

## Insect species described from Big Bend National Park

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**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

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### 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. Hafernik; **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)

*Meneclis 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)
- Eugnamptus pseudonigriventris* Hamilton - Atteblabidae [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, CWO'Brien + [PARATYPE] CB, Apr '63, JB Karren (all NMNH) (all Hamilton 1990)
- Haplorhynchites pseudomexicanus* Hamilton - Atteblabidae [PARATYPE] (NMNH) Marathon, 08 - 05 - 64, HRB & JA (Hamilton, 1974)
- Pselaphorhynchites dilatarostris* Hamilton - Atteblabidae [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 fernesiana*, 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)
- Spectralia roburella* (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)
- Gymnopsyra 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 sobrium* (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 Gage + 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)
- Minyomerus 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 elythroplanatus* 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 *Leptonycteris 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 (Dajoz 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 auripurpura* (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)
- Ephesiodes 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; RG, 6 - IV - 84, ECK; ENDEMIC (Blanchard & Knudson, 1985a)
- La cerverza* 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) RG, 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; RG, 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] RG, 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 - Riodinidae [ENDEMIC]; Chisos Metalmark; [HOLOTYPE, male] (AMNH) CM, 5400', 8 - 3 - 62 [ALLOTYPE] same location (Freeman, 1964)
- Adhemarius blanchardorum* (Hodges) - Spingidae [=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 prunivivora* Tarmann - Zygaenidae [= *Neoalbertia*] [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)

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