

ADDITIONAL INSECT RECORDS FROM VENEZUELA

By LUIS F. MARTORELL and ANSELMO ESCALONA SALAS.

In May 1935, the junior author, a student at the Agricultural and Mechanical College at Mayagüez, P. R., returned to Venezuela on vacation and while there, collected insects in the vicinity of Maracay, State of Aragua, which were brought to Puerto Rico.

A year later, in May of 1936, Escalona went to Valera, Estado Trujillo. The climatological conditions of Valera are indicated by the following rainfall data:

Year	Total Precipitation	Months Recording Most Rainfall
1935.....	34.29 inches.....	May and August
1936.....	36.31 inches.....	May, October and November
1937.....	24.77 inches..... (Three months lacking)	March, May and October

The meteorological station is at Trujillo, Capital of the State. (12, 13, 14) Valera is a nearby town about 25 kilometers from Trujillo with not much difference in rainfall.

Escalona collected in the vicinity of Valera, in the fields and sometimes during the night at lights.

During the month of August 1937, the senior writer, returning to Venezuela, visited the State of Monagas, in the region around Maturín, Caripito and Quiriquire, to collect parasites of the mole cricket. During spare time at nights, and when conditions were not suitable for collecting parasites, the writer made collections of other insects. All the insects collected were on *Borreria verticillata* (L.) Meyer, unless otherwise specified.

Martorell stayed at Quiriquire, as well as in Caripito and Maturín. Quiriquire and Caripito are surrounded by a dense forest, with an immense variety of trees and flowering plants. The annual average rainfall for this region, as recorded by the station at Maturín, is around 45 inches. The region around Maturín is part forest and part "chaparrales" and savannahs. "Chaparral" is the term used by the natives, meaning a sort of savannah, covered by grasses and low, twisted trees like "curata" (*Curatela americana* L.) "alcornoque" (*Bowditchia virgilioides* H. B. K.) the very common

“chaparros” (*Byrsonima crassifolia* H. B. K. and *B. coccolobaefolia* H. B. K.) The region around the Quiriquire airport is very typical of a “chaparral”.

Some of the insects were determined by the senior author, others were sent to the U. S. National Museum for determination.

The initials of the collectors, L. F. M. for Luis F. Martorell and A. E. S. for Anselmo Escalona Salas, identify the collections made by each. The insect names preceded by an asterisk in this paper, are already noted in the previous list, “Insects observed in the State of Aragua, Venezuela, S. A.”

DERMAPTERA

- * *Doru lineare* (Esch.) Det. A. B. Gurney
Col. A. E. S., Valera; May, 1936.

ORTHOPTERA

BLATTIDAE

- * *Blaberus trapezoideus* Burm.
Col. A. E. S., Valera; May, 1936.

- Panchlora cubensis* Sauss.
Col. A. E. S., Maracay; May, 1935.

GRYLLIDAE

- Eneoptera surinamensis* (DeGeer) (Det. A. B. Gurney)
One nymph collected by L. F. M., Caripito; August, 1937.

HEMIPTERA

HETEROPTERA

CYDNIDAE

- Cyrtomenus teter* Spin. (Det. H. G. Barber)
Col. A. E. S., Maracay; May, 1935.
- Galgupha schultzei* Fabr. (Det. H. G. Barber)
Col. L. F. M., Caripito, Maturín and Quiriquire; August, 1937.
Collected on *Borreria verticillata* (L.) Meyer.

Galgupha vinculata Germ. (Det. H. G. Barber)

Col. L. F. M., Maturín; August, 1937. *On Borreria verticillata* (L.) Meyer. Probably the most abundant insect on the weed.

* **Scaptocoris terginus** Schioedte (Det. Martorell)

Col. A. E. S., Maracay; May, 1935.

PENTATOMIDAE

(Determinations in this family as well as in the **Coreidae**, **Lygaeidae**, **Miridae**, **Pyrrhocoridae** and **Reduviidae** by H. G. Barber, unless otherwise noted.)

Agonosoma trilineata Fab. (var.)

Col. A. E. S., Maracay; May, 1935.

* **Chlorocoris depressus** Fabr. (Det. L. F. Martorell)

Col. A. E. S., Maracay; May, 1935.

* **Edessa rufomarginata** Dej. (Det. L. F. Martorell)

Col. A. E. S., Maracay; May, 1935.

Empicoris sp.

Col. A. E. S., Maracay; May, 1935.

Euschistus crenator Fab.

Col. A. E. S., Valera; May, 1936.

Lobothyreus lobatus Westw.

Col. A. E. S., Valera; May, 1936.

Loxa sp. (Det. L. F. Martorell)

Col. A. E. S., Maracay; May, 1935.

* **Mecistorhinus tripterus** Fab. (Det. L. F. Martorell)

Col. A. E. S., Maracay; May, 1935.

* **Mormidea ypsilon** Linn. (Det. L. F. Martorell)

Col. A. E. S., Maracay; May, 1935.

Thyanta casta Stal

Col. L. F. M., Caripito; August, 1937.

COREIDAE

Catorhintha selector Stal

Col. A. E. S., Maracay; May, 1935.

Hypselonotus fulvus Deg.

Col. A. E. S., Valera; May, 1936.

Hypselonotus fulvus venosus Fabr.

Col. L. F. M., Caripito and Maturín; August, 1937.

Margus obscurator Fab.

Col. L. F. M., Caripito; August, 1937.

* **Mozena lunata** Burm. (Det. L. F. Martorell)

Col. A. E. S., Valera; May, 1936 and Maracay; May, 1935.

LYGAEIDAE

* **Oncopeltus cingulifera** Stal

Col. L. F. M., Maturín and Caripito; August, 1937.

Orthaea bilobata Say

Col. L. F. M., Caripito; August, 1937.

Ortholomus jamaicensis Dall

Col. L. F. M., Caripito; August, 1937.

Paromius longulus Dall

Col. A. E. S., Valera; May, 1936.

PYRRHOCORIDAE

Dysdercus sp.

Nymph collected by A. E. S. at Valera; May, 1936 and Maracay; May, 1935.

REDUVIDAE

Brontostoma sp.

Col. A. E. S., Maracay; May, 1935.

Leogorrus formicarius Fab.

Col. A. E. S., Valera; May, 1936.

MIRIDAE

Polymerus sp.

Col. L. F. M., Caripito; August, 1937.

NOTONECTIDAE

* **Belostoma anura** H. S.

Col. A. E. S., Maracay; May, 1935.

* **Belostoma micantula** Stal

Col. A. E. S., Maracay; May, 1935.

HOMOPTERA

CICADIDAE

(Determinations in the suborder by P. W. Oman.)

Fidicina sp.

Col. A. E. S., Valera; May, 1936.

Proarna sp.

Col. L. F. M., at lights, at Caripito; August, 1937.

* **Proarna grisea** Fab.

Col. A. E. S., Maracay; May, 1935.

* **Quesada gigas** Oliv.

Col. A. E. S., Maracay; May, 1935.

CERCOPIDAE

Tomaspis rubra var. **sororia** Germ.

Col. L. F. M., Caripito; August, 1937.

MEMBRACIDAE

* **Aethalion reticulatum** Linn.

Col. A. E. S., Maracay; May, 1935.

Boethoos ? sp.

Col. A. E. S., Valera; May, 1936.

Cyphonia clavata Fabr.

Col. A. E. S., Valera, 1936.

Enchenopa concolor Fairm.

Col. G. N. Wolcott; Macuto, Venezuela; July, 1926. (See *Trigona ruficrus corvinus* Ckll.)

Enchophyllum malaleucum Walk.

Col. L. F. M., Caripito and Quiriquire; August, 1937.

Gelastonia sp.

Col. L. F. M., Caripito; August, 1937.

CICADELLIDAE

Acrogonia flavoscutellata Sign.

Col. A. E. S., Maracay; May, 1935.

Carneocephala sp.

Col. L. F. M., Caripito; August, 1937.

Dilobopterus sp.

Col. A. E. S., Valera; May, 1936.

Xerophloea viridis Fabr.

Col. L. F. M., Caripito; August, 1937.

FULGORIDAE

Flatoides sp.

Col. L. F. M., Caripito; August, 1937.

Laternaria phosphorea L. (Det. Martorell)

Col. A. E. S., Valera; May, 1936 and Francisco Seín, (1933), San Cristóbal, Estado Tachira. This makes two records in Venezuela, of the so called "great lantern fly of Brazil".

COLEOPTERA

CARABIDAE

(Determinations in this family by L. L. Buchanan.)

Arthrostictus chlaenoides Dej.

Col. A. E. S., Maracay; May, 1935.

* **Brachinus** sp.

Col. A. E. S., Maracay; May, 1935.

Calleida amethystina F.

Col. A. E. S., Valera; May, 1936.

Coptia armata Cast.

Col. A. E. S., Maracay; May, 1935.

* **Scarites** sp.

Col. A. E. S., Valera; May, 1936.

* **Scythropasus** sp.

Col. A. E. S., Maracay; May, 1935.

* **Selenophorus** sp.

Col. A. E. S., Maracay; May, 1935.

HYDROPHILIDAE

Tropisternus collaris Fabr. (Det. L. L. Buchanan)

Col. A. E. S., Maracay; May, 1935.

LYCIDAE

(Determinations in this family by H. S. Barber.)

Calopteron ? sp.

Col. A. E. S., Valera; May, 1936.

Calopteron sp. near **tropicum** L.

Col. L. F. M., one male and one female collected on weeds.
Caripito; August, 1937.

Calopteron tropicum L.

Col. A. E. S., Maracay; May, 1935 and L. F. M., at Caripito,
1937.

LAMPYRIDAE

(Determinations in this family by H. S. Barber.)

Aspisoma sp.

Col. L. F. M., Maturín; August, 1937.

* **Aspisoma dilatatum** Cast.

Col. A. E. S., Maracay; May, 1935.

* **Aspisoma ignitum** Linn.

Col. A. E. S., Maracay; May, 1935.

Photinus sp.

Col. A. E. S., Maracay; May, 1935.

CANTHARIDAE

* **Diaphron proteum** Gorh.

Col. A. E. S., Valera; May, 1936.

MELOIDAE

* **Epicauta grammica** Fisch.

Col. A. E. S., Maracay; May, 1935.

ELATERIDAE

* **Chalcolepidius limbatus** Esch.

Col. A. E. S., Maracay; May, 1935.

Conoderus sp. (Det. W. S. Fisher) *

Col. A. E. S., Maracay; May, 1935.

Conoderus sp. near **rodriguezi** Cand. (Det. W. S. Fisher)

Col. L. F. M., Maturín; August, 1937.

Heteroderes laurenti Guer. (Det. W. S. Fisher)

Col. Caripito; August, 1937. Col. L. F. M.

* **Pyrophorus ingnitus** Fabr. (?) (Det. W. S. Fisher)

Col. Maracay; May, 1935. Col. A. E. S.

BUPRESTIDAE

(All determinations in this family by W. S. Fisher.)

Euchroma goliath C. & G.

Col. A. E. S., Valera; May, 1936.

EROTYLIDAE

* **Brachysphaenus** sp.

Col. A. E. S., Maracay; May, 1935.

* **Coccimorphus dichrous** Lec.

Col. A. E. S., Maracay; May, 1935.

* **Cypherotylus debauvei** Demay

Col. A. E. S., Maracay; May, 1935.

COCCINELIDAE

* **Cycloneda sanguinea** Linn.

Col. A. E. S., Valera; May, 1936.

* **Ephilachna borealis** Fabr.

Col. A. E. S., Maracay; May, 1935.

* **Hyperaspis albicollis** Gorh.

Col. A. E. S., Valera; May, 1936.

ALLECULIDAE

Prostenus sp. (Det. E. A. Chapin)

Col. A. E. S., Valera; May, 1936.

Xystropus fulgidus Makl.

Col. A. E. S., Valera; May, 1936.

Xystropus lebasi Makl.

Col. A. E. S., Valera; May, 1936.

TENEBRIONIDAE

Epitragus sp. (Det. E. A. Chapin)

Col. A. E. S., Maracay; May, 1935.

* **Epitragus aurulentus** Kirsh.

Col. A. E. S., Valera; May, 1936.

* **Zophobas morio** Fabr.

Col. A. E. S., Valera; May, 1936.

BOSTRICHIDAE

* **Schistocerus cornutus** Pallas

Col. A. E. S., Valera; May, 1936.

SCARABAEIDAE

(Determinations in this family by E. A. Chapin, except
as otherwise noted.)**Ancistrosoma farinosum** Salle

Col. A. E. S., Maracay; May, 1935.

Anomala sp.

Col. A. E. S., Maracay; May, 1935.

* **Anomala cincta** Say

Col. A. E. S., Maracay; May, 1935.

* **Anomala cupricollis** Chevr.

Col. A. E. S., Maracay; May, 1935.

Anomala inconstans Burm.

Col. A. E. S., Maracay; May, 1935.

* **Canthidium** sp. (Det. E. A. Chapin)

Col. A. E. S., Maracay; May, 1935.

Ataenius sp.

Col. L. F. M., Caripito; August, 1937.

Ataenius luctuosus Burm. ?

Col. L. F. M., Caripito and Maturín; August, 1937.

Choeridium sp.

Col. A. E. S., Maracay; May, 1935.

Cyclocephala sp..

Col. L. F. M., Caripito, Maturín and Quiriquire; August, 1937.
At lights.

Cyclocephala fuliginea Burm.

Col. A. E. S., Valera; May, 1936.

* **Cyclocephala pallens** ?

Col. A. E. S., Maracay; May, 1935.

* **Cyclocephala testacea** Burm.

Col. A. E. S., Maracay; May, 1935.

Euethola bidentatus Burm.

Col. A. E. S., Maracay; May, 1935.

* **Gymnetis dysoni** Schaum.

Col. A. E. S., Maracay; May, 1935.

* **Gymnetis stellata** Latr.

Col. A. E. S., Maracay; May, 1935.

* **Heterogomphus rugicollis** Prell.

Col. A. E. S., Valera; May, 1936.

* **Ligyris fossor** Latr.

Col. A. E. S., at Valera; May, 1936 and Maracay; May, 1935.

* **Macraspis lucida** Oliv.

Col. A. E. S., Maracay; May, 1935.

* **Onthophagus** sp. (Det. E. A. Chapin)

Col. A. E. S., Maracay; May, 1935.

* **Pelidnota (Pelidnota) lucida** Burm.

Col. A. E. S., Maracay; May, 1935.

Pelidnota prasina Burm.

Col. A. E. S., Maracay; May, 1935.

* **Pinotus** sp.

Col. A. E. S., Valera; May, 1936.

* **Scaptophilus complanatus** Burm.

Col. A. E. S., Maracay; May, 1935.

Trox süberosus Fab.

Col. A. E. S., Valera; May, 1936.

PASSALIDAE

- Passalus* sp. (Det. E. A. Chapin)
Col. A. E. S., Valera; May, 1936.
- * *Passalus interruptus* Linn.
Col. A. E. S., Maracay; May, 1935.

CERAMBYCIDAE

- Chlorida festiva* Linnaeus (Det. L. F. Martorell)
Col. A. E. S., Valera; May, 1936.
- * *Cridion cinereum* Oliv.
Col. A. E. S., Maracay; May, 1935.
- * *Ibidion* sp.
Col. A. E. S., Maracay; May, 1935.
- * *Lagochirus araneiformis* Linn.
Col. A. E. S., Valera; May, 1936.
- * *Oxymerus lebasi* Dupont
Col. A. E. S., Valera; May, 1936 and Maracay; May, 1935.
- * *Ptychodes trilineatus* Linn.
Col. A. E. S., Maracay; May, 1935.
- Spalacopsis* sp.
Col. A. E. S., Valera: May, 1936.
- Trachyderes succinctus* Linn.
Col. L. F. M., Maturín; August, 1937.

CHRYSOMELIDAE

(All determinations in this family by H. S. Barber, except as otherwise noted.)

- Acanthonycha* sp. ?
Col. A. E. S., Valera: May, 1936.
- Asphaera* sp.
Col. A. E. S., Valera: May, 1936.
- * *Chalepus* sp. (Det. L. F. Martorell)
Col. A. E. S., Valera: May, 1936.
- * *Chelymorpha* sp.
Col. A. E. S., Maracay; May, 1935.

* *Chelymorpha rufipennis* Boh.

Col. A. E. S., Maracay; May, 1935.

* *Chirida insubida* Boh.

Col. A. E. S., Maracay; May, 1935.

Colaspis sp. ?

Col. A. E. S., Maracay; May, 1935 and L. F. M., Caripito and Maturín; August, 1937.

Colaspis lebasii Lef. ?

Col. A. E. S., Valera; May, 1936.

Cissites maculata Sweder

Col. A. E. S., Maracay; May, 1935.

Diabrotica sp.

Col. L. F. M., Caripito; August, 1937.

* *Diabrotica* sp. (near *vittata* Auct.)

Col. A. E. S., Maracay; May, 1935 and Valera; May 1936.

* *Diphaulaca aulica* Oliv.

Col. A. E. S., Valera; May, 1936.

* *Disonycha austriaca* Schauf. (Det. L. F. Martorell)

Col. A. E. S., Valera; May, 1936.

* *Disonycha glabrata* Fabr. (Det. L. F. Martorell)

Col. A. E. S., Valera; May, 1936 and Maracay; May, 1935

* *Disonycha* sp. (Det. L. F. Martorell)

Col. A. E. S., Maracay; May, 1935.

Doryphora sp.

Col. A. E. S., Maracay; May, 1935.

* *Eumolpus sophiae* Kolbe ? (Det. L. F. Martorell)

Col. A. E. S., Maracay; 1935 and Valera; May, 1936.

Euryscopa cingulata Latr.

Col. A. E. S., Valera; May, 1936.

Euryscopa sp.

Col. A. E. S., Maracay; May, 1935.

* *Glyptoscelis fascicularis* Baly

Col. A. E. S., Maracay; May, 1935.

Galerucella sp.

Col. L. F. M., Maturín; August, 1937.

*** Homopoeta** sp. (Det. L. F. Martorell)

Col. A. E. S., Maracay; May, 1935.

Ischiopachys proteus Lacord.

Col. A. E. S., Maracay; May, 1935.

Ischiopachys sp.

Col. L. F. M., Caripito; August, 1937.

Lactica hypocrita Har.

Col. A. E. S., Valera; May, 1936.

Megalostomis anacoreta Lacord.

Col. A. E. S., Maracay; May, 1935 and Valera; May, 1936.

Megascelis sp.

Col. A. E. S., Maracay; May, 1935.

*** Metriona 6-punctata** Fabr.

Col. A. E. S., Valera; May, 1936.

Monachulus sp.

Col. L. F. M., Caripito; August, 1937.

Oedionychis sp. (Det. Martorell)

Col. A. E. S., Maracay; May, 1935.

*** Oedionychis decimguttata** (var.) Fabr. (Det. Martorell)

Col. A. E. S., Valera; May, 1936 and Maracay; May, 1935.

Ochthispa loricata Weise

Col. G. N. Wolcott; Macuto, Venezuela; July, 1926. Feeding on sea-grape leaves. (See (26) page 284.)

*** Oxyodera lanuginosa** Boh. (Det. Martorell)

Col. A. E. S., Maracay; May, 1935.

Poecilaspis sp. (Det. Martorell)

Col. A. E. S., Maracay; May, 1935.

Systema sp.

Col. L. F. M., Caripito; August, 1937.

Typophorus humeralis Baly

Col. A. E. S., Valera; May, 1936.

BRENTHIDAE

Brenthus sp. (near **cylindricus** F.) (Det. L. L. Buchanan)

Col. A. E. S., Maracay; May, 1935.

Brenthus sp. (Det. L. L. Buchanan)

Col. A. E. S., Maracay; May, 1935.

Tychaeus myrmecophagus Hbst. (Det. L. L. Buchanan)

Col. L. F. M., Caripito; August, 1937. This insect was found in colonies of 50 or 60 attached to the trunk of dead trees, in the dark crevices, and places where there was a fungus growing.

CURCULIONIDAE

(Determinations in this family by L. L. Buchanan,
except as otherwise noted.)

Acallestes talpa Pasc.

Col. A. E. S., Maracay; May, 1935.

* **Brachyomus ? 4-nodosus** Klug. (Det. Martorell)

Col. A. E. S., Maracay; May, 1935.

Cactophagus striatoforatus Gyll.

Col. A. E. S., Maracay; May, 1935.

* **Compsus 18-signatus** Champ.

Col. A. E. S., Maracay; May, 1935.

Cratosomus lafonti Guer.

Col. A. E. S., Maracay; May, 1935.

Cylindrocercus sp.

Col. L. F. M., Caripito; August, 1937.

* **Dynamis borassi** Fabr. (Det. Martorell)

Col. A. E. S., Maracay; May, 1935.

* **Geraeus** sp.

Col. A. E. S., Valera; May, 1936 and L. F. M., Caripito and Maturín; August, 1937.

Litostylus juvenicus Oliv.

Col. A. E. S., Valera; May, 1936 and L. F. M., Caripito; August, 1937.

Merothricus sp. ?

Col. A. E. S., Maracay; May, 1935.

Metamasius hemipterus L.

Col. L. F. M., Maturín and Caripito; August, 1937.

*** Neocyphus** sp. (Det. Martorell)

Col. A. E. S., Valera; May, 1936.

*** Sternechus decussatus** Chevr.

Col. A. E. S., Maracay; May, 1935.

Zygops sp.

Col. L. F. M., Caripito; August, 1937.

DIPTERA

STRATIOMYIDAE

Stratiomyia subalba Walk. (Det. C. T. Greene)

Col. L. F. M., Caripito; August, 1937.

ASILIDAE

Erax sp. (Det. C. T. Greene)

Col. L. F. M., Caripito; August, 1937.

Holcocephala sp. (near *oculata*) Det. C. T. Greene.

Col. A. E. S., Valera; May, 1936.

SYRPHIDAE

Eristalis scutellaris Fab.

Col. L. F. M., Maturín and Caripito; August, 1937.

Eristalis testaceicornis Macq.

Col. A. E. S., Valera; May, 1936.

Mesogramma duplicata Wied.

Col. L. F. M., Caripito and Maturín; August, 1937.

Somatia aestiva Fab.

Col. A. E. S., Valera; May, 1936.

TACHINIDAE

(Determinations in the **Tachinidae** and **Sarcophagidae**
by D. G. Hall.)**Archytas piliventris** Vdw.

Col. L. F. M., Maturín and Caripito; August, 1937.

Archytas sp.

Col. L. F. M., Maturín; August, 1937.

Gonia sp.

Col. L. F. M., Maturín and Caripito; August, 1937.

SARCOPHAGIDAE

Sarcophaga ? morionella Ald.

Col. L. F. M., Caripito; August, 1937.

Sarcophagula occidua (Fabr.)

Col. L. F. M., Caripito and Maturín; August, 1937.

ORTALIDAE

* **Richardia podagrica** Fabr. (Det. C. T. Greene)

Col. A. E. S., Valera; May, 1936.

LEPIDOPTERA

(All determinations, unless otherwise noted, by W. Schaus.)

PIERIDAE

Eurema sp.

Col. A. E. S., Valera; May, 1936.

NYMPHALIDAE

Heliconius melpomene Linn.

Col. A. E. S., Valera and Maracay; May, 1936 and 1935.

NOCTUIDAE

Anomis illita Guen.

Col. A. E. S., Maracay; May, 1935.

Leucania sp. nov.

Col. A. E. S., Maracay; May, 1935.

AMATIDAE

Cyanopepla submacula Walk.

Col. A. E. S., Maracay; May, 1935.

* **Dinia mena** Hübner

Col. A. E. S., Maracay; May, 1935.

MEGALOPYGIDAE

Megalopyge sp. not recognizable

Col. A. E. S., Maracay; May, 1935.

Norape pura Butl.

Col. A. E. S., Maracay; May, 1935.

HYMENOPTERA

ICHNEUMONOIDEA

ICHNEUMONIDAE

Enicospilus flavus (Fabr.) (Det. R. A. Cushman)

Col. L. F. M., Caripito; August, 1937.

FORMICOIDEA

FORMICIDAE

(Determinations in this family by M. R. Smith.)

* **Atta sexdens** ? (Linn.)

Col. L. F. M., Caripito and Quiriquire; August, 1937.

This is the famous "Bachac" or "parasol ant" of Trinidad and the "bachaco" of Venezuela. The ravages of this ant on agricultural crops are enormous. This species is probably present in the whole country of Venezuela.

Camponotus sp.

Col. A. E. S., Valera; May 1936 and L. F. M., Quiriquire and Caripito; August, 1937.

Cephalotes atratus (Linn.)

Col. L. F. M., Caripito; August, 1937.

Cremastogaster sp.

Col. L. F. M., Caripito; August, 1937.

Ectatoma tuberculatum (Oliv.)

Col. L. F. M., Caripito; August, 1937.

Neoponera sp.

Col. A. E. S., Maracay; May, 1935.

Paraponera clavata (Fabr.)

Col. L. F. M., Caripito; August, 1937.

SPHECOIDEA

SPHECIDAE

(Determinations in this family and in the rest of the
Hymenoptera, by G. A. Sandhouse.)

Ammobia singularis (Smith)

Col. L. F. M., Caripito and Maturín; August, 1937.

Cerceris spp.

Col. L. F. M., Caripito and Maturín; August, 1937.

Larra americana Sauss.

Col. L. F. M., Caripito; August, 1937. This insect is the parasite of the mole cricket, *Scapteriscus didactylus* Latr. Only two males were collected at Caripito.

Oxybelus (Notoglossa) sp.

Col. L. F. M., Caripito; August, 1937.

Sceliphron figulum (Dahlb.)

Col. L. F. M., Caripito; August, 1937.

BEMBICIDAE

Rubrica surinamensis (DeGeer)

Col. L. F. M., Maturín; August, 1937. A fairly common species in Maturín as well as at Caripito. Very abundant on *Borreria verticillata* (L.) Meyer.

VESPOIDEA

SCOLIDAE

Campsomeris hyalina Lep.

Imported from Venezuela to Central Aguirre, Aguirre, P. R.
(See: Insectae Borinquenses, page 564.)

Myzine sp.

Col. L. F. M., Maturín; August, 1937. One male only was collected, and further identification was not possible, because previous studies in this genus are based chiefly on females.

PSAMMOCHARIDAE

Pepsis dimidiata F.

Col. L. F. M., Caripito; August, 1937.

Pepsis equestris Erich.

Col. A. E. S., Valera; May, 1935.

Pepsis sp.

Col. L. F. M., Caripito and Maturín; August, 1937.

Psammochares sp.

Col. L. F. M., Caripito and Maturín; August, 1937.

NOTE: Miss Sandhouse says, "Family identification to species is nearly impossible in the Psammocharidae; any name now in use is subject to revision."

VESPIDAE

Gymnopolybia pallidipes (Oliv.)

Col. A. E. S., Valera; May, 1936.

* **Polistes canadensis** Linn. (Det. G. A. Sandhouse)

Col. L. F. M., Maturín; August, 1937.

Polistes subsericeus Sauss.

Col. L. F. M., Caripito; August, 1937.

Polistes versicolor var. **vulgaris** Beq.

Col. L. F. M., Caripito; August, 1937.

* **Parachartérgus colobopterus** (Web.)

Col. A. E. S., Valera; May, 1936.

* **Polybia nigra** Sauss.Col. L. F. M., Caripito and Maturín; August, 1937. A very abundant wasp on *Borreria verticillata* (L) Meyer.* **Polybia occidentalis** (Oliv.)

Col. L. F. M., Maturín and Caripito; August, 1937.

Polybia occidentalis var. **albopicta** Sm.

Col. A. E. S., Valera; May, 1936.

Protopolybia sedula (Sauss.)

Col. A. E. S., Valera; May, 1936.

Pseudopolybia compressa (Sm.)

Col. A. E. S., Maracay; May, 1935.

EUMENIDAE

Eumenes canaliculata (Oliv.)

Col. L. F. M., Caripito; August, 1937.

Pachodynerus nasidens (Latr.)

Col. L. F. M., Caripito; August, 1937.

APOIDEA

ANDRENIDAE

Augochlora seminigra Ckll.

Col. L. F. M., Caripito and Maturín; August, 1937.

HYLAEIDAE

Hylaeus polybioides (Schrott.) ?

Col. L. F. M., Caripito; August, 1937.

Hylaeus paragueyensis (Schrott.) ?

Col. L. F. M., Caripito; August, 1937.

MELIPONIDAE

Trigona amalthea (Oliv.)

Col. A. E. S., Valera; May, 1936.

Trigona nigra subsp. **parastigma** Ckll.

Col. L. F. M., Caripito; August, 1937.

Trigona ruficus corvina Ckll.

Col. L. F. M., Caripito and Maturín; August, 1937. Very abundant on *Borreria verticillata* (L) Meyer. Col. G. N. Wolcott, at Macuto, Venezuela; July, 1926. Wolcott writes (in the Bulletin of Entomological Research, Vol. XVII, 1926-27; page 51 and 52) the following: "In Venezuela, considerable numbers of black bees, determined by Mr. S. A. Rohwer as *Trigona ruficus corvina* Ckll., were noted hovering about the more tender sea-grape leaves. On closer examination, it was found that they were obtaining honey-dew from the nymphs of a most abundant Membracid, which Dr. W. D. Funkouser has determined as *Enchenopa concolor* Fairm." (For more information see reference cited above.)

Trigona testaceicornis Lep.

Col. L. F. M., Caripito; August, 1937.

Trigona trinidadensis Provancher

Col. A. E. S., Valera; May, 1936.

BIBLIOGRAPHY

1. **Aldrich, J. M.**
A Catalogue of North American Diptera. Smithsonian Misc. Col., Washington, D. C., 46(1444):1-680, 1905.
2. **Barnes, Wm., & McDunnough, J. H.**
Check List of the Lepidoptera of Boreal America. Herald Press, Decatur, Ill., 392 p., 1917.
3. **Blatchley, W. S.**
Orthoptera of North America, with special reference to the Faunas of Indiana and Florida. Nature Pub. Co., Indianapolis, Ind., 784 p., 1920.
4. **Brues, Ch. T. & Melander, A. L.**
Key to the Families of North American Insects. Boston, 140 p., 1915.
5. **Comstock, J. H.**
An Introduction to Entomology. Comstock Pub. Co., Ithaca, N. Y., 1044 p., 1925.
6. **Champion, G. C.**
Rhynchophora, Coleoptera. Biologia Centrali-Americana. 4 (4):1:750, 1902-05.
7. **Cresson, E. T.**
Synopsis of the families and genera of the Hymenoptera of America, North of Mexico. Trans. Ent. Soc., Philadelphia, Pa., 350 p., 1887.
8. **Distant, W. L. & Fowler, W. W.**
Rhynchota. Hemiptera-Heteroptera. Biologia Centrali-Americana. 48. 1:1-462, 1880-1893.
9. -----
Rhynchota. Hemiptera-Homoptera. Biología Centrali-Americana. 48. 1:147, 1881-1905.
10. **Essig, E. O.**
Insects of Western North America. The MacMillan Co., N. Y., 1035 p., 1929.
11. **Fowler, W. W. & Cockerell, T. D. A.**
Rhynchota. Hemiptera-Homoptera. Biologia Centrali-Americana. 49. 2:1-339, 1894-1909; & 2:1-33, 1899.

12. **Gray, R. W.**

Climatological data. U.S.D.A. Weather Bureau, San Juan, P. R., 15(13):103, 1935.

13. -----

Climatological data. U.S.D.A. Weather Bureau, San Juan, P. R., 16(13):103, 1936.

14. -----

Climatological data U.S.D.A. Weather Bureau, San Juan, P. R., 17:(13):103, 1937.

15. **Hall, D. G.**

New South American Sarcophagidae (Diptera). Jour. Agr. Univ. Puerto Rico, 22(2):171-175, 1938.

16. **Jacoby, M.**

Coleoptera. Biologia Centrali-Americana. 29. 6(1):1-625, 1880-1892.

17. -----

Coleoptera. Biologia Centrali-Americana. 30 Suppl. 6(1):1-372, 1888-1892.

18. **Leng, Ch.**

Catalogue of the Coleoptera of North America, North of Mexico. John D. Sherman Jr., Mt. Vernon, N. Y., 470 p., 1920.

19. **Lutz, A.**

Estudios de Zoología y Parasitología Venezolanas. Río de Janeiro, Brasil, 133 p., 1928.

20. **Martorell, L. F.**

Preliminary Check List of the Venezuelan Coleoptera. (unpublished) 1934.

21. **Nuñez Tovar, M.**

Insectos Venezolanos transmisoras de enfermedades. Maracay, Venezuela., 35 p., 1921.

22. **Otero, J. I. & Toro, R. A.**

Catálogo de los nombres científicos y vulgares de algunas plantas puertorriqueñas. Est. Exp. Insular, Río Piedras, P. R., Bol. 37, 248 p., 1931.

23. **Pittier, H.**

Manual de las plantas usuales de Venezuela. Litografía del Comercio, Caracas, Venezuela, 458 p., 1926.

24. **Van Duzee, E. P.**

Catalogue of the Hemiptera of America, north of Mexico, excepting the Aphididae, Coccidae and Aleurodidae. Univ. Calif. Pub., Tech Bull. Ent. **2**, 902 p., 1917.

25. **Wolcott, G. N.**

Notes on the insects of the sea grape, *Coccoloba uvifera* (L.) Jacq., in Porto Rico and adjacent countries. Bull. Ent. Res., **17**(1) :51-52, 1926.

26. -----

Insectae Borinquenses. Jour. Agr. Univ. Puerto Rico, **20** (1) :1-628 p., 1936.

HOST PLANT INDEX

- A
- agave, 214.
Agave americana, 214.
 "alcornoque", 233.
 almonds, 201.
Annona muricata, 228.
Asclepias curassavica, 188.
- B
- banana, 181, 202, 203, 215.
 beans, 200, 206, 207, 208.
 beets, 197, 207.
Beta sp., 207.
Beta vulgaris, 207.
Bixa orellana, 185.
Borreria verticillata, 233, 234, 235,
 250, 251, 252.
Bowditchia virgilioides, 233.
Byrsonima crassifolia, 234.
- C
- cabbage, 182, 193, 200, 222.
 cacao, 184, 185, 205, 208.
 cactus, 216.
Cajan, *Cajan*, 188, 193, 225.
 camphor, 191.
Camphora Camphora, 191.
Carica papaya, 220.
 carrots, 206.
 cassava, 224.
 cedar (see Mexican and Spanish)
Cedrela mexicana, 226.
Cedrela odorata, 226.
Chalcas exotica, 216.
 "chaparros", 234.
 chard, 197, 207.
 citrus, 193, 194, 200, 201, 216, 228.
Citrus aurantium, 193, 194, 216.
Citrus maxima, 193, 194, 200.
Citrus sinensis, 193, 194, 216, 219.
Clerodendrum fragans, 188, 189
 coffee, 189, 191, 192, 193, 194, 197,
 198, 199, 202, 203, 205, 215, 223.
Coffea arabica, 190, 197.
 corn, 183, 188, 189, 193, 197, 198,
 201, 206, 207, 209, 226.
Crassina elegans, 222, 223.
Crotalaria, 225.
 cucumbers, 182, 193, 200, 206, 227.
Cucumis sativus, 206, 227.
 "curata", 233.
Curatela americana, 233.
- E
- egg-plant, 187.
- F
- ferns, 194.
 figs, 201, 205.
- G
- gill fungi, 199, 200.
 grapefruit, 195, 200, 201, 222.
 grapes, 201.
 guamá, 205.
 guava, 194, 209, 219.
- I
- Inga*, spp., 190, 192, 197, 205.
Ixora acuminata, 194.
- J
- Jambos malaccensis*, 219.
- K
- Kochia*, 182.
- L
- lettuce, 182.
Lycopersicon Lycopersicon, 189.
- M
- Malayan apple, 219.
Mangifera indica, 185, 190, 196, 204.
Manihot Manihot, 224.
 melons, 193.
 Mexican cedar, 226.
 milkweed, 188.
Musa sapientum, 202,

P

papaya, 220.
 peach, 220.
 peppers, 182, 200.
 pigeon-pea, 188.
 plantain, 181, 215.
Porana paniculata, 104.
Prunis persica, 219, 220.
Psidium Guajava, 194, 209, 219.
Punica Granatum, 188, 231, 232.

R

rice, 209.

S

Salvia splendens, 181.
Samanea saman, 185.
 sea-grape, 245, 255.
Sida sp., 206, 223.
Solanum Melongena, 187, 189, 206.
Solanum torvum, 189.

sour orange, 194, 195, 200.
 soursop, 228.
 Spanish cedar, 226.
Spondias dulcis, 185.
 sugar cane, 194, 226.
 sweet orange, 194, 195, 200, 219.
 sweet potatoe, 206.
Sweitenia Candollei, 190.

T

Terminalia catappa, 185.
Theobroma cacao, 185, 208.
 tobacco, 182, 187.
 tomatoes, 182, 188, 189.

W

wild eggplant, 189.
 wheat, 201.

Z

zinnia, 222, 223.

GENERIC INDEX

A

Abacantha, 217.
Acallestes, 246.
Acanthoderes, 204.
Acanthonycha, 243.
Acidomera, 188.
Acontista, 181.
Acrogonia, 237.
Adeloccephala, 225.
Aëdes, 211.
Aëthalion, 191, 237.
Aëthus, 186.
Agapostemon, 231.
Ageronia, 223.
Agonosoma, 235.
Agriacris, 183.
Alcaeorrhynchus, 187.
Allograpta, 215.
Altica, 206.
Alysia, 227.
Ammalo, 225.
Ammobia, 250.
Amplipterus, 224.
Anasa, 188.
Anastrepha, 219.
Ancistrostoma, 241.
Anisolabis, 180.
Anomala, 202, 241.
Anomis, 248.
Anopheles, 210, 211.
(Anoxia), 222.
Anteros, 224.
Anthrenus, 199.
Antianthe, 191.
Anurogryllus, 182.
Aphis, 193.
Apis, 231.
Apoica, 230.
Archytas, 247, 248.
Arocera, 187.
Arsenura, 224.
Arthrostickus, 238.
Arvelius, 187.
Asphaera, 206, 243.

Aspisoma, 196, 239.
Astaena, 202.
Ataenius, 241.
Atta, 228, 249.
Atomosia, 215.
Augochlora, 252.
Automeris, 224]

B

Baccha, 215.
Bassus, 227.
Belostoma, 190, 236.
Belvosia, 216.
Bembecinus, 229.
Bephrata, 228.
Berosus, 196.
Blaberus, 180, 234.
Boethoos, 237.
Bombus, 231.
Brachymeria, 228.
Brachinus, 195, 238.
Brachyomus, 208, 246.
Brachysphaenus, 199, 240.
Brenthus, 208, 246.
Brevicoryne, 193.
Brontostoma, 236.
Bufo, 186.

C

Cactophagus, 246.
Calandra, 209.
Calleida, 238.
Callicore, 223.
Callidryas, 222, 223.
Calligrapha, 206.
Calliphora, 217.
Calodexia, 216.
Calopteron, 239.
Calosoma, 195.
Calynda, 181.
Calyria, 190.
Camponotus, 229, 249.
Campsomeris, 229, 230, 250.
Camptodes, 200.
Cantharis, 197.

- Canthidium, 202, 241.
 Canthon, 202.
 Carnecephala, 238.
 Catopsilia, 222.
 Cathorhintha, 188, 235.
 Cephalotes, 249.
 Cephisus, 191.
 Ceratina, 232.
 Ceratitis, 220.
 Ceratomegilla, 200.
 Cerckeris, 250.
 Ceresa, 191.
 Ceroplastes, 193.
 Chalcolepidius, 197, 239.
 Chalcophana, 206.
 (Chalcoplethis), 203.
 Chalepus, 206, 243.
 Chelymorpha, 206, 243, 244.
 Chionopsis, 193.
 Chirida, 206, 243.
 Chlorida, 243.
 Chlorocoris, 187, 235.
 Chlosyne, 223.
 Choeridium, 241.
 Chromacris, 183.
 Chrysops, 214.
 Cicada, 190.
 Cicadella, 192.
 Cicindela, 195.
 Cimex, 189.
 Cissites, 244.
 Citheronia, 225.
 Clinopera, 218.
 Coccimorphus, 199, 240.
 Coccus, 194.
 Cochliomyia, 217.
 Coelomera, 206.
 Coelosis, 202.
 Colaspis, 206, 243.
 Collaria, 189.
 Compsa, 205.
 Compsus, 208, 246.
 Conocephalus, 182.
 Conoderus, 240.
 Copicerus, 192.
 Coptia, 238.
 Cordylaspis, 196.
 Corythaica, 189.
 Corythucha, 189.
 Cratomorphus, 196.
 Cratosomus, 246.
 Cremastogaster, 249.
 Cridion, 204, 243.
 Cryptotermes, 184.
 Ctenocephalus, 221, 222.
 Culex, 210, 211, 212.
 Culicoides, 210.
 (Cuterebra), 216.
 Cyanopepla, 225, 248.
 Cycloneda, 193, 200, 240.
 Cyllindrocercus, 246.
 Cypherotylus, 199, 240.
 Cyphonmyia, 213.
 Cyphonia, 237.
 Cyrotmenus, 186, 234.
- D
- Danaus, 222.
 Dendroblatta, 180.
 Dendromyia, 212.
 Dermatobia, 216.
 Diabrotica, 206, 207, 244.
 Diacrisia, 225.
 Dialeurodes, 195.
 Diaphron, 197, 239.
 Diatraea, 226.
 Dieladocera, 214.
 Dictyophora, 192.
 Dilobitarsus, 198.
 Dilobopterus, 238.
 Dinia, 225, 248.
 Diphaulaca, 207, 244.
 Disonycha, 207, 244.
 Dolichoderus, 229.
 Domitia, 193.
 Doru, 180, 234.
 Doryphora, 244.
 Drasterius, 198.
 Drosophila, 221.
 Dynamis, 209, 246.
 Dysdercus, 188, 189, 236.
- E
- Eucles, 225.
 Eciton, 228.
 Eepantheria, 225.
 Ectatoma, 229, 249.
 Edessa, 187, 235.
 Empicoris, 235.

Enchenopa, 191, 237, 252.
 Enochophyllum, 237.
 Eneoptera, 234.
 Enicospilus, 249.
 Epargyreus 223.
 Ephebus, 200.
 Epilates, 227.
 Epicauta, 197, 239.
 Epilachna, 200, 240.
 Epitargus, 201, 241.
 Epitrix, 207.
 Erax, 215, 247.
 Erinnys, 224.
 Eristalis, 247.
 Erythemis, 185.
 Erythrodiplax, 185.
 Estola, 204.
 Euchroma, 240.
 Endamus, 223.
 Euethola, 202, 242.
 Euglossa, 231.
 Eumenes, 251.
 Eumolpus, 207, 244.
 Eurema, 248.
 Euryophthalmus, 189.
 Euryscopa, 244.
 Euschistus, 187, 235.
 Euxesta, 218.
 Evania, 229.
 Exochomus, 200.

F

Fidicina, 237.
 Filaria, 211.
 Flatoides, 193, 238.

G

Galerucella, 245.
 Galgupha, 234, 235.
 Gelastonia, 237.
 Geraeus, 209, 246.
 Gerris, 190.
 Glyptoscelis, 207, 244.
 Gonia, 248.
 Goniadera, 201.
 Grallomya, 220.
 Gymnetis, 202, 242.
 Gymnopolybia, 251.
 Gynacantha, 185.

H

Haemogogus, 212.
 Haemoproteus, 221.
 Heliconius, 223, 248.
 Heliopsis, 226.
 Hemigryllus, 182.
 Hemilucilia, 217.
 Hermetia, 214.
 Herse, 224.
 Heteracanthia, 214.
 Heterachthes, 205.
 Heteroderes, 240.
 Heterogomphus, 203, 242.
 Hexachaeta, 220.
 Heza, 189.
 Holcocephala, 247.
 Homocoryphus, 182.
 Homophoeta, 207, 245.
 (Howardina), 211.
 Hylaesus, 252.
 Hylesia, 224, 225.
 Hyperaspis, 200, 240.
 Hypselonotus, 236.
 Hypsipyla, 226.

I

Ibidion, 204, 205, 243.
 Iphiaulax, 227.
 Ischiopachys, 245.

J

Junonia, 223.

L

Lactica, 207, 245.
 Lagochirus, 205, 243.
 (Lampetis), 198.
 Larra, 250.
 Laternaria, 238.
 Leogorrus, 236.
 Lepidosaphes, 194.
 Lepiselaga, 214.
 Lepisma, 180.
 Leptoglossus, 188.
 Leskiopalpus, 216.
 Leucania, 248.
 Leucophaea, 180.
 Leucothyreus, 203.
 Ligyris, 203, 242.

Limnophora, 218.
 Liogenys, 203.
 Litostylus, 246.
 Lobothyreus, 235.
 (Lochmaeodes), 205.
 Lophocateres, 199.
 Loxa, 187, 235.
 Lucilia, 217.
 Lycorea, 222.
 Lyncchia, 221.

M

Macraspis, 203, 242.
 Macrocneme, 225.
 (Mallodon), 205.
 Mansonia, 212.
 Margaronia, 227.
 Margus, 236.
 Mecistorhinus, 187, 235.
 Megaconthopus, 230.
 Megacephala, 195.
 Megalopyge, 226, 249.
 Megalostomis, 245.
 Megarhinus, 212.
 Megascelis, 245.
 Melipona, 232.
 Membracis, 191, 192.
 Meromacrus, 215.
 Meroncidius, 183.
 Merothricus, 246.
 Mesogramma, 247.
 Metamasius, 247.
 Metriona, 207, 208, 245.
 Microcentrum, 183.
 Microlyinchia, 221.
 Micronotus, 183.
 Miogryllus, 182.
 Monachulus, 245.
 (Monacis), 229.
 Monarea, 227.
 Morellia, 218.
 Mormidea, 187, 235.
 Morpho, 223.
 Mozena, 188, 236.
 Musca, 218.
 Musonia, 181.
 Myiophasia, 216.
 Mylabris, 208.
 Myochrous, 208.
 Myzine, 250.

N

Nannotrigona, 231.
 Nasutitermes, 184.
 Neconocephalus, 183.
 Nemobius, 182.
 Neocyphus, 209, 247.
 Neohydrophilus, 196.
 Neomuscina, 218.
 Neoponera, 229, 249.
 Nezara, 188.
 Norape, 249.
 Noropsis, 226.
 (Notoglossa), 250.

O

Ochthispa, 245.
 Oedionychis, 208, 245.
 Olfersia, 221.
 Ommatius, 215.
 Oncideres, 205.
 Oncometopia, 192.
 Oncopeltus, 188, 236.
 Ontherus, 203.
 Onthophagus, 203, 242.
 Ormenis, 193.
 Ormiscodes, 225.
 Orphulella, 184.
 Orthaea, 236.
 Ortholomus, 236.
 Osmilia, 184.
 Oxybelus, 250.
 Oxymerus, 243.
 Oxyodera, 208, 245.

P

Pachodynerus, 251.
 Pachycoris, 186.
 Pachyschelus, 198.
 Pahrypia, 188.
 Panchlora, 181, 234.
 Papilio, 222.
 Parachartergus, 230, 251.
 Paradichroplus, 184.
 Paraponera, 249.
 Paromius, 236.
 Passalus, 204, 243.
 Paulinia, 184.
 Pediculus, 185.
 Pelidnota, 203, 242.

Pelonomus, 198.
 Pentilia, 200.
 Pepsis, 230, 250, 251.
 Pericopsis, 226.
 Periplaneta, 181.
 Perola, 226.
 Peucestes, 183.
 Phaeoxantha, 195.
 Pherosophus, 195.
 Phileurus, 204.
 Philophylla, 183.
 Phlegethontius, 224.
 Pholus, 224.
 Photinus, 197, 239.
 Photuris, 197.
 Phthirus, 186.
 Phylloscirtus, 182.
 Phyllovates, 181.
 Phyrdenus, 209.
 Pieris, 222.
 Pinotus, 204, 242.
 Piophila, 219.
 Plasmodium, 211.
 Poecilaspis, 208, 245.
 Poeciloptera, 193.
 Polistes, 230, 251.
 Polpochila, 195.
 Polybia, 215, 230, 231, 251.
 Polycesta, 198.
 Polyglypta, 192.
 Polymerus, 236.
 Proarna, 190, 237.
 Promachus, 215.
 Prosparatta, 180.
 Prostenus, 240.
 Protopolybia, 251.
 Psammochares, 251.
 Pseudococcus, 194.
 Pseudolynchia, 221.
 Pseudopolybia, 251.
 Psiloptera, 198.
 Psilopus, 215.
 Psorophora, 212, 213.
 Psychoda, 209.
 Psyllobora, 201.
 Pterocalla, 219.
 Pteronymia, 223.
 Ptilodactyla, 198.
 Ptychodes, 205, 243.

Pulex, 222.
 Pycnoscelus 181.
 Pyrophorus, 198.

Q

Quesada, 191, 237.

R

Rasahus, 189.
 Rhetus, 224.
 Rhopalophora, 205.
 Rhopalomera, 219.
 Richardia, 219, 248.
 Rubrica, 250.

S

Sabethoides, 213.
 Saissetia, 194.
 Sarcophaga, 217, 248.
 Scapteriscus, 182.
 Scaptocoris, 186, 235.
 Scaptophilus, 204, 242.
 Scarites, 195, 238.
 Sceliphron, 250.
 Schistocerus, 201, 241.
 Scymnus, 201.
 Scythrospasus, 196, 238.
 Selenophorus, 196, 238.
 Semiotus, 198.
 Sepsis, 220.
 Simulium, 213.
 Sitophilus, 209.
 Sitotroga, 227.
 Somatia, 247.
 Spalacopsis, 243.
 Sphingophorus, 192.
 Stagomantis, 181.
 Steirastoma, 205.
 Stenodontes, 205.
 Stenopterina, 219.
 Sternechus, 209, 247.
 Stethoxus, 196.
 Stilpnochlora, 183.
 Stomoxys, 218.
 Strategus, 204.
 Stratiomyia, 247.
 Strongylium, 201.
 Symphylus, 186.
 Synoeca, 231.
 Syssphinx, 225.
 Systema, 245.

T

Tabanus, 214.
 Tachysphex, 229.
 Telon, 198.
 Tenebroides, 199.
 Tetralonia, 232.
 Tetyra, 186.
 Thyanta, 235.
 Tipula, 209.
 Tomaspis, 191, 237.
 Toumeyella, 194.
 Toxomerus, 216.
 Toxotrypana, 220.
 Trachyderes, 205, 243.
 Traumatomutilla, 230.
 Trioblium, 201.
 Trichoprosopon, 213.
 Tridactylus, 182.
 Trigona, 231, 237, 252.
 Tripanurga, 217.
 Tropidacris, 183, 184.
 Tropisternus, 239.
 Trox, 242.
 Tunga, 221.
 Tychaeus, 246.
 Tympanoterpes, 191.
 Typophorus, 245.

U

Ululodes, 232.
 Umbonia, 192.
 Uranotaenia, 213.
 Utetheisa, 225.

V

Volucella, 216.

W

Winthemia, 216.
 Wyomyia, 213.

X

Xeroploea, 238.
 Xyleutes, 227.
 Xystropus, 240, 241.

Z

Zabrotes, 209.
 Zelus, 189.
 Zicca, 188.
 Zophobas, 201, 241.
 Zygops, 247.