

## Preliminary checklist of the orthopteroid insects (Blattodea, Mantodea, Phasmatodea, Orthoptera) of Texas

John A. Stidham

301 Pebble Creek Dr., Garland, TX 75040

and

Thomas A. Stidham

Department of Integrative Biology, Museum of Paleontology, and  
Museum of Vertebrate Zoology, University of California, Berkeley, CA 94720,

**Abstract:** Texas has one of the most diverse orthopteroid assemblages of any state in the United States, reflecting the varied habitats found in the state. Three hundred and eighty-nine species and 78 subspecies of orthopteroid insects (Blattodea, Mantodea, Phasmatodea, and Orthoptera) have published records for the state of Texas. This is the first such comprehensive checklist for Texas and should aid future work on these groups in this area.

### Introduction

Overall, the orthopteroid fauna of North America is fairly well known. However, details of the geographic distribution of many orthopteroid species in the U.S. are not well documented. We have compiled the published records of Texas orthopteroids, as a basis for future study. Most of these records have been confirmed through collections made by the authors throughout Texas over the last 20 years. The study of Texas orthopteroids began in the mid-nineteenth century and continues today with 389 species currently recorded in the state. This places the Texan orthopteroid fauna as one of the most diverse of any state. There are 197 species of grasshoppers known from Texas, compared to the over 200 species from California (Strohecker et al., 1968), though other orthopteroid groups are more diverse in Texas. The large number of species is most likely related to the great variety of habitats found in Texas, from desert in the West, to high plains in the North, and subtropical climates in the South. Combined with failure of Pleistocene glaciers to reach Texas, the state harbors factors necessary for long term orthopteroid diversification, as seen in its speciose fauna. However, the number of endemic species is low compared to California, since many of the habitats (and hence species ranges) in Texas extend into the adjacent states and into Mexico.

Supraspecific taxonomy follows Otte (1981, 1984) and Helfer (1987). Tridactylids are placed in Ensifera following tradition, though recent molecular data suggest their placement within Caelifera

(Flook and Rowell, 1997). The species are listed alphabetically within families or subfamilies, and therefore the alphabetical taxonomic listing does not imply any phylogenetic relationships within the subfamily or family. The reference for the published record is given after the species name and authority. The alpha taxonomy is still unclear for a few species included in this list, and therefore additional species may be added in the future as the number of taxa is clarified. This checklist is meant to act as an aid to collectors, collection managers, field workers, and other researchers working on Texas orthopteroids.

### The Orthopteroidea of Texas

#### Order Blattodea

#### Family Blattellidae

- Blattella germanica* (Linnaeus) (Hebard, 1943b)
- Blattella vaga* Hebard (Atkinson et al., 1991)
- Cariblatta lutea lutea* (Saussure and Zehntner) (Atkinson et al., 1991)
- Cariblatta lutea minima* Hebard (Atkinson et al., 1991)
- Chorisonaura texensis* Saussure and Zehntner (Hebard, 1943b)
- Euthlastoblatta abortiva* Caudell (Hebard, 1943b)
- Euthlastoblatta gemma* (Hebard) (Atkinson et al., 1991)
- Ischnoptera deropeltiformis* (Brunner) (Hebard, 1943b)

- Ischnoptera rufa occidentalis* Saussure (Hebard, 1943b)  
*Parcoblatta bolliana* (Saussure and Zehntner) (Hebard, 1943b)  
*Parcoblatta caudelli* Hebard (Hebard, 1943b)  
*Parcoblatta desertae* (Rehn and Hebard) (Hebard, 1943b)  
*Parcoblatta divisa* (Saussure and Zehntner) (Hebard, 1943b)  
*Parcoblatta fulvescens* (Saussure and Zehntner) (Hebard, 1943b)  
*Parcoblatta lata* (Brunner) (Hebard, 1943b)  
*Parcoblatta pennsylvanica* (DeGeer) (Hebard, 1943b)  
*Parcoblatta virginica* (Brunner) (Hebard, 1943b)  
*Parcoblatta zebra* Hebard (Hebard, 1943b)  
*Plectoptera picta* Saussure and Zehntner (Atkinson et al., 1991)  
*Pseudomops septentrionalis* Hebard (Hebard, 1943b)  
*Supella longipalpa* (Fabricius) (Hebard, 1943b)

#### Family Blattidae

- Blatta lateralis* (Walker) (Atkinson et al., 1991)  
*Blatta orientalis* Linnaeus (Hebard, 1943b)  
*Neostylopyga rhombifolia* (Stoll) (Atkinson et al., 1991)  
*Periplaneta americana* (Linnaeus) (Hebard, 1943b)  
*Periplaneta australasiae* (Fabricius) (Hebard, 1943b)  
*Periplaneta brunnea* Burmeister (Hebard, 1943b)  
*Periplaneta fuliginosa* (Serville) (Hebard, 1943b)

#### Family Blaberidae

- Panchlora cubensis* Saussure (Hebard, 1943b)  
*Pycnoscelus surinamensis* (Linnaeus) (Hebard, 1943b)

#### Family Polyphagidae

- Arenivaga bolliana* (Saussure) (Hebard, 1943b)  
*Arenivaga erratica* Rehn (Hebard, 1943b)  
*Arenivaga grata* Hebard (Hebard, 1943b)  
*Arenivaga tonkawa* Hebard (Hebard, 1943b)  
*Attaphila fungicola* Wheeler (Hebard, 1943b)  
*Compsodes cucullatus* Saussure and Zehntner (Atkinson et al., 1991)  
*Compsodes schwarzi* (Caudell) (Atkinson et al., 1991)  
*Eremoblatta subdiaphana* (Scudder) (Hebard, 1943b)

### Order Mantodea

#### Family Mantidae

- Brunnea borealis* Scudder (Hebard, 1943b)  
*Litaneutria minor* (Scudder) (Hebard, 1943b)  
*Oligonicella mexicanus* (Saussure) (Hebard, 1943b)  
*Oligonicella scudderi* (Saussure) (Hebard, 1943b)  
*Phyllovates chlorophaea* (Blanchard) (Hebard, 1943b)  
*Stagmomantis californica* Rehn and Hebard (Hebard, 1943b)  
*Stagmomantis carolina* (Johannson) (Hebard, 1943b)  
*Stagmomantis limbata* (Hahn) (Hebard, 1943b)  
*Yersiniops solitarium* (Scudder) (Hebard, 1943b)

### Order Phasmatodea

#### Family Pseudophasmatidae

- Anisomorpha ferruginea* (Beauvois) (Hebard, 1943b)

#### Family Heteronemiidae

- Diapheromera covillea* (Rehn and Hebard) (Hebard, 1943b)  
*Diapheromera femorata* (Say) (Hebard, 1943b)  
*Diapheromera persimilis* Caudell (Hebard, 1943b)  
*Diapheromera tamaulipennis* (Rehn) (Hebard, 1943b)  
*Diapheromera torquata* Hebard (Hebard, 1943b)  
*Diapheromera velii eucnemis* Hebard (Hebard, 1943b)  
*Diapheromera velii velii* Walsh (Hebard, 1943b)  
*Megaphasma denticrus* (Stål) (Hebard, 1943b)  
*Parabacillus coloradus* (Scudder) (Hebard, 1943b)  
*Pseudosermyle straminea* (Scudder) (Hebard, 1943b)  
*Pseudosermyle strigata* (Scudder) (Hebard, 1943b)  
*Sermyle mexicana* (Saussure) (Hebard, 1943b)

### Order Orthoptera

#### Suborder Caelifera

#### Family Tetrigidae

- Neotettix femoratus* (Scudder) (Rehn and Grant, 1961)  
*Neotettix nullisinus* (Hancock) (Rehn and Grant, 1961)  
*Nomotettix cristatus compressus* Morse (Rehn and Grant, 1961)

*Paratettix aztecus* (Saussure) (Rehn and Grant, 1961)  
*Paratettix brevipennis* (Hancock) (Rehn and Grant, 1961)  
*Paratettix cucullatus* (Burmeister) (Rehn and Grant, 1961)  
*Paratettix mexicanus* (Saussure) (Rehn and Grant, 1961)  
*Paratettix rugosus* (Scudder) (Rehn and Grant, 1961)  
*Paratettix toltecus* (Saussure) (Rehn and Grant, 1961)  
*Tetrix arenosa angusta* Hancock (Rehn and Grant, 1961)  
*Tetrix arenosa arenosa* Burmeister (Rehn and Grant, 1961)  
*Tettigidea armata* Morse (Rehn and Grant, 1961)  
*Tettigidea lateralis cazieri* Rehn and Grant (Rehn and Grant, 1961)  
*Tettigidea lateralis lateralis* (Say) (Rehn and Grant, 1961)

### Family Acrididae

#### Subfamily Gomphocerinae

*Achurum hilliardii* Gurney (Helfer, 1987)  
*Achurum minimipenne* Caudell (Otte, 1981)  
*Achurum sumichrasti* (Saussure) (Otte, 1981)  
*Acrolophitus hirtipes hirtipes* (Say) (Otte, 1981)  
*Acrolophitus hirtipes variegatus* Bruner (Helfer, 1987)  
*Acrolophitus maculipennis* (Scudder) (Otte, 1981)  
*Ageneotettix brevipennis* (Bruner) (Otte, 1981)  
*Ageneotettix deorum* (Scudder) (Otte, 1981)  
*Amphitornis coloradus* (Thomas) (Otte, 1981)  
*Aulocara elliotti* (Thomas) (Otte, 1981)  
*Aulocara femoratum* (Scudder) (Otte, 1981)  
*Boopedon auriventris* McNeill (Otte, 1981)  
*Boopedon gracile* Rehn (Otte, 1981)  
*Boopedon nubilum* (Say) (Otte, 1981)  
*Bootettix argentatus* Bruner (Otte, 1981)  
*Cibolacris parviceps* (Walker) (Otte, 1981)  
*Cibolacris samalayuca* Tinkham (Otte, 1981)  
*Cordillacris crenulata* (Bruner) (Otte, 1981)  
*Cordillacris occipitalis* (Thomas) (Otte, 1981)  
*Dichromorpha elegans* (Morse) (Otte, 1981)  
*Dichromorpha viridis* (Scudder) (Otte, 1981)  
*Eritettix abortivus* (Bruner) (Otte, 1981)  
*Eritettix simplex* (Scudder) (Otte, 1981)  
*Heliaula rufa* (Scudder) (Otte, 1981)  
*Ligurotettix planum* (Bruner) (Otte, 1981)

*Mermeria bivittata bivittata* (Serville) (Knutson, 1940)  
*Mermeria bivittata maculipennis* Bruner (Knutson, 1940)  
*Mermeria picta neomexicana* (Thomas) (Otte, 1981)  
*Mermeria picta picta* (Walker) (Tinkham, 1948)  
*Mermeria texana* Bruner (Tinkham, 1948)  
*Opeia obscura* (Thomas) (Otte, 1981)  
*Orphulella olivacea* (Morse) (Gurney, 1940)  
*Orphulella olivacea halophila* Rehn and Hebard (Gurney, 1940)  
*Orphulella pelidna* (Burmeister) (Otte, 1981)  
*Orphulella speciosa* (Scudder) (Otte, 1981)  
*Parapomala pallida* Bruner (Otte, 1981)  
*Parapomala virgata* Scudder (Otte, 1981)  
*Parapomala wyomingensis* (Thomas) (Otte, 1981)  
*Phlibostroma quadrimaculatum* (Thomas) (Otte, 1981)  
*Pseudopomala brachyptera* (Scudder) (Otte, 1981)  
*Psoloessa delicatula delicatula* (Scudder) (Rehn, 1942)  
*Psoloessa texana pawnee* Rehn (Rehn, 1942)  
*Psoloessa texana pusilla* (Scudder) (Rehn, 1942)  
*Psoloessa texana texana* Scudder (Rehn, 1942)  
*Rhammatocerus viatorius* (Saussure) (Tinkham, 1948)  
*Syrbula admirabilis* (Uhler) (Otte, 1981)  
*Syrbula montezuma* (Saussure) (Otte, 1981)

#### Subfamily Acridinae

*Metaleptea brevicornis* (Johannson) (Otte, 1981)

#### Subfamily Oedipodinae

*Anconia hebardii* Rehn (Otte, 1984)  
*Arphia conspersa* Scudder (Otte, 1984)  
*Arphia pecos* Otte (Otte, 1984)  
*Arphia pseudonietana* (Thomas) (Otte, 1984)  
*Arphia simplex* Scudder (Otte, 1984)  
*Arphia sulphurea* (Fabricius) (Otte, 1984)  
*Arphia xanthoptera* (Burmeister) (Otte, 1984)  
*Chortophaga australior* Rehn and Hebard (Otte, 1984)  
*Chortophaga viridifasciata* (DeGeer) (Otte, 1984)  
*Circotettix rabula* Rehn and Hebard (Otte, 1984)  
*Conozoa texana* (Bruner) (Otte, 1984)  
*Derotmena haydenii* (Thomas) (Otte, 1984)  
*Derotmena laticinctum* Scudder (Otte, 1984)  
*Dissosteira carolina* (Linnaeus) (Otte, 1984)  
*Dissosteira longipennis* (Thomas) (Otte, 1984)

- Encoptolophus sordidus costalis* (Scudder) (Knutson, 1940)  
*Encoptolophus subgracilis texensis* Bruner (Knutson, 1940)  
*Eximacris superbum* (Hebard) (Otte, 1984)  
*Hadrotettix magnifica* (Rehn) (Otte, 1984)  
*Hadrotettix trifasciatus* (Say) (Otte, 1984)  
*Heliastus benjamini* Caudell (Otte, 1984)  
*Heliastus subroseus* Caudell (Otte, 1984)  
*Heliastus sumichrasti* (Saussure) (Otte, 1984)  
*Hippiscus ocelote* (Saussure) (Otte, 1984)  
*Hippopedon capito* (Stål) (Otte, 1984)  
*Leprus intermedius* Saussure (Otte, 1984)  
*Leprus wheeleri* (Thomas) (Otte, 1984)  
*Mestobregma plattei corrugata* (Scudder) (Otte, 1984)  
*Mestobregma terricolor* Rehn (Otte, 1984)  
*Metator pardalinus* (Saussure) (Otte, 1984)  
*Pardalophora haldemani* (Scudder) (Otte, 1984)  
*Pardalophora phoenicoptera* (Burmeister) (Otte, 1984)  
*Pardalophora saussurei* (Scudder) (Otte, 1984)  
*Platylactista aztecus* (Saussure) (Tinkham, 1948)  
*Psinidia amplicornis* Caudell (Otte, 1984)  
*Psinidia fenestralis fenestralis* (Serville) (Otte, 1984)  
*Psinidia fenestralis frater* Rehn (Rehn, 1919)  
*Spharagemon bolli* Scudder (Otte, 1984)  
*Spharagemon bolli inornatum* Morse (Tinkham, 1948)  
*Spharagemon campestris* (McNeill) (Otte, 1984)  
*Spharagemon collare* (Scudder) (Otte, 1984)  
*Spharagemon cristatum* (Scudder) (Otte, 1984)  
*Spharagemon equale* (Say) (Otte, 1984)  
*Spharagemon marmorata picta* (Scudder) (Otte, 1984)  
*Trachyrhachis aspera* Scudder (Otte, 1984)  
*Trachyrhachis coronata* Scudder (Otte, 1984)  
*Trachyrhachis kiowa fuscifrons* (Stål) (Otte, 1984)  
*Trachyrhachis kiowa kiowa* (Thomas) (Otte, 1984)  
*Trimerotropis citrina* Scudder (Otte, 1984)  
*Trimerotropis cyaneipennis* Bruner (Otte, 1984)  
*Trimerotropis latifasciata* Scudder (Otte, 1984)  
*Trimerotropis melanoptera* McNeill (Otte, 1984)  
*Trimerotropis pallidipennis* (Burmeister) (Otte, 1984)  
*Trimerotropis pistrinaria* Saussure (Otte, 1984)  
*Trimerotropis salina* McNeill (Otte, 1984)  
*Trimerotropis saxatilis* McNeill (Isely, 1935)  
*Trimerotropis schaefferi* Caudell (Otte, 1984)  
*Trimerotropis strenua* McNeill (Otte, 1984)  
*Tropidolophus formosus* (Say) (Otte, 1984)  
*Xanthippus corallipes pantherinus* (Scudder) (Helfer, 1987)
- Subfamily Melanoplinae**
- Aeoloplides elegans* (Scudder) (Tinkham, 1948)  
*Aeoloplides turnbulli bruneri* (Caudell) (Wallace, 1955)  
*Agroecotettix modestus aristus* Hebard (Hebard, 1943a)  
*Agroecotettix modestus crypsidomus* Hebard (Hebard, 1943a)  
*Campylacantha lamprotata* Rehn and Hebard (Rehn and Hebard, 1909)  
*Campylacantha olivacea olivacea* (Scudder) (Knutson, 1940)  
*Campylacantha olivacea vivax* (Scudder) (Helfer, 1987)  
*Chloropus cactocaetes* Hebard (Helfer, 1987)  
*Clematodes larrae* Scudder (Tinkham, 1948)  
*Dactylotum bicolor pictum* (Thomas) (Knutson, 1940)  
*Dactylotum bicolor variegatum* (Scudder) (Helfer, 1987)  
*Dendrotettix quercus* Packard (Helfer, 1987)  
*Hesperotettix speciosus* (Scudder) (Knutson, 1940)  
*Hesperotettix viridis pratensis* Scudder (Knutson, 1940)  
*Hesperotettix viridis viridis* (Thomas) (Knutson, 1940)  
*Hypochlora alba* (Dodge) (Knutson, 1940)  
*Melanoplus alexanderi* Hilliard (Hilliard, 2001)  
*Melanoplus angularis* Little (Knutson, 1940)  
*Melanoplus angustipennis angustipennis* (Dodge) (Helfer, 1987)  
*Melanoplus angustipennis impiger* Scudder (Knutson, 1940)  
*Melanoplus aridus* (Scudder) (Spooner, 1989)  
*Melanoplus arizonae* Scudder (Helfer, 1987)  
*Melanoplus bispinosus* Scudder (Knutson, 1940)  
*Melanoplus bivittatus* (Say) (Knutson, 1940)  
*Melanoplus bowditchi* Scudder (Rehn and Hebard, 1909)  
*Melanoplus confusus* Scudder (Knutson, 1940)  
*Melanoplus dakini* Hilliard (Hilliard, 2001)  
*Melanoplus desultorius* Rehn (Spooner, 1989)  
*Melanoplus differentialis nigricans* Cockerell (Roberts, 1942)  
*Melanoplus discolor* (Scudder) (Knutson, 1940)  
*Melanoplus eumera* Hebard (Tinkham, 1948)  
*Melanoplus femur-rubrum* (DeGeer) (Knutson, 1940)  
*Melanoplus flabellatus* Scudder (Knutson, 1940)  
*Melanoplus flavidus* Scudder (Knutson, 1940)  
*Melanoplus foedus fluviatilis* Bruner (Knutson, 1940)

- Melanoplus foedus foedus* Scudder (Hebard, 1936)  
*Melanoplus foedus iselyi* Hebard. (Knutson, 1940)  
*Melanoplus gladstoni* Scudder (Helfer, 1987)  
*Melanoplus glaucipes* (Scudder) (Knutson, 1940)  
*Melanoplus herbaceous* Bruner (Rehn and Hebard, 1909)  
*Melanoplus inconspicuus* Caudell (Hebard, 1917a)  
*Melanoplus keeleri* (Thomas) (Knutson, 1940)  
*Melanoplus lakinus* (Scudder) (Knutson, 1940)  
*Melanoplus mastigiphallus* Strohecker (Strohecker, 1941)  
*Melanoplus mexicanus* (Saussure) (Helfer, 1987)  
*Melanoplus occidentalis* (Thomas) (Helfer, 1987)  
*Melanoplus packardii* Scudder (Knutson, 1940)  
*Melanoplus plebejus* (Stål) (Helfer, 1987)  
*Melanoplus ponderosus* (Scudder) (Knutson, 1940)  
*Melanoplus ponderosus viola* (Thomas) (Hebard, 1941)  
*Melanoplus punctulatus arboreus* Scudder (Rehn, 1946)  
*Melanoplus regalis* (Dodge) (Helfer, 1987)  
*Melanoplus rusticus obovatipennis* Blatcheley (Coppock, 1962)  
*Melanoplus sanguinipes defectus* Scudder (Helfer, 1987)  
*Melanoplus sanguinipes vulturis* Gurney and Brooks (Gurney and Brooks, 1959)  
*Melanoplus scudderii latus* Morse (Knutson, 1940)  
*Melanoplus scudderii texensis* Hart (Knutson, 1940)  
*Melanoplus terminalis* Scudder (Scudder, 1897)  
*Melanoplus texanus* (Scudder) (Knutson, 1940)  
*Melanoplus thomasi* Scudder (Helfer, 1987)  
*Melanoplus tuberculatus* Morse (Helfer, 1987)  
*Melanoplus warneri* Little (Knutson, 1940)  
*Netrosoma nigropleura* Scudder (Helfer, 1987)  
*Paraidemona fratercula* Hebard (Hebard, 1918)  
*Paraidemona latifurcula* Hebard (Hebard, 1918)  
*Paraidemona mimica* (Scudder) (Hebard, 1918)  
*Paraidemona nuttingi* Yin and Smith (Yin and Smith, 1989)  
*Paraidemona olsoni* Yin and Smith (Yin and Smith, 1989)  
*Paraidemona punctata* (Stål) (Hebard, 1918)  
*Paratylotropidea brunneri* Scudder (Knutson, 1940)  
*Paroxya atlantica* Scudder (Knutson, 1940)  
*Paroxya clavuliger* (Serville) (Helfer, 1987)  
*Phaedrotettix accola* (Scudder) (Hebard, 1917b)  
*Phaedrotettix dumicola* (Scudder) (Hebard, 1917b)  
*Phaedrotettix palmeri* (Scudder) (Hebard, 1917b)  
*Phaulotettix compressus* Scudder (Helfer, 1987)  
*Phaulotettix eurycercus* Hebard (Helfer, 1987)  
*Philocleon nigrovittata* (Stål) (Tinkham, 1948)  
*Photaliotes nebrascensis* (Thomas) (Knutson, 1940)  
*Schistocerca albolineata* (Thomas) (Hubbell, 1960)  
*Schistocerca alutacea* (Harris) (Hubbell, 1960)  
*Schistocerca americana* (Drury) (Knutson, 1940)  
*Schistocerca damnifica* (Saussure) (Knutson, 1940)  
*Schistocerca emarginata* (Scudder) (Knutson, 1940)  
*Schistocerca nitens* (Thunberg) (Helfer, 1987)  
*Schistocerca obscura* (Fabricius) (Helfer, 1987)  
*Schistocerca rubiginosa* (Harris) (Helfer, 1987)  
*Schistocerca shoshone* (Thomas) (Hubbell, 1960)
- Subfamily Leptysminae**
- Leptysma marginicollis* (Serville) (Knutson, 1940)  
*Stenacris vitreipennis* (Marschall) (Hilliard, 1982)
- Subfamily Romaleinae**
- Brachystola magna* (Girard) (Rehn and Grant, 1961)  
*Phrynotettix robustus occultus* Rehn and Grant (Rehn and Grant, 1961)  
*Phrynotettix robustus robustus* (Bruner) (Rehn and Grant, 1961)  
*Phrynotettix tschivavensis tschivavensis* (Haldeman) (Rehn and Grant, 1961)  
*Phrynotettix tschivavensis verruculatus* Glover (Rehn and Grant, 1961)  
*Romalea guttatus* (Stoll) (Rehn and Grant, 1961)  
*Taeniopoda eques* (Burmeister) (Rehn and Grant, 1961)
- Suborder Ensifera**
- Family Gryllacrididae**
- Subfamily Rhapsidophorinae**
- Ammobaenetes phrixocnemoides* (Caudell) (Helfer, 1987)  
*Ceuthophilus carlsbadensis* Caudell (Hubbell, 1936)  
*Ceuthophilus conicaudus* Hubbell (Hubbell, 1936)  
*Ceuthophilus cunicularis* Hubbell (Hubbell, 1936)  
*Ceuthophilus divergens* Scudder (Hubbell, 1936)  
*Ceuthophilus isletae* Hubbell (Hubbell, 1936)  
*Ceuthophilus nodulosus* Brunner (Hubbell, 1936)  
*Ceuthophilus pallidus* Thomas (Hubbell, 1936)  
*Ceuthophilus polingi* Hubbell (Hubbell, 1936)  
*Ceuthophilus rehni* Hubbell (Hubbell, 1936)  
*Ceuthophilus secretus* Scudder (Hubbell, 1936)  
*Ceuthophilus umbratilis* Hubbell (Hubbell, 1936)  
*Ceuthophilus utahensis* Thomas (Hubbell, 1936)  
*Ceuthophilus variegatus* Scudder (Hubbell, 1936)  
*Daihinia brevipes* Haldeman (Helfer, 1987)

*Daihiniella bellicosus* (Hubbell) (Hubbell, 1936)  
*Daihiniodes hausteriferum* (Rehn) (Hubbell, 1936)  
*Udeopsylla robusta* (Haldeman) (Helfer, 1987)

#### Subfamily Stenopelmatinae

*Stenopelmatus fuscus* Haldeman (Hebard, 1916a)

#### Family Tettigoniidae

##### Subfamily Conocephalinae

*Bucrates malivolens* (Scudder) (Helfer, 1987)  
*Conocephalus brevipennis* (Scudder) (Rehn and Hebard, 1915a)  
*Conocephalus fasciatus* (DeGeer) (Rehn and Hebard, 1915a)  
*Conocephalus hygrophilus* Rehn and Hebard (Rehn and Hebard, 1915a)  
*Conocephalus resacensis* Rehn and Hebard (Rehn and Hebard, 1915a)  
*Conocephalus saltans* (Scudder) (Rehn and Hebard, 1915a)  
*Conocephalus spartinae* (H. Fox) (Rehn and Hebard, 1915a)  
*Conocephalus strictus* (Scudder) (Rehn and Hebard, 1915a)  
*Neoconocephalus exiliscanorus* (Davis) (Helfer, 1987)  
*Neoconocephalus nebrascensis* (Brunner) (Walker, 1998)  
*Neoconocephalus robustus crepitans* (Scudder) (Tinkham, 1944)  
*Neoconocephalus triops* (Linnaeus) (Helfer, 1987)  
*Neoconocephalus velox* Rehn and Hebard (Walker, 1998)  
*Orchelimum agile* (DeGeer) (Morris and Walker, 1976)  
*Orchelimum bullatum* Rehn and Hebard (Rehn and Hebard, 1915b)  
*Orchelimum calcaratum* Rehn and Hebard (Rehn and Hebard, 1915b)  
*Orchelimum concinnum concinnum* Scudder (Rehn and Hebard, 1915b)  
*Orchelimum concinnum delicatulum* Bruner (Thomas and Alexander, 1962)  
*Orchelimum nigripes* Scudder (Rehn and Hebard, 1915b)  
*Orchelimum vulgare* Harris (Rehn and Hebard, 1915b)  
*Pyrgocorypha uncinata* (Harris) (Helfer, 1987)

##### Subfamily Pseudophyllinae

*Paracyrtophyllus excelsus* (Rehn and Hebard) (Hebard, 1941)  
*Paracyrtophyllus robustus* Caudell (Hebard, 1941)  
*Pterophylla camellifolia camellifolia* (Fabricius) (Hebard, 1941)  
*Pterophylla camellifolia intermedia* (Caudell) (Hebard, 1941)  
*Pterophylla furcata furcata* (Caudell) (Hebard, 1941)  
*Pterophylla furcata laetifica* Hebard (Hebard, 1941)

##### Subfamily Phaneropterinae

*Amblycorypha floridana* Rehn and Hebard (Rehn and Hebard, 1914c)  
*Amblycorypha hausteca* (Saussure) (Rehn and Hebard, 1914c)  
*Amblycorypha insolita* Rehn and Hebard (Rehn and Hebard, 1914c)  
*Amblycorypha oblongifolia* (DeGeer) (Rehn and Hebard, 1914c)  
*Amblycorypha rotundifolia parvipennis* Stål (Rehn and Hebard, 1914c)  
*Amblycorypha uhleri* Stål (Rehn and Hebard, 1914c)  
*Arethaea ambulator* Hebard (Rehn and Hebard, 1914a)  
*Arethaea arachnopyga* Rehn and Hebard. (Rehn and Hebard, 1914a)  
*Arethaea constricta comanche* Hebard (Hebard, 1936b)  
*Arethaea constricta constricta* Brunner (Hebard, 1936b)  
*Arethaea gracilipes cerciata* Hebard. (Rehn and Hebard, 1914a)  
*Arethaea gracilipes gracilipes* (Thomas) (Rehn and Hebard, 1914a)  
*Arethaea grillator* (Scudder) (Rehn and Hebard, 1914a)  
*Arethaea phantasma* Rehn and Hebard (Rehn and Hebard, 1914a)  
*Arethaea semialata* Rehn and Hebard (Rehn and Hebard, 1914a)  
*Dichopetala brevihastata* Morse (Rehn and Hebard, 1914b)  
*Dichopetala castanea* Rehn and Hebard (Rehn and Hebard, 1914b)  
*Dichopetala catinata* Rehn and Hebard (Rehn and Hebard, 1914b)  
*Dichopetala emarginata* Brunner (Rehn and Hebard, 1914b)

- Dichopetala gladiator* Rehn and Hebard (Rehn and Hebard, 1914b)  
*Dichopetala oreoeca* Rehn and Hebard (Rehn and Hebard, 1914b)  
*Dichopetala pollicifera* Rehn and Hebard (Rehn and Hebard, 1914b)  
*Dichopetala seeversi* Strohecker (Strohecker, 1941)  
*Insara elegans* (Scudder) (Tinkham, 1944)  
*Microcentrum latifrons* Spooner (Spooner, 1989)  
*Microcentrum minus* Strohecker (Strohecker, 1952)  
*Microcentrum rhombifolium* (Saussure) (Helfer, 1987)  
*Montezumina modesta* (Brunner) (Walker, 1998)  
*Scudderia curvicauda-laticauda* Brunner (Rehn and Hebard, 1914)  
*Scudderia furcata* Brunner (Rehn and Hebard, 1914)  
*Scudderia furcata furcifera* (Scudder) (Rehn and Hebard, 1914)  
*Scudderia mexicana* (Saussure) (Rehn and Hebard, 1914)  
*Scudderia texensis* Saussure and Pictet (Rehn and Hebard, 1914)

#### Subfamily Decticinae

- Anabrus simplex* Haldeman (Caudell, 1907)  
*Capnobotes fuliginosus* (Thomas) (Tinkham, 1944)  
*Eremopedes covilleae* Hebard (Tinkham, 1948)  
*Eremopedes scudderi* Cockerell (Tinkham, 1948)  
*Neobarrettia spinosus* (Caudell) (Helfer, 1987)  
*Neobarrettia victoriae* (Caudell) (Helfer, 1987)  
*Pediectes daedalus* (Rehn and Hebard) (Rehn and Hebard, 1920)  
*Pediectes grandis* (Rehn) (Tinkham, 1944)  
*Pediectes haldemaniai* (Girard) (Tinkham, 1944)  
*Pediectes nigromarginata* (Caudell) (Rentz and Birchim, 1968)  
*Pediectes pratti* (Caudell) (Rentz and Birchim, 1968)  
*Pediectes stevensoni* (Thomas) (Tinkham, 1944)  
*Pediectes tinkhami* Hebard (Rentz and Birchim, 1968)

#### Family Gryllotalpidae

- Gryllotalpa cultriger* Uhler (Frank et al., 1995)  
*Neocurtilla hexadactyla* (Perty) (Helfer, 1987)  
*Scapteriscus borelli* Giglio-Tos (Frank et al., 1995)  
*Scapteriscus vicinus* Scudder (Frank et al., 1995)

#### Family Tridactylidae

- Tridactylus apicalis* Say (Helfer, 1987)  
*Tridactylus minutis* Scudder (Helfer, 1987)

#### Family Myrmecophilidae

- Myrmecophila nebrascensis* Lugger (Helfer, 1987)

#### Family Gryllidae

- Acheta domesticus* (Linnaeus) (Blatchley, 1920)  
*Allonemobius fasciatus* (DeGeer) (Hebard, 1913)  
*Allonemobius fasciatus socius* (Scudder) (Hebard, 1913)  
*Allonemobius griseus funeralis* (Hart) (Hebard, 1913)  
*Allonemobius sparsalus* (Fulton) (Walker, 1998)  
*Anaxipha exigua* (Say) (Helfer, 1987)  
*Anurogryllus muticus* (DeGeer) (Helfer, 1987)  
*Cycloptilium antillarum* (Redtenbacher) (Hebard, 1916b)  
*Cycloptilium comprehendens comprehendens* Hebard (Hebard, 1916b)  
*Cycloptilium comprehendens fortior* Hebard (Hebard, 1916b)  
*Cycloptilium kelainopum* Love and Walker (Love and Walker, 1979)  
*Cycloptilium pigrum* Love and Walker (Love and Walker, 1979)  
*Cycloptilium slossoni* Scudder (Love and Walker, 1979)  
*Cycloptilium squamosum* Scudder (Love and Walker, 1979)  
*Cycloptilium trigonipalpus* Rehn and Hebard (Love and Walker, 1979)  
*Cyrtoxipha columbiana* Caudell (Walker, 1969)  
*Eunemobius carolinus* (Scudder) (Hebard, 1913)  
*Eunemobius carolinus neomexicanus* (Scudder) (Hebard, 1913)  
*Falcicula hebardi* Rehn (Blatchley, 1920)  
*Gryllodes sigillatus* Walker (Alexander and Walker, 1962)  
*Gryllus firma* Scudder (Alexander, 1968)  
*Gryllus fultoni* Alexander (Alexander, 1968)  
*Gryllus pennsylvanicus* Burmeister (Alexander, 1968)  
*Gryllus personatus* Uhler (Rehn and Hebard, 1915c)  
*Gryllus rubens* (Scudder) (Walker, 1998)  
*Gryllus texensis* Cade and Otte (Cade and Otte, 2000)  
*Hapithus agitator* Uhler (Helfer, 1987)

*Hoplosphyrum boreale* (Scudder) (Helfer, 1987)  
*Miogryllus lineatus* (Scudder) (Hebard, 1915)  
*Miogryllus verticalis* (Serville) (Hebard, 1915)  
*Neonemobius cubensis mormonius* (Scudder) (Hebard, 1913)  
*Neoxabea bipunctata* (DeGeer) (Walker, 1963)  
*Neoxabea formosa* (F. Walker) (Walker, 1967)  
*Oecanthus argentinus* Saussure (Walker, 1962)  
*Oecanthus californicus* Saussure (Walker, 1963)  
*Oecanthus celerinictus* T.J. Walker (Walker, 1962)  
*Oecanthus exclamationis* Davis (Walker, 1963)  
*Oecanthus fultoni* T.J. Walker (Walker, 1963)  
*Oecanthus leptogrammus* T.J. Walker (Walker, 1963)  
*Oecanthus niveus* (DeGeer) (Walker, 1963)  
*Oecanthus pini* Beutenmuller (Walker, 1962)  
*Oecanthus quadripunctatus* Beutenmuller (Walker, 1962)  
*Orocharis saltator* Uhler (Walker, 1969)  
*Phyllopalpus pulchellus* (Uhler) (Walker, 1998)  
*Trigonidomimus belfragei* Caudell (Caudell, 1912)

### References

- Alexander, R.D.** 1968. Life cycle origins, speciation, and related phenomena in crickets. *Quart. Rev. Biol.* 43: 1-41.
- Alexander, R.D. and T.J. Walker.** 1962. Two introduced field crickets new to Eastern United States (Orthoptera: Gryllidae). *Ann. Entomol. Soc. Am.* 55: 90-94.
- Atkinson, T.A., P.G. Koehler, and R.S. Patterson.** 1991. Catalog and atlas of the cockroaches (Dictyoptera) of North America North of Mexico. *Misc. Publ. Entomol. Soc. Amer.* 78: 85 pp.
- Blatchley, W.S.** 1920. Orthoptera of Northeastern America. *Nature Publ. Co., Indianapolis, Indiana.*
- Cade, W.H. and D. Otte.** 2000. *Gryllus texensis* n. sp.: a widely studied field cricket (Orthoptera; Gryllidae) from the Southern United States. *Trans. Amer. Entomol. Soc.* 126: 117-123.
- Caudell, A.X.** 1907. The Decticinae (a group of Orthoptera) of North America. *Proc. U.S. Natl. Mus.* 32: 285-410.
- Caudell, A.N.** 1912. A new genus and species of Gryllidae from Texas. *Proc. Entomol. Soc. Wash.* 14: 187-189.
- Coppock, S., Jr.** 1962. The grasshoppers of Oklahoma (Orthoptera: Acrididae) Oklahoma State Univ. Agric. Exp. Sta. Report P-399: 143 pp.
- Flook, P.K. and C.H.F. Rowell.** 1997. The phylogeny of the Caelifera (Insecta, Orthoptera) as deduced from mtrRNA gene sequences. *Mol. Phylog. Evol.* 8: 89-103.
- Frank, J.H., T.R. Fasulo, and D.E. Short.** 1995. *Mcricquet Knowledgebase* <http://gnv.lfas.ufl.edu/~entl/mcricquet/>.
- Gurney, A.B.** 1940. A revision of the grasshoppers of the genus *Orphulella* from America North of Mexico. *Entomologica Am.* 20: 85-157.
- Gurney, A.B. and A.R. Brooks.** 1959. Grasshoppers of the *Mexicanus* group, genus *Melanoplus* (Orthoptera: Acrididae). *Proc. U.S. Natl. Mus.* 110: 1-93.
- Hebard, M.** 1913. A revision of the species of the genus *Nemobius* (Orthoptera: Gryllidae) found in North America North of the Isthmus of Panama. *Proc. Acad. Nat. Sci. Phila.* 65: 394-492.
- Hebard, M.** 1915. The American species of the genus *Miogryllus*. *J. New York Entomol. Soc.* 23: 101-121.
- Hebard, M.** 1916a. A study of the species of the genus *Stenopelmatus* found in the United States. *J. New York Entomol. Soc.* 24: 70-86.
- Hebard, M.** 1916b. The Mogoplistinae (Orthoptera, Gryllidae) of the United States. *Trans. Am. Entomol. Soc.* 42: 135-160.
- Hebard, M.** 1917a. New genera and species of the Melanopli found within the United States and Canada (Orthoptera: Acrididae). Parts X to XIV. *Trans. Am. Entomol. Soc.* 43:147-163.
- Hebard, M.** 1917b. Notes on Mexican Melanopli (Orthoptera: Acrididae). *Proc. Acad. Nat. Sci. Phila.* 69: 251-275.
- Hebard, M.** 1918. New genera and species of Melanopli found within the United States (Orthoptera: Acrididae). *Trans. Am. Entomol. Soc.* 44: 141-169.
- Hebard, M.** 1936a. New genera and species of the Melanopli found within the U.S. and Canada, Part VIII. *Trans. Am. Entomol. Soc.* 62: 182-190.
- Hebard, M.** 1936b. VI. A revision of the genus *Arethaea* (Tettigoniidae, Phaneropterinae). *Trans. Am. Entomol. Soc.* 62: 231-256.
- Hebard, M.** 1941. The group Pterophyllae as found in the United States (Tettigoniidae: Pseudophyllinae). *Trans. Am. Entomol. Soc.* 67: 197-219.
- Hebard, M.** 1943a. New genera and species of Melanopli found within the U.S., Part IV. *Trans. Am. Entomol. Soc.* 68: 49-66.



- Hebard, M.** 1943b. The Dermaptera and Orthopterous families Blattidae, Mantidae, and Phasmodidae of Texas. *Trans. Am. Entomol. Soc.* 48: 239-313.
- Helfer, J.R.** 1987. How to know the grasshoppers, crickets, cockroaches and their allies. Dover Publications, Inc., New York.
- Hilliard, J.R., Jr.** 1982. Endophytic oviposition by *Leptysmia marginicollis marginicollis* and *Stenacris vitreipennis* (Orthoptera: Acrididae: Leptysminae) with life history notes. *Trans. Am. Entomol. Soc.* 108: 153-180.
- Hilliard, J.R., Jr.** 2001. Two new grasshopper species in the Texanus group of the genus *Melanoplus* (Orthoptera: Acrididae: Melanoplinae) with biological notes on the group. *Trans. Am. Entomol. Soc.* 127: 31-68.
- Hubbell, T.H.** 1936. A monographic revision of the genus *Ceuthophilus* (Orthoptera, Gryllacrididae, Rhabdophorinae). *Univ. Fla. Pub. Biol. Sci. Series 2*: 1-551.
- Hubbell, T.H.** 1960. The sibling species of the *Alutacea* group of the bird-locust genus *Schistocerca* (Orthoptera, Acrididae, Cyrtacanthacridinae). *Misc. Publ. Mus. Zool., Univ. Mich.* 116: 1-91.
- Isely, F.B.** 1935. Acridian researches within Northeastern Texas (Orthoptera). *Entomol. News* 46: 37-75.
- Knutson, H.** 1940. A key to the Acrididae (Orthoptera) of Northeastern Texas with ecological notes. *Field and Laboratory* 8: 33-58.
- Love, R.E. and T.J. Walker.** 1979. Systematics and acoustic behavior of scaly crickets (Orthoptera: Gryllidae: Mogoplistinae) of Eastern United States. *Trans. Am. Entomol. Soc.* 105: 1-66.
- Morris, G.K. and T.J. Walker.** 1976. Calling songs of *Orchelimum* meadow katydids (Tettigoniidae), 1. mechanism, terminology, and geographic distribution. *Can. Entomol.* 108: 785-800.
- Otte, D.** 1981. The North American grasshoppers, Volume I Acrididae, Gomphocerinae, and Acridinae. Harvard Univ. Press, Cambridge, Massachusetts.
- Otte, D.** 1984. The North American grasshoppers, Volume II Oedipodinae. Harvard Univ. Press, Cambridge, Massachusetts.
- Rehn, J.A.G.** 1919. Descriptions of new and critical notes upon previously known forms of North American Oedipodinae (Orthoptera: Acrididae). *Trans. Am. Entomol. Soc.* 45: 229-255.
- Rehn, J.A.G.** 1942. On the locust genus *Psoloessa* (Orthoptera: Acrididae: Acridinae). *Trans. Am. Entomol. Soc.* 68: 167-237.
- Rehn, J.A.G.** 1946. On the *Punctulatus* species-group of the genus *Melanoplus* (Orthoptera, Acrididae, Cyrtacanthacridinae). *Proc. Acad. Nat. Sci.* 98: 241-269.
- Rehn, J.A.G. and H.J. Grant Jr.** 1961. A monograph of the Orthoptera of North America (North of Mexico), Vol. 1. Monographs of the Acad. Nat. Sci. Phila., 12: 257 pp.
- Rehn, J.A.G. and M. Hebard.** 1909. An orthopterological reconnaissance of the Southwestern United States. Part II: New Mexico and Western Texas. *Proc. Acad. Nat. Sci. Phila.* 61: 111-175.
- Rehn, J.A.G. and M. Hebard.** 1914a. A revision of the orthopterous group Insarae (Tettigoniidae, Phaneropterinae). *Trans. Am. Entomol. Soc.* 40: 37-184.
- Rehn, J.A.G. and M. Hebard.** 1914b. A study of the species of the genus *Dichopetala* (Orthoptera: Tettigoniidae). *Proc. Acad. Nat. Sci. Phila.* 66: 64-160.
- Rehn, J.A.G. and M. Hebard.** 1914c. Studies in American Tettigoniidae (Orthoptera) I and II. *Trans. Am. Entomol. Soc.* 40: 271-344.
- Rehn, J.A.G. and M. Hebard.** 1915a. A synopsis of the species of the genus *Conocephalus* (*Xiphidium* of authors) found in North America North of Mexico. *Trans. Am. Entomol. Soc.* 41: 155-224.
- Rehn, J.A.G. and M. Hebard.** 1915b. A synopsis of the species of the genus *Orchelimum*. *Trans. Am. Entomol. Soc.* 41: 11-83.
- Rehn, J.A.G. and M. Hebard.** 1915c. The genus *Gryllus* as found in America. *Proc. Acad. Nat. Sci. Phila.* 77: 293-322.
- Rehn, J.A.G. and M. Hebard.** 1920. Description of new genera and species of North American Decticinae (Orthoptera: Tettigoniidae). *Trans. Am. Entomol. Soc.* 46: 225-265.
- Rentz, D.C. and J.D. Birchim.** 1968. Revisionary studies in the Nearctic Decticinae. *Mem. Pacific Coast Entomol. Soc.* 3: 1-173.
- Roberts, H.R.** 1942. Two subspecies of *Melanoplus differentialis* and related new subspecies from Mexico with discussion of their variation. *Trans. Amer. Entomol. Soc.* 68: 151-166.
- Scudder, S.H.** 1897. Revision of the orthopteran group Melanopli (Acrididae), with special reference to North American forms. *Proc. U.S. Natl. Mus.* 20: 293-294.