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A CATALOG OF THE COLEOPTERA OF AMERICA NORTH OF MEXICO

FAMILY: CURCULIONIDAE
SUBFAMILIES: ACICNEMIDINAE,
COSSONINAE, RHYTIRRHININAE,
MOLYTINAE, PETALOCHILINAE,
TRYPETIDINAE, DRYOPHTHORINAE,
TACHYGONINAE, THECESTERNINAE

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UNITED STATES
DEPARTMENT OF
AGRICULTURE

AGRICULTURE
HANDBOOK
NUMBER 529-143g

PREPARED BY
AGRICULTURAL
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SERVICE

FAMILIES OF COLEOPTERA IN AMERICA NORTH OF MEXICO

<i>Fascicle¹ Family</i>	<i>Year issued</i>	<i>Fascicle¹ Family</i>	<i>Year issued</i>	<i>Fascicle¹ Family</i>	<i>Year issued</i>
1 Cupedidae	1979	46 Callirhipidae		102 Biphyllidae	
2 Micromalthidae	1982	47 Heteroceridae	1978	103 Byturidae	1991
3 Carabidae		48 Limnichidae	1986	104 Mycetophagidae	
4 Rhysodidae	1985	49 Dryopidae	1983	105 Ciidae	1982
5 Amphizoidae	1984	50 Elmidae	1983	107 Prostomidae	
6 Haliplidae		51 Buprestidae		109 Colydiidae	
8 Noteridae		52 Cebionidae		110 Monommatidae	
9 Dytiscidae		53 Elateridae		111 Cephaloidea	
10 Gyrinidae		54 Throscidae		112 Zopheridae	
13 Sphaeriidae		55 Cerophytidae		115 Tenebrionidae	
14 Hydroscaphidae		56 Perothopidae		116 Alleculidae	
15 Hydraenidae		57 Eucnemidae		117 Lagriidae	
16 Hydrophilidae		58 Telegeusidae		118 Salpingidae	
17 Georyssidae		61 Phengodidae		119 Mycteridae	
18 Sphaeritidae		62 Lampyridae		120 Pyrochroidae	1983
20 Histeridae		63 Cantharidae		121 Othniidae	
21 Ptiliidae		64 Lycidae		122 Inopeplidae	
22 Limulodidae		65 Derodontidae	1989	123 Oedemeridae	
23 Dasyceridae		66 Nosodendridae		124 Melandryidae	
24 Micropeplidae	1984	67 Dermestidae		125 Mordellidae	1986
25 Leptinidae		69 Ptinidae		126 Rhipiphoridae	
26 Leiodidae		70 Anobiidae	1982	127 Meloidae	
27 Scydmaenidae		71 Bostrichidae		128 Anthicidae	
28 Silphidae	1993	72 Lyctidae		129 Pedilidae	
29 Scaphidiidae		74 Trogositidae		130 Euglenidae	
30 Staphylinidae		76 Cleridae		131 Cerambycidae	
31 Pselaphidae	1997	78 Melyridae		132 Bruchidae	
32 Lucanidae		79 Lymexylidae		133 Chrysomelidae	
33 Passalidae		81 Sphindidae		134 Nemonychidae	1994
34 Scarabaeidae	1984	82 Nitidulidae		135 Anthribidae	
35 Eucinetidae		83 Rhizophagidae		138 Allocorynidae	1991
36 Helodidae		86 Cucujidae		140 Brentidae	
37 Clambidae		90 Cryptophagidae		141 Platypodidae	1979
38 Dascillidae		92 Languriidae	1983	142 Scolytidae	
39 Rhipiceridae		93 Erotylidae		143 Curculionidae	1983
40 Byrrhidae		94 Phalacridae		144 Stylopidae	
41 Psephenidae	1983	95 Cerylonidae	1982	145 Fossil Coleoptera	
42 Brachysectridae		96 Corylophidae		146 Ithycteridae	1994
43 Armatopidae		97 Coccinellidae			
44 Ptilodactylidae		98 Endomychidae	1986		
45 Chelonariidae		100 Lathridiidae			

¹Missing numbers are those assigned in the computer program to families not found in the United States and Canada.

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BY
CHARLES W. O'BRIEN
DEPARTMENT OF ENTOMOLOGY
FLORIDA A & M UNIVERSITY
TALLAHASSEE, FL 32307



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FOREWORD

Many species of beetles are important pests of agricultural crops, stored food products, forests, wood products and structures, and fabrics. Many other species, in contrast, are beneficial in the biological suppression of pest arthropods and weeds, as well as in the decomposition of plant detritus, animal carcasses, and dung. Part of our national responsibility to American agriculture is to provide correct identification of species of American beetles so that appropriate controls can be applied.

Most information about animal species, whether agricultural, biological, or experimental, is filed under the species' scientific names. These names are therefore the keys to retrieval of such information. Because some species have been known by several names, a complete listing of these names for each species is necessary.

For the user of scientific names an up-to-date taxonomic catalog providing currently accepted names and pertinent bibliographic and distributional data is an indispensable tool. Although taxonomic literature is constantly changing to reflect current work, the traditional published taxonomic catalog remains static with updating left to the individual user until it is revised. Production of catalogs in the past has been laborious with long printing delays resulting in data that are obsolete before being published. However, the computer now provides the capability of storing, updating, and retrieving taxonomic data; rapid publication through computer-driven typesetting machinery; and a greater degree of currentness and flexibility.

All the fascicles in this catalog of the beetles of America north of Mexico are produced by an original group of computer programs, designed and written during a pilot project by personnel of the Systematic Entomology Laboratory and the Communication and Data Services Division, Agricultural Research Service.

Floyd P. Horn
Administrator
Agricultural Research Service

PREFACE

The Coleoptera, or beetles, are represented in the world by about 220,000 described species, of which about 24,000 occur in the United States and Canada. A comprehensive taxonomic catalog of beetles for this area has not been available except the series of world-based "Coleopterorum Catalogus" volumes (1909-present, Junk, Berlin). The Leng "Catalogue of the Coleoptera of America North of Mexico" (J.D. Sherman, Jr., Mt. Vernon, NY), which was published in 1920 with supplements to the end of 1947, is a checklist. However, it has served professional and amateur alike for nearly 60 years as the principal source of scientific names of beetles. Since 1947, many new taxa have been described and many changes in status and nomenclature have appeared in numerous scattered publications, but little effort has been made to summarize these changes.

This catalog will supplant the Leng catalog and supply additional essential information. It is produced by an original suite of storage, retrieval, and printing programs written especially for automated taxonomic catalogs.

The catalog for each family is published as a separate fascicle with its introductory text, bibliography, and sequence. The publishing of separate fascicles makes data available shortly after they are assembled. Computer tapes for each fascicle are maintained for updating and necessary reprinting.

The information on each family is the responsibility of the respective author or authors. The editors modify it only to correct obvious errors and to make it conform to the requirements of the computer programs.

No original proposal for a new name, taxon, status, or classification is given, such data having been previously published, but new host and distributional data are often listed. The rules of "The International Code of Zoological Nomenclature" are followed.

The geographic scope of this catalog includes the continental United States, Canada, Greenland, and the associated continental islands. Names of taxa found only in other regions are excluded. If the range of a species extends outside these geographic limits, this fact is indicated. On (or inside of) the back cover is a map of the 12 faunal regions based on historical and faunal criteria to simplify distribution recordings. Two-letter Postal Service style abbreviations are used for States and Provinces, and faunal regions are indicated in each distribution record by a diagonal line between groups of abbreviations.

It is not the purpose of this catalog to present a complete scheme of higher classification within the order. The familial makeup is somewhat intermediate between that of R.H. Arnett in "The Beetles of the United States" (1960-62, Catholic University Press, Washington, DC) and that of R.A. Crowson in "The Natural Classification of the Families of Coleoptera" (1967, Biddles Ltd., Guildford, England). Modifications of these two systems are largely those advocated by J.F. Lawrence based in part on suggestions by taxonomic specialists for certain families.

Generic groups and higher categories within the family are arranged phylogenetically as indicated by the author of the particular fascicle, and species group names with their respective synonyms are arranged alphabetically.

Names referable to *incertae sedis* and *nomen dubium* are listed separately at the end of the nearest applicable taxon with notations as to their status.

Each available name is followed by its author, date proposed, and page number referring to the complete bibliographic citation containing the original description. Following each generic name are the type-species and method of its designation, necessary explanatory notes, and pertinent references on immature stages, taxonomy, redescription, ecology, and keys. After the specific name entry are the original genus (if different from the

present placement), type-locality, geographical distribution by State, Province, and broad extralimital units, explanatory notes, pertinent references to immature stages, taxonomy, redescription, and ecology, depository of type-specimen and its sex, and hosts.

In addition to the list under the map (on or inside of the back cover) of faunal regions, the following abbreviations are used in this catalog:

ABBREVIATIONS, GENERAL

Amer. Bor.—America Borealis	Mus.—Museum
Amer. Sept.—America Septentrionalis	N.—North
Automat.—Automatic	N. Amer.—North America
C. Amer.—Central America	Orig. des.—Original designation
Co.—County	pl.—plate
Cosmop.—Cosmopolitan	Preocc.—Preoccupied
Design.—Designated	S.—South
E.—East	S. Amer.—South America
F.—Female	ser.—series
fig.—figure	Sp.—Species
Holarc.—Holarctic	Subseq. monot.—Subsequent monotypy
Isl.—Island	Subsp.—Subspecies
M.—Male	Taut.—Tautonymy
Mex.—Mexico	Univ.—University
mi.—mile	USA—United States of America
Monot.—Monotypy	Var.—Variety
Mts.—Mountains	W.—West
	W. Ind.—West Indies

MUSEUMS IN THE UNITED STATES AND CANADA¹

AMNH—American Museum of Natural History, New York	FSCA—Florida State Collection, Gainesville
ANSP—Academy of Natural Sciences, Phila- delphia, PA	HAHC—H. & A. Howden Collection, Ottawa, Canada
BPBM—Bernice P. Bishop Museum, Honolulu	ICCM—Carnegie Museum, Pittsburgh, PA
BYUC—Brigham Young University, Provo, UT	INHS—Illinois Natural History Survey, Urbana
CASC—California Academy of Sciences, San Francisco	JGEC—J. G. Edwards Collection, San Jose, CA
CISC—University of California, Berkely	KMFC—K. M. Fender Collection, McMinnville, OR
CMNH—Carnegie Museum of Natural History	KSUC—Kansas State University, Manhattan
CNCI—Canadian National Collections, Ottawa	LACM—Los Angeles County Museum, CA
CUIC—Cornell University, Ithaca, NY	LSUC—Louisiana State University, Baton Rouge
CWOB—C. W. O'Brien Collection, Tallahassee, FL	MCZC—Museum of Comparative Zoology, Harvard University, Cambridge, MA
DHKC—D. H. Kistner Collection, Chico State College, CA	MSUC—Michigan State University, East Lansing
ELSC—E. L. Sleeper Collection, Long Beach, CA	NCSM—North Carolina State University, Raleigh
FMNH—Field Museum of Natural History, Chicago, IL	NYSM—New York State Museum, Albany

¹Abbreviations for U. S. and Canadian museums abridged from Arnett, R. H., Jr., and Samuelson, G. A., 1969, "Directory of Coleoptera Collections of North America (Canada Through Panama)," Cushing-Malloy, Ann Arbor, MI, 123 pp.

OSEC—Oklahoma State University, Stillwater
 OSUC—Ohio State University, Columbus
 OSUO—Oregon State University, Corvallis
 PMNH—Peabody Museum, Yale University,
 New Haven, CT
 PSUC—Pennsylvania State Museum, University
 Park
 PURC—Purdue University, West Lafayette, IN
 RUC—Rutgers University, New Brunswick, NJ
 SEMC—Snow Museum, University of Kansas,
 Lawrence

SJSC—San Jose State College, CA
 SLWC—S. L. Wood Collection, Provo, UT
 SSMH—Stovall Collection, University of Oklahoma,
 Norman
 TAMU—Texas A. & M. University, College Station
 UCDC—University of California, Davis
 UICM—University of Idaho, Moscow
 UMMZ—University of Michigan, Ann Arbor
 UMRM—University of Missouri, Columbia
 USNM—U.S. National Museum of Natural History,
 Washington, DC
 WSUC—Washington State University, Pullman

MUSEUMS IN FOREIGN COUNTRIES

BMNH—British Museum (Natural History),
 London
 GUHC—Glasgow University, Hunterian
 College, Scotland
 HMOX—Hope Museum, Oxford, England
 IPZE—Institut Pflanzenschutzforschung
 Zweigstelle, Eberswald, East Germany
 IRSB—Institut Royal Sciences Belgique,
 Brussels
 MFNB—Museum für Naturkunde (Humboldt),
 Berlin
 MGFT—Museum G. Frey, Tutzing, Munich,
 West Germany
 MHNL—Museum d'Histoire Naturelle, Lyon,
 France
 MNHP—Museum National d'Histoire Naturelle,
 Paris
 MNSL—Museum of Natural Sciences, Leipzig,
 East Germany
 MZBS—Museum Zoologia, Barcelona, Spain
 NHRS—Naturhistoriske Riksmuseet, Stockholm

NMPC—Narodni Museum, Prague,
 Czechoslovakia
 SCUT—Spinola College, University of Turin,
 Italy
 SMTD—Staatliches Museum für Tierkunde,
 Dresden, East Germany
 UNAM—Universidad Nacional Autonoma,
 Mexico City
 UZMC—University Zoological Museum,
 Copenhagen, Denmark
 UZMH—University Zoological Museum,
 Helsinki, Finland
 ZMAS—Zoological Museum, Academy of
 Sciences, Leningrad
 ZMPA—Zoological Museum, Polish Academy of
 Sciences, Warsaw
 ZMUL—Zoological Museum, University of
 Lund, Sweden
 ZMUM—Zoological Museum, University of
 Moscow
 ZSBS—Zoologische S a m m l u n g Bayerischen
 Staates, Munich, West Germany

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We wish to acknowledge the extensive computer-programming and editing-system support provided by members of the former Communications and Data Services Division of ARS during the early years of this project. We thank Roslyn W. Norman for typing the text for this fascicle.

Systematic Entomology Laboratory, Agricultural Research Service
U. S. Department of Agriculture, Beltsville, MD

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Family CURCULIONIDAE

Subfamilies ACICNEMIDINAE, COSSONINAE, RHYTIRRHININAE, MOLYTINAE, PETALOCHILINAE, TRYPETIDINAE, DRYOPHTHORINAE, TACHYGONINAE, and THECESTERNINAE

By C. W. O'Brien

Subfamily ACICNEMIDINAE Lacordaire, 1866

Acicnemides Lacordaire, 1866; Acicnemidinae Marshall, 1931.

This small subfamily has three genera and 204 species in the world (O'Brien and Wibmer, 1978). One of the genera has only one species, and this species has been introduced from Europe to St. Pierre Island, Newfoundland, Canada. This European species breeds in moist rotten wood of *Quercus* (Scherf, 1964). Larvae of these genera live in dead wood of many kinds of trees. Zimmerman (1967) stated that the subfamily relationships are not yet certain but that Acicnemidinae may be placed near the Hylobiinae and Cryptorhynchinae in American lists. Kuschel (1987) placed the tribe Acicnemidini in the Molytinae.

This manuscript was received May 1979 and modified April 1996.

Genus TRACHODES Germar

Trachodes Germar, 1824: 325. Type-species: *Curculio hispidus* Linnaeus (design. by Schoenherr, 1826: 260).

Metrachodes Marshall, 1948: 427. Type-species: *Trachodes hispidus* Linnaeus (orig. des.).

TAXONOMY: Zimmerman, 1967.

REDESCRIPTION: Zimmerman, 1967.

hispidus Linnaeus, 1758: 383 (*Curculio*) (introduced into North America). Europa; NF.

IMMATURE STAGES: Scherf, 1964: 170 (larvae, pupae); de Viedma, 1963: 261 (keys, description).

REDESCRIPTION: Zimmerman, 1967.

HOST: Breeds in dead hardwoods, on oak, beech, birch.

Subfamily COSSONINAE Schoenherr, 1845

Cossonides Schoenherr, 1845; Cossonidae Thomson, 1865;
Cossonidae Wollaston, 1873a; Cossoninae Blatchley and Leng, 1916.

Though not a large subfamily, the Cossoninae are found in all the biogeographic regions of the world, with 301 genera and 1,666 species known (O'Brien and Wibmer, 1978). Twenty-nine genera and 84 species are represented in the United States and Canada.

Cossonus Clairville was the first cossonine genus from North America to be described and was based on a European species (Clairville and Schellenberg, 1798). In 1831, Say described the first two North American species, *Cossonus corticola* and *C. platalea*, and a species of *Rhyncolus*. The last was the species *latinasus*, which subsequently was shown to be synonymous with Say's *Cossonus corticola*, according to Kuschel (1962). In 1873, Horn published the first major paper on North American representatives of this subfamily. Here he described several new genera and numerous new species and included keys to tribes, genera, and species. Earlier the same year, Wollaston had published his monumental monograph on the world genera of the "Cossonidae," which remains even today the definitive study of the subfamily for the world. Obviously, the group needs considerable study. It is complicated by the wide distribution of many genera and requires study on a worldwide level rather than a local level only. Wollaston's study covers 122 of the 301 world genera. In 1973, Morimoto published a very important study on the oriental genera of the Cossoninae.

Kissinger's 1964 paper on the genera of weevils of America north of Mexico is invaluable for generic identification, for providing information on the availability of specific keys, and for general and specific biological information. The following papers contain significant works on various genera, including keys: Casey (1892) (various Rhyncolini), Van Dyke (1915 and 1916) (*Cossonus*), Blatchley and Leng (1916) (eastern North American genera and species), Buchanan (1946) (*Rhyncolus*), Kuschel (1962) (*Caulophilus*), Hatch (1971) (Pacific Northwest genera and species), and Zimmerman (1974) (Acamptini).

Arnett (1963) erected the tribe Emphyastini for *Emphyastes fucicola* Mannerheim. Egorov and Korotyaev (1977) included this tribe in the subfamily Onycholipinae, but the tribe has been transferred to the Molytinae (Wibmer and O'Brien, 1989).

Anderson (1952) published an important paper on the larvae of many genera and species; it includes keys, descriptions, and many illustrations.

In this subfamily both the larvae and the adults burrow within their hosts. Many genera and species breed under bark and within the wood of a broad range of woody trees and shrubs. *Cossonus* develops under bark of conifers and hardwoods, a few in woody herbaceous plants, e.g., lupines. *Rhyncolus* is commonly collected with *Cossonus* under bark and also enters the wood of its hosts. In general, the Rhyncolini enter the woody parts of their hosts. *Himatium* frequently utilizes the galleries of *Ips* to enter the bark of pine. *Acamptus* often has been collected in galleries of *Camponotus* and various termites, and these weevils also develop communal cave-type galleries of their own in the wood of oak, poplar, and willow. In these galleries all stages of insect development may be found. *Nyssonotus seriatus* Casey develops within the pithy dead flower stalks and leaves of *Yucca*. *Apotrepus densicollis* Casey breeds in the dry scar tissue of wounds of the giant saguara cactus. Several genera breed in driftwood on ocean beaches, e.g., *Dryotribus*, *Elassoptes*, *Macrancylus*, *Macrorhyncolus*, *Mesites*, and *Pselactus*. *Hexarthrum ulkei* Horn has been taken from hardwood timbers used in buildings. An important cosmopolitan pest of stored grain products is the "broad-nosed grain weevil" *Caulophilus oryzae* (Gyllenhal).

Tribe ACAMPTINI LeConte, 1876

Acampti LeConte, 1876; Acamptina Champion, 1909; Acamptini Blatchley and Leng, 1916.

Genus ACAMPTUS LeConte

Acamptus LeConte, 1876: 238. Type-species: *Acamptus rigidus* LeConte (monot.).

Pseudacamptus Champion, 1909: 3. Type-species: *Pseudacamptus plurisetosus* Champion (orig. des.).

Glyphostethus Marshall, 1921: 595. Type-species: *Glyphostethus cancellatus* Marshall (orig. des.).

IMMATURE STAGES: Anderson, 1952: 286, 289 (larva).

REDESCRIPTION: Blatchley, 1916: 519; Zimmerman, 1974: 135, 137.

echinus Casey, 1892: 445. NY; IN/ NY.

TYPE DEPOSITORY: USNM.

rigidus LeConte, 1876: 239. "South Carolina to Texas"; ON/ IL/ MD/ TX/ TN GA SC FL.

TYPE DEPOSITORY: MCZC.

REDESCRIPTION: Blatchley, 1916: 519.

texanus Sleeper, 1954: 185 (*Pseudacamptus*). TX: Colorado Co., southeastern corner; TX; Mex.

TYPE DEPOSITORY: ELSC.

Tribe COSSONINI Schoenherr, 1845

Cossonides Schoenherr, 1845; Cossonini Redtenbacher, 1874.

Genus DRYOTRIBUS Horn

Dryotribus Horn, 1873: 432. Type-species: *Dryotribus mimeticus* Horn (monot.).
Thalattodora Perkins, 1900: 146. Type-species: *Thalattodora insignis* Perkins (monot.) =
mimeticus (Horn).

mimeticus Horn, 1873: 433. FL: Key West; SC FL; Mex., S. Amer., W. Ind.; Other: Hawaii.

TYPE DEPOSITORY: MCZC.

insignis Perkins, 1900: 146, pl. 8, figs. 1, 1a (*Thalattodora*). Hawaiian Isls.: Lanai.

TYPE DEPOSITORY: BPBM.

nagayamai Chujo and Voss, 1960: 16 (*Pentacotaster*). Japan: Isl. Ishigaki, Liukuinsin.

REDESCRIPTION: Blatchley, 1916: 525.

HOST: In and under driftwood and sea beaches; under logs on coast.

Genus APOTREPUS Casey

Apotrepus Casey, 1892: 695. Type-species: *Apotrepus densicollis* Casey (monot.).

IMMATURE STAGES: Anderson, 1952: 307, larval description, p. 287, larval mandible, fig. 10.

densicollis Casey, 1892: 695 (*Apotrepus*). AZ; AZ; Mex.

TYPE DEPOSITORY: USNM.

HOST: Reared from dry scar tissue in wounds of giant saguaro cactus.

Genus HIMATIUM Wollaston

Himatium Wollaston, 1873b: 461. Type-species: *Himatium pubescens* Wollaston (monot.).

Himatium Cockerell, 1906a: 243 (unjustified replacement name for *Himatium* Wollaston, not

Imatium Clark, 1860. Type-species: *Himatium pubescens* Wollaston (automat.).

KEYS: Blatchley, 1916: 526.

conicum LeConte, 1880: 218. VA: Pennington Gap; PA DC VA/ CT/ NC.

REDESCRIPTION: Blatchley, 1916: 527.

errans LeConte, 1876: 427. DC; NS/ IN OH/ NY PA NJ MD DC/ MA/ MS GA SC NC FL.

TYPE DEPOSITORY: MCZC.

nigritulum Casey, 1892: 691. FL.

TYPE DEPOSITORY: USNM.

parvula Blatchley, 1916: 527. FL: Ft. Myers.

TYPE DEPOSITORY: PURC.

REDESCRIPTION: Blatchley, 1916: 526.

HOST: In *Ips* galleries in *Pinus* sp., emerged indoors from branch of *Acer saccharinum*.

Genus COSSONUS Clairville

Cossonus Clairville, 1798: 58 (reference from Csiki, 1936). Type-species: *Cossonus ferrugineus* Clairville (monot.) = *parallelepipedus* (Herbst).

IMMATURE STAGES: Boeving and Craighead, 1931: 328, pl. 121; Anderson, 1952: 301; de Viedma, 1963: 261; Gardner, 1934: 33.

KEYS: Horn, 1873: 437; Van Dyke, 1915: 4; Buchanan, 1936: 111; Blatchley, 1916: 529; Hatch, 1971: 391.

americanus Buchanan, 1936: 112 (*subareatus* of authors in part, not Boheman (Buchanan, 1936)).

PQ: Duparquet; BC WA OR/ WI MI PQ/ NS NF/ CA/ CO/ AZ.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: M.

HOST: *Populus balsamifera*.

- corticola** Say, 1831: 24. "United States, Missouri and Pennsylvania"; MO/ PA.
 TYPE DEPOSITORY: Destroyed.
- latinus** Say, 1831: 30 (*Rhyncolus*) (lectotype designated by Kuschel, 1962). FL.
 TYPE DEPOSITORY: NHRS (lectotype).
- minor** Wollaston, 1873b: 627 (*Borophloeus*). "Americam borealem."
 TYPE DEPOSITORY: BMNH.
 REDESCRIPTION: Horn, 1873: 439; Blatchley, 1916: 532; Van Dyke, 1915: 21.
 HOST: Under bark of *Pinus* spp. yellow pine, and dead *Pinus taeda*.
- crenatus** Horn, 1873: 440. "Northern California and Oregon"; BC WA OR ID/ CA/ AZ NM; Mex.,
 C. Amer.
 TYPE DEPOSITORY: MCZC.
 REDESCRIPTION: Van Dyke, 1915: 20.
 HOST: Under bark of *Pinus sabiniana* Dougl., *P. ponderosa* Laws., *P. jeffreyi* Grev. and Balf., and *P. contorta* var.
Murrayana Engelm.
- ellipticollis** Van Dyke, 1915: 17. CA: Porterville; CA/ AZ.
 TYPE DEPOSITORY: CASC.
- fossicollis** Van Dyke, 1916: 78. AZ: Santa Rita Mts.; AZ; Mex.
 TYPE DEPOSITORY: USNM.
- hamiltoni** Slosson, 1899: 193. FL: Miami, Biscayne Bay; FL; W. Ind.
 REDESCRIPTION: Blatchley, 1916: 530.
 HOST: Under bark of dead *Ficus aurea*.
- hubbardi** Schwarz, 1899: 10. AZ: Tucson; AZ; Mex.
 TYPE DEPOSITORY: USNM.
 REDESCRIPTION: Van Dyke, 1916: 77.
 HOST: Dead tissue of wounded *Cereus giganteus*.
- impressifrons** Boheman, 1838: 1001. PA; WI MI PQ/ KS MO IL IN OH/ NY PA NJ DE MD WV
 VA/ CT/ TX OK/ AR TN GA SC NC FL.
 TYPE DEPOSITORY: NHRS.
- concinus** Boheman, 1838: 1006. CT.
 TYPE DEPOSITORY: NHRS.
 REDESCRIPTION: Horn, 1873: 439; Blatchley, 1916: 531.
 HOST: Under bark of butternut, sycamore, chestnut, oak, and dead elm; also in oak logs.
- impressus** Boheman, 1838: 1019. Jamaica and Cuba; FL.
 TYPE DEPOSITORY: NHRS.
- impressifrons** Horn, 1873: 440 (of Horn, not Boheman). PA and FL.
 TYPE DEPOSITORY: MCZC.
- meridianus** Csiki, 1936: 166 (replacement name for *impressifrons* Horn, not Boheman). PA
 and FL. This species was named as a variety of *impressus* Boheman.
 TYPE DEPOSITORY: MCZC.
 REDESCRIPTION: Van Dyke, 1915: 12.
 HOST: Under bark of dead gumbo-limbo.
- lupini** Van Dyke, 1915: 10. CA: San Francisco; CA.
 TYPE DEPOSITORY: CASC.
 HOST: In dead branches of perennial and bush lupines, *Lupinus arboreus* Sims. and *L. chamissonis* Esch.
- pacificus** Van Dyke, 1916: 75. CA: Tallac, Lake Tahoe; BC WA OR ID/ AB/ CA/ UT CO/ AZ.
 TYPE DEPOSITORY: CASC.
 HOST: Under bark of dead *Populus tremuloides* and *P. trichocarpa*.
- piniphilus** Boheman, 1838: 1002. CA; BC WA OR/ CA.
 TYPE DEPOSITORY: NHRS.
- californicus** Motschulsky, 1845: 99. CA.

scrobiculatus LeConte, 1859: 285. CA: Punto de los Reyes.

TYPE DEPOSITORY: MCZC.

REDESCRIPTION: Van Dyke, 1915: 9.

HOST: Under bark of *Pinus muricata* D. Don and *P. radiata* Don.

platalea Say, 1831: 24. United States; MI PQ/ IA IN/ NY PA NJ VA/ CT.

TYPE DEPOSITORY: Destroyed.

subareatus Boheman, 1845: 266. PA.

TYPE DEPOSITORY: NHRS.

bohemanni Horn, 1873: 438 (unjustified new name). PA.

REDESCRIPTION: Horn, 1873: 438; Blatchley, 1916: 530; Van Dyke, 1915: 7.

HOST: Under bark of walnut, butternut, elm, and poplar.

ponderosae Van Dyke, 1915: 13. CA: Tallac, Lake Tahoe; WA OR ID/ MT/ CA.

TYPE DEPOSITORY: CASC.

HOST: Under bark of *Pinus ponderosa* Laws., *P. jeffreyi* Grev. and Balf., and *P. lambertiana* Dougl.

quadricollis Van Dyke, 1915: 14. CA: Trinity Co., Carrville, N. fork Trinity River; BC WA OR ID/ CA.

HOST: Under bark of *Populus trichocarpa* Hook.

rufipennis Buchanan, 1936: 114 (*subareatus* of authors, in part, not Boheman (Buchanan, 1936)).
KS: Salina; KS MO.

schwarzi Van Dyke, 1916: 76. AZ: Williams; AZ NM.

TYPE DEPOSITORY: USNM.

HOST: Under bark of *Pinus apacheana* and Douglas fir.

spathula Boheman, 1838: 1035. Cuba; FL; Mex., C. Amer., S. Amer., W. Ind.

texanus Van Dyke, 1915: 15. TX; TX.

TYPE DEPOSITORY: CASC.

Genus CAECOSSONUS Gilbert

Caecossonus Gilbert, 1955: 193, fig. 1. Type-species: *Caecossonus dentipes* Gilbert (monot.).

dentipes Gilbert, 1955: 195, fig. 1. FL: Hammock on Stock Isl.; FL.

TYPE DEPOSITORY: INHS.

SEX OF TYPE: M.

HOST: Ground litter; can be berlesed in numbers from nests of pack rats.

Genus MACRANCYLUS LeConte

Macrancylus LeConte, 1876: 338. Type-species: *Macrancylus linearis* LeConte (monot.).

Haloxenus Perkins, 1900: 148. Type-species: *Haloxenus immigrans* Perkins (monot.) = *linearis* (LeConte).

IMMATURE STAGES: Anderson, 1952: 306 (larva, adult association doubtful).

REDESCRIPTION: Blatchley, 1916: 532.

linearis LeConte, 1876: 339. FL: Haulover; TX/ SC NC FL; Mex., W. Ind.; Other: Hawaii.

TYPE DEPOSITORY: MCZC.

immigrans Perkins, 1900: 149, pl. 8, fig. 4 (*Haloxenus*). Hawaiian Isl.: Molokai and Lanai.

TYPE DEPOSITORY: BPBM.

REDESCRIPTION: Blatchley, 1916: 533.

HOST: On and under driftwood on ocean beaches.

Genus TRICHACORYNUS Blatchley

Trichacorynus Blatchley, 1916: 528. Type-species: *Trichacorynus brunneus* Blatchley (monot.).

brunneus Blatchley, 1916: 528. IN: Marion Co.; IN.

TYPE DEPOSITORY: PURC.

protractus Horn, 1873: 444 (*Rhyncolus*). CA: Fort Tejon; CA/ PA NJ; Mex.

TYPE DEPOSITORY: MCZC.

sulcirostris Blatchley, 1928: 259. NJ: New Brunswick.

TYPE DEPOSITORY: PURC.

HOST: Under oak bark; breeds in dry, dead flower stalks of *Yucca whipplei*.

Genus MACRORHYNCOLUS Wollaston

Macrorhyncolus Wollaston, 1873b: 33. Type-species: *Macrorhyncolus crassiusculus* Wollaston (monot.).

littoralis Broun, 1880: 536 (*Eutornus*). New Zealand: Tairua; CA; Other: New Zealand.

cylindricus Broun, 1893: 1252 (*Eutornus*). Not known.

parvulus Broun, 1893: 1253 (*Eutornus*). Not known.

franciscanus Van Dyke, 1953: 107 (*Macrancylus*). CA: San Francisco.

HOST: In and under driftwood on sea beaches.

Genus RHINANISUS Broun

Rhinanisus Broun, 1883: 489. Type-species: *Pentarthrum fulvicornis* Broun (design. by Broun, 1886a: 805).

chisosensis O'Brien, 1973: 7, figs. 1-2. TX: Chisos Mts., Big Bend National Park, Green Gulch; TX.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: M.

HOST: Leaves of dead *Agave havardiana*.

Genus PROECES Schoenherr

Proeces Schoenherr, 1838: 1080. Type-species: *Proeces macer* Boheman (orig. des.).

Stenotis Wollaston, 1854b: 316. Type-species: *Stenotis acicula* Wollaston (monot.).

Eucoptus Wollaston, 1873b: 470. Type-species: *Eucoptus depressus* Wollaston (monot.).

Pseudostenotrupis Voss, 1939: 75 (not available). Type-species: Not yet design. *Nomen nudum*; name published after 1930 without valid type-species designation.

Borborhynchus Richard, 1957: 91. Type-species: *Borborhynchus pauliani* Richard (orig. des.).

depressus Wollaston, 1873b: 616 (*Eucoptus*). Brazil: Province of Rio de Janeiro; FL; C. Amer., S. Amer., W. Ind.

TYPE DEPOSITORY: BMNH.

filum Chevrolat, 1880: 198 (*Phloephagus*). "Martinica."

Genus DYNATOPECHUS Marshall

Dynatopechus Marshall, 1931: 325. Type-species: *Dynatopechus rubronotatus* Marshall (orig. des.).

aureopilosus Fairmaire, 1849: 555 (*Amorphocerus*) (introduced but not established). Tahiti; WA OR/ CA; Other: Tahiti, Hawaii.

TYPE DEPOSITORY: MNHP.

HOST: Seed necklace from Hawaii, and *Mucuna* sea bean.

Genus MESITES Schoenherr

Mesites Schoenherr, 1838: 1043. Type-species: *Mesites pallidipennis* Boheman (orig. des.).

IMMATURE STAGES: Anderson, 1952: 302; de Viedma, 1963: 259, fig. 18 (larval key).

KEYS: Blatchley, 1916: 536.

rufipennis LeConte, 1878: 432. FL: New Smyrna; NJ VA/ MS GA SC FL.

REDESCRIPTION: Blatchley, 1916: 536.

subcylindricus Horn, 1873: 441 (*Cossonus*). DE; NY NJ DE VA/ SC.

TYPE DEPOSITORY: MCZC.

REDESCRIPTION: Blatchley, 1916: 536.

HOST: Under bark of washed-up pine logs on sea beaches.

Genus PARALICUS O'Brien

Paralicus O'Brien, 1984: 346. Type-species: *Paralicus minyops* O'Brien (orig. des.).

minyops O'Brien, 1984: 347. FL: Monroe Co., Big Pine Key; FL; W. Ind.

TYPE DEPOSITORY: CWOB.

HOST: Under driftwood.

Tribe RHYNCOLINI LeConte, 1876

Genus NYSSONOTUS Casey

Nyssonotus Casey, 1892: 701. Type-species: *Nyssonotus seriatus* Casey (monot.).

seriatus Casey, 1892: 701. TX: El Paso; CA/ AZ TX; Mex.

TYPE DEPOSITORY: USNM.

IMMATURE STAGES: Anderson, 1952: 303 (larva).

HOST: Reared from flower stalks of *Yucca whipplei*; from *Sotol* flower stalks; on *Yucca thompsoniana*; in dry gourds.

Genus PENTARTHURUM Wollaston

Pentarthrum Wollaston, 1854a: 129. Type-species: *Pentarthrum huttoni* Wollaston (monot.).

Attarus Broun, 1909: 180. Type-species: *Pentarthrum tristis* Broun (orig. des.).

Belka Broun, 1909: 179. Type-species: *Pentarthrum spadicea* Broun (monot.).

Gaurocryphus Broun, 1909: 185. Type-species: *Pentarthrum auricomus* Broun (monot.).

Trachyglyphus Broun, 1909: 195. Type-species: *Pentarthrum rugirostris* Broun (monot.).

IMMATURE STAGES: Hammad, 1955 (larva, pupa); Chararas, 1956 (larva); de Viedma, 1963: 260, fig. 13 (larval key).

huttoni Wollaston, 1854a: 130. England: Alphington, in the vicinity of Exeter; PQ.

TYPE DEPOSITORY: BMNH.

IMMATURE STAGES: Hammad, 1955 (larva, pupa).

Genus PSEUDOPENTARTHURUM Wollaston

Pseudopentarthrum Wollaston, 1873b: 445. Type-species: *Pseudopentarthrum phloeophagoides* Wollaston (monot.).

Pentarthrinus Casey, 1892: 698. Type-species: Not yet designated.

IMMATURE STAGES: Anderson, 1952: 297, fig. 5 (larval maxilla).

REDESCRIPTION: Blatchley, 1916: 540, 541.

KEYS: Casey, 1892: 698; Blatchley, 1916: 541.

anonus Blatchley, 1916: 543 (*Pentarthrinus*). FL: Lake Okeechobee; FL.

TYPE DEPOSITORY: PURC.

HOST: Beaten from dead limbs of custard-apple, *Anona reticulata*, but moon-vine is probable host (Blatchley, 1925).

atrolucens Casey, 1892: 700 (*Pentarthrinus*). FL: Biscayne Bay; FL.

REDESCRIPTION: Blatchley, 1916: 542.

HOST: On *Rhizophora mangle*; under driftwood; *Cinnamomum camphora* twigs.

brevirostris Blatchley, 1922: 126 (*Pentarthrinus*). FL: Cape Sable; FL.

TYPE DEPOSITORY: PURC.

HOST: Beaten from dead limbs of buttonwood.

dissimilis Blatchley, 1925: 108 (*Pentarthrinus*). FL: Dunedin, Lakeland, Cape Sable, Hillsbor. Canal; FL.

TYPE DEPOSITORY: PURC.

fraternum Blatchley, 1928: 260. FL: Gainesville; MS GA FL.

TYPE DEPOSITORY: PURC.

HOST: *Carya* sp.

ilicis Sleeper, 1954: 186 (*Pentarthrinus*). MD: Pocomoke City: MD.

TYPE DEPOSITORY: ELSC.

SEX OF TYPE: F.

HOST: Wood of prone, dead *Ilex opaca* (Sleeper, 1954).

nitens Horn, 1873: 434 (*Amaurorhinus*). FL; DC/ FL.

TYPE DEPOSITORY: MCZC.

REDESCRIPTION: Casey, 1892: 698; Blatchley, 1916: 541.

HOST: On dead twigs; in dead branches of grapevine.

parvicollis Casey, 1892: 699 (*Pentarthrinus*). PA, VA; NY PA NJ MD VA/ GA SC FL.

TYPE DEPOSITORY: USNM.

REDESCRIPTION: Blatchley, 1916: 542.

HOST: Reared from applewood; in dead wood of various trees; in tulip poplar; emerged from *Carya* sp.

piceus Casey, 1892: 700 (*Pentarthrinus*). FL; IN OH/ DC/ TX/ AR TN NC FL.

TYPE DEPOSITORY: USNM.

REDESCRIPTION: Blatchley, 1916: 542.

HOST: Berlesed from oak, maple, and magnolia tree holes.

robustum Casey, 1892: 697. TX: Austin; TX.

TYPE DEPOSITORY: USNM.

simplex Casey, 1892: 697. NE; NE IN/ MS SC NC.

TYPE DEPOSITORY: USNM.

REDESCRIPTION: Blatchley, 1916: 540.

Genus HEXARTHURUM Wollaston

Hexarthrum Wollaston, 1860: 448. Type-species: *Hexarthrum compressum* Wollaston (monot.) = *culinaris* (Germar). *Hexarthrum compressum* Wollaston, 1860 equals *culinaris* Germar fide Wollaston, 1873b.

REDESCRIPTION: Blatchley, 1916: 543.

KEYS: Brown, 1966: 858.

thujae Brown, 1966: 858. BC: 34 mi. N. of Revelstoke, Big Bend Highway; BC.

TYPE DEPOSITORY: CNCI.

SEX OF TYPE: M.

HOST: In sound logs of *Thuja plicata* Donn.

ulkei Horn, 1873: 446. DC; ON QB/ IN OH/ NY NJ DC/ CT/ NC.

TYPE DEPOSITORY: MCZC.

IMMATURE STAGES: Anderson, 1952: 300 (larva, larval maxilla).

REDESCRIPTION: Blatchley, 1916: 543.

HOST: Coniferous wood of old buildings; spruce lath and white pine (Brown, 1966).

Genus TOMOLIPS Wollaston

Tomolips Wollaston, 1873b: 590. Type-species: *Tomolips bicalcaratus* Wollaston (subseq. monot.: Champion, 1909: 78).

Wollastonia Horn, 1873: 433 (preoccupied Heer, 1852). Type-species: *Rhyncolus quercicola* Boheman (monot.).

Wollastoniella Cockerell, 1906a: 243 (replacement name for *Wollastonia* Horn, not Heer, 1852). Type-species: *Rhyncolus quercicola* Boheman (automat.).

Parahornia Cockerell, 1906b: 349 (replacement name for *Wollastoniella*, not Reuter, 1884). Type-species: *Rhyncolus quercicola* Boheman (automat.).

REDESCRIPTION: Blatchley, 1916: 539.

quercicola Boheman, 1845: 281 (*Rhyncolus*). "Nova Carolina"; MO IN/ NY NJ MD/ ME NH VT MA RI CT/ TX OK/ LA GA SC NC FL; C. Amer.

TYPE DEPOSITORY: NHRS.

REDESCRIPTION: Horn, 1873: 434; Blatchley, 1916: 540.

HOST: Rotten beech stumps; in dead wood of various trees; magnolia tree holes.

Genus ELASSOPTES Horn

Elassoptes Horn, 1873: 436. Type-species: *Elassoptes marinus* Horn (monot.).

marinus Horn, 1873: 436. CA: San Francisco; BC WA OR/ CA.

TYPE DEPOSITORY: MCZC.

HOST: Larvae develop under driftwood on sea beaches.

Genus STENOSCELIS Wollaston

Stenoscelis Wollaston, 1861a: 141. Type-species: *Stenoscelis hylastoides* Wollaston (monot.).

Dendroctonomorphus Wollaston, 1873b: 591. Type-species: Not yet designated.

IMMATURE STAGES: Anderson, 1952: 300, fig. 2 (larva).

REDESCRIPTION: Blatchley, 1916: 545; Buchanan, 1948: 65, figs. 1-4.

KEYS: Buchanan, 1948: 63.

andersoni Buchanan, 1948: 61. MD: College Heights (near Hayttsville [sic]); KS IA MO OH KY/ NJ MD VA/ MS AL.

HOST: In rotting birch logs, dead elm pith, *Castanea pumila*, cottonwood bark.

brevis Boheman, 1845: 282 (*Rhyncolus*). "Carolina"; MN WI MI ON PQ/ KS IA IN OH/ NY PA NJ MD DC WV VA/ NH VT MA CT/ LA MS AL GA SC NC FL.

TYPE DEPOSITORY: NHRS.

REDESCRIPTION: Horn, 1873: 447; Blatchley, 1916: 545.

HOST: Under bark or in dead wood of apple, ash, bayberry, chinquapin, dogwood, elderberry, elm, hawthorn, hickory, holly, hornbean, magnolia, maple, oak, poplar, redbay, snowdrop, sweetgum, tulip; in galleries in dead branches of magnolia on ground (Buchanan, 1948).

Genus APHANOMMATA Wollaston

Aphanommata Wollaston, 1873b: 463. Type-species: *Rhyncolus euphorbium* Wollaston (monot.).

Rhamphocolus Casey, 1892: 702. Type-species: *Rhamphocolus tenuis* Casey (monot.).

tenuis Casey, 1892: 703 (*Rhamphocolus*). TX: Austin; OH KY/ TX/ AR AL.

TYPE DEPOSITORY: USNM.

variolatus Dury, 1916: 14 (*Phloeophagus*). OH: Cincinnati.

HOST: Tree holes in oak and beech.

Genus PSELECTUS Broun

Pselactus Broun, 1886b: 972 (introduced into North America). Type-species: *Pselactus punctatus* Broun (monot.).

Codiosoma Bedel, 1885: 194 (preoccupied Kirby, 1874). Type-species: *Curculio spadix* Herbst (orig. des.).

Phloeophagia Aurivillius, 1924: 137 (unnecessary replacement name). Type-species: *Curculio spadix* Herbst (automat.).

IMMATURE STAGES: Anderson, 1952: 299, fig. 14 (larva).

spadix Herbst, 1795: 256 (*Curculio*) (introduced into North America). Germany; CA/ MO IL/ NY NJ MD VA/ MA/ SC; Mex., S. Amer.; Old World; Other: Europe, Australia, New Zealand.

IMMATURE STAGES: de Viedma, 1963: 259 (larval key, larval epipharynx).

REDESCRIPTION: Blatchley, 1916: 539; O'Brien, 1970: 43, fig. 1.

HOST: Breeds in driftwood, wharfs and their pilings, stumps covered by water from rising tides; in furniture and timbers inside houses.

Genus PHLOEOPHAGUS Schoenherr

Phloeophagus Schoenherr, 1838: 1047. Type-species: *Cossonus lignarius* Gyllenhal (orig. des.).

IMMATURE STAGES: de Viedma, 1963: 261 (larval key).

REDESCRIPTION: Blatchley, 1916: 538.

KEYS: Horn, 1873: 443.

apionides Horn, 1873: 443. PA; MI ON PQ/ NY PA MD DC / ME NH VT MA RI CT.

TYPE DEPOSITORY: MCZC.

REDESCRIPTION: Blatchley, 1916: 538.

HOST: On wild cherry, ash, and white oak.

californicus Van Dyke, 1927: 16. CA: Los Angeles; OR/ CA; Mex.

TYPE DEPOSITORY: CASC.

HOST: Breeds in decaying branches of willow, alder, walnut, and similar trees (Van Dyke, 1927); *Populus trichocarpa*.

canadensis Van Dyke, 1927: 17. AB: Medicine Hat; BC/ AB/ UT.

TYPE DEPOSITORY: CASC.

HOST: *Populus*.

minor Horn, 1873: 443. PA, DC, and NE; MI/ NE MO IN OH/ NY PA DC VA/ TX/ NC.

TYPE DEPOSITORY: MCZC.

carinatus Blatchley, 1916: 545 (*Rhyncolus*). IN: Kosciusko Co.

TYPE DEPOSITORY: PURC.

REDESCRIPTION: Blatchley, 1916: 539.

HOST: In decaying trunks of birch, willow, and elm; on dead twigs; berlesed oak and magnolia tree holes; *Fagus grandifolia* Ehrh.

protensus Wollaston, 1873b: 647 (*Rhyncolus*). CA; CA; Other: Egypt. Leech (1955) considered this to be a doubtful North American species.

TYPE DEPOSITORY: BMNH.

Genus **RHYNCOLUS** Germar

- Rhyncolus** Germar, 1817: 340. Type-species: *Hylesinus cloropus* Linnaeus (monot.).
Eremotes Wollaston, 1861b: 364. Type-species: *Hylurgus crassicornis* Brulle (monot.).
Syntomocerus Wollaston, 1865: 251 (unjustified replacement name). Type-species:
Unknown (paper not available) (automat.).
Xylocomesus Thatcher, 1940: 89. Type-species: *Xylocomesus cercocarpus* Thatcher (orig. des.).
IMMATURE STAGES: Anderson, 1952: 304 (larva); Hammad and El-Deeb, 1955: 385, fig. 1 (larva); de Viedma 1963: 260 (larval key).
REDESCRIPTION: Blatchley, 1916: 543.
KEYS: Blatchley, 1916: 544; Buchanan, 1946: 132; Horn, 1873: 444; Hatch, 1971: 393.
- angularis** LeConte, 1858: 81. CA: "New River, Colorado Desert"; CA.
TYPE DEPOSITORY: MCZC.
HOST: *Populus*; under willow bark.
- brunneus** Mannerheim, 1843: 295. AK: Sitka Isl.; AK NT/ BC WA OR ID/ MT/ PQ/ CA/ AZ NM.
TYPE DEPOSITORY: UZMH.
californicus Wollaston, 1873b: 645. CA.
TYPE DEPOSITORY: BMNH.
relictus Casey, 1892: 705. NM.
TYPE DEPOSITORY: USNM.
HOST: Under bark of dead Douglas fir and lodgepole pine; in dead *Pinus* sp. and old Douglas fir lumber; Bishop pine branches on ground; *Abies lasiocarpa* Hook (Nutt.) and *Pinus contorta*.
- cercocarpus** Thatcher, 1940: 90 (*Xylocomesus*). NV: Baker, Lehman Creek, 8,000 feet; NV.
TYPE DEPOSITORY: USNM.
SEX OF TYPE: M.
HOST: *Cercocarpus ledifolius*, in heartwood next to sap wood.
- cylindricollis** Wollaston, 1873b: 645. CA; BC WA OR ID/ MT/ CA NV/ UT.
TYPE DEPOSITORY: BMNH.
HOST: Under bark of *Pinus ponderosa*, *Pseudotsuga taxifolia* and Douglas fir.
- dilatatus** Casey, 1892: 704. CA; CA/ AZ.
TYPE DEPOSITORY: USNM.
HOST: Burrows in trunk of *Populus*.
- discors** Casey, 1892: 707. FL: Crescent City; MI/ IL OH/ PA DE MD VA/ TX OK/ LA GA SC NC FL.
TYPE DEPOSITORY: USNM.
HOST: Under bark of *Pinus virginiana*.
- dorsalis** LeConte, 1858: 81. CA: San Diego; CA.
HOST: Under driftwood and bark of Ponderosa pine and *Pseudotsuga taxifolia*.
- knowltoni** Thatcher, 1940: 90 (*Xylocomesus*). UT: Above Logan, Logan Canyon, Franklin Basin; UT/ AZ.
SEX OF TYPE: M.
HOST: *Populus aurea*.
- macrops** Buchanan, 1946: 130. PQ: Mount Lyall, 1,500 feet; BC WA OR/ MI ON PQ/ NS/ WY UT CO/ NY/ ME NH/ AZ NM/ NC.
TYPE DEPOSITORY: USNM.
SEX OF TYPE: M.
HOST: *Abies lasiocarpa*, *A. amabilis*, *A. balsamea*, *A. grandis*, *Pseudotsuga taxifolia*, *Pinus ponderosa*, *P. monticola*, *P. flexilis*.

nimius Casey, 1892: 706. NM: Las Vegas; CO/ AZ NM.

TYPE DEPOSITORY: USNM.

HOST: Under bark of *Pinus ponderosa* and Douglas fir.

oregonensis Horn, 1873: 445. OR; BC WA OR ID/ MT/ CA/ CO/ AZ; Mex.

TYPE DEPOSITORY: MCZC.

REDESCRIPTION: Blatchley, 1916: 544.

HOST: Under bark of *Pinus ponderosa* and *P. jeffreyi*.

pallens Casey, 1892: 703. CA: San Francisco; CA.

TYPE DEPOSITORY: USNM.

HOST: Breeds in dead branches and stems of coastal lupines, *Lupinus arboreus* and *L. albibifrons*.

spretus Casey, 1892: 704. CA; WA OR/ CA.

TYPE DEPOSITORY: USNM.

HOST: Decaying wood of filbert; burrows in elderberry limbs; reared from *Acer negundo*.

stacesmithi Sleeper, 1953: 119. BC: Creston; BC WA ID.

TYPE DEPOSITORY: ELSC.

SEX OF TYPE: M.

HOST: *Populus trichocarpa*, *Populus* sp.

Genus CARPHONOTUS Casey

Carphonotus Casey, 1892: 694. Type-species: *Carphonotus testaceus* Casey (monot.).

testaceus Casey, 1892: 694. MN; BC/ AB MT ND/ MN ON/ NF/ CO/ NY/ NH/ AZ.

TYPE DEPOSITORY: USNM.

REDESCRIPTION: Blatchley, 1916: 528.

HOST: Under bark of *Picea* sp.

Genus CAULOPHILUS Wollaston

Caulophilus Wollaston, 1854a: 315. Type-species: *Caulophilus sculpturatus* Wollaston (monot.) = *oryzae* (Gyllenhal).

Allomimus LeConte, 1876: 339. Type-species: *Cossonus dubius* Horn (monot.).

Tythomimus Champion, 1909: 37, table II, fig. 6. Type-species: *Tythomimus rubicundus* Champion (orig. des.).

dubius Horn, 1873: 442 (*Cossonus*). "Illinois or Missouri"; MI/ IL IN OH KY/ NY PA MD/ MS AL TN GA NC FL.

TYPE DEPOSITORY: MCZC.

REDESCRIPTION: Blatchley, 1916: 534.

HOST: Under bark of dead trees and mustang grapevine; berlesed from hardwood litter and treeholes.

oryzae Gyllenhal, 1838: 1075 (*Rhyncolus*). Sweden: Stockholm; CA/ GA SC NC FL; Mex., C. Amer., W. Ind.; Cosmop.; Old World; Other: Madiera.

TYPE DEPOSITORY: NHRS.

lauri Gyllenhal, 1838: 1076 (*Rhyncolus*). Mex.

TYPE DEPOSITORY: NHRS.

pinguis Horn, 1873: 442. (*Cossonus*). GA and FL.

TYPE DEPOSITORY: MCZC.

latinus (of authors, not Say). (*Rhyncolus*).

IMMATURE STAGES: Anderson, 1952: 307 (larva); Cotton, 1921: 609, pl. 72 (egg, larva, pupa).

HOST: In stored grain, rice, chickpeas, corn, avocado seeds, and dried cereals.

COMMON NAME: Broad-nosed grain weevil.

politus Casey, 1892: 692 (*Allomimus*). TX; TX.

TYPE DEPOSITORY: USNM.

Genus STENOMIMUS Wollaston

Stenomimus Wollaston, 1873b: 480. Type-species: *Stenomimus fryi* Wollaston (monot.).
IMMATURE STAGES: Anderson, 1952: 295, fig. 21 (larva).

pallidus Boheman, 1845: 279 (*Phlocophagus*). OH; MO IL IN OH/ PA MD DC VA.
TYPE DEPOSITORY: NHRS.
REDESCRIPTION: Blatchley, 1916: 535.
HOST: Under moist bark of dead *Quercus*; in wounded part of *Carya*; in moist fibers beneath bark of *Juglans nigra* L.

Genus STENANCYLUS Casey

Stenancylus Casey, 1892: 693. Type-species: *Stenancylus colomboi* Casey (monot.).
Liolepta Blatchley, 1916: 546. Type-species: *Liolepta stenosoma* Blatchley (monot.).
Rhinonus Kuschel, 1959a: 70. Type-species: *Rhinonus platensis* Kuschel (orig. des.).
REDESCRIPTION: Blatchley, 1916: 533.

colomboi Casey, 1892: 693. FL; FL; W. Ind.
HOST: Roots of *Acrostichum aureum* L.; common in dead fronds of *A. danaeaeifolium*.

stenosoma Blatchley, 1916: 546 (*Liolepta*). FL; FL.
TYPE DEPOSITORY: PURC.

Genus MICROMIMUS Wollaston

Micromimus Wollaston, 1873b: 481. Type-species: Not yet designated.

corticalis Boheman, 1845: 284 (*Rhyncolus*). "Carolina America borealis"; FL.
TYPE DEPOSITORY: NHRS.
REDESCRIPTION: Blatchley, 1916: 534.

Subfamily RHYTIRRHININAE

This moderately small subfamily has approximately 80 genera and 700 species in the world. Most of the New World genera and species have been placed in the Cyldrorrhinae in the past. However, Kuschel (1964) transferred the Listroderini to the Rhyparosominae, pointing out that the true Cyldrorrhinae [sic] are Adelognatha but the Listroderini are Phanerognatha. In this same paper Kuschel also transferred *Aphela* (tribe Aphelini) from the Cossoninae to the Rhyparosominae. However, *Emphyastes fucicola* Mannerheim belongs in the subfamily Molytinae (Wibmer and O'Brien, 1989). Kuschel (1971) synonymized the subfamily Rhyparosominae with Rhytirrhinae based primarily on the striking similarity in the general structures of their genitalia. It is clear that our two North American genera and 84 species, 81 of which belong in the genus *Listronotus*, cannot remain in the adelognathous subfamily Cyldrorrhinae. It is best to follow Kuschel's published synonymies, at least until more complete subfamily definitions can be published.

In this subfamily, the first North American species was described by Say (1824) as *Rhynchaenus caudatus*. This species is now listed in the genus *Listronotus*. In 1831, Say described three other species (now also in the genus *Listronotus*) as *Listroderes*. *Listronotus*, described by Jekel (1864), is the first North American genus in this subfamily to be described. LeConte (1876) described many species of *Listronotus* and also described the genus *Lixellus* and its synonym, *Anchodemus*, both recently treated as synonyms of *Listronotus* by Morrone et al. (1995). Dietz (1889) contributed a basic monograph on *Macrops*. For details on the synonymy of *Hyperodes* with *Listronotus*, see O'Brien (1979).

The larvae of this subfamily develop in the roots, stems, and fruiting bodies of a wide variety of plants. Species of *Listronotus* are semiaquatic and terrestrial. Henderson (1940) discussed the biology and hosts of many semiaquatic *Listronotus* and of the economically important "carrot or parsley weevil," *L. oregonensis* LeConte. Other hosts include *Echinodorus*, *Polygonum*, *Sagittaria*, and *Scirpus*. One species, *L. anthracinus* (Dietz), has reportedly damaged golf greens (Warner, 1965). Another species, *L. texanus* Stockton (1963), attacks carrot, celery, dill, and parsley roots.

Our three North American species of *Listroderes* were introduced from South America. *Listroderes costirostris* Schoenherr, "the vegetable weevil," is an important economic pest attacking more than 200 plant species. Unfortunately, the sibling species, *L. difficilis* Germain, has been misidentified as *costirostris* Schoenherr for years, so much of the literature on the vegetable weevil refers to *L. difficilis* Germain (Wibmer and O'Brien, 1989). Kuschel (1946) correctly interpreted the synonymy of *costirostris* Schoenherr. The name is available, according to Article 16 (a)(vi) of the International Code of Zoological Nomenclature (ICZN, 1964).

Genus LISTRODERES Schoenherr

- Listroderes** Schoenherr, 1826: 158. Type-species: *Listroderes costirostris* Schoenherr (orig. des.).
Trachodema Blanchard, 1851: 374. Type-species: *Trachodema tuberculosa* Blanchard (monot.).
Antarctobius Fairmaire, 1885: 58. Type-species: Not yet designated.
Acrorius Kirsch, 1889: 25. Type-species: *Acrorius puncticollis* Kirsch (monot.).
Ocromis (in Sharp, 1890: 152; not Kirsch, 1899, error).
Hyperoides Marshall, 1914: 236. Type-species: *Hyperoides fragariae* Marshall (monot.).
Listroderus (error, Neave, 1939: 970).

TAXONOMY: Kuschel, 1946.

- apicalis** Waterhouse, 1841: 123 (introduced into North America). Uruguay: Monte Video; TX OK/ AR LA.

REDESCRIPTION: Chittenden, 1926a: 72, pl. I, fig. 1.

- costirostris** Schoenherr, 1826: 159 (introduced into North America.). "Rio Janiero"; CA/ AZ; S. Amer.; Old World. The authorship of this species name has been incorrectly attributed to Gyllenhal.

TYPE DEPOSITORY: NHRS.

- obliquus* (of authors, not Klug, 1829).

IMMATURE STAGES: May, 1966: 296 (larva, pupa, keys); Peterson, 1951: 132 (larva); Barrett, 1930: 100 (larva, pupa).

- costirostris* Gyllenhal, 1834: 277. "Rio Janiero et ad Buenos Ayres."

TYPE DEPOSITORY: NHRS.

- difficilis** Germain, 1895: 68. Chile; CA/ AZ TX/ AR MS GA SC NC FL; S. Amer.; Old World.
novica French, 1908: 754 (*Desiantha*). Australia: "Ascot Vale, Essendon, Preston."
nociva Lea, 1909: 174 (*Desiantha*). Victoria.
hypocrita Hustache, 1926: 197. Argentina.
vicinus Hustache, 1926: 199, pl. II, fig. 1. Argentina, Catamarca, Fuerte Quemado.

Genus LISTRONOTUS Jekel

- Listronotus** Jekel, 1864: 566. Type-species: *Rhynchaenus caudatus* Say (design. by Henderson, 1940: 231).
Macrops Kirby, 1837: 199 (preoccupied Wagler, 1830). Type-species: Not yet designated.
Hyperodes Jekel, 1864: 566. Type-species: *Listroderes humilis* Gyllenhal (orig. des.).
Anchodemus LeConte, 1876: 181 (preoccupied Motschulsky, 1864). Type-species:
Anchodemus hubbardi LeConte (design. by Kuschel, 1950: 14).
Lixellus LeConte, 1876: 182. Type-species: *Lixellus filiformis* LeConte (monot.).

- Mascarauxia* Desbrochers, 1898: 52. Type-species: *Mascarauxia cyrtica* Desbrochers (monot.).
- Relistrodes* Brethes, 1910: 209. Type-species: *Relistrodes breyeri* Brethes (monot.).
- Aulametopiellus* Brethes, 1926: 415. Type-species: *Aulametopiellus dauci* Brethes (monot.).
- Pseudhyperodes* Hustache, 1939: 49. Type-species: *Pseudhyperodes elongatus* Hustache (monot.).
- Listroderes* (of authors, not Schoenherr).
 IMMATURE STAGES: May, 1966: 293 (larva), 307 (pupa, figs.), 289 (larval and pupal keys).
 TAXONOMY: Henderson, 1940.
 REDESCRIPTION: Blatchley and Leng, 1916: 153, figs. 60, 61; Henderson, 1940: 215, pls. XXXI-XXXVI; Dietz, 1889: 28.
 KEYS: Blatchley and Leng, 1916; Hatch, 1971: 292; Henderson, 1940: 232; LeConte, 1876: 128; Stockton, 1963: 147.
- alternatus** Dietz, 1889: 38 (*Macrops*). IL; NE KS IA IL/ NJ/ TX/ GA FL.
 TYPE DEPOSITORY: MCZC.
 REDESCRIPTION: Blatchley, 1916: 169.
- americanus** LeConte, 1876: 131. GA; AL GA FL.
 TYPE DEPOSITORY: MCZC.
 SEX OF TYPE: F.
 REDESCRIPTION: Henderson, 1940: 245, pls. XXXI, XXXVII; Blatchley and Leng, 1916: 157.
- annulipes** Blatchley, 1925: 92 (*Hyperodes*). FL: Dunedin; FL.
 TYPE DEPOSITORY: PURC.
- anthracinus** Dietz, 1889: 51 (*Macrops*). FL; NY PA NJ VA/ MS TN GA FL.
 TYPE DEPOSITORY: MCZC.
 REDESCRIPTION: Blatchley, 1916: 177.
 HOST: Damages golf greens (Warner, 1965).
- appendiculatus** Boheman, 1842: 192 (*Listroderes*). PA; BC OR/ MB SD/ MN WI MI ON PQ/ CA/ WY CO/ NE KS IA MO IL IN OH/ NY PA NJ MD DC VA/ ME NH MA CT/ TX/ AR LA MS AL GA FL; Mex., C. Amer.
 TYPE DEPOSITORY: NHRS.
 SEX OF TYPE: F.
- floridensis** Blatchley, 1916: 160. FL.
 TYPE DEPOSITORY: PURC.
- leucozonatus** Chittenden, 1926b: 341. NY: Ithaca; DC; OH.
 TYPE DEPOSITORY: USNM.
 SEX OF TYPE: M.
- impressus** Van Dyke, 1929: 106. CA: Colusa Co., Williams.
 TYPE DEPOSITORY: CASC.
 SEX OF TYPE: M.
 REDESCRIPTION: Blatchley and Leng, 1916: 160; Henderson, 1940: 308, pls. XXXIII, XXXVI; O'Brien, 1977: 804.
 HOST: Common on flowers and fruits of *Sagittaria*; on *Sagittaria latifolia*; bred from *Sagittaria*, reared from *S. Engelmanniana* (O'Brien, 1981).
- arizonicus** O'Brien, 1981: 82, figs. 1, 24 (*Listronotus*). AZ: Cochise Co., Willcox Playa; AZ.
- blandus** Henderson, 1940: 282, pls. XXXIV, XXXVII. FL: Indian River; LA MS AL GA FL; C. Amer.
 TYPE DEPOSITORY: SEMC.
 SEX OF TYPE: M.
 REDESCRIPTION: O'Brien, 1977: 804, figs. 13, 16.
 HOST: In stomachs of *Bufo terrestris*; on *Polygonum hydropiperoides* (O'Brien, 1981).

- blatchleyi** Henderson, 1940: 279, pls. XXXV, XXXVII. FL: Homestead; FL.
 TYPE DEPOSITORY: MCZC.
 SEX OF TYPE: M.
- borrichiae** O'Brien, 1981: 84, figs. 2, 25. TX: San Patricio Co., Welder Wildlife Refuge; TX/
 FL; Mex.
 HOST: Swept or beaten at night from Sea-Ox-eye, *Borrichia frutescens* (Linnaeus) De Candolle.
- burkei** O'Brien, 1981: 86, figs. 16, 40. TX: Anderson County, Elkhart; TX.
- californicus** Dietz, 1889: 50 (*Macrops*). "California, Washington Territory, Oregon"; WA OR ID/
 AB MT/ CA NV/ UT/ NE.
 TYPE DEPOSITORY: MCZC.
- callosus** LeConte, 1876: 130. "Middle States"; TX/ LA AL GA SC.
 TYPE DEPOSITORY: MCZC.
 REDESCRIPTION: Blatchley and Leng, 1916: 155; Henderson, 1940: 248, pls. XXXIV, XXXVI.
- carinatus** Blatchley, 1928: 242 (*Hyperodes*). FL: Royal Palm Park; FL.
 TYPE DEPOSITORY: PURC.
 SEX OF TYPE: M.
- caudatus** Say, 1824: 311 (*Rhynchaenus*). MO; BC OR ID/ SD/ MN WI MI ON PQ/ CA NV/
 UT CO/ NE KS IA MO IL IN OH/ NY PA NJ MD DC VA/ MA RI CT/ TX/ AR
 MS GA SC FL. The Say type-specimen was destroyed and a neotype from Douglas
 Co., KS, was designated.
 TYPE DEPOSITORY: USNM (neotype).
 SEX OF TYPE: M.
 TAXONOMY: Henderson, 1940.
 REDESCRIPTION: Henderson, 1940: 234, pls. XXXII, XXXVII.
 HOST: On *Polygonum hydropiperoides* and arrowhead.
- conabilis** O'Brien, 1981: 90, figs. 5, 31. FL: Taylor County, 5 mi. S. of Perry, Highway 361; SC
 FL.
- crypticus** O'Brien, 1981: 91, figs. 14, 37. FL: Gulf County, 1 mi. N. of White City; MS FL.
- cryptops** Dietz, 1889: 32 (*Macrops*). FL, GA; LA MS AL GA FL; Mex., C. Amer., W. Ind.
 TYPE DEPOSITORY: MCZC.
 REDESCRIPTION: Blatchley, 1916: 167; O'Brien, 1981: 94.
 HOST: Breeds in and common on flowers of *Sagittaria*; larvae, pupae and adults in stems of *Sagittaria lancifolia*
 L. (O'Brien, 1981).
- debilis** Blatchley, 1916: 164. IN: Putnam Co.; KS IL IN/ MD DC VA/ TX OK/ AR.
 SEX OF TYPE: F.
 REDESCRIPTION: Henderson, 1940: pls. XXXI, XXXVII.
- deceptus** Blatchley, 1916: 167 (*Hyperodes*). IN: Lake Co.; PQ/ IN/ FL.
 TYPE DEPOSITORY: PURC.
- delumbis** Gyllenhal, 1834: 283 (*Listroderes*). "America borealis"; BC OR ID/ MT SD/ MN WI
 MI ON PQ/ CA NV/ WY/ NE KS IA IL IN/ NY PA NJ DC/ NH VT MA CT/ TX/
 LA GA SC NC FL; Mex.
 TYPE DEPOSITORY: NHRS.
- spurcus** Boheman, 1842: 196 (*Listroderes*). MA: Boston.
 TYPE DEPOSITORY: NHRS.
- solutus** Boheman, 1842: 197 (*Listroderes*). PA.
 TYPE DEPOSITORY: NHRS.
- schwarzi** LeConte, 1876: 182 (*Anchodemus*). MI: Detroit.

- indistinctus* Dietz, 1889: 32 (*Macrops*). NJ, NY, IL, MT, WY.
 TYPE DEPOSITORY: MCZC.
 REDESCRIPTION: Blatchley, 1916: 166, 172.
 HOST: On *Peltandra virginica* and *Sagittaria*; breeds in stems and scapes of *Sagittaria latifolia* (Pierce, 1916).
- dietzi** O'Brien, 1979: 267 (replacement name for *rotundicollis* Dietz). TX; NE KS IN/ NY NJ/ TX/ FL.
 TYPE DEPOSITORY: MCZC.
rotundicollis Dietz, 1889: 44 (*Macrops*) (preoccupied LeConte, 1876). TX.
 TYPE DEPOSITORY: MCZC.
 REDESCRIPTION: Blatchley, 1916: 173.
- distinctus** Henderson, 1940: 274, pls. XXXIV, XXXVI. TX: Dimmit Co.; TX.
 TYPE DEPOSITORY: USNM.
 SEX OF TYPE: M.
- dorsalis** Dietz, 1889: 37 (*Macrops*). IL, TX, LA; IL/ TX/ LA.
 TYPE DEPOSITORY: MCZC.
 REDESCRIPTION: Blatchley, 1916: 169.
- echinatus** Dietz, 1889: 46 (*Macrops*). TX, DC, MI, IL: Northern; MA, AZ, CO; MI/ CO/ NE KS IL IN/ NY NJ MD DC/ MA CT/ AZ TX/ NC; Mex.
 TYPE DEPOSITORY: MCZC.
schaupii Angell, 1893: 12 (*Macrops*). Type-locality not given.
 SEX OF TYPE: M.
 REDESCRIPTION: Blatchley, 1916: 174.
 HOST: Breeds in roots of *Senecio* and *Plantago* (Pierce, 1916).
- echinodori** O'Brien, 1977: 808, figs. 9, 23. Mex.: State of Chiapas, 41 mi. SE. of Comitán; MB/ MN/ MO OH/ NY NJ DC/ MA/ TX; Mex., C. Amer.
 TYPE DEPOSITORY: CWOB.
 SEX OF TYPE: M.
 REDESCRIPTION: O'Brien, 1977: 806 (key); O'Brien, 1981: 95.
 HOST: In stem galls and leaf bases of *Echinodorus cordifolius*; reared from *Sagittaria*.
- elegans** Van Dyke, 1929: 107. CA: Sonoma Co., Sobre Vista; CA.
 TYPE DEPOSITORY: CASC.
 REDESCRIPTION: Henderson, 1940: 300, pl. XXXVII.
- elegantulus** O'Brien, 1981: 97, figs. 8, 30. FL: Leon County, Bloxham, Highway 20; FL.
- fasciatus** O'Brien, 1981: 99, figs. 15, 28. FL: Gulf County, 1 mi. N. of White City; FL.
- filiformis** LeConte, 1876: 182. "Canada, Oregon"; BC WA OR ID/ MT SD/ MN PQ/ CA NV/ WY CO/ KS MO/ TX.
 TYPE DEPOSITORY: MCZC.
- frontalis** LeConte, 1876: 133. MI, NY, GA, TX; BC WA OR ID/ AB SK ND SD/ MN WI MI ON PQ/ CA/ UT CO/ NE KS IA IL IN KY/ NY PA NJ DC/ MA RI/ AZ NM TX OK/ LA MS AL GA FL.
 TYPE DEPOSITORY: MCZC.
 REDESCRIPTION: Blatchley and Leng, 1916: 159; Henderson, 1940: 284, pls. XXXII, XXXVII.
 HOST: Reared from *Sagittaria graminea* (O'Brien, 1981).
- grypidioides** Dietz, 1889: 35 (*Macrops*). KS, NV, TX, S. WY; WA OR ID/ MN/ CA NV/ WY CO/ NE KS IN/ NM TX OK; Mex.
 TYPE DEPOSITORY: MCZC.
wickhami Dietz, 1889: 36 (*Macrops*). NM.
 TYPE DEPOSITORY: MCZC.
 REDESCRIPTION: Blatchley, 1916: 168; O'Brien, 1981: 101.

- haldemani** Burke, 1963: 167, fig. 6. TX: Brazos Co., College Station; TX.
 TYPE DEPOSITORY: TAMU.
 SEX OF TYPE: M.
 HOST: On *Juncus nodatus*.
- hirtellus** Dietz, 1889: 46 (*Macrops*). NM, AZ; AZ NM; Mex., C. Amer.
 TYPE DEPOSITORY: MCZC.
- hoodi** Stockton, 1963: 144 (*Hyperodes*). "British America."
 TYPE DEPOSITORY: USNM.
 SEX OF TYPE: M.
- horni** Dietz, 1889: 40 (*Macrops*). GA, FL; GA FL.
 TYPE DEPOSITORY: MCZC.
setiger Dietz, 1889: 41 (*Macrops*). FL.
 TYPE DEPOSITORY: MCZC.
 SEX OF TYPE: M.
 REDESCRIPTION: Blatchley, 1916: 170.
- hubbardi** LeConte, 1876: 181 (*Anchodemus*). MI; Detroit; MN WI MI/ NE IA IL IN/ NY PA NJ
 DC/ CT/ TX/ LA MS FL.
 TYPE DEPOSITORY: MCZC.
 REDESCRIPTION: Blatchley, 1916: 228.
- humilis** Gyllenhal, 1834: 284 (*Listroderes*). "America boreali"; BC ID/ MT ND/ MN WI MI PQ/
 NF/ NV/ WY/ NE KS IA MO IL IN OH/ NY PA NJ/ CT/ NM TX/ MS AL GA SC
 NC FL; Mex.
 TYPE DEPOSITORY: NHRS.
subcibratus Dietz, 1889: 42 (*Macrops*). FL.
 TYPE DEPOSITORY: MCZC.
 REDESCRIPTION: Blatchley, 1916: 172, 176.
- hyperodes** Dietz, 1889: 33 (*Macrops*). CA; CA NV/ TX OK.
 TYPE DEPOSITORY: MCZC.
nevadensis Dietz, 1889: 34 (*Macrops*). NV.
 TYPE DEPOSITORY: MCZC.
- incompletus** Hatch, 1971: 296 (*Hyperodes*). "e Wn., s Id., e Or."; WA OR ID.
 TYPE DEPOSITORY: USNM.
- ingens** Henderson, 1940: 243, pls. XXXI, XXXVII. OK; KS IN/ TX OK/ LA.
 TYPE DEPOSITORY: AMNH.
 SEX OF TYPE: M.
- insignis** Henderson, 1940: 313, pls. XXXII, XXXVII. FL: Paradise Key; FL.
 TYPE DEPOSITORY: USNM.
 SEX OF TYPE: M.
 HOST: In stomachs of *Bufo terrestris*; at night on *Sagittaria graminea* and *S. stagnorum* (O'Brien, 1981).
- laramiensis** Angell, 1893: 12 (*Macrops*). WY: Laramie; MT/ MI/ WY/ OH.
 TYPE DEPOSITORY: BYUC.
 SEX OF TYPE: M.
- latinus** Blatchley, 1922: 100 (*Hyperodes*). FL: Ft. Myers; FL.
 TYPE DEPOSITORY: PURC.
 HOST: In muck around decaying roots of *Pontederia* in an extinct pond (Blatchley, 1922).
- lodingi** Blatchley, 1920b: 164 (*Hyperodes*). AL: Mobile; TX/ AL GA SC FL.
 TYPE DEPOSITORY: PURC.

lutulentus Boheman, 1843: 165 (*Erirhinus*). "Pennsylvania orientalis"; MN WI MI/ NE IA IL IN/ NY PA NJ DC/ CT/ TX/ LA MS FL.

angustus LeConte, 1876: 181 (*Anchodemus*). MI, IL, NY.

REDESCRIPTION: Blatchley, 1916: 227.

HOST: Swept from sedges.

maculatus Hatch, 1971: 294 (*Hyperodes*). OR; OR.

TYPE DEPOSITORY: USNM.

maculicollis Kirby, 1837: 200 (*Macrops*). Taken in lat. 65 degrees; AK/ BC OR ID/ AB/ MN WI MI PQ/ CA NV/ WY CO/ NE IL IN OH/ NY/ MA/ TX OK/ LA MS; Mex.

myasellus Dietz, 1889: 48 (*Macrops*). CO: South Park.

TYPE DEPOSITORY: MCZC.

mirabilis Dietz, 1889: 49 (*Macrops*). IL.

TYPE DEPOSITORY: MCZC.

manifestus Henderson, 1940: 269, pls. XXXV, XXXVI. TX: Gregory; TX; Mex.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: M.

REDESCRIPTION: O'Brien, 1977: figs. 2, 17.

HOST: Feeds on *Sagittaria longiloba* at night (O'Brien, 1981).

marshalli O'Brien, 1981: 103, figs. 19, 34. FL: Gulf Co., 1 mi. N. of White City; VA/ MS GA FL.

montanus Dietz, 1889: 39 (*Macrops*). "Illinois, Kansas, Nevada, Dakota, Montana"; OR/ AB SK MT ND/ MN/ NV/ WY UT CO/ KS IL IN.

TYPE DEPOSITORY: MCZC.

REDESCRIPTION: Blatchley, 1916: 170.

nebulosus LeConte, 1876: 133. MO; WI/ NE KS IA MO IL IN/ TX OK/ LA GA FL.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: F.

sulcirostris LeConte, 1876: 132. GA.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: F.

REDESCRIPTION: Blatchley and Leng, 1916: 159; Henderson, 1940: 302, pls. XXXII, XXXVI.

neocallosus O'Brien, 1981: 105, figs. 3, 27, 54. FL: Leon Co., Tall Timbers Research Station, Bird Window; FL.

HOST: Reared from leaf petiole and root collar of *Sagittaria engelmanniana* J.G. Smith; adults feed on *S. graminea* Michaux and *S. stagnorum* Small (O'Brien, 1981).

nevadicus LeConte, 1876: 135. NV; OR/ NV/ WY UT.

TYPE DEPOSITORY: MCZC.

REDESCRIPTION: O'Brien, 1981: 107.

novellus Blatchley, 1916: 174 (*Hyperodes*). FL: Dunedin and Sarasota; FL.

TYPE DEPOSITORY: PURC.

obscorellus Dietz, 1889: 45 (*Macrops*). TX, DC; CO/ NY NJ DC/ TX/ FL.

TYPE DEPOSITORY: MCZC.

REDESCRIPTION: Blatchley, 1916: 173.

obtectus Dietz, 1889: 47 (*Macrops*). AZ; AZ.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: M.

oregonensis oregonensis LeConte, 1857: 55 (*Listroderes*). OR: Shoalwater Bay; WA OR ID/ AB MB MT ND SD/ MN WI MI ON PQ/ WY CO/ NE KS IA MO IL IN OH KY/ NY PA NJ MD DC WV VA/ NH MA RI CT/ TX OK/ AR LA MS AL GA NC FL.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: F.

impressifrons LeConte, 1876: 134. GA, LA.

TYPE DEPOSITORY: MCZC.

rudipennis Blatchley, 1916: 162. IN: Lake Co.

TYPE DEPOSITORY: PURC.

IMMATURE STAGES: Peterson, 1951: 132 (larva).

REDESCRIPTION: Henderson, 1940: 289, pls. XXXIII, CCCVII; O'Brien, 1977: figs. 12, 15.

HOST: In stomachs of *Bufo americanus* and *B. terrestris*; reared from *Plantago major* and *Rumex patientia*; larvae reared from carrot, *Daucus carota*, curled-leaved parsley, *Apium petroselinum*, and dill, *Anethum graveolens*.

COMMON NAME: Parsley stalk weevil, parsley weevil, carrot weevil.

oregonensis tessellatus Casey, 1895: 828. CO: Denver; AB MT/ WY CO.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: F.

REDESCRIPTION: Henderson, 1940: 298.

pallidus O'Brien, 1981: 108, figs. 11, 26. TX: Cameron County, Brownsville; TX.

palustris Blatchley, 1916: 161, fig. 60. FL: Dunedin; GA FL.

TYPE DEPOSITORY: PURC.

TAXONOMY: Henderson, 1940.

REDESCRIPTION: Henderson, 1940: 281.

HOST: In stomachs of *Bufo terrestris*.

peninsularis Blatchley, 1916: 169 (*Hyperodes*). FL: Sanford; FL.

TYPE DEPOSITORY: PURC.

porcellus Say, 1831: 11 (*Listroderes*). United States; BC/ IA IL IN OH/ DC/ ME CT/ TX/ FL.

TYPE DEPOSITORY: Destroyed.

minimus Blatchley, 1916: 175 (*Hyperodes*). FL: Dunedin.

TYPE DEPOSITORY: PURC.

REDESCRIPTION: Blatchley, 1916: 177.

poseyensis Blatchley, 1920b: 164 (*Hyperodes*). IN: Posey Co.; IN/ OK/ MS.

TYPE DEPOSITORY: PURC.

pseudosetosus O'Brien, 1981: 110, figs. 12, 43. FL: Sarasota County, Myakka River State Park; MS FL.

punctiger LeConte, 1876: 135. "Dacota"; BC WA OR ID/ ND/ MN/ CA NV/ UT/ KS/ AZ NM TX OK; Mex.

TYPE DEPOSITORY: MCZC.

gracilis LeConte, 1876: 135. NV.

TYPE DEPOSITORY: MCZC.

bagoiformis Champion, 1902: 120, table 8, fig. 1, 1a. Mex.: Federal District.

TYPE DEPOSITORY: BMNH.

SEX OF TYPE: M.

leechi Sleeper, 1955: 156. BC: Lumby, Rawlings Lake.

TYPE DEPOSITORY: CNCI.

SEX OF TYPE: M.

REDESCRIPTION: O'Brien, 1977: 804, figs. 6, 24; and 1981: 112.

HOST: Found beneath stones.

rotundicollis LeConte, 1876: 132. GA; ND/ KY/ PA VA/ TX OK/ AR LA MS GA NC FL; Mex., C. Amer.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: F.

- cribricollis* LeConte, 1876: 134. GA.
 TYPE DEPOSITORY: MCZC.
 SEX OF TYPE: F.
 REDESCRIPTION: Blatchley and Leng, 1916: 157; Henderson, 1940: 271, pls. XXXIV, XXXVII; O'Brien, 1977: figs. 4, 25.
 HOST: Hides in fruiting heads of *Crinum* sp. in daytime (O'Brien, 1981).
- rubtzoffi** O'Brien, 1981: 113, figs. 17, 47. CA: Marin County, Laguna, Chileno Valley; CA.
 HOST: Breeds in stems and root collars of *Sagittaria cuneata* Sheldon (O'Brien, 1981).
- salicorniae** O'Brien, 1981: 115, figs. 4, 42. FL: Indian River County, 5 mi. S. of Vero Beach; TX/ FL.
 HOST: Glasswort or saltwort, *Salicornia*, many on *S. virginica* Linnaeus.
- scapularis** Casey, 1895: 828. TX: El Paso; KS/ TX; Mex., C. Amer.
 TYPE DEPOSITORY: USNM.
 SEX OF TYPE: F.
 REDESCRIPTION: Henderson, 1940: 277, pls. XXXV, XXXVI; O'Brien, 1977: figs. 1, 14.
 HOST: Swept from *Sagittaria* sp. and *S. longiloba*.
- setosus** LeConte, 1876: 134. FL, GA; NY/ MA/ TX/ GA FL.
 TYPE DEPOSITORY: MCZC.
 REDESCRIPTION: Blatchley and Leng, 1916: 163; Henderson, 1940: 315, pls. XXXIII, XXXVI.
- similis** Henderson, 1940: 304, pl. XXXVI. TX: Brownsville; TX.
 TYPE DEPOSITORY: MCZC.
 SEX OF TYPE: M.
 REDESCRIPTION: O'Brien, 1977: figs. 3, 18.
 HOST: Swept in numbers from *Polygonum bicorne* and *Paspalum distichum* at night (O'Brien, 1981).
- sordidus** Gyllenhal, 1834: 280 (*Listroderes*) (*inaequalipennis* of authors, misidentification, not Boheman 1842). "America boreali"; MN WI MI PQ/ CO/ IA MO IL IN KY/ NY PA NJ MD/ MA CT/ TX OK/ AR LA MS AL GA NC FL.
 TYPE DEPOSITORY: NHRS.
distinguentus Gyllenhal, 1834: 281 (*Listroderes*). "America boreali."
 TYPE DEPOSITORY: NHRS.
- obliquus** LeConte, 1876: 129. TX.
 TYPE DEPOSITORY: MCZC.
 SEX OF TYPE: F.
 REDESCRIPTION: Blatchley and Leng, 1916: 155; Henderson, 1940: 265, pls. XXXIII, XXXVI.
 HOST: In stomach of *Bufo valliceps*; in *Sagittaria engelmanniana* and *S. stagnorum* at night (O'Brien, 1981).
- sparsus** Say, 1831: 11 (*Listroderes*). MO; ND SD/ MN WI MI ON PQ/ WY/ NE KS IA MO IL IN OH/ NY PA NJ MD DC VA/ VT MA CT/ TX/ LA GA SC NC FL.
 TYPE DEPOSITORY: Destroyed.
- lineatulus* Say, 1831: 11 (*Listroderes*). Not given.
 TYPE DEPOSITORY: Destroyed.
- squalidus** Gyllenhal, 1834: 281 (*Listroderes*). "America borealis."
 TYPE DEPOSITORY: NHRS.
- immundus** Boheman, 1842: 198 (*Listroderes*). PA.
 TYPE DEPOSITORY: NHRS.
- latusculus** Boheman, 1842: 199 (*Listroderes*). PA.
 TYPE DEPOSITORY: NHRS.
- imbellis** Dietz, 1889: 45 (*Macrops*). "Louisiana, Washington Territory."
 TYPE DEPOSITORY: MCZC.
- longulus** Dietz, 1889: 44 (*Macrops*). "Dakota, Wyoming."
 TYPE DEPOSITORY: MCZC.
 IMMATURE STAGES: Boyce, 1927: 816, fig. 39 (egg, larva, pupa).
 REDESCRIPTION: Blatchley, 1916: 172.

squamiger Say, 1831: 11 (*Listroderes*). "Arkansaw"; BC OR/ AB SK MB MT ND SD/ MN WI MI ON/ CA/ CO/ NE KS IA IL IN OH/ NY PA NJ DE MD DC VA/ MA/ GA NC. The Say type-specimen was destroyed and a neotype from Iowa City, IA was designated.

TYPE DEPOSITORY: USNM (neotype).

SEX OF TYPE: M.

inaequalipennis Boheman, 1842: 189 (*Listroderes*). PA.

TYPE DEPOSITORY: NHRS.

SEX OF TYPE: M.

REDESCRIPTION: Blatchley and Leng, 1916: 155; Henderson, 1940: 251, pls. XXXV, XXXVI.

HOST: Reared from *Scirpus validus*; larvae in stems of broad-leaved arrowhead, *Sagittaria latifolia*, and in stems of *Sagittaria variabilis*; in stomachs of *Bufo americanus* and female water snake, *Natrix sipedon*.

suturalis O'Brien, 1981: 117, figs. 9, 29. TX: San Patricio County, Welder Wildlife Refuge; TX.

teretirostris LeConte, 1857: 55 (*teretirostris* incorrect; original spelling emended by LeConte, 1876: 135.). CA: San Francisco; CA.

TYPE DEPOSITORY: MCZC.

REDESCRIPTION: O'Brien, 1981: 119.

texanus Stockton, 1963: 142 (*Hyperodes*). TX: McAllen; TX/ LA.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: M.

HOST: Reared from parsley and carrot roots; in dill roots and stem; on celery stem.

truncatus Hatch, 1971: 295 (*Hyperodes*). "se B. C., e Wn., Id., Or., w Mont"; BC WA OR ID/ MT/ CA.

TYPE DEPOSITORY: USNM.

tuberosus LeConte, 1876: 130. "Southern States"; MB ND/ MN WI MI ON PQ/ NE KS IA MO IL IN OH/ NY PA NJ MD DC VA/ ME NH MA CT/ TX OK/ GA SC NC.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: M.

REDESCRIPTION: Blatchley and Leng, 1916: 154; Henderson, 1940: 260, pls. XXXI, XXXVII.

HOST: Bred from *Sagittaria*.

turbatus O'Brien, 1981: 120, figs. 18, 46, 53. FL: Leon Co., Tall Timbers Research Station, Sheep Isl.; TX/ LA GA FL.

HOST: Probably breeds in *Sagittaria* (O'Brien, 1981).

vitticollis Kirby, 1837: 200 (*Macrops*). Not given; WA OR ID/ AB MT ND/ MN/ NV/ WY UT CO/ NE KS IA/ TX.

interpunctatulus Dietz, 1889: 36 (*Macrops*). KS, TX, NE.

TYPE DEPOSITORY: MCZC.

interstitialis Dietz, 1889: 39 (*Macrops*). OR.

TYPE DEPOSITORY: MCZC.

tenebrosus Dietz, 1889: 38 (*Macrops*). "Montana, Dakota, Wyoming."

TYPE DEPOSITORY: MCZC.

ulkei Dietz, 1889: 37 (*Macrops*). "Dakota, Texas, Wyoming."

TYPE DEPOSITORY: MCZC.

wallacei Stockton, 1963: 140 (*Hyperodes*). FL: Dunellon; TX/ AR MS NC FL.

TYPE DEPOSITORY: USNM.

SEX OF TYPE: M.

Subfamily MOLYTINAE Schoenherr, 1826

Molytides Schoenherr, 1826; Molytinae Pascoe, 1870.

The composition of this subfamily recently has been modified drastically by Kuschel (1987) and now includes the "Hylobiinae," previously treated in this series by O'Brien and Marshall (1986). This subfamily also now includes the tribes Lymantini (formerly the subfamily Ithaurinae), Cycloterini, and Emphyastini. The last has been placed in the Cossoninae, the Onycholypinae, and more recently by Kuschel (1972) in the Rhyparosominae and then the Rhytirrhinae. More than 20 other additional tribes are included in the Molytinae by Kuschel (1987), but he provided no definition of the subfamily or a key to the tribes. I prefer to reserve judgment on placement of these additional tribes and do not include several of them here.

Tribe LYMANTINI Lacordaire, 1866**Genus DIOPTROPHORUS Faust**

Dioptrophorus Faust, 1892: 35 (type designation in key, p. 20; description of genus, p. 35).

Type-species: *Anchonos ocularis* Faust (orig. des.).

Metopotoma Casey, 1892: 689. Type-species: *Metopotoma repens* Casey (monot.).

Anculopus Van Dyke, 1927: 12. Type-species: *Anculopus foveatus* Van Dyke (orig. des.).

repens Casey, 1892: 690 (*Metopotoma*). CA: Humboldt Co.; WA OR/ CA.

foveatus Van Dyke, 1927: 13 (*Anculopus*). WA: Humptulips.

TYPE DEPOSITORY: CASC.

REDESCRIPTION: Hatch, 1971: 309.

Genus LYMANTEs Schoenherr

Lymantes Schoenherr, 1838: 1085. Type-species: *Lymantes scrobicollis* Schoenherr (orig. des.).

Typhloglymma Dury, 1901: 243. Type-species: *Typhloglymma puteolatum* Dury (monot.).

Stewpeckia Osella, 1980: 411. Type-species *Stewpeckia monophthalma* Osella (orig. des.).

TAXONOMY: Sleeper, 1965.

REDESCRIPTION: Blatchley, 1916: 552.

KEYS: Sleeper, 1965.

arkansasensis Sleeper, 1965: 151, figs. 3, 10. AR: "Washington-Benton Co."; OK/ AR.

TYPE DEPOSITORY: ELSC.

puteolatum dietrichi Sleeper, 1965: 150, figs. 1-12. MS: Lucedale; MO KY/ AR MS AL.

TYPE DEPOSITORY: CUIC.

puteolatum puteolatum Dury, 1901: 243, fig. 1 (*Typhloglymma*). OH: Batavia Junction, near Cincinnati; OH.

TYPE DEPOSITORY: Probably CMNH.

SEX OF TYPE: F.

TAXONOMY: Sleeper, 1965.

REDESCRIPTION: Sleeper, 1965: 148, figs. 1, 2, 5, 9, 11; Blatchley, 1916: 523.

sandersoni Sleeper, 1965: 151, fig. 4. MO: Iron Co., Anapolis, Champion Spring; MO/ OK/ AR.

TYPE DEPOSITORY: INHS.

REDESCRIPTION: Blatchley, 1916: 522.

scrobicollis Gyllenhal, 1838: 1086. "America borealis."

TYPE DEPOSITORY: NHRS.

REDESCRIPTION: Sleeper, 1965: 147, figs. 6-8, 12.

Tribe CYCLOTERINI Marshall, 1932

Cycloterina Marshall, 1932.

Genus GONONOTUS LeConte

Gononotus LeConte, 1876: 336. Type-species: *Gonontus lutosus* LeConte (monot.) = *angulicollis* (Suffrian).

Nemosinus Faust, 1892: 18. Type-species: *Anchonus angulicollis* Suffrian (monot.) = *angulicollis* (Suffrian).

REDESCRIPTION: Blatchley, 1916: 522.

angulicollis Suffrian, 1871: 181 (*Anchonus*). Cuba: Cardenas; FL; Mex., W. Ind.

TYPE DEPOSITORY: Probably Halle; destroyed.

lutosus LeConte, 1876: 337. FL: Haulover.

TYPE DEPOSITORY: MCZC.

angulicollis Chevrolat, 1876: CCXXVII (*Anchonus*) (not Suffrian, 1871). "Porto-Rico."

angulicollis (error, Wolcott, 1936: 311). (*Anchonus*).

REDESCRIPTION: Blatchley, 1916: 522.

Tribe EMPHYASTINI Arnett, 1963**Genus EMPHYASTES Mannerheim**

Emphyastes Mannerheim, 1852: 353. Type-species: *Emphyastes fucicola* Mannerheim (monot.).

Isonycholips Chujo and Voss, 1960: 12. Type-species: *Isonycholips gotoi* Chujo and Voss (monot.).

fucicola Mannerheim, 1852: 354. AK: Edgecombe Isl.; AK/ BC WA OR/ CA.

TYPE DEPOSITORY: UZMH.

HOST: Breeds in seaweed buried on beaches.

Genus THALASSELEPHAS Egorov and Korotyaev

Thalasselephas Egorov and Korotyaev, 1977: 47. Type-species: *Thalasselephas major* Egorov and Korotyaev (orig. des.).

Phycocoetes LeConte, 1876: 189 (preoccupied Agassiz, 1846). Type-species: *Phycocoetes testaceus* LeConte (monot.).

Neophycocoetes O'Brien and Wibmer, 1982: 4 (unnecessary replacement name for *Phycocoetes* LeConte). Type-species: *Phycocoetes testaceus* LeConte (automat.).

testaceus LeConte, 1876: 189 (*Phycocoetes*). CA: San Diego; BC OR/ CA.

TYPE DEPOSITORY: MCZC.

SEX OF TYPE: M.

HOST: On shore of bays, under seaweed.

Subfamily PETALOCHILINAE Lacordaire, 1863

Petalochilides Lacordaire, 1863; Petalochilinae Pascoe, 1870.

This small New World subfamily was redefined by Kuschel (1964) and now includes only 8 genera and 27 species. The only species listed here is *Hormops abducens* LeConte, which breeds in hardwood twigs and branches in the outer nest material of grey squirrels or fox squirrels. The association with rodent nests is apparently natural. The closely related Neotropical genus *Ctenomyophila* is also associated with rodent nests, both above and below ground.

Previously Kuschel (1952) had included numerous genera of palm weevils, which O'Brien and Wibmer (1982 and 1984) transferred to the tribe Derelomini of the Eriirrhinae after Kuschel (1964) rejected their placement in Petalochilinae, but Kuschel suggested no alternative subfamily for them. All of the genera included by Kuschel (1964) are cited in Wibmer and O'Brien (1986).

Genus **HORMOPS** LeConte

Hormops LeConte, 1876: 320. Type-species: *Hormops abducens* LeConte (monot.).

abducens LeConte, 1876: 321. FL: Capron; KS MO IN OH/ MD DC VA/ TX/ MS AL GA SC FL.

TYPE DEPOSITORY: MCZC.

latipennis Casey, 1924: 336. TX.

REDESCRIPTION: Blatchley, 1916: 189.

ECOLOGY: Young, 1950: 1.

HOST: In fox squirrel nests; berlesed often from grey squirrel nests.

Subfamily **TRYPETIDINAE** Lacordaire, 1866

Trypetides Lacordaire, 1866; Trypetina Champion, 1909; Trypetini LeConte, 1876.

This small subfamily was treated as a tribe of Cossoninae for many years and was transferred to the Petalochilinae by Kuschel (1952) when he redefined the latter subfamily. Later, Kuschel (1964) restricted the Petalochilinae to six genera and transferred the Petalochilinae members that were previously in the Cossoninae to the Trypetinae. In Wibmer and O'Brien (1986) the name is emended to Trypetidinae. Kuschel (1987) put the Trypetidini in the Molytinae, but I prefer to make no further changes without additional study.

The only genus and species mentioned below is *Nanus uniformis* (Boheman), which breeds in the inner bases of the leaf fronds of the Royal Palm, *Roystonea regia* Cook, on the tree or in the rolled leaf bases on the ground.

Genus **NANUS** Schoenherr

Nanus Schoenherr, 1844: 89 (described in Cossonidae (Cossoninae)). Type-species: *Nanus uniformis* Boheman (orig. des.).

Homaloxenus Wollaston, 1873b: 469 (described in Cossonidae (Cossoninae)). Type-species: *Homaloxenus dentipes* Wollaston (monot.) = *uniformis* (Boheman).

TAXONOMY: Kuschel, 1952.

uniformis Boheman, 1844: 90. "Porto-Rico....Cuba"; FL.

TYPE DEPOSITORY: NHRS.

dentipes Wollaston, 1873b: 615 (*Homaloxenus*). "St. Domingo."

TYPE DEPOSITORY: BMNH.

Subfamily **DRYOPHTHORINAE** Schoenherr, 1838

Dryophthorides Schoenherr, 1838; Dryophthorini LeConte, 1876.

The recognition of this subfamily has been controversial. Various genera have been placed in the Stromboscerini, Calendrinae, and others in the Dryophthorini and Cossininae. The genus *Dryophthorus* in America north of Mexico has been considered to belong to both subfamilies by various authors. Morimoto (1962) transferred the tribe Dryophthorini to the Calendrinae based on adult mouth parts. Anderson (1948) studied the larvae of the two New World genera, *Dryophthorus* LeConte and *Stenommatius* Wollaston, and placed them in the Stromboscerinae. *Dryophthorus americanus* Bedel is the only representative in America north of Mexico. In this subfamily, there are 7 genera and 52 species in the world.

The species breed in dead wood of various trees and shrubs. *Dryophthorus americanus* is especially common in dead pine trees and has been reared from hardwood as well.

Tribe DRYOPHTHORINI LeConte, 1876

Genus DRYOPHTHORUS Schoenherr

Dryophthorus Schoenherr, 1826: 332 (Paykull reference from Csiki, 1936). Type-species:

Curculio lymexylon Fabricius (orig. des.) = *corticalis* (Paykull).

Bulbifer Dejean, 1821: 99 (rejected genus-group name (ICZN, 1987). Type-species:

Curculio lymexylon Fabricius (monot.) = *corticalis* (Paykull).

Tetratemnus Wollaston, 1873a: 9. Type-species: *Tetratemnus sculpturas* Wollaston (monot.).

Tetraspartus Pascoe, 1885: 309. Type-species: *Tetraspartus bagoides* Pascoe (monot.).

IMMATURE STAGES: Anderson, 1948: 436 (larva), fig. 433 (larval heads); de Viedma, 1963: 259 (larval key).

americanus Bedel, 1885: 192. North America; OR/ WI MI PQ/ IA IN OH KY/ NY PA NJ DE MD DC VA/ VT MA CT/ AR MS TN GA SC NC FL.

corticalis Say, 1831: 24 (preoccupied Paykull, 1792). None given.

TYPE DEPOSITORY: Destroyed.

REDESCRIPTION: Blatchley, 1916: 524; Hatch, 1971: 390; Horn, 1873: 431.

HOST: Breeds in dead *Pinus* sp.

Subfamily TACHYGONINAE Lacordaire, 1866

Tachygonides Lacordaire, 1866; Tachygoninae Blatchley and Leng, 1916.

This small subfamily is represented in America north of Mexico by a single genus with nine species. In the world there are only 4 genera and 92 species (O'Brien and Wibmer, 1978).

The genus and the first species from America north of Mexico were described in 1833 by Schoenherr and Gyllenhal, respectively. Subsequently, the remaining eight species were described by LeConte, Casey, and Blatchley in several papers.

The larvae mine leaves of several hardwoods, including *Quercus*, *Robinia*, and *Ulmus*.

Genus TACHYGONUS Schoenherr

Tachygonus Schoenherr, 1833: 311. Type-species: *Tachygonus lecontei* Gyllenhal (monot.).

Tachyopus Zimmerman, 1840: 445 (unjustified emendation). Type-species: *Tachygonus lecontei* Gyllenhal (automat.). Zimmerman, 1840, emended *Tachygonus*, saying

Tachyopus was more descriptive based on the species habits and morphology. Sturm, 1843, used Zimmerman's emendation. Klima, 1936, incorrectly credited the emended name to Sturm, 1843.

KEYS: Blatchley and Leng, 1916: 94.

centralis LeConte, 1868: 55. NM: Trinchera Pass; CO/ AZ NM.

TYPE DEPOSITORY: MCZC.

HOST: On *Rhus aromaticum*.

fulvipes LeConte, 1876: 266. IL; IL/ AL.

TYPE DEPOSITORY: MCZC.

REDESCRIPTION: Blatchley and Leng, 1916: 95.

gracilipes Casey, 1897: 680. OH; IN OH/ PA DC.

TYPE DEPOSITORY: USNM.

REDESCRIPTION: Blatchley and Leng, 1916: 95.

HOST: On *Ulmus americanus* L.

lecontei Gyllenhal, 1833: 312. PA: Philadelphia; NY PA NJ MD DC/ TX/ AL GA SC NC FL.

TYPE DEPOSITORY: NHRS.

horridus Chevrolat, 1835: pl. 38. "Am. Bor. Philadelphia." Plates were published in 1835, but description was published in Guerin, 1844: 155.

REDESCRIPTION: Blatchley and Leng, 1916: 94.

HOST: Mines oak leaves.

minutus Blatchley, 1920a: 263. FL: Dunedin, "Skinners Hammock"; FL.

HOST: On limbs of recently felled pine.

nigrescens Blatchley, 1922: 98 (as variety of *fulvipes* LeConte). IL: Willow Springs; IL.

rhombus Casey, 1897: 681. AZ; AZ.

TYPE DEPOSITORY: USNM.

spinipes Casey, 1897: 680. NJ; NY NJ/ AR GA SC.

TYPE DEPOSITORY: USNM.

REDESCRIPTION: Blatchley and Leng, 1916: 94.

HOST: On oak.

tardipes LeConte, 1876: 266. TX; TX.

TYPE DEPOSITORY: MCZC.

Subfamily THECESTERNINAE Lacordaire, 1863

Thecestermides Lacordaire, 1863; Byrsopidae (of LeConte, 1874);

Thecesterminae Pierce, 1909.

Thecesterminae, often referred to in North America as the buffalo dung weevils, are medium-sized, robust, short- and broad-snouted weevils, that are associated with grasslands and pastures. The larvae are not yet described, but the biology of *Thecestermus hirsutus* LeConte is known (McClay and Anderson, 1985). The adults are often collected beneath dry dung (formerly buffalo dung, currently cow dung). Host information is spotty. The adults are commonly nocturnal in habit, which partly may explain their relative scarcity in collections. They are apterous and have been collected in numbers in unbaited pitfall traps set in natural prairies.

A single genus, *Thecestermus*, is known from North America, with eight species recognized as valid. A second New World genus, *Arodenius*, is found in South America and has two species. In addition, there are two other genera: one with three species in the palaeartic region and one that is monotypic and in Australia. The first U.S. species, *humeralis*, was described by Say (1826) in the genus *Brachycerus*. He planned to name a new subgenus at that time but inadvertently omitted the name, so the paper was published with a blank space in place of the name. He corrected this error and named the genus *Thecestermus* in 1831. LeConte (1856) described several species (in the genus *Lithodus*), all of which he subsequently synonymized with *T. humeralis* Say in 1876. Pierce (1909) described four new species and recognized three of LeConte's species as valid.

This genus needs to be revised, and though a small group, it presents some difficult taxonomic problems concerning taxonomic ranking, especially of the Great Plains complex. For example, populations could be identified as species, subspecies, races or ecotypes.

Adults are 5.2-10.0 mm, robust, and broadly oblong. The short broad rostrum fits into a broad, deep prosternal cavity in front of a distinct triangular prosternal plate. The antennae are relatively short and geniculo-capitate; they are commonly hidden in the prosternal cavity when the head is at rest. The body of fresh specimens is covered with coarse, short, dense pubescence, usually brown, white, and black, and often fasciculate on the elytra. This pubescence is frequently rubbed from older specimens and often is covered with an earthen coating. The tarsi are linear and are covered ventrally with sparse coarse setae. The New World species are tenebrionoid in appearance and rather cryptic, especially when earthen coated.

Genus **THECESTERNUS** Say

- Thecesternus** Say, 1831: 8. Type-species: *Brachycerus humeralis* Say (monot.). These are prairie and desert species, often found under stones and dry cow or buffalo dung.
Lithodus Germar, 1834: 420. Type-species: *Brachycerus humeralis* Say (monot.).
Thecesternus Gemminger, 1871: 2342 (unjustified emendation). Type-species: *Brachycerus humeralis* Say (automat.).
 TAXONOMY: LeConte, 1856: 18; Pierce, 1909: 334.
 REDESCRIPTION: Blatchley and Leng, 1916: 517.
 KEYS: Pierce, 1909: 334.
- affinis** LeConte, 1856: 18 (*Lithodus*). Probably NE: "Valley of the Platte River"; AB ND SD/ MN MI/ CO/ NE KS IA MO IL IN KY/ TX OK/ AR TN SC.
 TYPE DEPOSITORY: MCZC.
- erosus** LeConte, 1856: 18 (*Lithodus*). Probably NE: "Valley of the Platte River."
 TYPE DEPOSITORY: MCZC.
- morbillosus** LeConte, 1856: 19 (*Lithodus*). Probably NE: "Valley of the Platte River."
 TYPE DEPOSITORY: MCZC.
- rectus** LeConte, 1856: 18 (*Lithodus*). Probably NE: "Valley of the Platte River."
 TYPE DEPOSITORY: MCZC.
- rudis** LeConte, 1856: 18 (*Lithodus*). Probably NE: "Valley of the Platte River."
 TYPE DEPOSITORY: MCZC.
- albidus** Pierce, 1909: 338. NM: Albuquerque; NM TX.
 TYPE DEPOSITORY: USNM.
- foveolatus** Pierce, 1909: 335. TX: Marfa; NM TX.
 TYPE DEPOSITORY: USNM.
 HOST: Under stones in desert grassland.
- hirsutus** Pierce, 1909: 336. TX: San Diego; AZ TX; Mex.
 TYPE DEPOSITORY: USNM.
 HOST: On *Helianthus argophyllus*; on roots of *Parthenium confertum* (McClay and Anderson, 1985).
- humeralis** Say, 1826: 254 (*Brachycerus*). CO: "Headwaters of Arkansa [sic] River"; CO/ NE KS IA MO/ OK.
 TYPE DEPOSITORY: Destroyed.
 TAXONOMY: LeConte, 1856; Pierce, 1909.
 REDESCRIPTION: Blatchley and Leng, 1916: 517.
 HOST: Under dry buffalo and cow dung; on blossoms of grapevines in May; beaten from *Carya*.
- longior** LeConte, 1856: 19 (*Lithodus*). Probably NE: "Valley of the Platte River"; NE.
 TYPE DEPOSITORY: MCZC.
- maculosus** Pierce, 1909: 337. TX: Marfa; NM TX.
 TYPE DEPOSITORY: USNM.
 HOST: Common in pitfall traps in natural prairie.

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Boldface: Valid generic and subgeneric names;

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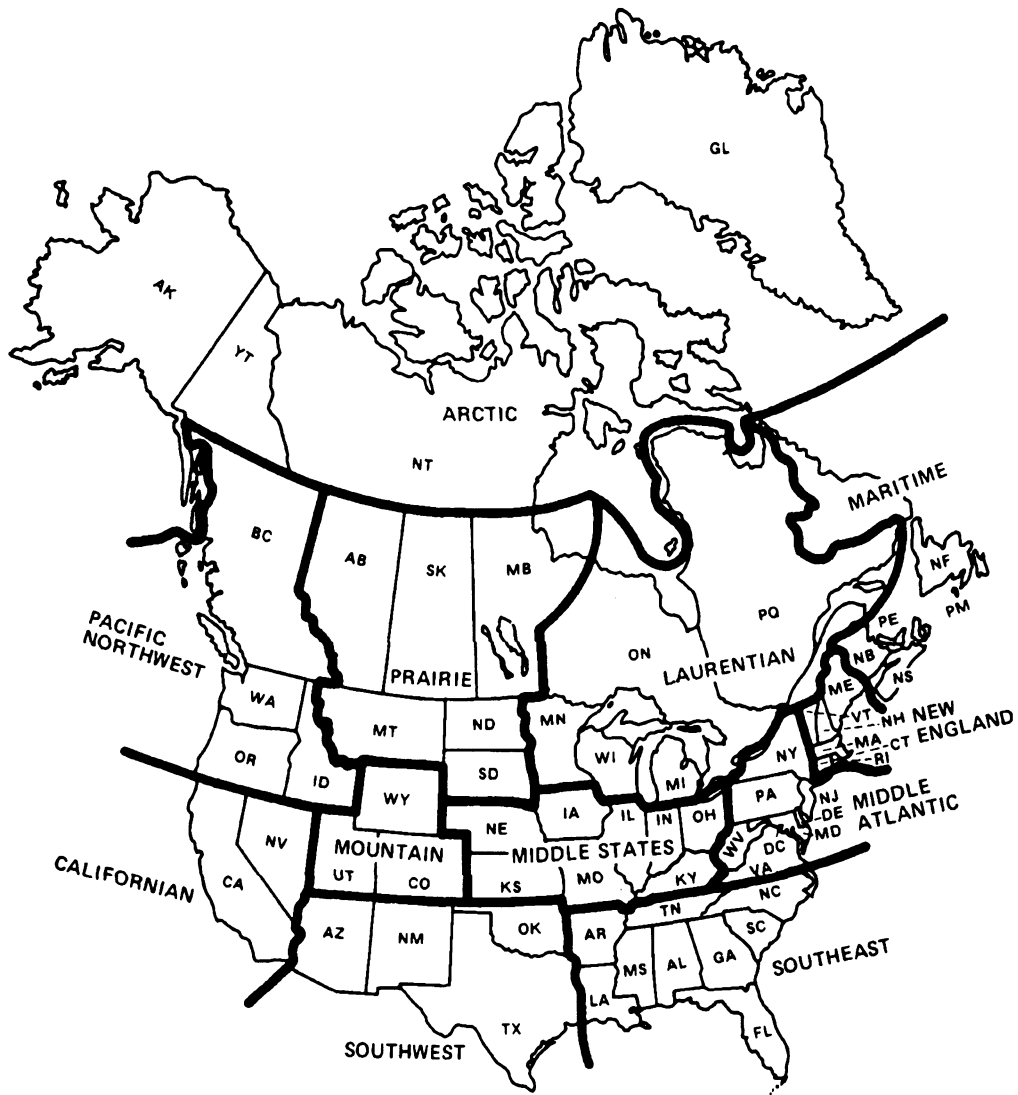
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<i>leucozonatus</i> Chittenden, Listronotus	15	<i>pacificus</i> Van Dyke, Cossonus	4
<i>linearis</i> LeConte, Macrancylus	5	<i>pallens</i> Casey, Rhyncholus	12
<i>lineatulus</i> Say, Listronotus	21	<i>pallidus</i> Boheman, Stenomimus	13
<i>Liolepta</i> Blatchley	13	<i>pallidus</i> O'Brien, Listronotus	20
<i>Listroderes</i> , error	15	<i>palustris</i> Blatchley, Listronotus	20
Listroderes Schoenherr	14	<i>Parahornia</i> Cockerell	9

Paralicus O'Brien	7	<i>solutus</i> Boheman, <i>Listronotus</i>	16
<i>parvicollis</i> Casey, <i>Pseudopentarthrum</i>	8	<i>sordidus</i> Gyllenhal, <i>Listronotus</i>	21
<i>parvula</i> Blatchley, <i>Himatium</i>	3	<i>spadix</i> Herbst, <i>Pselactus</i>	10
<i>parvulus</i> Broun, <i>Macrorhyncholus</i>	6	<i>sparsus</i> Say, <i>Listronotus</i>	21
<i>peninsularis</i> Blatchley, <i>Listronotus</i>	20	<i>spathula</i> Boheman, <i>Cossonus</i>	5
<i>Pentarthrinus</i> Casey	8	<i>spinipes</i> Casey, <i>Tachygonus</i>	27
Pentarthrum Wollaston	7	<i>spretus</i> Casey, <i>Rhyncholus</i>	12
PETALOCHELINAE	24	<i>spurcus</i> Boheman, <i>Listronotus</i>	16
Phloeophagus Schoenherr	10	<i>squalidus</i> Gyllenhal, <i>Listronotus</i>	21
<i>Phloeophagia</i> Aurivillius	10	<i>squamiger</i> Say, <i>Listronotus</i>	22
<i>Phycocoetes</i> LeConte	24	<i>stacesmithi</i> Sleeper, <i>Rhyncholus</i>	12
<i>piceus</i> Casey, <i>Pseudopentarthrum</i>	8	Stenancylus Casey	13
<i>pinguis</i> Horn, <i>Caulophilus</i>	12	Stenomimus Wollaston	13
<i>piniphilus</i> Boheman, <i>Cossonus</i>	4	Stenoscelis Wollaston	9
<i>platalea</i> Say, <i>Cossonus</i>	5	<i>stenosoma</i> Blatchley, <i>Stenancylus</i>	13
<i>politus</i> Casey, <i>Caulophilus</i>	12	<i>Stenotus</i> Wollaston	6
<i>ponderosae</i> Van Dyke, <i>Cossonus</i>	5	<i>Stewpeckia</i> Osella	23
<i>porcellus</i> Say, <i>Listronotus</i>	20	<i>subareatus</i> Boheman, <i>Cossonus</i>	5
<i>poseyensis</i> Blatchley, <i>Listronotus</i>	20	<i>subcibratus</i> Dietz, <i>Listronotus</i>	18
Proeces Schoenherr	6	<i>subcylindricus</i> Horn, <i>Mesites</i>	7
<i>protensus</i> Wollaston, <i>Phloeophagus</i>	10	<i>sulcirostris</i> Blatchley, <i>Trichacorynus</i>	6
<i>protractus</i> Horn, <i>Trichacorynus</i>	6	<i>sulcirostris</i> LeConte, <i>Listronotus</i>	19
Pselactus Broun	10	<i>suturalis</i> O'Brien, <i>Listronotus</i>	22
<i>Pseudacamptus</i> Champion	2	<i>Syntomocerus</i> Wollaston	11
<i>Pseudhyperodes</i> Hustache	15	TACHYGONINAE	26
Pseudopentarthrum Wollaston	7	Tachygonus Schoenherr	26
<i>pseudosetosus</i> O'Brien, <i>Listronotus</i>	20	<i>Tachyopus</i> Zimmerman	26
<i>Pseudostenotropis</i> Voss	6	<i>tardipes</i> LeConte, <i>Tachygonus</i>	27
<i>punctiger</i> LeConte, <i>Listronotus</i>	20	<i>tenebrosus</i> Dietz, <i>Listronotus</i>	22
<i>puteolatum</i> dietrichi Sleeper, <i>Lymantes</i>	23	<i>tenuis</i> Casey, <i>Aphanommata</i>	10
<i>puteolatum</i> puteolatum Dury, <i>Lymantes</i>	23	<i>teretirostris</i> LeConte, <i>Listronotus</i>	22
<i>quadrifidus</i> Van Dyke, <i>Cossonus</i>	5	<i>testaceus</i> Casey, <i>Carphonotus</i>	12
<i>quercicola</i> Boheman, <i>Tomolips</i>	9	<i>testaceus</i> LeConte, <i>Thalasselephas</i>	24
<i>rectus</i> LeConte, <i>Thecestermus</i>	28	<i>Tetraspartus</i> Pascoe	26
<i>relictus</i> Casey, <i>Rhyncholus</i>	11	<i>Tetratemnus</i> Wollaston	26
<i>Relistroides</i> Brethes	15	<i>texanus</i> Sleeper, <i>Acamptus</i>	2
<i>repens</i> Casey, <i>Diptrophorus</i>	23	<i>texanus</i> Stockton, <i>Listronotus</i>	22
<i>Rhamphocolus</i> Casey	10	<i>texanus</i> Van Dyke, <i>Cossonus</i>	5
Rhinaninus Broun	6	Thalasselephas Egorov and Korotyayev	24
<i>Rhinonus</i> Kuschel	13	<i>Thalattodora</i> Perkins	3
<i>rhombus</i> Casey, <i>Tachygonus</i>	27	THECESTERNINAE	27
RHYNCOLINI	7	Thecestermus Say	28
Rhyncholus Germar	11	<i>Thecestermus</i> Gemminger	28
RHYTIRRHININAE	13	<i>thujae</i> Brown, <i>Hexarthrum</i>	9
<i>rigidus</i> LeConte, <i>Acamptus</i>	2	Tomolips Wollaston	9
<i>robustum</i> Casey, <i>Pseudopentarthrum</i>	8	<i>Trachodema</i> Blanchard	14
<i>rotundicollis</i> Dietz, <i>Listronotus</i>	17	Trachodes Germar	1
<i>rotundicollis</i> LeConte, <i>Listronotus</i>	20	<i>Trachyglyphus</i> Broun	7
<i>rubtsoffi</i> O'Brien, <i>Listronotus</i>	21	Trichacorynus Blatchley	6
<i>rudipennis</i> Blatchley, <i>Listronotus</i>	20	<i>truncatus</i> Hatch, <i>Listronotus</i>	22
<i>rudis</i> LeConte, <i>Thecestermus</i>	28	TRYPETIDINAE	25
<i>rufipennis</i> Buchanan, <i>Cossonus</i>	5	<i>tuberosus</i> LeConte, <i>Listronotus</i>	22
<i>rufipennis</i> LeConte, <i>Mesites</i>	7	<i>turbatus</i> O'Brien, <i>Listronotus</i>	22
<i>salicorniae</i> O'Brien, <i>Listronotus</i>	21	<i>Typhloglymma</i> Dury	23
<i>sandersoni</i> Sleeper, <i>Lymantes</i>	23	<i>tythomimus</i> Champion	12
<i>scapularis</i> Casey, <i>Listronotus</i>	21	<i>ulkei</i> Dietz, <i>Listronotus</i>	22
<i>schaupii</i> Angell, <i>Listronotus</i>	17	<i>ulkei</i> Horn, <i>Hexarthrum</i>	9
<i>schwarzi</i> LeConte, <i>Listronotus</i>	16	<i>uniformis</i> Boheman, <i>Nanus</i>	25
<i>schwarzi</i> Van Dyke, <i>Cossonus</i>	5	<i>variolatus</i> Dury, <i>Aphanommata</i>	10
<i>scrobicollis</i> Gyllenhal, <i>Lymantes</i>	23	<i>vicinus</i> Hustache, <i>Listroderes</i>	14
<i>scrobiculatus</i> LeConte, <i>Cossonus</i>	5	<i>vitticollis</i> Kirby, <i>Listronotus</i>	22
<i>seriatus</i> Casey, <i>Nyssonotus</i>	7	<i>wallacei</i> Stockton, <i>Listronotus</i>	22
<i>setiger</i> Dietz, <i>Listronotus</i>	18	<i>wickhami</i> Dietz, <i>Listronotus</i>	18
<i>setosus</i> LeConte, <i>Listronotus</i>	21	<i>Wollastonia</i> Horn	9
<i>similis</i> Henderson, <i>Listronotus</i>	21	<i>Wollastoniella</i> Cockerell	9
<i>simplex</i> Casey, <i>Pseudopentarthrum</i>	8	<i>Xylocomesus</i> Thatcher	11



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