Sargent, *Pinus sylvestris* Linnaeus (Pinaceae).

Callidium fuscum Fabricius, 1787: 154.

Tetropium fuscum; Smith & Hurley, 2001: 540 (distr., hosts); Silk *et al*., 2007: 697 (pherom); 2010: 1997; Lemay, Silk & Sweeney, 2010: 256; Flaherty, Sweeney, Pureswaran & Quiring, 2011: 1200; Silk *et al* .,2011: 714 (pherom.); Haack, Keena & Eyre, 2017: 75; 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** – From west-central Alberta to New Mexico and Arizona. In Canada, it is known from along the Rocky Mountains in Alberta and from the Cypress Hills in southeastern Alberta and southwestern Saskatchewan. **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.); 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** - This species ranges from the coast of Labrador to the west coast of Alaska, south to Colorado, northern Minnesota, the Upper Peninsula of Michigan, and along Lac Erie in southern Ontario. **Host plants** - *Picea engelmanni* Engelmann, *P. glauca* (Moench) Voss, *Pinus resinosa* Aiton, *P. strobus* Linnaeus (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.); Chemsak, 1996: 44, pl. 2, fig. 12; Linsley & Chemsak, 1997: 443 (hosts); Heffern, 1998: 7 (distr.).

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** - From Nova Scotia to Minnesota, south to northern Georgia along the Appalachian Mountains. In Canada, it occurs from the Nova Scotia peninsula to the southern edge of Lake Superior in Ontario. **Host plants** - *Picea* sp., *Pinus resinosa* Aiton, *P. strobus* Linnaeus (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.); 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.); Lingafelter, 2007: 15, 139, 2 figs, pl. 3h (hosts); Webster, Guarnieri, 2009: 16 (distr.); McCorquodale & Majka, 2009: 292 (distr.);

Lingafelter *et al*., 2014: 316, fig. 150q (holotype); 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** - Central Alaska to southeastern Arizona along the Rockies and to central California. In Canada, it is known from west-central Yukon Territory to southern British Columbia, including Vancouver Island, east to southern Saskatchewan. **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.); Chemsak, 1996: 40, pl. 2, fig. 10; Yanega, 1996: 44, pl. 2, fig. 20; Linsley & Chemsak, 1997: 443 (hosts); Heffern 1998: 8 (distr.); 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.); Bousquet, Heffern, Bouchard & Nearns., 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., 2012: 133; Bousquet, Laplante, Hammond & Langor, 2017: 86

Type-species - *Atimis 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** - New Brunswick to north-central Colorado, south to southern Texas and northern Florida. In Canada, it is known from one locality in southwestern New Brunswick and from the Lower Great Lakes/St. Lawrence Lowland region in southern Quebec and southern Ontario. **Host plants** - *Chamaecyparis thyoides* (Linnaeus) Britton, Sterns & Poggenburg, *Cupressus* sp., *Juniperus virginiana* Linnaeus, *Thuja occidentalis* Linnaeus (Cupressaceae), *Taxodium distichum* (Linnaeus) 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; 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.); 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.); Chemsak, 1996: 54, pl. 3, fig. 6; Linsley & Chemsak, 1997: 349 (hosts).

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. In British Columbia, it occurs over most of the southern half of the province, including Vancouver Island, as far north as the Skeena River area. **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; 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.); 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.); Chemsak, 1996: 57, pl. 3, fig. 8.

4. *Atimia helenae* 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 Count4es. **Host plants** -

Cupressus forbesii Jepson, *C. goveniana* Gordon, *C. pygmaea* Sargent,*C. sargentii* Jepson (Cupressaceae).

Atimia helenae 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.); Chemsak, 1996: 61, pl. 3, fig. 11; Linsley & Chemsak, 1997: 349 (hosts).

5. *Atimia hoppingi* Linsley, 1939

Type locality- Holotype male: United States, Washington: Mt. Rainier, White R. Camp. (CASC). **Distribution** - This species ranges from southern British Columbia to northern California. In British Columbia, from Vancouver Island and the Lower Mainland. **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.); Chemsak, 1996: 58, pl. 3, fig. 9; Linsley & Chemsak, 1997: 349 (hosts); Bousquet, Laplante, Hammond & Langor, 2017: 87

6. *Atimia huachucae* Champlain & Knull, 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.); 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.); 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.); Chemsak, 1996: 59, pl. 3, fig. 10; Linsley & Chemsak, 1997: 349 (hosts).

***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

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.); Chemsak, 1996: 63, pl. 3, fig. 12; Linsley & Chemsak, 1997: 415 (hosts); 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.

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

Type-genus: *Michthisoma* 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.).

Michthysoma; 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.); 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.)

Michthysoma 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 & Nearns., 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., 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: Sitkha. (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.); 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; 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.); 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.

Spondylis (Scaphinus); Lameere, 1902b; 330.

Type-species - *Spondylis sphæricollis* 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* (Linnaeus) 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;

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; 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. (MCZN).

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