

University of Nebraska - Lincoln

DigitalCommons@University of Nebraska - Lincoln

Insecta Mundi

Center for Systematic Entomology, Gainesville,
Florida

March 2002

Insect species described from Big Bend National Park

Arnold F. Van Pelt
Greensboro, NC

Follow this and additional works at: <https://digitalcommons.unl.edu/insectamundi>



Part of the [Entomology Commons](#)

Van Pelt, Arnold F., "Insect species described from Big Bend National Park" (2002). *Insecta Mundi*. 546.
<https://digitalcommons.unl.edu/insectamundi/546>

This Article is brought to you for free and open access by the Center for Systematic Entomology, Gainesville, Florida at DigitalCommons@University of Nebraska - Lincoln. It has been accepted for inclusion in Insecta Mundi by an authorized administrator of DigitalCommons@University of Nebraska - Lincoln.

Insect species described from Big Bend National Park

Arnold F. Van Pelt
203 Howell Place
Greensboro, NC 27455

Abstract: The list contains 192 insect species, of which 139 are primary types. All have been described from material collected in or near Big Bend National Park, Texas

Keywords: Big Bend National Park, holotypes, paratypes, allotypes, types, primary types, insects

Introduction

Big Bend National Park is a large area of over 800,000 acres, the centerpiece of which is the Chisos Mountains, described as an island in the Chihuahuan Desert. Habitats range from the high Chisos Mountains, characterized by Ponderosa Pine (*Pinus ponderosa*), Arizona Cypress (*Cupressus arizonica*) and Douglas Fir (*Pseudotsuga menziesii*), through oak - pinyon - juniper and grassland associations to desert and the riparian vegetation along the Rio Grande. From Emory Peak (7825 feet), elevations descend steeply to foothills characterized by volcanic dikes and ash (about 3500 feet), and then a moderate slope to the Rio Grande River (about 2000 feet). Because of the variety of habitats and microhabitats the Park provides, numerous plant and animal species occur, some of which are endemic.

Big Bend National Park was established in 1944, and researchers have visited the Big Bend area and made collections of plants and animals since the 1800's. Over the years, species previously unknown from the Park have been collected there, and many of these have been new to science.

About 4600 species of insects have been documented in the Park, along with an extensive bibliography (Van Pelt, 1999). From this material, 139 specimens have been designated primary types (three of which are syntypes) from a total type list of 192 designations. The orders with the largest number of species are Coleoptera and Lepidoptera. The present list is organized phylogenetically by orders, and alphabetically by families and genera. The entries in the list contain the type locality, and references to the appropriate papers are appended. Full citations are listed at the end of this paper under References. Dates are included in the format

that the investigators used, e.g., months are either in Arabic or Roman numerals. A "\$" symbol following an entry in References section papers cited here; the other references should be of aid to investigators who use this list. If a species has become a synonym, that name will appear in brackets.

Acknowledgements

Several entomologists were kind enough to aid in various ways in the preparation of this paper: R. S. Anderson; C. L. Bellamy; H. R. Burke, C. E. Carlton; B. N. Danforth; A. T. and H. F. Howden; E. C. Knudson, G. H. Nelson, C.W. O'Brien; W. Pula-waski; and R. L. Westcott, and several others on specific issues. Knudson has worked on the Lepidoptera of the Park for many years, and continues to provide valuable and extensive information on that group. I appreciate the help that these and other entomologists have provided.

Abbreviations

Collecting sites: **BBNP** - in Park, area not designated; **CA** - Castolon; **CB** - Chisos Basin; **CF** - Cattail Falls; **CM** - Chisos Mountains; **CS** - Croton Springs; **DW** - Dugout Wells; **GG** - Green Gulch; **GH** - Grapevine Hills; **GnS** - Glenn Springs; **GrG** - Grama Grassland; **GS** - Government Springs; **HS** - Hot Springs; **JC** - Juniper Canyon; **KB** - K - Bar Research Station; **LBC** - Lower Blue Creek; **MS** - Mariola Scrub; **NM** - Nugent Mountain; **OC** - Oak Creek; **OS** - Oak Springs; **PC** - Pine Canyon; **PJ** - Panther Junction; **RGV** - Rio Grande Village; **RM** - Rosillos Mountains; **RMS** - Rosillos Mountains Summit; **SEC** - Santa Elena Canyon; **TC** - Tornillo Creek; **TeC** - Terlingua Creek; **TF** -

Tornillo Flat; **UTC** - Upper Tornillo Creek; **WT** — Window Trail.

Collectors: **AB** - Andre Blanchard; **AVP** - A. F. Van Pelt; **CAT** - Charles A. Triplehorn; **ECK** - Ed C. Knudson; **GHN** - G. H. Nelson; **HFH** - Henry F. Howden; **HRB** - Horace R. Burke; **JA** - J. Apperson; **JEH** - J. E. Hafern timer; **JNK** - Josef N. Knull; **RHB** - Rollin H. Baker; **RLW** - R. L. Westcott; **RSA** - Robert S. Anderson; **WFB** - W. F. Barr

Table I. Depositories

AMNH - American Museum of Natural History, NYC; **ANSP** - Academy of Natural Sciences of Philadelphia; **BARC** - Beltsville Agricultural Research Center; **BBNP** - Big Bend National Park, TX; **BMNH** - British Museum of Natural History, London; **CASC** - California Academy of Science Collection, San Francisco; **CDAS** - California Department of Agriculture, Sacramento; **CMNC** - Canadian Museum of Nature Collection, Ottawa; **CNCI** - Canadian National Collection of Insects, Ottawa; **CSWC** - C. S. Wolfe Collection, Fort Worth, TX; **DCCC** - D. C. Carlson Collection, Orangevale, CA; **DGMC** - D. G. Marqua Collection, Fort Davis, TX; **DWSC** - D. W. Sundberg Collection, San Antonio, TX; **DEFW** - Department of Entomology, Fisheries and Wildlife, University of Minnesota, St. Paul; **EGRC** - E. G. Riley Collection, College Station, TX; **ELSC** - E. L. Sleeper Collection, Long Beach, CA; **FSCA** - Florida State Collection of Arthropods, Gainesville; **FMNH** - Field Museum of Natural History, Chicago; **HAHC** - H. and A. Howden Collection, Ottawa ON (Types deposited in CMNC); **JEWC** - J. E. Wappes Collection, Bulverde, TX; **IPL** - accession #'s of computerized collection, BARC; **KSBS** - Biological Survey of Kansas Invertebrate Collection, University of Kansas, Lawrence; **KSUC** - Department of Entomology Collection, Kansas State University, Manhattan; **LACM** - Los Angeles County Museum of Natural History; **MSUC** - Michigan State University, East Lansing; **MCZC** - Museum of Comparative Zoology, Cambridge, MA; **NCSU** - North Carolina State Museum, Raleigh; **OSUC** - Ohio State University, Columbus; **OSUO** - Oregon State University, Corvallis; **SEMC** - Snow Entomological Museum, University of Kansas, Lawrence; **TAMU** - Texas A & M University, College Station; **UCDC** - University of California, Davis; **NMNH (USNH)** - Nation-

al Museum of Natural History (United States National Museum), Washington, DC; **UMMZ** — Museum of Zoology, University of Michigan, Ann Arbor; **WBWC** - W. B. Warner Collection, Phoenix, AZ

Table II. Insect species

Heteroptera

Phytocoris cinereus Stonedahl - Miridae [PARATYPE] (TAMU) (Stonedahl, 1988); GG, 5700', 08 - 14 - 68, JEH (Holotype from Colorado)

Menecles portacrus Rolston - Pentatomidae [HOLOTYPE, male] (AMNH) Lost Mine Trail, 5800 feet [PARATYPE] GG, 5700', 07 - 24 - 68, JEH (Rolston, 1973)

Homoptera

Athysanella spatulata Ball & Beamer - Cicadellidae [PARATYPES] (SEMC) Marathon, 07 - 09 - 38, RH Beamer (Ball & Beamer, 1940); Burro Mesa, on *Heteropogon contortus*, R. Whitcomb, det: Hicks (Whitcomb, BBNP file letter, 1985)

Flexamia bandarita Whitcomb & Hicks - Cicadellidae [HOLOTYPE, male] CM, on *Bouteloua curtipendula*, 7 Aug 1987, 5200 ft, IPL 003262, Whitcomb, R., (NMNH, BARC); [PARATYPES]: 2m, 1f, same collection data, Texas; Marathon Basin, 8 Aug 1984 (NMNH, BARC, KMNH, KSUC); CM, 17 July 1946, D.J. & J.N. Knull (OSUC) (Whitcomb and Hicks, 1988)

Flexamia zacata Whitcomb & Hicks - Cicadellidae [HOLOTYPE] PJ, on *Muhlenbergia porteri*, 26 Aug 1985, 3600 ft, Whitcomb & Hicks, IPO 002093 (NMNH, BARC); [PARATYPES]: 33m, 10f, same locality and date, IPO 002057, 25 Aug 1985; 13m, 4f, same locality and date (NMNH, BARC, CNCI, KMNH, KSUC, OSUC) (Whitcomb and Hicks, 1988)

Neuroptera

Brachynemurus marshi Stange - Myrmeleontidae [HOLOTYPE] (UCDC) [PARATYPE] (UCDC) (FSCA) both 22 mi. S. Marathon (Stange, 1970)

Brachynemurus nigrescens Stange - Myrmeleontidae [PARATYPES] (UCDC) 22 mi. S. Mara-

thon, 09 - 03 - 60, L. Stange; Tornillo Flat, 08 - 12 - 48, W. Nutting & F. Werner; Terlingua, 07 - 03 - 48, C & P Vaurie (Stange, 1970)

Coleoptera

- Elonus chisosensis* Werner - Aderidae [HOLOTYPE, male] (MCZC) CM, vii - 9 - 1948, F. Werner; [PARATYPES] (BMNH, CNCI & Univ. Arizona, Tucson) one same data as holotype + two from CB at light, May 1, 1959 and May 29, 1959, Howden/Becker (Werner, 1992)
- Eugnampthus pseudonigriventris* Hamilton - Atte-labidae [HOLOTYPE] BBNP, 05 - 05 - 69, FJ Moore & RL Berry + [ALLOTYPE] CM, 05 - 14 - 78, AE&DS Lewis + [PARATYPE] PC, 06 - 05 - 70, 5100', UV trap, CW O'Brien + [PARATYPE] CB, Apr '63, JB Karren (all NMNH) (all Hamilton 1990)
- Haplorhynchites pseudomexicanus* Hamilton - Atte-labidae [PARATYPE] (NMNH) Marathon, 08 - 05 - 64, HRB & JA (Hamilton, 1974)
- Pselaphorhynchites dilatarostris* Hamilton - Atte-labidae [HOLOTYPE AND ALLOTYPE] (NMNH) CM, R&L Hamilton, July 16, 18, 19 (Hamilton, 1971)
- Acmaeodera riograndei* Nelson - Buprestidae [HOLOTYPE] (NMNH) OS, 06 - 24 - 71, on bloom of *Cirsium* sp., G. Nelson; [ALLOTYPE] same data, (NMNH); [PARATYPE] same site, 25 - VI - 1971 (several collections including AMNH) + 5 km E PJ, GHN, on yellow composite blossom (Nelson, (1980) + Castolon, 18 - VII - 67, JW Tilden + CB, 15 - VI - 48, M. Cazier
- Acmaeodera tiquilia* Westcott & Barr - Buprestidae [HOLOTYPE] (CASC) "Lower PC, VII - 16 - 84" ex *Tiquilia canescens*, WFB + [PARATYPES] (BBNP, NMNH) ex *T. greggii*, 16/17 - VII - 84, 2.4 mi. west PJ, 6 mi. SE PJ, all WFB + PC Rd., 1160 - 1190m + GnS Rd. 945m, 15 - VII - 86 + 1.6 mi W Basin Jct., all RLW (Westcott & Barr, 1998)
- Acmaeodera wenzeli* Van Dyke - Buprestidae [HOLOTYPE] (CASC) CM, 19 - VII - 1917?, HA Wenzel (Van Dyke, 1919); [PARATYPE] (CASC) PC, 5000 - 5700', 6/30 to 7/2/72, on *Acacia*, RL Westcott; CM, 07 - 09 - 36, 07 - 04 - 41, on *Acacia farnesiana*, JN Knull
- Acmaeoderopsis chisosensis* (Knull) - Buprestidae [= *Acmaeodera*] [HOLOTYPE] (FMNH) CM, 06 - 09 - 39, J Knull; [PARATYPES] (FMNH & OSUC) CM, 07 - 23, JN Knull; Castolon, 04 - 21 - 73, S. Wellso; near Boquillas, 04 - 16 - 83, dead mesquite, S. Wellso (Knull, 1952); 06 - 27 - 63, on *Acacia constricta*, GHN, det. GHN '82 (ex TAMU) (Knull, 1952)
- Agrilus obscurilineatus* Vogt - Buprestidae [= *A. chisosanus* Knull] [HOLOTYPE] (FMNH) CM, 07 - 08 - 55, DJ&JN Knull (Knull, 1956) (Vogt, 1949)
- Agrilus putillus paraputillus* Knull - Buprestidae [HOLOTYPE] (FMNH) PC, 05 - 10 - 59; Pulliam Canyon, 500', 05 - 17 - 59, H Howden, det: Knull; CM, 05 - 08 - 74, G. Manley, det: Manley; [PARATYPE] (CNCI & OSUC) on maple (*Acer grandidentatum*) PC, 5 - 10 - 59, Becker & HFH (paratypes coll. 5 - 4&7 - 59, HFH & Becker) Boot Spring, 05 - 18 - 59, Pulliam Canyon, 5000', 05 - 17 - 59, in dead maple twigs, Howden/Becker, det: JNK (Knull, 1960a)
- Brachys querci* Knull - Buprestidae [PARATYPE] (FMNH) CM, 06 - 09 - 31, JNKI; CM, 07 - 17 - 46, JNK [PARATYPES] (FMNH) (Knull, 1952)
- Buprestis parmaculiventris* Knull - Buprestidae [HOLOTYPE, male] (FMNH) CM, 06 - 30 - 57, on pine, DJ&JN Knull (Knull, 1958); CB, 06 - 2 - 65, on *Pinus cembroides*, G Nelson
- Chrysobothris acaciae* Knull — Buprestidae [PARATYPE] (OSUC) "Big Bend", 6-24-47, HR Beamer (Knull, 1954) (Holotype from Davis Mountains)
- Chrysobothris beameri* Knull - Buprestidae [HOLOTYPE, male] (SEMC) Big Bend, 06 - 24 - 47, R Beamer (Knull, 1954)
- Paratyndaris acaciae* (Knull) - Buprestidae [= *Ancylotela*] [PARATYPE] (OSUC & NMNH) CM, 07 - 09 - 36, JNK; CM, 06 - 09 - 39 + CM, July 9 - 17, HA Wenzel (Knull, 1937) (Holotype from the Davis Mountains, deposited in FMNH)
- Spectraliaroburella* (Knull) - Buprestidae [= *Cinyra*] [PARATYPE] (FMNH) July 17, HA Wenzel; CM, 07 - 17 - 55, 07 - 08 - 55, JNK (Knull, 1941) (Holotype from Davis Mts.)
- Caccodes chisosensis* (Fender) - Cantharidae [= *Malthinus*] [HOLOTYPE] (OSUC) CM, 07 - 08 - 55, J.N. Knull (Fender, 1963)
- Chauliognathus discus* LeConte - Cantharidae [TYPE, male] [Original combination] (MCZC, #2817) Texas (LeConte, 1853); [= *C. texanus* Fender] (Fender, 1943) CM, 07-09-36 [ALLOTYPE] (OSUC) CM, J.N. Knull + CM, July, H. Wenzel; CM, 06-09-36, JNK

- Silis vandykei* Green - Cantharidae [PARATYPE] CB, 16 - VII - 56, H&A Howden + Boot Spr., BBNP, 7000' + PC, 5000' + GG, 5300', 4 - V - 59 to 20 - V - 59, Howden/Becker + CM, 18 - VII, JW Green + CM, 20 - 21 June, 1961, DJ&JN Knull + CM, 07 - 28 - 62, DJ&JN Knull (CASC, OSUC, CNCI) (Green, 1966)
- Anelaphus subinermis* Linsley - Cerambycidae [HOLOTYPE, male] (CASC) Marathon [TYPE LOCALITY] (Linsley, 1963) (Linsley, 1957); K - Bar Cpgd., 3400', UV light, 06 - 29 - 82, RSA (TAMU)
- Coleomethia evaniformis* (Knull) - Cerambycidae [= *Methia*] [ALLOTYPE] [PARATYPES] (FMNH) CM, 07 - 09 - 36 JN Knull (Knull, 1937); 06 - 20 - 64, JN Knull; CM, ex *Quercus* (Linsley, 1962b) (Knull, 1937)
- Comacmaeops brunnea* (Knull) - Cerambycidae [= *Brachysomida*] [HOLOTYPE] (CNCI) PC, 5000', 05 - 04 - 59, on *Pinus cembroides* Zucc., Howden; [PARATYPE] (CNCI) CB, 5400 - 6000', 05 - 04 - 59, W. Mason + 5 - 4 - 59, in pinyon pine, JF McAlpine (Knull, 1962); CB, 5500', 06 - 23 - 61, JNK
- Cyrtinus beckeri* Howden - Cerambycidae [PARATYPES] (CNCI) PC, 5000', on *Acer grandidentatum*, 05 - 10 - 59; Boot Canyon, 7000', on *Acer grandidentatum* and *Quercus*, 05 - 07 - 59; Boot Spring, ex *Acer grandidentatum*, 05 - 18 - 58 (all from Howden, 1960b)
- Elaphidion linsleyi* Knull - Cerambycidae [PARATYPES] (U. Cal. & OSUC) CM, 6 - 30 - 57, 6 - 17 - 58, 6 - 27 - 59, JN Knull (Knull, 1960b)
- Gymnopsysra aspersa* Knull - Cerambycidae [HOLOTYPE] (FMNH) PJ, 4000', 05-01-59, HFH/Becker; [ALLOTYPE] CM, 05-01-59, HFH/Becker [PARATYPES] (CNCI & FMNH); CB, 05-19-59, HFH/Becker, PJ, 4000', 04/29-30/59, HFH/Becker; TF, 05-12-59, HFH/Becker; all at light (Knull, 1962)
- Heterachthes texanus* Linsley - Cerambycidae [HOLOTYPE, male] (CASC) CM [TYPE LOCALITY] Linsley (Linsley, 1963)
- Methia lata* Knull - Cerambycidae [HOLOTYPE] (FMNH) CM, 06 - 30 - 57, at light, JN Knull (Knull, 1958) (Linsley, 1962b)
- Obrium beckeri* Knull - Cerambycidae [HOLOTYPE] (FMNH) Tornillo Flat, 3200', 05-20-59, at light, HFH/Becker; [PARATYPES] TF, 3200', 5-20-59, HFH/Becker; CM, June '49?, '61, '67, '68, JN Knull; PJ, 05-20-59 & 5/19-28/59, at light, HFH/Becker; 3 mi. N GnS, 05-24-59, at light, HFH/Becker; OS, 4000', 05-22-59, at light, HFH/Becker; CB, 06-26-61, 5500', JNK (all Knull, 1962)
- Stenosphenus sobrius* (Newman) - Cerambycidae [= *S. texanus* Knull] [PARATYPES] (OSUC) CM, 7 - 9 - 36, DJ&JN Knull; [= *S. piceus* Knull] [PARATYPES] (OSUC) CM, 7 - 17 - 46, DJ&JN Knull (both synonyms from Knull, 1946) (Newman, 1840) (Giesbert & Chemsak, 1989)
- Acanthoscelides subaequalis* Johnson - Chrysomelidae [Bruchinae] [PARATYPE] (CUIC) "Brewster Co., 3 mi. NE Hot Springs", 07 - 15 - 41 (Johnson, 1970)
- Keithatus blakeae* (BE White) - Chrysomelidae [= *Scelolyperus*] [HOLOTYPE] (CASC, male) CM, Big Bend State Park, 7/12 - 16/41, B. White, det: White [ALLOTYPE] (CASC) same data as holotype [PARATYPES] (NMNH, BMNH, & AMNH) same data (White, 1944)
- Luperaltica nitida* Wilcox - Chrysomelidae [HOLOTYPE AND ALLOTYPE] (OSUC) [PARATYPE] (NMNH) CM, 07 - 17 - 46, DJ&JN Knull (Wilcox, 1953); GG, 07 - 24 - 68, JEH, det. EG Riley '90
- Mimosestes acaciastes* Kingsolver & Johnson - Chrysomelidae (Bruchidae) [PARATYPE] (TAMU) Marathon, 37 mi. S., 06 - 09 - 72, WEC, det. CD Johnson; CM, 07 - 14 - 41, WF Barr + 07/12 - 16/41, BE White & CB, 08 - 15 - 68, JEH (Kingsolver & Johnson, 1978)
- Cymatodera chisosensis* Barr - Cleridae [HOLOTYPE, male] (CASC) CM, 04 - VII - 1946, EC Van Dyke; [ALLOTYPE, female] CB, 15 - VI - 1948 (M. Cazier) (AMNH); [PARATYPES] CB, 5000', 8 to 11 - VI - 1948, GE Ball + 24 - VI - 1963, GHN + 13 - VIII - 1962, HV Weems, Jr. + 29 - IV - 1957, 11, 25, 28, 29 - V - 1959, HFH & Becker + Pulliam Canyon, 17 - V - 1958, HFH & Becker + OS, 2 and 8 - V - 1959, HFH & Becker + Juniper Canyon, 13 - VII - 1928, FM Gaige + PC, 5100', 05 - VI - 1970, CW O'Brien + PJ, 29, 30 - IV - 1959, & 05 - V - 1959, HFH & Becker + 9 to 10 - VI - 1948, HS Barber + CM, 09 to 12 - VII - 1948, F. Werner & W. Nutting (CASC, CNCI, NMNH, Univ. Mich., Texas Tech. Univ., Fla. Dept. Agr., GHN Coll., WFB Coll.) (Barr, W., 1972)
- Cymatodera dietrichi* Barr - Cleridae [HOLOTYPE] CM, 03 - VII - 1941 (Barr, 1952) [ALLOTYPE] CM, 05 - VII - 1942; [PARATYPES]

- BBNP, 16 - VI - 1948, MA Cazier; CB, 5000', 8 to 11 - VII - 1948, GE Ball; Juniper Cyn., 6000', 14 - VII - 1928, FM Gaige; CM, 09 - VI - 1938, DJ&JN Knull + 07 - 14 - 41 (Barr, 1952) + 14 - VII - 1942, 09 to 12 - VII - 1948, F Werner & W Nutting (all CASC) (Barr, 1952)
- Cymatodera werneri* Barr - Cleridae [HOLOTYPE, male] [ALLOTYPE, female] (CASC) CM, 5200', 7/9 - 12/48, F. Werner & W. Nutting; [PARATYPES] CM, 7/9 - 12/48, F. Werner & W. Nutting; PJ, 6/9 - 10/48, HS Barber; CB, 5000', 7/8 - 11/48, GE Ball; CM, Jul., JN Knull; CB, 6 - 15 - 48, MA Cazier; Tornillo Flat, 7 - 12 - 48, F Werner & W Nutting (CASC) (Barr, 1952)
- Curculio macrodon* Chittenden - Curculionidae [HOLOTYPE] [=C. ruficristatus Chittenden] (NMNH) CM, Jul 17, HA Wenzel (Chittenden, 1927)
- Curculio sulcatulus* (Casey) - Curculionidae [HOLOTYPE] [=C. striatus Chittenden] (NMNH) CM, Jul 17, HA Wenzel (Chittenden, 1927)
- Curculio wenzeli* Chittenden - Curculionidae [HOLOTYPE, female] [ALLOTYPE] (NMNH) CM, Jul 17, HA Wenzel (Chittenden, 1927); (Gibson, 1969) (O'Brien & Wibmer, 1982)
- Epimechus hesperius* Clark & Burke - Curculionidae [PARATYPE] (NMNH) CM, 10 - 12 - VI - 1908, Mitchell & Cushman (Clark & Burke, 2002)
- Leptopinara flemingi* Anderson - Curculionidae [HOLOTYPE] (CMNC) Cattail Falls, 1310m, 9 - 6 - 88, RSA (Anderson, 1993)
- Macroscytalus chisosensis* (O'Brien) - Curculionidae [=Rhinanisus] [HOLOTYPE & ALLOTYPE] (NMNH) GG, 5300', 26 - III - 70, L&CW O'Brien, in leaves of dead *Agave havardiana* where it breeds; [PARATYPES] (CW O'Brien Coll., NMNH, TAMU) same data, CW O'Brien + Maple Canyon, 5200', 04 - 27 - 52, H.Dybas (O'Brien, 1973)
- Minyomeres conicollis* Green - Curculionidae [HOLOTYPE] (CASC) "south of Alpine, toward the Chisos Mountains", 07 - 15 - 1911, Wenzel & Green (Green, 1920)
- Myrmex chisosensis* Sleeper - Curculionidae [HOLOTYPE, female] (ELSC, Sleeper Coll., to be moved to CASC) Mariscal Mts. (Sleeper, 1954)
- Pandeleiteinus elytroplanatus* Howden - Curculionidae [PARATYPE] Terlingua, 05 - 06 - 1927, J.O Martin (CASC, CNCI, NMNH) (Howden, 1959)
- Pandeleiteius defectus* Green - Curculionidae [HOLOTYPE] (CASC) CM, 07 - 22 - 1911, Wenzel & Green (Green, 1920)
- Pandeleiteius dentipes* Pierce - Curculionidae [HOLOTYPE] (NMNH) Mariscal Mtn. and CM, May, June, July (Pierce, 1913)
- Pandeleiteius simplarius* Fall - Curculionidae [HOLOTYPE] [=P. spatulatus Green 1920] (ANSP) CM, 07 - 19 - 1911, Wenzel & Green (Green, 1920) (Howden, 1959)
- Stictotarsus titulus* (Leech) - Dytiscidae [HOLOTYPE] [=Deronectes] (NMNH) "Green Valley" (Leech, 1948). See [=Decodes], (Zimmerman and Smith, 1975), and later papers by Zimmerman.
- Cardiophorus pallidus* Dajoz - Elateridae [HOLOTYPE] Boquillas Cyn., 07 - IV - 2000, R. Dajoz; [PARATYPES 7 males, 4 females], same locality, 07 to 18 April, 2000, Dajoz (Dajoz coll.) (Dajoz, 2000)
- Megapenthes texanus* Becker - Elateridae [PARATYPE] (CNCI) Boquillas, 1850 ft., May 28 + CB, May 9 to June 28 + CM, June 10 to June 28 + Juniper Canyon, July 10 - 24 + Glenn Sprs., 5 mi. N., 3000', May 24 + Panther Jct., 4000', May 19 & 24 (all Becker, 1971)
- Melanotus hamatus* Knull - Elateridae [HOLOTYPE, male] (FMNH) [ALLOTYPE] [PARATYPE] (FMNH & HAHC) CM, July 8, 1936, JNK; [PARATYPES] labeled Chisos Basin, July 16 & 17, 1956, H&A Howden; CB, July 4 & 5, 1942, HA Scullen (Knull, 1959)
- Bolborhombus angulus* (Robinson) - Geotrupidae [HOLOTYPE, male] [=Bolbocerus] (NMNH) Dog Canyon, M. Robinson (Robinson, 1947); Glenn Springs, Boquillas, July 7 - 29, O. Cartwright; Tornillo Flats, Panther Jct., May 1959, H. Howden (Howden, 1960a)
- Cymbiodyta beckeri* Smetana - Hydrophilidae [HOLOTYPE] (CNCI) Santa Elena Canyon, 2200', at light, 05 - 04 - 59, Howden/Becker; CM, 07 - 16 - 21, CD Duncan (Smetana, 1974)
- Pelosoma praecursor* Smetana - Hydrophilidae [HOLOTYPE] Panther Jct., 4000', Apr 29 - 30/59, at light, Howden/Becker (CASC, Smetana Coll.) (Smetana, 1978)
- Celetes dehiscens* Green - Lycidae [HOLOTYPE, male] (OSUC) CM, 07 - 17 - 40, DJ&JN Knull, [unique] (Green, 1952)
- Celetes pallidus* Green - Lycidae [HOLOTYPE, male] (OSUC) CM, July 17, 1940, DJ&JN Knull

- [PARATYPES, 5 males] (CASC, UMMZ) CM, July 4 to 22 (Green, 1952)
- Lycus sagittatus* Green - Lycidae [HOLOTYPE male][ALLOTYPE female] (OSCU) CM, 06 - 09 - 39, DJ&JN Knull; [PARATYPES] CM, 06 - 09 - 39 (ANSP, OSUC, CASC, Green Coll.) (Green, 1949)
- Thambospasta howdeni* Werner - Meloidae [HOLOTYPE, new genus] (CNCI) Boquillas, 1850', 05 - 23 - 59, Howden/Becker, det: Werner '74 (Werner, 1974)
- Zonitis interpretis* Enns - Meloidae [HOLOTYPE] (OSUC) CM, 07 - 17 - 46, DJ&JN Knull (Enns, 1956)
- Ochodaeus howdeni* Carlson - Ochodaeidae [PARATYPE] (CNCI) GG, 5700 ft., 08 - 03 - 68, JEH (TAMU) + BBNP, 10 June 1948, L. J. Bottimer (CNCI) + CB, 13 August 1950, R. F. Smith (AMNH) + CB, 16 - 17 July 1973 F.T.Hovore (DCCC) + CM, 4 - 6 July 1961, RLW (RLWE) + DW, 27 August 1965, AB (AR Hardy Coll.) + JC, 13 - 14 July 1928, F.M. Gaige (HF Howden) + CM, 17 July 1946, DJ&JN Knull (OSUC) (Carlson, 1975) (Holotype and allotype from Mexico)
- Ochodaeus ritcheri* Carlson - Ochodaeidae [HOLOTYPE, male] (CNCI #13,468) PJ, 4000 ft., 12 May 1959, HFH/Becker; [ALLOTYPE, female] same data as holotype; [PARATYPES] PJ, 4000 ft., 12 May 1959, HFH/Becker (CNCI) + TF, 3200 ft., 5 May 1949, HFH/Becker (CNCI) + OS 25 August 1965, AB (LACM) + CB, 16 - 17 July 1973, F. T. Hovore (Carlson, 1975)
- Oxycopis howdeni* Arnett - Oedemeridae [HOLOTYPE] (FSCA) Tornillo Flat, 3200', 05 - 12 - 59, H.Howden & E. Becker; [ALLOTYPE female, same data as Holotype] [PARATYPES] Boquillas, 05 - 17 - 59; Oak Spring, 4000', 05 - 08 - 59; Santa Elena, 3200', 05 - 04 - 59; Mavrick, 2700', 05 - 04 - 59; CB, 5 - 19 - 59 + 5 - 22 - 59 + 5 - 27 - 59, all collected by E. Becker & HFH (Arnett, 1965)
- Benedictia pilosa* Sanderson - Scarabaeidae [Pleocomidae] [HOLOTYPE, male] (SEMC) Presidio, vii - 1927, RH Beamer (Sanderson, 1939); [PARATYPE] (both Sanderson Coll. & OL Cartwright Coll., Clemson Coll.) BBNP, 9 - 5 - 37, RHB (Sanderson, M., 1939)
- Chlorixanthe chapini* Cartwright - Scarabaeidae [HOLOTYPE] [ALLOTYPE] [PARATYPES] (all NMNH) BBNP, June 17, 1937, RHB (Cartwright, 1939); CM, 4000' to 6400', on *Opuntia* and sotol: PJ & GG, H. Howden (Howden, 1960a); PC, 5000 - 6000', 05 - 10 - 59, W.Mason, det: H. Howden '62
- Phyllophaga arenicola* Howden - Scarabaeidae [HOLOTYPE, male] (CNCI # 7079) Boquillas, Mex., 23 May 1959, at light, Howden/Becker; [ALLOTYPE, female], same data as type (CNCI); [PARATYPES] (CNCI, NMNH, Illinois Nat Hist. Surv., LJ Bottimer Coll., Kerrville, TX) Boquillas Canyon, 25 May 1959, at light, Howden/Becker; 3 mi. W. Castolon, 14 May 1959, at light, Howden/Becker (Howden, 1960a);
- Phyllophaga bottimeri* Reinhard - Scarabaeidae [HOLOTYPE] (CNCI) CB, 5400', on *Q. grisea*, 10 June 1948, HJ Reinhard (Reinhard, 1950a) (Howden, 1960a)
- Phyllophaga cushmani* Saylor - Scarabaeidae [HOLOTYPE] (NMNH type # 53772) CM, 06 - 10 - 08, Cushman & Mitchell (Saylor, 1940); North Rosillos Mts. Preserve, 07 - 28 - 87, UV light, D.Heffern, det: W.Warner '87
- Phyllophaga gaigei* Sanderson - Scarabaeidae [HOLOTYPE, male] (UMMZ) Juniper Canyon, Upper Juniper Spring, 5000', 07 - 15 - 28, F. Gaige [ALLOTYPE, female] (MCZC) same locality and date (Sanderson, 1948)
- Phyllophaga idonea* Sanderson - Scarabaeidae [HOLOTYPE] (UMMZ) Juniper Canyon, Upper Juniper Springs, 5000', + 07 - 05 - 28, at light, "oak - pine - cedar forest", FM Gaige [ALLOTYPE, female] (MCZC) same data as holotype (Sanderson, M., 1948) [PARATYPES] same data as holotype, July, 1928 (Sanderson, 1948); Lost Mine Trail, 6000', May 1959 (Howden, 1960a)
- Phyllophaga psiloptera* Sanderson - Scarabaeidae [HOLOTYPE, male] (FMNH) Blue Creek, 6000', 07 - 27 - 1937, B. Hartelius [PARATYPE, male] (M. Sanderson Coll.) same data as holotype (Sanderson, 1939)
- Phyllophaga pusillidens* Fall - Scarabaeidae [HOLOTYPE] [=P microdon Fall] "Hackberry Creek, Boquillas Road, Brewster County, Texas", Sept.2, 1912, HC Fall (MCZC & Fall Coll.) (Fall, 1929); Oak Spring, 4000', 05 - 08 - 59 and PJ & Boquillas Ranger Sta., 05 - 28 - 59 (all Howden, 1960a); RGV, 07 - 03 - 78, at light, RH Turnbow
- Podolasia stillwellorum* Howden - Scarabaeidae [HOLOTYPE, male] (CMNC) Stillwell RV park on hwy. 2627, 04 - 05 - VI - 1994, E.G. Riley, UV light; [PARATYPES] (AMNH, CASC, CDAS,

CMNC, CNCI, CSWC, DCCC, DGMC, DWSC, EGRC, ELSC, HAHC, JEW, TAMU, NMNH, WBWC) same data as holotype + same data as holotype except 18 - V - 1995 + same data except D. Marqua + same data except C. Wolfe + same locality, 05 - VI - 1994, D. Marqua + Boquillas, 1850 ft., 13, 17, 23, 25, 28 V 1957, HFH/Becker, at light + Paint Gap Hills, 28 - VI - 1982, RSA, UV light + North Rosillos Mtns., 2 mi. N. Buttrill Spr, 13 - VII - 1991, R. Vogtsberger at BL & MV lights (Howden, 1997)

Podostena bottimeri (Howden) - Scarabaeidae [= *Podolasia*] [HOLOTYPE, male] (NMNH) Hot Springs, 05 - 05 - 1956, L.J. Bottimer, at light (Howden, 1997)

Trichophya texana Ashe & Newton - Staphylinidae [HOLOTYPE] (SEMC) Boot Cyn. & Emory Peak Trail, 7 - IX - 88, 2070M, hardwood litter, Anderson; [PARATYPES] (SEMC & FMNH) same data as holotype + Boot Spr., 2143m, berlese hardwood litter, 7 - IX - 88, Anderson + Cattail Falls, 1310m, berlese hardwood litter, 6 - IX - 88, Anderson + Colima Trail, 2179m, berlese hardwood litter, Anderson + CM, 19 - VII, Green (Ashe & Newton, 1993)

Cryptadius triplehorni Berry - Tenebrionidae [HOLOTYPE] (NMNH) Boquillas Canyon, 07 - 04 - 72 (Berry, 1974)

Eleodes (Cavernelodes) easterlai Triplehorn - Tenebrionidae [HOLOTYPE NMNH #73088] Emory Peak, 7400', 18 - VII - 1972, from cave inhabited by a colony of *Leptoncyrtus nivalis longala* (Mexican long - tongued bat), CA, WE & BW Triplehorn, DA & DJ Easterla [PARATYPES and ALLOTYPE] (NMNH and OSUC) (Triplehorn, 1975)

Eleodes knullorum Triplehorn - Tenebrionidae [HOLOTYPE] (OSUC) CM, 08 - 15 - 62, CA Triplehorn [ALLOTYPE, male] (OSUC) same locality as holotype, both taken in pinyon - juniper association [PARATYPES] (various coll.) Santa Elena Canyon, 09 - 03 - 68, PC, 09 - 03 - 68, 05 - 04 - 69, Window Trail, 06 - 09 - 68 (Triplehorn, CA, 1971)

Eleodes labialis Triplehorn - Tenebrionidae [HOLOTYPE] (NMNH # 73089) Santa Elena Cyn., 3 - IX - 1968, JA Brubaker & FJ Moore [PARATYPE] (OSUC) (Triplehorn, 1975)

Eusattus pons Triplehorn - Tenebrionidae [HOLOTYPE] (OSUC) Green Valley, TX, 7/14, HA Wenzel; [PARATYPES] same data as holotypes

+ CM, 7/17/46, DJ&JN Knull + CM, 6/26/61, DJ&JN Knull, CM, 8/7 - 8/62, CA & WE Triplehorn (OSUC) + GnS, 7/18/30, HM Smith (Kansas State Univ.); CM, 7/13/58, WF Barr, at light, (Univ. of Idaho) (Triplehorn, 1968)

Megasida tenuicollis Triplehorn - Tenebrionidae [HOLOTYPE] (OSUC) Green Valley, 7/14, HA Wenzel [PARATYPES] Oak Spring, 08 - 15 - 62, H. Weems (Triplehorn, 1967)

Neohelops texanus Dajoz - Tenebrionidae [NEW GENUS][THIS IS THE TYPE SPECIES] [HOLOTYPE] Boquillas Cyn., 12/15 - IV - 2000, Dajoz; [PARATYPE], same data (Dajos Coll.) (Dajoz, 2000)

Zopherus xestus Triplehorn - Zopheridae [PARATYPES] (OSUC) CM, June, 1931, CAT, det. CAT; GG, 07 - 24 - 68, 5700', JEH; Panther Jct., 4000', 04/29 - 30/59, Howden/Becker (Triplehorn, Coll.) (Triplehorn, 1972)

Hymenoptera

Perdita bidenticauda Timberlake - Andrenidae [HOLOTYPE] (SEMC) Cooper's Store, BBNP, 04 - 11 - 47, on Opuntia (Timberlake, 1953) (Danforth, 1996)

Melissodes relucens LaBerge - Anthophoridae [HOLOTYPE] (UCDC) [ALLOTYPE] (UCDC) Dug-out Wells, 8/54, Bohart (LaBerge, 1961)

Typhoctes striolatus Krombein & Schuster - Bradynobaenidae [ALLOTYPE] (NMNH) CB, 5400', 07/08 - 14/48, HE Evans, visiting honeydew on oak (Krombein & Schuster, 1957)

Centencyrtus anser Noyes & Wooley - Encyrtidae [HOLOTYPE] (NMNH, female) RMS, 1.5 miles SE Buttrill Spr., 5300', GrG, 4/24/91, 5300', G Zolnerowich + [PARATYPES] (TAMU, female) RM, 1.5 miles SE Buttrill Spr., 5300', MS, 5200', 6/16/91, G Zolnerowich, det. JBW (Noyes & Wooley, 1994)

Perpolia trebia Noyes & Woolley - Encyrtidae [PARATYPES] (TAMU & NMNH) 1 female, 1 male, BBNP, 23 - 28.vi.1982, GAP Gibson (Noyes & Woolley, 1994)

Acromyrmex versicolor chisosensis Wheeler - Formicidae [SYNTYPES] (AMNH, MCZC) CM, O.W. Williams (Wheeler, 1907) Wheeler

Pheidole titanis Wheeler - Formicidae [SYNTYPES] (AMNH, MCZC) CM, O.W. Williams (Wheeler, 1903)

- Pheidoleporcula* Formicidae [SYNTYPES] (AMNH, MCZC) CM, O.W. Williams (Wheeler, 1908)
- Pogonomyrmex bigbendensis* Francke & Merickel - Formicidae [HOLOTYPE] (CASC) RGV, 565m, 07 - 30 - 78 Francke, (Francke & Merickel, 1981); Castolon, ranger residence area, crater 2.5 in. dia. In pebbly soil, 07 - 03 - 88, AVP, det. DR Smith '88
- Chyphotes gracilis* Mickel - Mutillidae [PARATYPES] (NMNH) Santa Elena Canyon, 04 - 23 - 53, M. Wasbauer + [PARATYPES] (CUIC) Santa Elena Canyon, 04 - 24 - 53, BJ Adelson (Mickel, 1967)
- Dasymutilla calorata* Mickel - Mutillidae [PARATYPE] Marathon, July 1 - 2, 1916, Mickel (Mickel, 1928); CM, W.B. Phillips (Mickel, 1928)
- Dasymutilla chisos* Mickel - Mutillidae [HOLOTYPE, male #40751] (NMNH) CM, June 10 - 12, 1908, Mitchell & Cushman [PARATYPE, male] (CUIC, DEFW) CM, June 10 - 12, 1908, Mitchell & Cushman (Mickel, 1928)
- Dasymutilla sulcatulla* Mickel - Mutillidae [HOLOTYPE, female #40730] (NMNH) "Brewster County, Rio Grande", June 13 - 17, 1908, Mitchell & Cushman [PARATYPES] (NMNH, DEFW) same data as holotype (Mickel, 1928)
- Pseudomethoca albicoma* Mickel - Mutillidae [HOLOTYPE] (NMNH, #26210) "Rio Grande, Brewster County". 06/13 - 17/08, Mitchell & Cushman (Mickel, 1924)
- Pseudomethoca pigmentata* Mickel - Mutillidae [HOLOTYPE] (NMNH, #26207) CM, 06/10 - 12/08, Mitchell & Cushman [PARATYPE] (NMNH) CM, WB Phillips (both Mickel, 1924) + CM, 07 - 04 - 30, HM Smith (Mickel, 1935) + Kibbee Spr., 06 - 10 - 37, RHB, det. Mickel '38
- Eucerceris melanovittata* Scullen - Sphecidae [PARATYPES] (CASC) CM, 07 - 06 - 42, HA Scullen (Scullen, 1948) + BBNP, 08 - 31 - 62, Scullen (Scullen, 1968) + Santa Elena Canyon, 2145', 08 - 25 - 54, RH Bohart (Scullen, 1968)
- Eucerceris mellea* Scullen - Sphecidae [HOLOTYPE, female] (CASC) CM, Big Bend Park, 7/6/42 [ALLOTYPE, male] (CASC) same data as holotype (Scullen, 1948) (Scullen, 1968)
- Podalonia pubescens* Murray - Sphecidae [PARATYPES] (TAMU) CB (Murray Coll.) (Murray, 1940), in flower garden, 06 - 24 - 37, RHB & CB, ex *Lippia ligustrina*, 07 - 27 - 37, RHB (Holotype in University of Minnesota, St. Paul)
- Torymus atheatus* Grissell - Torymidae [HOLOTYPE] (NMNH) Gov't Spr., on *Sphaeralcea*, Grissell + Castolon, 6 mi. W. (both Grissell, 1976)
- Cephalodynerus sculleni* Parker - Vespidae [HOLOTYPE, male] (CASC # 9007) BBNP, 9/60 (Parker, 1965)
- Leptochilus ferrugineus* Parker - Vespidae [PARATYPES] (F. Parker Coll. & OSUO) BBNP, 9/60 (Parker, 1966); Mule Ears Overlook, 860m, 04 - 15 - 86, T. Griswold, det. F. Parker '87 (Holotype at UCDC)
- Polistes major major* Beauvois - Vespidae [=P. major var. *bakeri* Bequaert] [ALLOTYPE] (NMNH) BBNP (Beauvois, 1818) + GG, 5000', ex *Nolina*, 05 - 18 - 59, WRM Mason, det. CD Miller '62 + Window Trail, 05 - 23 - 78, C. Porter & A. Cerbone . (Holotype, San Antonio, TX)

Tricoptera

- Ochrotrichia boquillas* Moulton & Harris - Hydropsychidae [HOLOTYPE, male] (NMNH) Glenn Spring, 18 - IV - 1993, R. Garono; [PARATYPES] (ANSP) same as holotype + RGV, 2 - IV - 1993, J. Gelhaus & D. Koenig (Moulton & Harris, 1997)

Lepidoptera

- Cosmopterix chisosensis* Hodges - Cosmopterigidae [HOLOTYPE][ENDEMIC to BBNP] GG, 2 - VI - 75, Hodges (NMNH); [PARATYPE] Panther Pass, 6 - VI - 75, Hodges (NMNH) (Hodges, 1978)
- Periploca repanda* Hodges - Cosmopterigidae [HOLOTYPE] NM, 4 - VI - 73, Hodges (NMNH) (Hodges, 1978)
- Periploca soror* Hodges - Cosmopterigidae [HOLOTYPE][ENDEMIC to BBNP] GG, 6 - VI - 73, Hodges (NMNH) (Hodges, 1978)
- Mendesia metaxea* Kaila - Elachistidae [HOLOTYPE] (NMNH) KB, 1 - IV - 73, Hodges (Kaila, 1995)
- Chionodes aruns* Hodges - Gelechiidae [PARATYPE] (NMNH, TAMU) CB - III, V, GG - III, V, Kendall, Blanchard, Knudson (Hodges, 1999)

- Chionodes cautor* Hodges - Gelechiidae [HOLOTYPE] GG - XI, ECK (NMNH); [PARATYPES] DW - VI, GS - VI, KB - XI, ECK (Hodges, 1999)
- Chionodes delitor* Hodges - Gelechiidae [HOLOTYPE] (NMNH) KB - VI, ECK (Hodges, 1999)
- Chionodes innox* Hodges - Gelechiidae [PARATYPE] (NMNH) CB - X, ECK (Hodges, 1999)
- Chionodes meddix* Hodges - Gelechiidae [PARATYPE] (CNCI) "Big Bend, TX", 24 - V - 50, EC Johnston (Hodges, 1999)
- Chionodes rector* Hodges - Gelechiidae [PARATYPE] (NMNH) GG, 3 - V - 76, Blanchard Hodges, 1999)
- Chionodes secutor* Hodges - Gelechiidae [PARATYPE] (NMNH) OS - VI, ECK (Hodges, 1999)
- Chionodes sevir* Hodges - Gelechiidae [PARATYPES] (NMNH, ECK Coll.) GG - V, OS - VI, ECK (Hodges, 1999)
- Dichomeris mica* Hodges - Gelechiidae [HOLOTYPE] (NMNH) Panther Pass, 2 - VI - 73, Hodges; [PARATYPE] (NMNH) GG - VI, Hodges; OS - VI, ECK (Hodges, 1986)
- Anacamptodes angulata* Rindge - Geometridae [HOLOTYPE] (AMNH) CB, 4 - VII - 57, R Zweifel [PARATYPES] (AMNH & CW Kirkwood Coll.) same data as holotype (Rindge, 1966)
- Animomyia minuta* Rindge - Geometridae [HOLOTYPE] (AMNH) OS, 4 - X - 65 (Rindge, 1974); [PARATYPES] (AMNH, NMNH) NM - V, GS - V, CB - IX, KB - VI, IX, GH - X, CS - X, DW - X, CS - III, PJ - IV, Blanchard (Rindge, 1974)
- Astalotesia bucurvata* Ferguson, Blanchard & Knudson - Geometridae [HOLOTYPE] (NMNH) [ENDEMIC] CB, 29 - III - 82, ECK [PARATYPES] same as holotype + GG, 28 - III - 82, ECK + GG, 25 - III - 71, AB (Ferguson, 1983).
- Glaucina mayelisaria* Blanchard - Geometridae [HOLOTYPE] (AMNH) GS, 29 - IX - 65; [PARATYPES] (NMNH) OS, 5 - VIII - 64 + OS, 4 - X - 65 + 6 - X - 65 & DW, 28 - IX - 65, Blanchard (Blanchard, 1966)
- Sicyopsis blanchardata* Ferguson - Geometridae [ALLOTYPE] Panther Pass, 6000', 2 June 1973, DC Ferguson; [PARATYPES] GG - V, VI, VII, IX, X; CB - VI, VIII, IX, X; Gov't Spr. V, IX, X; Oak Spr. X; K - Bar Res. Sta. IX, A&ME Blanchard (all, NMNH & collections of Blanchard, Knudson and Franclemont) (Ferguson, 1983)
- Somatolophia petila* Rindge - Geometridae [PARATYPES] (AMNH, NMNH) GG - III, V, IX, X; CB - IV, V, VIII, IX, X; OS - X; GSV, ECK, Blanchard (Rindge, 1980)
- Agathymus chisosensis* (Freeman) - Hesperidae [= *Megathymus*] [ENDEMIC] [HOLOTYPE, male] (AMNH) Chisos Giant Skipper; CB, 9 - 22 - 51, HA Freeman [ALLOTYPE] (female, Stallings and Turner Coll.) CM, 5400', 9 - 29 - 51, RC Turner, Jr. [PARATYPES] (Freeman Coll.) same locality as holotype, 9 - 1 - 51 & 9 - 19 - 51 (Freeman, 1952)
- Agathymus mariae* (Barnes & Benjamin) - Hesperidae Marie's Giant Skipper; [= *A. lajitaensis* Freeman] Lajitas Giant Skipper; [HOLOTYPE, female] [ALLOTYPE, male] (Yale Univ., New Haven & AMNH) 10 miles west of Lajitas, 10-2-61, Freeman (Freeman, 1964b) (holotype of *Megathymus mariae* Barnes & Benjamin from El Paso, Barnes & Benjamin, 1924)
- Piruna haferniki* Freeman - Hesperidae Haferniki's Skipperling; [HOLOTYPE] (AMNH) [ENDEMIC] GG, 8/4/68, 5700', JE Haferniki; [PARATYPE] same location, 7/24/68, (Freeman Coll.) (Freeman, 1970)
- Dasychira mescalera* Ferguson - Lymantriidae [PARATYPES] (NMNH) GG, VI - VIII, CB, VI - IX, Blanchard (Ferguson, 1978)
- Abagrotis mexicana* LaFontaine - Noctuidae [HOLOTYPE] GG - VI; [PARATYPE] CB, 29 - VI - 65, Blanchard (both NMNH) (LaFontaine, 1998)
- Acronicta valliscola* Blanchard - Noctuidae [HOLOTYPE] (NMNH) GG, 5200', 10 - V - 66, Blanchard; [PARATYPES] (AMNH) PC, 2 - IX - 64 + PC, 1 - IV - 65 + 8 - IV - 67 & GG, 3 - IV - 65 + 27 - VI - 65 + 5 - X - 65 + 14 - V - 66 + 20 - X - 66 + 7 - X - 66 + 11 - X - 66, Blanchard (Blanchard, 1968)
- Aleptina junctimacula* Blanchard - Noctuidae [HOLOTYPE] (NMNH) DW - 29 - VIII - 1965 [PARATYPES] (NMNH) same data as holotype, A&ME Blanchard; NM - IX, A&ME Blanchard; DW - IX, RGV - X, UTC - V, ECK (Todd, E. L., A. Blanchard, and R.W. Poole, 1984)
- Cucullia charon* Poole - Noctuidae [HOLOTYPE] Panther Pass, 2 - VI - 73, Ferguson (NMNH); [PARATYPES] same data and depository (Poole, 1995)

- Grotella blanchardi* McElvare - Noctuidae [PARATYPES] (NMNH & AMNH) Grapevine Hills, 9 - 21 - 63, A&M Blanchard + CB, 9/58, McElvare (McElvare, 1966)
- Grotella margueritaria* Blanchard - Noctuidae [ENDEMIC][HOLOTYPE] (NMNH) NM, 8 - IX - 66, [PARATYPES] NM, 7 - VIII - 64, 8 - X - 66, 9 - X - 66, Blanchard (Blanchard, 1968)
- Grotella vauriae* McElvare - Noctuidae [HOLOTYPE] (AMNH) Tornillo Cr., near HS, 7 - 6 - 48, C&P Vaurie (McElvare, 1950)
- Hexorthodes emendata* Blanchard & Knudson - Noctuidae [PARATYPES] CB, 8 - VII - 64 & 29 - IV - 65; GG, 27 - VI - 65 & 1 - VII - 65; OS, 11 - V - 66, A&ME Blanchard; GG, 28 - V - 81, ECK [HOLOTYPE] (NMNH) (Blanchard, & Knudson, 1985b)
- Hydroeciodes auripurpurea* (Blanchard) Noctuidae [=Hydroecia][HOLOTYPE] (NMNH) [ENDEMIC] GG, 11 - X - 66; [PARATYPES] CB, 3 - X - 65, GG, 2 to 7 - X - 65; GG, 11 - X - 66, Blanchard (Blanchard, 1968)
- Matigramma inopinata* Franclemont - Noctuidae [PARATYPES] (Franclemont Coll. at CUIC) DW, GG, GS, NM, KB, all 1 - 13 - V - 1972, J.G. Franclemont (Franclemont, 1986)
- Oncocnemis cottami* Blanchard - Noctuidae [ENDEMIC][HOLOTYPE] (NMNH) CB, 5500', 10 - V - 66 [PARATYPES] (NMNH & AMNH) CB, 7 - VII - 64 + 10 - VII - 64 + 4 - VIII - 64 + 29 - VIII - 65 + 29 - VI - 64 & GG, 27 - VI - 65 + 25 - III - 71 + 28 - III - 71 & GS, 27 - III - 71, Blanchard (Blanchard, 1972)
- Oncocnemis heterogena* Blanchard - Noctuidae [HOLOTYPE] (NMNH) GG, 27 - VIII - 65; [PARATYPES] CB, 4 - VIII - 64 + 4 - IX - 64 + 29 - III - 65 + 25 - VIII - 65 + 28 - VIII - 65 + 14 - V - 66 + 7 - IV - 67 & PC, 1 - IV - 65 + 8 - IV - 67 & GG, 3 - IV - 65 + 27 - VIII - 65 + 5 - IV - 67 + 25 - III - 71 + 25 - III - 71 (Blanchard, 1972)
- Oncocnemis toddi* Blanchard - Noctuidae [HOLOTYPE] (NMNH) near DW, 28 - IX - 65, 3000'; [PARATYPES] (NMNH) same data (Blanchard, 1968)
- Opsigalea blanchardi* Todd - Noctuidae [HOLOTYPE] (NMNH # 64643) Alpine, TX, A&ME Blanchard; [PARATYPE] OS, 05 - VII, 1964, DW, 07 - VIII - 1964, GH, IX - 03 - 1964 (A. Blanchard Coll.) all collected by A&ME Blanchard (Todd, 1966)
- Oxycnemis franclemonti* Blanchard - Noctuidae [HOLOTYPE] (NMNH) GG, 3 - IV - 65; [PARATYPES] DW, 28 - IX - 65, GS, 29 - IX - 65, OS, 6 - X - 65, NM - IV,V,IX,X, GH - X, KB - IV,X,XI; DW, 3 - X - 66, NM, 9 - X - 66 & 6 - IV - 67, Blanchard (Blanchard, 1968)
- Stiria blanchardi* (Hogue) - Noctuidae [=Basilodes][PARATYPES] (LACM, Blanchard Coll., NMNH, AMNH) OS - VIII, CB - VIII,IX, A&ME Blanchard; GG - IX, DW - X, NM - X, GH - IX, ECK (Hogue, 1965)
- Tripudia chihuahuana* Blanchard & Knudson - Noctuidae [HOLOTYPE] (NMNH) NM, 8 - X - 69, A&ME Blanchard; [PARATYPES] (NMNH) DW, 2 - VII - 65 + OS, 30 - VI - 65, A&ME Blanchard; DW, VIII,IX, OS - IV; KB - IV, VIII; Gov't Spr., 12 - IX - 82, ECK (Blanchard, & Knudson, 1984a)
- Zale chisosensis* Blanchard & Franclemont - Noctuidae [HOLOTYPE] (NMNH) CB - VIII, GG - VI; [PARATYPES] GG, 27 - VI - 65 & 12 - V - 72, A&ME Blanchard (Blanchard & Franclemont, 1982)
- Ursia furtiva* Blanchard - Notodontidae [ENDEMIC][HOLOTYPE] (NMNH) PC, 2 - IX - 64, 5200' (Blanchard, 1971)
- Psilocorsis fatula* Hodges - Oecophoridae [PARATYPE] (NMNH) Panther Pass, 22 - V - 73, Hodges (Hodges, 1975)
- Tegeticula carnerosanella* Pellmyr - Prodoxidae [HOLOTYPE] (NMNH) Dagger Flat Rd., 6.5 mi fr. Rt. 385, about 800m, among flowering *Yucca carnerosana*, U - V light, 20.30 - 22.15 hours, 24.iv.1997, 29deg 30.946min N, 103deg 03.011min W, Pellmyr; [PARATYPES], same data as holotypes, 10m, 10f (Pellmyr, 1999)
- Tegeticula elatella* Pellmyr - Prodoxidae [HOLOTYPE] (NMNH) Persimmon Gap, on flower of *Yucca elata*, 700 - 800m, 5.v.1994, N29deg.33 - 39min., W103deg 8 - 9min, Pellmyr & Augenstein; [PARATYPES] same data as holotypes, 2m: same locality, 4.v.1995 + 5m, 1f, same locality, 3.v.1995, 2m, 1f (Pellmyr, 1999)
- Tegeticula rostratella* Pellmyr - Prodoxidae [HOLOTYPE] (NMNH) Black Gap WMS, Black Gap Ranch, 690m, creosote desert, in flower of *Yucca rostrata*, 2.v.1994, N 29 deg 33min, W 102deg 57min, Pellmyr and Augenstein; [PARATYPES] same data as holotype, 10m, 10f (Pellmyr, 1999)

- Anderida peorinella* Blanchard & Knudson - Pyralidae [HOLOTYPE] (NMNH) KB, 1 - IV - 84, ECK (Blanchard & Knudson, 1985c)
- Ephestiodes monticolus* Neunzig - Pyralidae [HOLOTYPE, male] (NMNH) CB, ECK; [PARATYPE] same data (NCSU) (Neunzig, 1991)
- Glyphocystis viridivallis* Blanchard - Pyralidae [ENDEMIC][HOLOTYPE] (NMNH) GG, 28 - III - 71 [PARATYPES] GG, 9 - X - 69 + 28 - III - 71 + 3 - V - 72 + 12 - V - 72, Blanchard (Blanchard, 1973)
- Homoeosoma parvalbum* Blanchard & Knudson - Pyralidae [HOLOTYPE] (NMNH) HS, 4 - IV - 84, ECK; [PARATYPES] KB, 16 - IX - 71, DW, 13 - IX - 71; NM, 17 - IX - 71, A&ME Blanchard; RGV, 6 - IV - 84, ECK; ENDEMIC (Blanchard & Knudson, 1985a)
- La cerveza* B. Landry - Pyralidae [PARATYPES] (NMNH) GG - V, VI, A&M Blanchard (Landry, 1995); GG, 5600', VI - 06 - 1973, DC Ferguson; GG, 5400', V - 1972, JG Franclemont
- Melitara apicigrammella* Blanchard & Knudson - Pyralidae [PARATYPES] (NMNH) RGV, 6 - IV - 84; KB, 9 - VIII - 83, all ECK; NM, 1 - V - 72 & DW, A&ME Blanchard (Blanchard & Knudson, 1985a)
- Meroptera anaimella* Blanchard & Knudson - Pyralidae [ENDEMIC][PARATYPES] KB, 9 - VIII - 83; RGV, 6 - IV - 84; DW, 13 - IX - 82 [HOLOTYPE] (NMNH) (Blanchard & Knudson, 1985a)
- Mescinia texanica* Neunzig - Pyralidae [HOLOTYPE male] (NMNH) Type locality: GG, 5400', 2 - 4 - IV - 86, ECK; [PARATYPES] (NCSU) OS, 4500', VI - 4 - 86, ECK (Neunzig, 1997)
- Oenobotys texanalis* Munroe & Blanchard - Pyralidae [PARATYPE] (CNCI, NMNH) GG - X, Blanchard; BBNP, 15 - 30 - IV - 36, Poling (Munroe, 1976) (Holotype from Davis Mtns.)
- Pyrausta andrei* Munroe - Pyralidae [ENDEMIC][HOLOTYPE] (NMNH) GG - March, June (Munroe, 1976)
- Pyrausta retidiscalis* Munroe - Pyralidae [ENDEMIC][HOLOTYPE] (NMNH) GG - Aug, Sept., Munroe, 1976)
- Rostrolaetilia texanella* Blanchard & Ferguson - Pyralidae [PARATYPES] (NMNH) OS, 8 - V - 72 (Blanchard & Ferguson, 1975)
- Salebriaria chisosensis* Neunzig - Pyralidae [ENDEMIC][HOLOTYPE] (NMNH) GG - VIII (Neunzig, 1988)
- Sosipatra knudsoni* Neunzig - Pyralidae [HOLOTYPE, male] Paint Gap Hills, 2 - IV - 84 (Knudson); [PARATYPES] RGV, IV - 06 - 84, ECK; Hot Sprs., IV - 04 - 84, ECK (both NCSU) (Neunzig, 1991)
- Triozosneura dorsonotata* Blanchard - Pyralidae [PARATYPES] (NMNH) GG, 25 - III - 71 + 31 - III - 71 + 6 - V - 72 + 12 - V - 72 (Blanchard, 1973)
- Zophodia multistriatella* (Blanchard & Knudson) - Pyralidae [=Ozamia] [PARATYPES] (NMNH) GG, 28 - III - 71 (Blanchard & Knudson, 1981)
- Apodemia chisosensis* Freeman - Riordinidae [ENDEMIC]; Chisos Metalmark; [HOLOTYPE, male] (AMNH) CM, 5400', 8 - 3 - 62 [ALLOTYPE] same location (Freeman, 1964)
- Adhemarius blanchardorum* (Hodges) - Sphingidae [=Amphypterus] [HOLOTYPE] Panther Pass in CM, 6000', 06 - 04 - 73, RW Hodges (NMNH, BMNH) (Hodges, 1985); [PARATYPES] GG, 5500', 05 - 13 - 72, JG Franclemont, 3, 6, 12 May 1972, 2 June 1972, 2 June 1973, A&ME Blanchard (Hodges, 1985) Blanchard's Sphinx
- Anopina texasana* Blanchard & Knudson - Tortricidae [HOLOTYPE] (NMNH) [TYPE SERIES IN BBNP] CB - III; GG - III, IV, VI, ECK (Blanchard, A & EC Knudson, 1984a)
- Catastega strigatella* Brown - Tortricidae [HOLOTYPE] (NMNH) CB, 29 - III - 82, Knudson [PARATYPES] CB - III, GG - III, IV Knudson, Blanchard (NMNH, ECK Coll., MSUC) (Brown, 1992)
- Decodes macswaini* Powell - Tortricidae [PARATYPES] (NMNH) CB, 5 - X - 56, MacSwain (U. Cal. Berk.), GG - X, Blanchard (Powell, 1980)
- Eucosma graziella* Blanchard - Tortricidae [HOLOTYPE, male] (NMNH) GG, 11 - X - 66, [PARATYPES] (NMNH) Grapevine Hill, 2 - X - 65; OS, 4 - X - 65, GG, 5 - X - 65, DW, 3 - X - 66, Gov't Spr., 6 - X - 66, NM, 9 - IX - 66, 3000', GG, 11 - X - 66, Blanchard; PJ - IX, KB - X, DW - X, ECK (Blanchard, 1968)
- Eucosma griselda* Blanchard & Knudson - Tortricidae [TYPE SERIES from BBNP]; KB - III, DW - III, CB - IV, ECK [HOLOTYPE, male] (USMN) CB, 7 - IV - 67; [PARATYPES] (NMNH) CB, 11 - V - 67 & 12 - V - 66 & OS, 11 - V - 66 + 8 - V - 72 & GS, 27 - III - 71 + 13 - V - 66 & GG, 5 - IV - 67 + 31 - III - 71 + 3 - V - 72 + 2 - VI - 73 & KB, 22 - III - 71 + DW, 30 - III - 71, all A&ME Blanchard (Blanchard & Knudson, 1981)

Suleima mendaciana Blanchard & Knudson - Tortricidae [HOLOTYPE] (NMNH) PJ - X, DW - IX (Blanchard & Knudson, 1983)

Neoprocris prunivorata Tarmann - Zygaenidae [= *Neolbertia*] [PARATYPE] (NMNH) GG, 8 - V - 67, Kendall (Tarmann, 1984) (Holotype lost, Vienna Museum, in flood)

Diptera

Drosophila nigrohydei Patterson & Wheeler - Drosophilidae [LECTOTYPE, male] [PARALECTOTYPE, female] (AMNH) CM (Patterson, 1943); Oak Cr. (Patterson and Wheeler, 1942)

Brevitrichia scitulaesca Kelsey - Scenopinidae [HOLOTYPE] (NMNH) Lajitas, 1 mi. W., 04/23 - 30/63, HE Evans, in nest of digger wasp, *Glenostictia scitula* [TYPE LOCALITY] (Kelsey, 1969)

Borboridea microcephala Kraft & Cook - Stratiomyidae [= *Zabrachia*] [HOLOTYPE] (SEMC) Marathon (Kraft & Cook, 1961)

Pachygaster characta Kraft & Cook - Stratiomyidae [ALLOTYPE] (SEMC) Hot Sprs., 07 - 10 - 38, RH Beamer + [PARATYPES] (SEMC) 65 mi. S. Marathon, 07 - 10 - 38 + Hot Sprs., 07 - 10 - 38, both RH Beamer (Kraft & Cook, 1961)

Macromya crocata Reinhard - Tachinidae [HOLOTYPE AND ALLOTYPE] BBNP, 07/01, 08/37, RHB (NMNH) (Reinhard, 1968)

Myatelemus trossulus Reinhard - Tachinidae [= *Telemus*] [ALLOTYPE] (NMNH) CM, 04 - 29 - 59, Howden/Becker; [PARATYPE] BBNP, 5000', 05 - 02 - 59, J.F. McAlpine (Reinhard, 1967)

Siphonaptera

Meringis agilis Eads - Ctenophthalmidae [HOLOTYPE, male] (NMNH) BBNP, 2 - 20 - 58, ex *Perognathus merriami*, RD Porter [PARATYPES] (NMNH) BBNP, 2 - 25 - 58, ex *P. nelsoni*, RD Porter + BBNP, 2 - 20 - 59, ex *P. penicillatus*, RD Porter + BBNP, 2 - 9 - 59, ex *P. merriami* (pocket mice), RD Porter (Eads, 1960)

Meringis vitabilis Eads - Ctenophthalmidae [HOLOTYPE] (NMNH) BBNP, from *Dipodomys merriami* (kangaroo rat), 2 - 24 - 58, RD Porter; [ALLOTYPE] (NMNH) BBNP, ex *D. merriami*, 2 - 19 - 58, RD Porter; [PARATYPES] (NMNH) BBNP, ex *D. merriami* 3/55, S. Minton + ex *D.*

merriami, 2 - 19 - 58, RD Porter + ex *D. merriami*, 2 - 24 - 48, RD Porter + ex *D. merriami*, 2 - 26 - 58, RD Porter + ex *D. merriami*, 1 - 28 - 58, RD Porter (Eads, 1960)

References

- Alexander, C. 1946. Records and descriptions of North American craneflies (Diptera) Part VI. Tipuloidea of Arizona, New Mexico and Trans-Pecos Texas, I. American Midland Naturalist 35(2): 484-531.
- Anderson, D. M. 1962. The weevil genus *Smicronyx* in America north of Mexico. Proceedings of the United States National Museum, no. 3456, vol. 113: 185-372.
- Anderson, R. S. 1993. A new species of *Leptopinnara* O'Brien from west Texas (Curculionidae: Brachycerinae: Entimini). Coleopterists Bulletin 47(2): 203-206. \$
- Arnett, R. H., Jr. 1965. Species of Oedemeridae of the Big Bend region of Texas. Proceedings of the United State National Museum, pp. 47-56. \$
- Ashe, J. S. & A. F. Newton, Jr. 1993. Larvae of *Trichophya* and phylogeny of the tachyporine group of subfamilies (Coleoptera: Staphylinidae) with a review, new species & characterization of the Trichophyinae. Systematic Entomology 18(4): 267-286. \$
- Ball, E.D. & R.H. Beamer 1940. A revision of the genus *Athysanella* and some related genera (Homoptera: Cicadellidae). University of Kansas Science Bulletin 26(1): 5-82. \$
- Barnes, W. & F. H. Benjamin. 1924. Contributions to the natural history of Lepidoptera of North America. 5(3): 100-101. (Refer to Miller & Brown, in Hodges et al, 1983. \$
- Barr, W. F. 1952. New species of *Cymatodera* from the southwestern United States and northern Mexico (Coleoptera, Cleridae). American Museum Novitates, no. 1572, pp. 1-9. \$
- Barr, W. F. 1972. New species of North American *Cymatodera* (Coleoptera: Cleridae). Entomology Arb. Museum Frey, pp. 1-6, 29-30. \$
- Barr, W. F. 1974. New genera and species of North American Buprestidae (Coleoptera). Occasional Papers, Biological Society of Nevada 39: 1-13. \$
- Barron, J. R. 1971. A revision of the Trogositidae of America north of Mexico (Coleoptera: Cleroi-

- dea). *Memoirs of the Entomological Society of Canada* 75: 1-143.
- Beauvois, Palisot de, A. M. F. J.** 1818. *Insectes recueillis en Afrique et en Amerique etc.*. Livre 12, Levrault, Paris. 276 pp. [1 (7): 101-120] (p. 206) . \$
- Becker, E. C.** 1971. Five new species of *Megapenthes* from the southwestern United States, with a key to the Nearctic species (Coleoptera: Elateridae). *Canadian Entomologist* 103(2): 145-167. \$
- Bequaert, J. C.** 1940. An introductory study of *Polistes* in the United States and Canada with descriptions of some new North and South American forms (Hymenoptera: Vespidae). *Journal of the New York Entomological Society* 48(1): 1-31. \$
- Berry, R. L.** 1974. New species of *Cryptadius* from Texas and Sonora. *Proceedings of the Entomological Society of Washington* 76(2): 172-177. \$
- Berry, R. L.** 1980. A revision of the North American genus *Argoporis* (Coleoptera: Tenebrionidae: Cerenopini). *Ohio Biological Survey, Bulletin, New Series* 6(1): 1-106.
- Blake, D. H.** 1970. A review of the beetles *Metachroma* Chevrolat (Coleoptera: Chrysomelidae). *Smithsonian Contributions to Zoology* 57: 1-111, pls.
- Blanchard, A.** 1966. A new species of *Glaucina* (Geometridae) from Texas. *Journal of the Lepidopterists' Society* 20(4): 247-250. \$
- Blanchard, A.** 1968. New moths from Texas (Noctuidae, Tortricidae). *Journal of the Lepidopterists' Society* 22(3): 133-145. \$
- Blanchard, A.** 1971. A new species in the genus *Ursia* Barnes & McDunnough (Lepidoptera: Notodontidae). *Proceedings of the Entomological Society of Washington* 73(3): 303-305. \$
- Blanchard, A.** 1972. More new moths from Texas (Noctuidae). *Journal of the Lepidopterists' Society* 26(1): 56-63. \$
- Blanchard, A.** 1973. Two new species of Phycitinae from Texas, with description of two new genera (Pyralidae). *Journal of the Lepidopterists' Society* 27(3): 219-225. \$
- Blanchard, A. & D. C. Ferguson.** 1975. *Rostrolatilia* — a new North American genus of the subfamily Phycitinae, with descriptions of seven new species (Pyralidae). *Journal of the Lepidopterists Society* 29(3): 133-150. \$
- Blanchard, A. & E. C. Knudson.** 1981. Two new species of *Eucosma* Hubner (Tortricidae) from Texas. *Journal of the Lepidopterists' Society* 35(3): 173-178. \$
- Blanchard, A. & E. C. Knudson.** 1983. New North American species of Eucosmini (Lepidoptera: Tortricidae). *Proceedings of the Entomological Society of Washington* 85(4): 845-852. \$
- Blanchard, A. & E. C. Knudson.** 1984a. A new species of *Tripudia* Grote (Lepidoptera: Noctuidae) from western Texas. *Proceedings of the Entomological Society of Washington* 86(2): 346-348. \$
- Blanchard, A. & E. C. Knudson.** 1984b. Three new Tortricids (Lepidoptera) from Texas. *Proceedings of the Entomological Society of Washington* 86(2): 446-451
- Blanchard, A. & E. C. Knudson.** 1985a. New species of Phycitinae (Lepidoptera: Pyralidae) from Texas, with a description of a new genus. *Proceedings of the Entomological Society of Washington* 87(1): 231-238. \$
- Blanchard, A. & E. C. Knudson.** 1985b. Two new species of *Hexorthodes* (Lepidoptera: Noctuidae) from Texas and Arizona. *Proceedings of the Entomological Society of Washington* 87(4): 777-782. \$
- Blanchard, A. & E. C. Knudson.** 1985c. Two new Phycitine (Lepidoptera: Pyralidae) from Texas and Alabama. *Proceedings of the Entomological Society of Washington* 87(2): 475-479. \$
- Blanchard, A. & J. G. Franclemont.** 1982. A new species of *Zale* Hubner from Texas and New Mexico (Lepidoptera: Noctuidae: Catacalinae). *Proceedings of the Entomological Society of Washington* 84(1): 134-137. \$
- Bohart, R. M.** 1993. A synopsis of Central American and Caribbean *Oxybelus* (Hymenoptera: Sphecidae). *Insecta Mundi* 7(3): 159-168.
- Boucek, Z.** 1974. A revision of the Leucospidae (Hymenoptera: Chalcidoidea) of the World. *Bulletin of the British Museum (Natural History), Entomological Supplement*. 23, pp. 1-241.
- Brown, R. L.** 1992. Six new species of *Catastega* (Lepidoptera: Tortricidae: Eucosmini) from Mexico and southwestern United States. *Journal New York Entomological Society* 100(2): 218. \$
- Burke, H. R.** 1981. Review of the genus *Cionomimus* Marshall with descriptions of two new

- species (Coleoptera: Curculionidae). *Southwestern Entomologist* 6(3): 174-183.
- Campbell, J. M.** 1979. A revision of the genus *Tachyporus* Gravenhorst (Coleoptera: Staphylinidae) of North and Central America. *Memoirs of the Entomological Society of Canada* 109: 1-95.
- Carlson, D. C.** 1975. Taxonomic characters of the genus *Ochodaeus* Serville with descriptions of two new species in the *O. nectoralis* LeConte species complex (Coleoptera: Scarabaeidae). *Bulletin of the Southern California Academy of Sciences* 74: 49-65. \$
- Cartwright, O. L.** 1939. Eleven new American Coleoptera. *Annals of the Entomology Society of America* 32: 353-364. \$
- Caterino, M. S.** 1998. A phylogenetic revision of *Spilodiscus* Lewis (Coleoptera: Histeridae). *Journal of Natural History* 32: 1129-1168.
- Chemsak, J. A.** 1977. A list of types of Cerambycidae at the Field Museum of Natural History, Chicago (Coleoptera). *The Coleopterists Bulletin* 31(2): 173-180.
- Chittenden, F. H.** 1927. Classification of the nut curculios (formerly *Balaninus*) of Boreal America. *Entomologica Americana* 7(3): 129-208. \$
- Clark, W. E.** 1978. The weevil genus *Sibinia* Germar: Natural history, taxonomy, phylogeny, and zoogeography, with revision of the New World species (Coleoptera: Curculionidae). *Quaestiones Entomologicae* 14: 91-387.
- Clark, W. E. & H. R. Burke,** 2002 (2001). Revision of the weevil genus *Epimechus* Dietz (Curculionidae, Anthonomini). *Insecta Mundi* 15(2): 95-116. \$
- Dajoz, R.** 2000. Les Coleopteres d'une dune du Big Bend National Park (Texas). Description de deux especes nouvelle des genres *Neohelops* (Tenebrionidae) et *Cardiophorus* (Elateridae) (Coleoptera). *Nouveau Revue Entomologie* (N.S.) 17(4): 355-363. \$
- Danforth, B. N.** 1996. Phylogenetic analysis and taxonomic revision of the *Perdita* subgenera *Macrotera*, *Macroteropsis*, *Macroterella*, and *Cockerellula* (Hymenoptera: Andridae). *Kansas Science Bulletin* 55(16): 635-692. \$
- Dillon, L. S.** 1952. The Meloidae of Texas. *American Midland Naturalist* 48: 330-420.
- Eads, R. B.** 1960. Two new fleas (Hystrihopsylidae) from kangaroo rat and pocket mouse. *Journal of Parasitology* 46: 213-218. \$
- Enns, W. R.** 1956. A revision of the genera *Nemognatha*, *Zonitis*, and *Pseudozonitis* (Coleoptera: Meloidae) in America north of Mexico, with a proposed new genus. *University of Kansas Science Bulletin* 37, pt. 2 (17): 685-690. \$
- Fall, H. C.** 1915. A revision of the North American species of *Pachybrachys*. *Transactions of the American Entomological Society* 41: 291-486.
- Fall, H. C.** 1929. On *Phyllophaga debilis* LeConte, with descriptions of three new species. *Bulletin of the Brooklyn Entomological Society* 24: 110-114. \$
- Fender, K. M.** 1943. Studies in the Cantharidae (Coleoptera). *Pan-Pacific Entomologist* 19: 63-69. \$
- Fender, K. M.** 1951. The Malthini of North America (Coleoptera: Cantharidae). *American Midland Naturalist* 46: 513-629.
- Fender, K. M.** 1963. Some undescribed North American Malthini (Coleoptera: Cantharidae). *Pan-Pacific Entomology* 35: 75-79.
- Ferguson, D. C.** 1978. Moths of America north of Mexico. Fascicle 22.2 Noctuoidea. *Wedge Entomological Research Foundation*, Washington, D. C.. \$
- Ferguson, D. C.** 1983. A new genus and new species of Geometrid moth from Texas. *Journal of the Lepidopterists' Society* 37(1): 24-28. \$
- Foster, D. E.** 1976. Revision of North American *Trichodes* (Herbst) (Coleoptera: Cleridae). *Special Publication, Museum, Texas Tech. University* 11: 1-86.
- Francke, O. F. & F. W. Merickel.** 1981. Two new species of *Pogonomyrmex* harvester ants from Texas. (Hymenoptera: Formicidae). *Pan-Pacific Entomologist* 57: 371-379. \$
- Franclemont, J. G.** 1986. New species and new genera of noctuids from Arizona, Texas and Mexico: the genera *Matigramma* and *Acritogramma* (Lepidoptera: Noctuidae: Catocalinae). *Journal of the Kansas Entomological Society* 59(1): 143-172. \$
- Frank, J. H.** 1981. A revision of the New World species of the genus *Neobisnius* Ganglbauer (Coleoptera: Staphylinidae: Staphylininae). *Occasional Papers, Florida State Collection of Arthropods* 1: 1-60.
- Freeman, H. A.** 1952. Two new species of *Megathymus* from Texas and Mexico (Lepidoptera, Rhopalocera, Megathymidae). *Americal Museum Novitates* 1593: 1-9. \$

- Freeman, H. A.** 1964a. A new species of *Apodemia* from Texas (Riodinidae). *Journal of the Lepidopterists' Society* 18(2): 75-77. \$
- Freeman, H. A.** 1964b. Four new species of *Agathymus* from Texas (Megathymidae). *Journal of the Lepidopterists' Society* 18(3): 171-185. \$
- Freeman, H. A.** 1970. A new species of *Piruna* from Texas. *Journal of the Lepidopterists' Society* 24(4): 247-249. \$
- Gibson, L. P.** 1969. Monograph of the genus *Curculio* in the New World (Coleoptera: Curculionidae). Part I. United States and Canada. Miscellaneous Publications of the Entomological Society America 6(5): 239-285. \$
- Giesbert, E. F. & J. A. Chemsak.** 1989. The genus *Stenosphenus* Haldeman. *Pan-Pacific Entomologist* 65: 269-301. \$
- Giesbert, E. F. & J. A. Chemsak.** 1993. A review of the Rhopalophorini (Coleoptera: Cerambycidae) of North and Central America. *Insecta Mundi* 7(1-2): 27-64.
- Goodwin, J. T. & B. M. Drees.** 1996. The horse flies and deer flies (Diptera: Tabanidae) of Texas. *Southwestern Entomologist*, Supplement 20: 1-140.
- Gordon, R. D.** 1975. A revision of the Epilachninae of the Western Hemisphere (Coleoptera: Coccinellidae). United States Department of Agriculture, Agricultural Research Service, Technical Bulletin 1493: 1-409 + pls.
- Gordon, R. D.** 1985. The Coccinellidae (Coleoptera) of America north of Mexico. *Journal of the New York Entomological Society* 93: 1-912.
- Green, J. W.** 1920. Notes on American *Rhynchophora* (Coleoptera). *Entomological News* 31: 193-197. \$
- Green, J. W.** 1949. The Lycidae of the United States and Canada. I. The tribe Lycini (Coleoptera). *Transactions of the American Entomological Society* 75: 53-70. \$
- Green, J. W.** 1952. The Lycidae of the United States and Canada. IV. The tribe Calopterini (Coleoptera). *Transactions of the American Entomological Society* 78: 1-19. \$
- Green, J. W.** 1966. Revision of the Nearctic species of *Silis* (Cantharidae: Coleoptera). *Proceedings of the California Academy of Sciences* 32(16): 447-513. \$
- Grissell, E. E.** 1976. A revision of western Nearctic species of *Torymus* Dalman (Hymenoptera: Torymidae). University of California Publications in Entomology 79: 1-117 + pls. \$
- Hamilton, R. W.** 1971. The genus *Pselaphorhynchites* (Coleoptera: Rhynchitidae) in America north of Mexico. *Annals of the Entomological Society America* 64(5): 982-996. \$
- Hamilton, R. W.** 1974. The genus *Haplorhynchites* (Coleoptera: Rhynchitidae) in America north of Mexico. *Annals of the Entomological Society America* 67(5): 787-794. \$
- Hamilton, R. W.** 1990. A revision of the weevil genus *Eugnamptus* Schoenherr (Coleoptera: Rhynchitidae) in America north of Mexico. *Transactions of the American Entomological Society* 114: 475-502. \$
- Helava, J. V. T.** 1978. A revision of the Nearctic species of the genus *Onthophilus* Leach (Coleoptera: Histeridae). *Contributions of the American Entomological Institute* 15(5): 1-43.
- Hodges, R. W.** 1975. Oecophoridae from the West. *Journal of the Lepidopterists' Society* 2 (29): 89-94. \$
- Hodges, R. W.** 1978. Moths of America north of Mexico. Fascicle 6.1, Gelechioidea: Cosmopterigidae. 166 pp. Wedge Entomological Research Foundation, Washington, D. C.. \$
- Hodges, R. W.** 1985. A new species of *Amplipterus* from the Chisos Mountains Texas (Lepidoptera: Sphingidae). *Proceedings of the Entomological Society Washington* 887(2): 323-328. \$
- Hodges, R. W.** 1986. Moths of America north of Mexico. Fascicle 7.1, Gelechioidea: Gelechiidae, 195 pp. Wedge Entomological Research Foundation, Washington, D. C.. \$
- Hodges, R. W.** 1999. Moths of America north of Mexico. Fascicle 7.6, Gelechioidea: Gelechiidae. 300 pp. Wedge Entomological Research Foundation, Washington, D. C.. \$
- Hodges, R. W., et al.** 1983. Check list of the Lepidoptera of America north of Mexico. 284 pp. London: E. W. Classey, and Wedge Entomological Research Foundation, London. \$
- Hogue, C. L.** 1965. A new species of *Basilodes* from the Southwestern United States (Noctuidae). *Journal of Research on Lepidoptera* 4(4): 275-280. \$
- Howden, A. T.** 1959. A revision of the species of *Pandeleiteius* Schonherr and *Pandeleiteinus* Champion of America north of Mexico (Coleoptera: Curculionidae). *Proceedings of the*

- California Academy of Sciences 29(10): 361-421. \$
- Howden, H. F.** 1955. Biology and taxonomy of North American beetles of the Subfamily Geotrupidae with revisions of the genera *Bolbocerosoma*, *Eucanthus*, *Geotrupes*, and *Pelototrupes* (Scarabaeidae). Proceedings of the United States National Museum 104: 151-319.
- Howden, H. F.** 1960a. A new species of *Phyllophaga* from the Big Bend region of Texas and Coahuilla, with notes on other Scarabaeidae of the area. Canadian Entomologist 92: 457-464. \$
- Howden, H. F.** 1960b. Two new species of *Cyrtinus* LeConte. Canadian Entomologist 92: 173-177. \$
- Howden, H. F.** 1997. Podolasiini Howden, new tribe, and a revision of the included genera, *Podolasia* Harold and *Podostena* Howden, new genus (Coleoptera: Scarabaeidae: Melolonthinae). Coleopterists Bulletin 51 (3): 223-255. \$
- Howden, H. F. and O. L. Cartwright.** 1963. Scarab beetles of the genus *Onthophagus* Latreille north of Mexico (Coleoptera: Scarabaeidae). Proceedings of the United States National Museum 114: 1-135.
- Hurd, Jr., P. D. & E. G. Linsley.** 1976. The bee family Oxaeidae with a revision of the North American Species (Hymenoptera: Apoidea). Smithsonian Contributions to Zoology 220: 1-75.
- Hurd, Jr., P. D., W. E. LaBerge, E. G. Linsley.** 1980. Principal sunflower bees of North America with emphasis on the southwestern United States (Hymenoptera: Apoidea). Smithsonian Contributions to Zoology 310: 1-158.
- Jenkins, J. and W. J. Turner.** 1989. Revision of the Baccharis-infesting (Asteraceae) fruit flies of the genus *Tephritis* (Diptera: Tephritidae) in North America. Annals of the Entomological Society of America 82(6): 674-685.
- Johnson, C. D.** 1970. Biosystematics of the Arizona, California, and Oregon species of the seed beetle genus *Acanthoscelides* Schilsky (Coleoptera: Bruchidae). University of California Publications in Entomology 59: 1-116. \$
- Johnson, C. D.** 1973. A revision of the genus *Sennius* of North and Central America (Coleoptera: Bruchidae). United States Department of Agriculture, Technical Bulletin 1462: 1-135.
- Johnson, C. D. & J. M. Kingsolver.** 1976. Systematics of *Stator* of North and Central America (Coleoptera: Bruchidae). United States Department of Agriculture, Agricultural Research Service, Technical Bulletin 1537: 1-101.
- Kaila, L.** 1995. A revision of the North American *Perittia* (= *Onceroptila*), with first Nearctic records of the genus *Mendesia* (Elachistidae). Journal of the Lepidopterists' Society 49(3): 221. \$
- Karren, J. B.** 1966. A revision of the genus *Exema* of America north of Mexico (Chrysomelidae: Coleoptera). University of Kansas Science Bulletin 46(18): 647-695.
- Karren, J. B.** 1972. A revision of the subfamily Chlamisinae of America north of Mexico (Coleoptera: Chrysomelidae). University of Kansas Science Bulletin 49: 875-988.
- Kelsey, L. P.** 1969. A revision of the Scenopinidae (Diptera) of the World. Smithsonian Institution Bulletin 277: 1-336. \$
- Kingsolver, J. M. & C. D. Johnson.** 1979. Systematics of the genus *Mimosestes* (Coleoptera: Bruchidae). United States Department of Agriculture Technical Bulletin 1590: 1-106. Washington, D.C. \$
- Kissinger, D. G.** 1968. Curculionidae subfamily Apioninae of North America and Central America. Taxonomic Publications, South Lancaster, Mass. 559 pp.
- Kissinger, D.G.** 1970. Curculionidae tribe Ophryastini of North America (Coleoptera). Taxonomic Publications, South Lancaster, Mass. 238 pp.
- Knull, J. N.** 1936. Five new southwestern Coleoptera (Buprestidae and Cerambycidae). Entomological News 47: 73-75, 105-108. \$
- Knull, J. N.** 1937. New southwestern Buprestidae and Cerambycidae with notes. Ohio Journal of Science 37(5): 301-309. \$
- Knull, J. N.** 1941. Two new Texas Buprestidae (Coleoptera). Entomological News 52: 98-100. \$
- Knull, J. N.** 1944. Notes on Agrilus with descriptions of two new species (Buprestidae: Coleoptera). Annals of the Entomological Society of America 37(1): 75-83.
- Knull, J. N.** 1946. Two new *Stenosphenus* (Coleoptera: Cerambycidae). Entomological News 57(10): 253-255. \$

- Knoll, J. N.** 1952. New species of North American Buprestidae (Coleoptera: Buprestidae). Ohio Journal of Science 52(6): 349-352. \$
- Knoll, J. N.** 1954. Five new North American species of Buprestidae (Coleoptera). Ohio Journal of Science 54(1): 27-30. \$
- Knoll, J. N.** 1956. A new Texas *Agrilus* with notes on *Chalcophorella* (Coleoptera: Buprestidae). Entomological News 67 (2): 47-48. \$
- Knoll, J. N.** 1958. Two new North American Buprestidae (Coleoptera). Ohio Journal of Science 58(3): 153-154. \$
- Knoll, J. N.** 1959. Two new species of *Melanotus* (Coleoptera: Elateridae). Ohio Journal of Science 59(5): 280-281. \$
- Knoll, J. N.** 1960a. A new subspecies of *Agrilus* from Texas (Coleoptera: Buprestidae). Ohio Journal of Science 60(6): 321. \$
- Knoll, J. N.** 1960b. A new species of *Elaphidion* from Texas (Coleoptera: Cerambycidae). Ohio Journal of Science 60(1): 7. \$
- Knoll, J. N.** 1962. Three new species of long-horned beetles from southern Texas with a key to the genus *Obrium* (Coleoptera: Cerambycidae). Ohio Journal of Science 62(2): 105-107. \$
- Kraft, K.J. & E.F. Cook.** 1961. A revision of the Pachygastrinae (Diptera: Stratiomyidae) of America north of Mexico. Miscellaneous Publications of the Entomological Society of America 3(1): 1-24. \$
- Krombein, K. V. & R.M. Schuster.** 1957. A review of the Typhoctinae (Hymenoptera: Mutillidae). Proceedings of the Entomological Society of Washington 59(5): 209-232. \$
- Krombein, K. V. & S. S. Gingras.** 1984. Revision of North American *Liris* Fabricius (Hymenoptera: Sphecoidea: Larridae). Smithsonian Contributions to Zoology 404: 1-96.
- LaBerge, W. E.** 1961. A revision of the bees of the genus *Melissodes* in North and Central America. Part III. (Hymenoptera: Apidae). University of Kansas Science Bulletin 42(5): 283-663. \$
- LaFontaine, J. D.** 1998. Moths of America north of Mexico. Fascicle 27.3 Noctuoidea: Noctuidae. 348 pp. Wedge Entomological Research Foundation, Washington, D. C.. \$
- Landry, B.** 1995. Memoirs on Entomology, International 1: 1-110. Associated Publishers, Gainesville. \$
- LaSalle, J.** 1987. New World Tanaostigmatidae (Hymenoptera: Chalcidoidea). Contributions of the American Entomological Institute 23: 1-181.
- LeConte, J. L.** 1853. Revision of the Elateridae of the United States. Transactions of the American Philosophical Society 10: 405-508. \$
- Leech, H. B.** 1948. Contributions toward a knowledge of the insect fauna of Lower California, Coleoptera: Haliplidae, Dytiscidae, Gyrinidae, Hydrophilidae, Limnebiidae. Proceedings of the California Academy of Sciences 24(11): 375-484. \$
- Linsley, E. G.** 1957. Some new genera and species of North American Cerambycidae (Coleoptera). Canadian Entomologist 89(6): 283-287. \$
- Linsley, E. G. .** 1962a. The Cerambycidae of North America. Part II. Taxonomy and classification of the Parandrinae, Prioninae, Spondyliinae, and Aseminae. University of California Publications in Entomology 19: 1-102.
- Linsley, E. G. .** 1962b. The Cerambycidae of North America. Part III. Taxonomy and classification of the subfamily Cerambycinae, tribes Opsimini through Megaderini. University of California Publications in Entomology 20: 1-188. \$
- Linsley, E. G. .** 1963. The Cerambycidae of North America. Part IV. Taxonomy and classification of the subfamily Cerambycinae, tribes Elaphidionini through Rhinotragini. University of California Publications in Entomology 21: 1-165.
- Linsley, E. G. & J. A. Chemsak.** 1964. Cerambycidae of North America. Part VI, no. 1. Taxonomy and classification of the subfamily Lepturinae. University of California Publications In Entomology 69: 1-138 + 2 pls.
- Linsley, E. G. & J. A. Chemsak.** 1972. Cerambycidae of North America. Part VI, no 1: Taxonomy and classification of the subfamily Lepturinae. University of California Publications in Entomology 69: 1-138. \$
- Linsley, E. G. & J. A. Chemsak.** 1976. Cerambycidae of North America. Part VI, no. 2. Taxonomy and classification of the subfamily Lepturinae. University of California Publications in Entomology 80: 1-186.
- McElvare, R. R.** 1950. A new *Grotella* from southwest Texas (Lepidoptera: Phalaenidae). Bulletin of the Brooklyn Entomological Society 45 (4): 114-118. \$

- McElvare, R. R.** 1966. New heliothid moth from the southwestern United States (Noctuidae). *Journal of the Lepidopterists' Society* 20(2): 91-94. \$
- McKenzie, C. L. & J. V. Richardson.** 1993. Parasitoids of the horn fly in rangeland ecosystems of Trans-Pecos Texas. *Southwestern Entomologist* 18(1): 57-59.
- Mickel, C. E.** 1924. A revision of the mutillid wasps of the genera *Myrmilloides* and *Pseudomethoca* occurring in America north of Mexico. *Proceedings of the United States National Museum* 64, art. 15: 1-51. \$
- Mickel, C. E.** 1928. Biological and taxonomic investigations on the mutillid wasps. *Bulletin of the United States National Museum* 143: 1-351. \$
- Mickel, C. E.** 1935. Descriptions and records of mutillid wasps of the genera *Myrmilloides* and *Pseudomethoca* (Hymenoptera: Mutillidae). *Transactions of the American Entomological Society* 61: 383-398. \$
- Mickel, C. E.** 1967. A review of the mutillid genus *Chyphotes* Blake (Hymenoptera: Mutillidae; Apterogyninae). *Transactions of the American Entomological Society* 93: 125-234. \$
- Milliron, H. E.** 1973. A Monograph of the Western Hemisphere bumblebees (Hymenoptera: Apidae; Bombinae). II. The genus *Megabombus*, subgenus *Megabombus*. *Memoirs of the Entomological Society of Canada* 89: 80-237.
- Moulton, S. R. & S. C. Harris.** 1997. New species of southwestern Nearctic microcaddisflies (Trichoptera: Hydroptilidae) *Proceedings of the Entomological Society of Washington* 99(3): 494-501. \$
- Munroe, E. G.** 1976. Moths of America north of Mexico. Fascicle 13.2A, Pyraloidea: Pyralidae, pp. 18,19. \$
- Murray, W.D.** 1940. *Podalonia* (Hymenoptera: Sphecidae) of North and Central America. *Entomologica Americana* (n.s.) 20: 1-82. \$
- Nelson, G. H.** 1980. A new species of *Acmaeodera* (Coleoptera: Buprestidae). *Pan-Pacific Entomology* 56: 175. \$
- Neunzig, H. H.** 1988. A taxonomic study of the genus *Salebriaria* (Lepidoptera: Pyralidae: Phycitinae) in America north of Mexico. *North Carolina Agricultural Research Service Technical Bulletin* 287: 1-100. \$
- Neunzig, H. H.** 1991. Moths of America north of Mexico. Fascicle 15.3, Pyraloidea: Pyralidae. 165 pp. Wedge Entomological Research Foundation, Washington, D. C.. \$
- Neunzig, H. H.** 1997. Moths of America north of Mexico. Fascicle 15.4, Pyraloidea: Pyralidae. 157 pp. Wedge Entomological Research Foundation, Washington, D. C.. \$
- Newman, E.** 1840. *Entomological Notes*. *Entomologist*, London 2: 17-32. \$
- Noyes, J. S. & J. B. Woolley.** 1994. North American encyrtid fauna (Hymenoptera: Encyrtidae): taxonomic changes and new taxa. *Journal of Natural History* 28: 1327-1401. \$
- O'Brien, C. W.** 1970. A taxonomic revision of the genus *Gerstaeckeria* north of Mexico (Coleoptera: Curculionidae). *Annals of the Entomological Society of America* 63(1): 255-272.
- O'Brien, C. W.** 1973. *Rhinanisus chisosensis*, a new species of Cossonine weevil in a genus new to the United States (Coleoptera: Curculionidae). *Coleopterists Bulletin* 27(1): 7-9. \$
- O'Brien, C. W. & G. J. Wibmer.** 1982. Annotated checklist of the weevils (Curculionidae sensu lato) of North America, Central America, and the West Indies (Coleoptera: Curculionidae). *Memoirs of the American Entomological Institute* 34: 1-382. Ann Arbor, Michigan. \$
- Oosterbroek, P.** 1984. A revision of the crane-fly genus *Nephrotoma* Meigen, 1803, in North America (Diptera, Tipulidae). Part II: The non-dorsalis species-groups. *Beaufortia* 34(5): 117-176.
- Opitz, W.** 1997. Classification, natural history, and evolution of the Epiphloeinae (Coleoptera: Cleridae). Part I. The genera of Epiphloeinae. *Insecta Mundi* 11: 51-96.
- Otte, D.** 1981. The North American grasshoppers, vol. I. Acrididae, Gomphocerinae, and Acridinae. Harvard University Press. Cambridge, Mass. ix + 275 pp.
- Otte, D.** 1984. The North American Grasshoppers, vol. II. Acrididae, Oedipodinae. Harvard University Press, Cambridge, Massachusetts. x + 366 pp.
- Parker, F. D.** 1965. A new genus of solitary wasps (Hymenoptera: Eumenidae) from southwestern North America. *Annals of the Entomological Society of America* 58: 365. \$
- Parker, F. D.** 1966. A revision of the North American species in the genus *Leptochilus* (Hy-

- menoptera: Eumenidae). Miscellaneous Publications of the Entomological Society of America 5(4): 151-229. \$
- Patterson, J. T.** 1943. Studies in the genetics of *Drosophila*. III. The *Drosophilidae* of the Southwest. University of Texas Publications 4313: 1-327 + pls. Austin. \$
- Patterson, J. T. & M. R. Wheeler.** 1942. Description of new species of the subgenera *Hirtodrosophila* and *Drosophila*. University Texas Publications 4213: 67-109. \$
- Pellmyr, O.** 1999. Systematic revision of the yucca moths in the *Tegeticula yuccasella* complex (Lepidoptera: Prodoxidae) north of Mexico. Systematic Entomology 24: 243-271. \$
- Pierce, W. D.** 1913. Miscellaneous contributions to the knowledge of the weevils of the families Attelaabidae and Brachyrhinidae. Proceedings of the United States National Museum 45 (1988): 365-426. \$
- Poole, R. W.** 1995. Moths of America north of Mexico. Fascicle 26.1 Noctuoidea: Noctuidae (part). Cuculliinae, Stiriinae, Psaphidinae (part). Wedge Entomological Research Foundation, Washington, D. C. 249 pp. \$
- Powell, J. A.** 1980. A synopsis of *Decodes* with descriptions of new species and a related new genus in Mexico (Lepidoptera: Tortricidae). Pacific Insects 22(1-2): 78-114. \$
- Quicke, D. L. J. & R. A. Kruff.** 1995. Species of *Yelicones* (Hymenoptera: Braconidae: Rogadinae) in North America with descriptions of two new species. Annals of the Entomological Society of America 88(2): 129-138.
- Reinhard, H. J.** 1947. New North American muscoid Diptera. Journal of the Kansas Entomological Society 20(3): 95-126.
- Reinhard, H. J.** 1950a. The *Phyllophaga* of Texas (Scarabaeidae, Coleoptera). Journal of the Kansas Entomological Society 23(1): 23-41. \$
- Reinhard, H. J.** 1950b The *Phyllophaga* of Texas. Journal of the Kansas Entomological Society 23(2): 41-51.
- Reinhard, H. J.** 1954. Parasitic flies of the genus *Prosenoides* (Tachinidae, Diptera). Canadian Entomologist 86(9): 408-413.
- Reinhard, H. J.** 1967. New Nearctic and Neotropical muscoidean Diptera. Journal of the Kansas Entomological Society 40(1): 94-110. \$
- Reinhard, H. J.** 1968. A review of the genus *Macromya* (Tachinidae:Diptera). Canadian Entomologist 100(12): 1280-1287. \$
- Rindge, F. H.** 1966. A revision of the moth genus *Anacamptodes* (Lepidoptera:Geometridae). Bulletin of the American Museum of Natural History 130(3): 192-193. \$
- Rindge, F. H.** 1974. A revision of the moth genus *Animomyia*. American Museum Novitates 2561, pp. 1-23. \$
- Rindge, F. H.** 1980. A revision of the moth genus *Somatolophia*. Bulletin of the American Museum of Natural History 165(3): 291-334. \$
- Robinson, M.** 1947. Two new species of Scarabaeidae (Coleoptera). Transactions of the American Entomological Society Society 73: 169-171. \$
- Rolston, L. H.** 1973. The genus *Menecles* Stal (Hemiptera: Pentatomidae) Journal of the New York Entomological Society 80: 234-237 (1972). \$
- Sanderson, M. W.** 1939. A new genus of Scarabaeidae with descriptions and notes on *Phyllophaga*. Journal of the Kansas Entomological Society 12: 1-15. \$
- Sanderson, M. W.** 1948. Two undescribed species of *Phyllophaga* from Texas (Coleoptera: Scarabaeidae). Occasional Papers of the Museum of Zoology, University Michigan 504: 1-6. \$
- Saylor, L.W.** 1940. Revision of the Scarabaeidae beetles of the phyllophagan subgenus *Listrochelus* of the United States, with discussion of related subgenera. Proceedings of the United States National Museum 89: 59-130. \$
- Scullen, H. A.** 1948. New species in the genus *Eucerceris* with notes on recorded species and a revised key to the genus (Hymenoptera: Sphecidae). Pan-Pacific Entomology 24(4): 155-180. \$
- Scullen, H. A.** 1965. Review of the genus *Cerceris* in America north of Mexico (Hymenoptera: Sphecidae). Proceedings of the United States National Museum no. 3506, vol. 116: 333-548.
- Scullen, H. A.** 1968. A revision of the genus *Eucerceris* Cresson (Hymenoptera: Sphecidae). Smithsonian Institution (United States National Museum) Bulletin 268: 23-71. \$
- Selander, R. B.** 1965. A taxonomic revision of the genus *Megetra* (Coleoptera:Meloidae) with ecological and behavioral notes. Canadian Entomologist 97(6): 561-580.

- Sites, R. W. & D. E. Bowles.** 1995. *Ambrysus hungerfordi hungerfordi* (Hemiptera: Naucoridae) occurrence in the United States. Journal of the Kansas Entomological Society 68(4): 476-478.
- Sleeper, E.L.** 1954. New Rhynchophora. I. (Coleoptera, Anthribidae and Curculionidae). Ohio Journal of Science 54(2): 117-125. \$
- Smetana, A.** 1971. Revision of the tribe Quediini of America north of Mexico (Coleoptera: Staphylinidae). Memoirs of the Entomological Society of Canada 79: 1-303.
- Smetana, A.** 1974. Revision of the genus *Cymbiodyta* Bed. (Coleoptera: Hydrophilidae). Memoirs of the Entomological Society of Canada 93: 1-113. \$
- Smetana, A.** 1978. Revision of the subfamily Sphaeridiinae of America north of Mexico (Coleoptera: Hydrophilidae). Memoirs of the Entomological Society of Canada 105: 1-292. \$
- Staines, Jr., C. L.** 1986. A revision of the genus *Brachycoryna* (Coleoptera: Chrysomelidae: Hispinae). Insecta Mundi 1(4): 231-241.
- Stange, L. A.** 1970. Revision of the ant-lion tribe Brachynemurini of North America (Neuroptera: Myrmeleontidae). University of California Publications in Entomology 55: 1-192. \$
- Stark, H. E.** 1970. A revision of the flea genus *Thrassis* Jordon 1933 (Siphonaptera: Ceratophyllidae). University of California Publications in Entomology 53: 1-184.
- Stephen, W. P.** 1954. A revision of the bee genus *Colletes* in America north of Mexico. (Hymenoptera: Colletidae). University of Kansas Science Bulletin 36, pt 1, no. 6: 149-527.
- Stonedahl, G. M. & M. D. Schwartz.** 1986. Revision of the plant bug genus *Pseudopsallus* Van Duzee (Heteroptera: Miridae). American Museum Novitates 2842: 1-58.
- Stonedahl, G. M.** 1988. Revision of the Mirine Genus *Phytocoris* Fallen (Heteroptera: Miridae) for Western North America. Bulletin of the American Museum of Natural History 188, art. 1: 1-257. \$
- Tarmann, G.M.** 1984. Generische Revision der amerikanischen Zygaenidae mit Beschreibung neuer Gattungen und Arten (Insecta: Lepidoptera). Entomofauna Supplementa 2(1): 80-82. \$
- Timberlake, P.H.** 1953. Bees of the genus *Perdita* in the collection of the University of Kansas (Hymenoptera: Apoidea). Kansas University Science Bulletin 35: 961-985. \$
- Todd, E.L.** 1966. A new species of *Opsigalea* Hampson from Texas. Proceedings of the Entomological Society of Washington 68(2): 149-151. \$
- Todd, E. L., A. Blanchard & R. W. Poole.** 1984. A revision of the genus *Aleptina* (Lepidoptera: Noctuidae). Proceedings of the Entomological Society of Washington 86(4): 951-960. \$
- Townes, Jr., H. K.** 1938. The Nearctic species of *Netelia* (*Paniscus* of Authors) and a revision of the genera of Netelini (Hymenoptera: Ichneumonidae). Lloydia 1: 168-231.
- Triplehorn, C. A.** 1964. A synopsis of the genus *Cryptoglossus* Solier (Coleoptera: Tenebrionidae). Coleopterists Bulletin 18: 43-52.
- Triplehorn, C. A.** 1965. A revision of Diaperini of America north of Mexico with notes on extralimital species (Coleoptera: Tenebrionidae). Proceedings of the United States National Museum, no. 3515, vol. 117: 349-458.
- Triplehorn, C. A.** 1967. Notes on the species of *Megasida* Casey from the United States. Ohio Journal of Science 67(1): 38-41. \$
- Triplehorn, C. A.** 1968. Generic classification in Coniintini and description of a new species of *Eusattus* from Texas. Annals of the Entomological Society of America 61: 376-380. \$
- Triplehorn, C. A.** 1971. A new species of *Eleodes* from Texas, with notes on the subgenus *Pro-mus* (Coleoptera: Tenebrionidae) Ohio Journal of Science 71: 56-59. \$
- Triplehorn, C. A.** 1972. A review of the genus *Zopherus* of the world (Coleoptera: Tenebrionidae). Smithsonian Contributions to Zoology 108: 1-24. \$
- Triplehorn, C. A.** 1975. A new subgenus of *Eleodes*, with three new cave-inhabiting species (Coleoptera: Tenebrionidae). Coleopterists Bulletin 29(1): 39-47. \$
- Triplehorn, C.A. & K. W. Brown.** 1971. A synopsis of the species of *Asidina* in the United States with description of a new species from Arizona (Coleoptera: Tenebrionidae). Coleopterists Bulletin 25: 73-86.
- Van Dyke, E. C.** 1919. New species of Buprestidae (Coleoptera) from the western United States, with supplementary notes concerning others. Entomological News 30: 151-157. \$
- Van Pelt, A. F.** 1999. An annotated inventory of the insects of Big Bend National Park, Texas.

- Big Bend Natural History Association, Big Bend National Park, Texas. 120 pp. \$
- Vogt, G. B.** 1949. Five new species of Buprestidae from southern Texas (Coleoptera). *Annals of the Entomological Society of America* 42: 48-54. \$
- Werner, F.** 1974. New genus of primitive Meloidae from West Texas (Coleoptera). *Psyche* 81: 147-154. \$
- Werner, F. G.** 1992. The Nearctic species of *Elonus* (Coleoptera: Aderidae). *Psyche* 99(4): 245-263. \$
- Westcott, R. L. & W. F. Barr.** 1998. A new species of *Acmaeodera* (Coleoptera: Buprestidae) from Big Bend National Park, Texas, with synonymy for other species occurring in the United States. *Insecta Mundi* 12(1&2): 53-57. \$
- Wheeler, W. M.** 1903. A decad of Texan Formicidae. *Psyche* 10: 93-111. \$
- Wheeler, W. M.** 1907. The fungus-growing ants of North America. *Bulletin of the American Museum of Natural History* 23: 669-807. \$
- Wheeler, W. M.** 1908. The ants of Texas, New Mexico and Arizona. *Bulletin of the American Museum of Natural History* 24: 399-485. \$
- Whitaker, J. O. & D. A. Easterla.** 1975. Ectoparasites of bats from Big Bend National Park, Texas. *Southwestern Naturalist* 20(2): 241-254
- Whitcomb, R. F. & A. L. Hicks.** 1988. Genus *Flexamia*: new species, phylogeny, and ecology. *Great Basin Naturalist Memoirs* 12: 224-323. \$
- White, B. E.** 1944. A new *Scelolyperus* and a key to the American species north of Mexico (Coleoptera: Chrysomelidae). *Entomological News* 55: 177-180. \$
- White, R. E.** 1965. A revision of the genus *Tricorynus* of North America (Coleoptera: Anobiidae). *Miscellaneous Publications of the Entomological Society of America* 4(7): 285-378.
- Wilcox, J. A.** 1953. New species of Galerucinae and Alticinae with notes on other species (Coleoptera: Chrysomelidae). *Ohio Journal of Science* 53(1): 51-58. \$
- Wirth, W. W.** 1994. The subgenus *Atrichopogon* (*Lophomyidium*) with a revision of the Nearctic species (Ceratopogonidae). *Insecta Mundi* 8(1-2): 17-36.
- Zimmerman, J. R.** 1970. A taxonomic revision of the aquatic beetle genus *Laccophilus* (Dytiscidae) of North America. *Memoirs of the American Entomological Society* 26: 1-275.
- Zimmerman, J. R. & A. H. Smith.** 1975. A survey of the *Desonectes* (Coleoptera: Dytiscidae) of Canada, the United States, and northern Mexico. *Transactions of the American Entomological Society* 101: 651-722. \$