

## THE INSECTS OF BARBADOS

R. W. E. Tucker<sup>1</sup>

### INTRODUCTION<sup>2</sup>

Barbados is of the greatest entomological interest to Puerto Rico, not only because many of its insect pests are the same as those found in Puerto Rico, but also because some outstanding differences in insect fauna occur. Because of a most stringent and well-enforced quarantine, the "piche" of sweetpotatoes, *Cylas formicarius* Fabricius, does not occur in Barbados, but a quite similar tuber borer, the "scarabee", *Euscepes postfasciatus* Fairmaire (= *E. batatae* Waterhouse) is a major pest in Barbados, yet, although present in Puerto Rico, is so scarce that no recent collections have been made here. The same species of vaquita, *Diaprepes abbreviatus* Linnaeus, occurs in both Puerto Rico and Barbados, although the species of *Diaprepes* present in the islands of the Lesser Antilles between Puerto Rico and Barbados are quite distinct and obviously and conspicuously different.

The insect pests of cotton are identical in the two islands, and presumably invasions of the moths of *Alabama argillacea* Hübner could be anticipated in Puerto Rico if outbreaks of its caterpillars in the cotton fields of Barbados were promptly reported. Both Barbados and Puerto Rico have similar white grub problems from endemic species of May beetles, and in both islands, the introduced Surinam toad, *Bufo marinus* Linnaeus, is the principal agent in natural control. In both islands, the endemic white grubs are also parasitized by endemic species of *Tiphia*, the Barbadian species being of appreciable economic importance as compared with the scarcity of the one in Puerto Rico which has not been abundant since the time of Gundlach. The "cucubano" of Puerto Rico, *Pyrophorus luminosus* Illiger, an important predator on white grubs before the introduction of the Surinam toad, has become established in Barbados, but a Barbadian lady-beetle, *Hyperaspis trilineata* Mulsant, feeding on the mealybugs of sugarcane, and preferring to live under sugarcane leaf sheaths, has not become established in Puerto Rico despite repeated introductions. The parasitic wasp, *Tetrastichus haitiensis* Gahan, the major factor in the natural control of the "vaquita" or sugar-cane weevil root-stalk borer, *Diaprepes abbreviatus* Linnaeus, in Puerto Rico, has not become established in Barbados despite repeated introductions.

<sup>1</sup> Entomologist, Department of Science and Agriculture, Barbados, British West Indies.

<sup>2</sup> Written by George N. Wolcott, Entomologist Agricultural Experiment Station, University of Puerto Rico, Río Piedras, P. R.

In some cases we may be able to surmise the reasons for the success or failure of parasite introductions, or why the same insect is present, or not, in the two islands, but it is important to have a record of the known insect fauna of both that a direct comparison may be made. Mr. Tucker has been Entomologist in Barbados for many years, and although working primarily on economic problems, during that extended period has been able to accumulate the following records, admittedly not complete or exhaustive, but of the greatest value to his fellow entomologists, not only in Puerto Rico, but everywhere in the world.

## ARACHNIDA

### *Superfamily—Ixodoidea*

#### **Argas miniatus** Koch

Found on poultry.

#### FAMILY—IXODIIDAE

#### **Boöphilus** (or **Margaropus**) **annulatus** Say var. **microplus** (Can.)

Found on cattle.

#### **Rhipicephalus sanguineus** Latreille

Found on dogs.

#### FAMILY—DERMANYSSUS

#### **Dermanyssus gallinae** Linnaeus

Found on poultry.

#### FAMILY—ACARIDAE

#### **Tyrophagus** (= **Tyroglyphus**) sp.

Attacking seeds of Indian corn, *Zea Mais*, and also the larvae of *Clemora (Phytalus) smithi* Arrow kept in tins for experimental purposes.

#### FAMILY—CUNAXIDAE

#### **Cunaxa** sp.

Found on cane leaves and suspected of sucking or damaging eggs of *D. saccharalis*.

#### FAMILY—ERYTHRAEIDAE

#### **Atomus** sp.

This identification has since been stated to be probably any genus in family and that this (*Atomus*) is a larval genus of *Trombidiidae*. Definitely known to suck contents of eggs of *D. saccharalis* in canefields.

## FAMILY—ORIBATOIDEA

Genus unknown

These mites were found on stem of shaddock, *Citrus decumana*, associated with *Chionaspis citri*. The mites of this family are vegetable feeders, but probably not of economic importance.

## INSECTA

ORDER—THYSANURA

FAMILY—LEPISMIDAE

**Lepisma saccharina** Linnaeus

Infests books, papers, photographs etc., a common household pest.

ORDER—DERMAPTERA

FAMILY—FORFICULIDAE

**Doru lineare** Esch

Found in leaf sheaths of sugarcane and also in stems of old canes badly damaged by moth borer.

FAMILY—LABIDURIDAE

**Anisolabis maritima** Géné

Record only.

**Euborellia janierensis** Dohrn

West Indian records of *Janierensis* actually apply, in many cases, to other species, due to misidentification.

ORDER—ORTHOPTERA

FAMILY—BLATTIDAE

**Aglaopteryx diaphana** Fabricius

Record only.

**Supella supellectilium** Serville

Record only.

**Blatella conspersa** Brunner

This record is correct, but proper use of name now uncertain.

**Blatella germanica** Linnaeus

Common in cupboards, drawers etc.

**Chorisoneura barbadensis** Rehn and Hebard

Record only.

**Ischnoptera rufa rufa** DeGeer

Found in canefields occasionally.

**Periplaneta australasiae** Fabricius

Frequents houses and ships.

## ORDER—ORTHOPTERA (Cont'd)

## FAMILY—BLATTIDAE

**Leucophaea maderae** Fabricius

Found in trash heaps, canefields, outhouses etc.

**Panchlora cubensis** Saussure

Record only.

**Pycnoscelus surinamensis** Linnaeus

Frequents canefields.

## FAMILY—MANTIDAE

**Lobocnema lobipes**

Record only.

**Musonia surinama** Saussure

Found in houses.

## FAMILY—PHASMATIDAE

**Bostra maxwelli** Redtenbacher

These insects feed on plant leaves.

**Calynda keratoskeleton** Olivier

Record only.

**Clonistria linearis** Drury

Record only.

## FAMILY—ACRIDIDAE

**Orphulina balloui** Rehn

Frequents grasslands.

**Orphulella punctata** DeGeer

Record only.

**Schistocerca pallens** Thunberg

Eats leaves of sugarcane, cotton etc.

## FAMILY—TETTIGONIIDAE

**Neoconocephalus triops** Linnaeus

Frequents grass pastures.

**Neoconocephalus maxillosus** Fabricius

Record only.

**Turpilia punctata** Stål

Record only.

**Xerophyllopteryx fumosa** Bruner

Record only.

## ORDER—ORTHOPTERA (Cont'd)

## FAMILY—GRYLLIDAE

**Acheta assimilis** Fabricius

Record only.

**Amphiacusta cariabea** Saussure

Record only.

**Orocharis antillarum** Saussure

Record only.

**Gryllotalpa hexadactyla** Perty

Record only.

**Scapteriscus variegatus** Burmeister

Specimens taken under a dripping tap, also in a muddy situation.

## ORDER—ISOPTERA

## FAMILY—TERMITIDAE

**Coptotermes havilandi** Holmgren

Causes considerable damage to buildings in Bridgetown.

**Coptotermes marabitanus** Hagen

(Probably *C. havilandi* according to A. M. Adamson. If so, this might indicate the source of introduction of *C. havilandi*, for the record was prior to 1928. The species has since then *not* been found in sugarcane, but only in Bridgetown; even now (1941) planters are seldom cognizant of the fact that wood ants damage sugarcanes. The species so far found almost universally in canefields, is *Nasutitermes costalis*. Taken from a single sugarcane sent to the Office badly eaten into by large members of the species.)

**Cryptotermes brevis** WakerDry-wood termites less serious (1941) than *C. havilandi*.**Eutermes haitiensis** Holmgren

(Probably *Nasutitermes costalis* (see A. M. Adamson's letter, 1st November, 1934). Similarly with *Eutermes morio* Latreille.)

Found attacking sugarcane on a fairly large area on one plantation where old megass which was attacked had been placed on the fields; also found in buildings on the same plantation.

**Heterotermes tenuis** Hagen

Also causes damage in buildings.

**Kalotermes** sp.**Neotermes** sp.**Nasutitermes costalis** Holmgren

In canefields, mahogany woods etc.

**Rhinotermes nasutus** Perty

(Record suspect by A. M. Adamson.)

Attacking woodwork of buildings.

## ORDER—MALLOPHAGA

- Lipeurus polytrapezius** Nitzsch  
Taken from domestic fowl.
- Lipeurus tropicalis** Peters  
Taken from domestic fowl.
- Ricinus** sp. (near **angulatus** Kellogg)  
Taken from *Tyrannus dominicensis*.
- Menopon gallinae** Linnaeus  
Found on poultry.
- Goniocotes gigas** Taschenberg  
Found on poultry.

## ORDER—ODONATA

- Erythrodiplax umbrata** Linnaeus  
Record only.
- Lepthemis vesiculosa** Fabricius  
Record only.
- Orthemis sulphurata** Hagen  
This identification is doubtful.
- Pantala flavescens** Fabricius  
Record only.
- Tramea abdominalis** Rambur  
Record only.
- Ischnura ramburii** Selys  
Record only.

## ORDER—NEUROPTERA

## FAMILY—CHRYSOPIDAE

- Chrysopa** sp.  
Feeds on plant lice, white flies etc.
- Chrysopa antillana** Navas  
Record only.
- Chrysopa exterior** Navas  
Record only.

## ORDER—THYSANOPTERA

- Corynothrips stenopterus** Williams  
Cassava.
- Dendrothripoides ipomeae** Bagnall  
Specimens from sweetpotato. Confined apparently to *Ipomaeae*.
- Frankliniella melanommata** Williams
- Frankliniella (Euthrips) insularis** Franklin  
Attacks leaves of many plants.

ORDER—THYSANOPTERA (Cont'd)

**Heliothrips haemorrhoidalis** Bouché

Attacks leaves of fiddlewood, *Citharexylum quadrangulare*. Also mango.  
This species has legs all yellow.

**Hoplandothrips xanthopoides** Bagnall

Attacks leaves of cassava.

**Selenothrips (Heliothrips) rubrocincta** Giard

Attacks grape vine, croton, mango. This species has darker legs.

**Thrips tabaci** Lindeman

Attacks onion and eschalot.

ORDER—ANOPLURA

**Solenoptes capillatus** Enderlein

Found on cattle.

ORDER—HOMOPTERA

FAMILY—CICADELLIDAE

**Hortensia similis** Walker

Caught abundantly at light traps, Codrington, 1.3.1929.

**Baldulus maidis** Delong & Wolcott

Ex. maize at Codrington.

**Balchutha** sp.

Found on *Zea mays* Linnaeus.

**Empoasca** sp.

From leaves of English lettuce, *Lactuca sativa*.

**Empoasca fabae** Harris

Ex. pigeon peas at Codrington and elsewhere.

**Empoasca solana** DeLong

On sweetpotato vines (becoming very prevalent 1940.41)

**Empoasca** sp.

On okra at Eastpoint. Suspected of causing browning of leaves and stunting.

FAMILY—DELPHACIDAE

**Delphax saccharivora** Westwood

This is a minor pest of sugarcane, its eggs being parasitised to a very large extent by the Mymarid *Anagrus flavescens* Waterhouse.

**Peregrinus maidis** Ashmead

This is a minor pest of maize, sorghum etc.

## ORDER—HOMOPTERA (Cont'd)

## FAMILY—ALEYRODIDAE

**Aleurodicus cocois** Curtis

White fly on coconut and other palms.

**Dialeurodes citrifolii** Morgan

Found on citrus trees.

## FAMILY—APHIDIDAE

**Sipha flava** Forbes

On leaves of sugarcane.

**Aphis gossypii** Glover

Attacks cotton, melon, and okra.

**Aphis maidis** Fitch

Taken on sorghum sp., Imphee etc.

**Myzus persicae** Sulzer

Taken from cabbage.

## FAMILY—COCCIDAE

**Icerya purchasi** Maskell

On casuarina and other garden plants. First found around 1938, had increased 1941. Also on citrus and flowering pea tree. Under control by *Rodolia cardinalis*, 1943-8.

**Asterolecanium pustulans** Cockerell

From Bougainvillea.

**Pseudococcus** sp.

(Probably related to *P. inquiliniss*). Found under bark of tree tended by ant *Crematogaster*.

**Trionymus sacchari** Cockerell

Mealybug on sugarcane.

**Ferrisia virgata** Cockerell

From tomato plants.

**Geococcus radicum** Green

From roots of shaddock, *Citrus decumanus*.

**Vinsonia stellifera** Westwood

On coconut, citrus, and other plants.

**Coccus hesperidum** Linnaeus

Record only.

**Coccus viridis** Green

Found on citrus trees frequently.

**Saissetia nigra** Nietner

On citrus and flowering pea trees.



## ORDER—HOMOPTERA (Cont'd)

## FAMILY—COCCIDAE

- Diapis echinocacti opuntiae** Cockerell  
On cactus.
- Lepidosaphes alba** Cockerell  
On cassava.
- Lepidosaphes beckii** Newman  
Found on citrus trees frequently.
- Aulacaspis rosae** Bouché  
Common on mango leaves.
- Aspidiotus cydoniae** Comstock  
On oleander.
- Aspidiotus destructor** Signoret  
Found under bark of tree tended by ant *Crematogaster*.
- Aspidiotus longispina** Morgan  
Found on papaw trees, *Carica papaya* Linnaeus.
- Selenaspis articulatus** Morgan  
Found on citrus trees.
- Aonidiella comperei** McKenzie  
Found under bark of tree tended by ant *Crematogaster*.
- Pseudonidia trilobitiformis** Green  
Found on citrus trees fairly frequently.
- Chrysomphalus aonidium** Linnaeus  
Found on citrus trees.

## ORDER—HEMIPTERA

## FAMILY—CIMICIDAE

- Cimex lectularius** Linnaeus  
Record only.

## FAMILY—PENTATOMIDAE

- Edessa meditabunda** Fabricius  
Found on many plants, including cotton and cordia.
- Mormidea ypsilon** Linnaeus  
Record only.
- Nezara viridula** Linnaeus  
Habits similar to *Edessa*.

## FAMILY—COREIDAE

- Leptocorisa filiformis** Fabricius  
Caught on *Coccoloba uvifera*.
- Leptocorisa tipuloides** DeGeer  
Record only.

## ORDER—HEMIPTERA (Cont'd)

## FAMILY—COREIDAE

**Phthia picta** Drury

This is a reddish bug, sometimes a pest of tomato plants; it commonly occurs on various weeds in large numbers during June and July.

## FAMILY—LYGAEIDAE

**Oncopeltus fasciatus** Dallas

Record only.

**Pachybrachius bilobata** Say

Taken on *Gossypium barbadense* Linnaeus.

## FAMILY—GERRIDAE

**Gerris marginata** Say

Record only. Determination questionable.

## FAMILY—ANTHOCORIDAE

**Asthenidea** sp.

Found in rooms containing wheat for breeding *Sitotroga cerealella*. Some found most years and suspected of sucking and destroying eggs laid by the moths.

**Cardiastethus elegans** Uhler

Reared from cotton leaves and stems during close season.

## FAMILY—TINGIDAE

**Corythaica cyathicollis** Costa

Attacks leaves of eggplant *Solanum melongera*.

**Corythucha gossypii** Fabricius

Larvae attack leaves of *Hibiscus esculentus*; also attacks cassava in considerable numbers.

## FAMILY—REDUVIIDAE

**Nabis capsiformis** Germar

Caught in field plot of flowering alfalfa, *Medicago sativa*.

**Sirthenea stria** Fabricius

Found in house at Worthing. Det. as known from Lesser Antilles, Venezuela and Central America. Is not known to bite man, unless provoked.

**Triatoma sanguisuga** Leconte

(This probably should be changed to *rubrofasciata* (Degees).) Apparently there are no authentic records of *sanguisuga* from the West Indies. Blood-sucking cone-nose bug, sometimes found in houses.

ORDER—COLEOPTERA

FAMILY—CICINDELIDAE

**Cicindela suturalis** Fabricius

Found on the sea beach, Maxwell coast.

FAMILY—CARABIDAE

**Apenes marginalis** Dejean

Record only.

**Galerita unicolor** Latreille & Dejean (listed as **beauvoisi** Chaudoir by Blackwelder 1944-69)

Record only.

**Harpalus** sp.

Record only.

FAMILY—DYTISCIDAE

**Eretes stictica** Linnaeus

Record only.

**Megadytes giganteus** Castelnau

Larvae feed on tadpoles of Giant toad, *Bufo marinus*, and are a serious factor in limiting the numbers of this beneficial toad.

FAMILY—STAPHYLINIDAE

**Oligota oviformis** Casey

Larvae feed on eggs of red spider. Identification unlikely, unless this is an introduced species. Most probably the species is *L. parva* Kraatz.

**Carpelimus aridus** DuVal

Specimens in the British Museum from northern Barbados.

Dr. Richard E. Blackwelder, in his "Monograph of the West Indian Beetles of the Family Staphylinidae", U. S. National Museum Bulletin 182, pp. 658, Washington, D. C., 1943, records collection by himself of the following species of Staphylinidae in Barbados:

**Carpelimus correctus** Blackwelder, TYPE from St. Lucia

Three Barbadian collections.

**Carpelimus flavipes** Erichson, TYPE from St. John

One Barbadian collection, in dung.

**Oxytelus incisus** Motschulsky

Five Barbadian collections. "This is probably the commonest and most wide-spread staphylinid in the West Indies and will undoubtedly be found on all the islands where cattle and horses are kept. I have collected it from dung, manure, excrement, and bat guano, flying at dusk and on muddy banks of ponds". Blackwelder 1943-98.

**Platystethus spiculus** Erichson

One Barbadian collection.

## ORDER—COLEOPTERA (Cont'd)

## FAMILY—STAPHYLINIDAE

- Lithocharis limbata** Erichson  
Five Barbadian collections.
- Lithocharis ochracea** Gravenhorst  
Cosmopolitan, two Barbadian collections.
- Lithocharis sororcula** Kraatz  
Three Barbadian collections.
- Scopaeus pygmaeus** Erichson, TYPE from Puerto Rico  
One specimen in the British Museum.
- Erichsonius humilis** Erichson, TYPE from Puerto Rico  
One Barbadian collection.
- Philonthus ventralis** Gravenhorst  
Cosmopolitan, seven Barbadian collections.
- Cafius bistriatus** Erichson, TYPE from Long Island, New York  
From under seaweed at three localities on the beach at Barbados.
- Diochus nanus** Erichson  
Cosmopolitan, collected at two Barbadian localities under cane trash.
- Leptacinius parumpunctatus** Gyllenhal  
Cosmopolitan, two Barbadian collections, under dung.
- Xantholinus attenuatus** Erichson, TYPE from St. Thomas and Puerto Rico  
Eight Barbadian collections.
- Leucoparyphus silphoides** Linnaeus  
Cosmopolitan, one Barbadian collection, under dung.

## FAMILY—HYDROPHILIDAE

- Hydrophilus ater** Olivier (listed as *insularis* Laporte, Blackwelder 1944-171)  
Larvae feed on tadpoles of *Bufo marinus*.
- Tropisternus apicalpia** Chevrolat
- Tropisternus lateralis** Fabricius
- Dactylosternum abdominale** Fabricius (listed by Blackwelder 1944-170 to 173)

## FAMILY—SCARABAEIDAE

- Aphodius cuniculus** Chevrolat
- Ataenius beattyi** Chapin
- Ataenius edwardsi** Chapin
- Ataenius frater** Arrow
- Ataenius gracilis** Melsheimer

## ORDER—COLEOPTERA (Cont'd)

## FAMILY—SCARABAEIDAE

**Ataenius luteomargo** Chapin

**Ataenius miami** Cartwright

**Ataenius strigicauda** Bates (listed by Blackwelder 1944-212 to 215, after Dr. E. A. Chapin's *A Revision of the West Indian Beetles of the Scarabaeid Subfamily Aphodiinae*, Proc. U. S. National Museum, 89 (3092): 1-41. Washington, D. C., May 23, 1940.)

**Clemora** (or **Phytalus**) **smithi** Arrow

Larvae injure roots of sugarcane, rose trees, citrus, palms, bananas; adults found at night on sugarcane, rose trees, cassava, bananas. The leaves of rose trees are often badly eaten by the adults.

**Cyclocephala signata** Drury

Record only.

**Ligyris cuniculus** Fabricius

Larvae found in decaying vegetable matter. Adults fly to the lights in houses.

**Trox suberosus** Fabricius

Feeds on carcasses, hides, hoofs etc.

**Phileurus valgus** Linnaeus

Record only.

## FAMILY—ELATERIDAE

**Chalcolepidius porcatus** Linnaeus

Taken from and destroying whitewood tree. Also from imported wallaba wood.

**Heteroderes lauranti** Guérin-Ménéville

From imported wallaba wood, probably from Demerara, 1929.

**Pyrophorus luminosus** Illiger

Introduced in 1935 (3,670 larvae) and previously in 1932 (1,200 adults) from Puerto Rico. Successfully established and still to be found in wetter, hillier regions of Barbados, where there is more tree growth. Numbers still found in May-June, 1951.

## FAMILY—BUPRESTIDAE

**Chrysobothris sexpunctata** Fabricius

Imported in firewood.

**Chrysobothris antillarum** Fisher 1925-101: TYPE from Barbados

Described from a single specimen collected by Dayton Stoner, May 11, 1918, at Bridgetown.

## ORDER—COLEOPTERA (Cont'd)

## FAMILY—CLERIDAE

**Necrobia rufipes** DeGeer

On empty copra bags; probably imported with copra to Barbados 1940-41.

## FAMILY—OSTOMIDAE

**Tenebriodes mauritanicus** Linnaeus

Found in sacks of peanuts from India.

## FAMILY—DERMESTIDAE

**Attagenus gloriosae** Fabricius

Found on vanilla beans from Trinidad, 1928. Also found in various habitats in Barbados.

## FAMILY—BOSTRICHIDAE

**Amphicerus (Schistocerus) cornutus** Pallas

Specimens from a wood dealer.

**Heterobostrychus aequalis** Waterhouse

Adults similar to *S. anale*.

**Sinoxylon conigerum** Gerstaecker

Adults, pupae, and larvae in wooden cases shipped direct from India.

**Tetrapriocera longicornis** Olivier

Hatched from ebony wood.

## FAMILY—ANOBIIDAE (PTINIDAE)

**Catorama herbarium** Gorham

Eats into books, upholstered furniture, provisions, etc.

**Catorama zae** Waterhouse

Listed by Blackwelder 1945-406.

**Stegobium panicea** Linnaeus

Attacking onion seed from Teneriffe. Cosmopolitan pest of stored foodstuffs.

## FAMILY—LYMEXYLONIDAE

**Atractocerus brasiliensis** Laporte and Serville

Black borer of ebony, *Albizzia Lebbek* Bentham.

## FAMILY—NITIDULIDAE

**Carpophilus dimidiatus** var. **mutilatus** Erichson

Collected on imphee leaves around decayed material.

**Haptoncus luteola** Erichson

Found in decaying mango.

ORDER—COLEOPTERA (Cont'd)

FAMILY—CUCUJIDAE

**Oryzaephilus surinamensis** Linnaeus

Infesting sugar. Barbados.

FAMILY—COCCINELLIDAE

**Azya trinitatus** Marshall

Introduced in large numbers (3,000 or 4,000) from Trinidad to control *Aspidiotus destructor*. Found on coconut palms weeks after liberation.

**Coleomegilla maculata** DeGeer

Feeds on aphids, etc.

**Cryptognathus nodiceps** Marshall

Introduced from Trinidad to control *Aspidiotus destructor* on coconut palms. Reared in captivity in large cage, but not recovered from field.

**Cycloneda sanguinea** Linnaeus

Feeds on aphids, etc.

**Hyperaspis trilineata** Mulsant

Found associated with the sugarcane mealybug, on which it feeds.

**Rodolia cardinalis** Mulsant

Introduced in 1943 from California (via Imp. Inst. Ent. Ontario, Canada) for control of *Icerya purchasi*. Well established in April, 1943.

**Scymnus ochroderus** Mulsant

Feeds on aphids and white flies.

**Pentilia insidiosa** Mulsant

Also introduced from Trinidad.

FAMILY—MYCETOPHAGIDAE

**Typhaea stercorea** Linnaeus

Record only.

FAMILY—RHIPIPHORIDAE

**Macrosiagon octomaculatus** Gerstaecker

Parasite of *Campsomoris dorsata* Fabricius. Also found on cottony cushion scale, *Icerya purchasi*; apparently feeding on the egg sacs, which it had torn open.

FAMILY—MELOIDAE

**Cissites maculata** Swederus

Listed by Blackwelder 1945-482.

## ORDER—COLEOPTERA (Cont'd)

## FAMILY—OEDEMERIDAE

- Copidita lateralis** Waterhouse  
Frequently found at lights.

## FAMILY—TENEBRIONIDAE

- Alphitobius diaperinus** Panzer  
Found in decaying cottonseed.
- Alphitobius piceus** Olivier  
From cottonseed, a cosmopolitan species, not infrequently found in flour. Found in wheat in parasite units in 1947, causing considerable damage. Probably came in ships, during war.
- Alphitobius laevigatus** Fabricius  
From cottonseed from Puerto Columbia after fumigation.
- Opatrinus gemellatus** Olivier  
Said to injure young cotton plants in other Islands.
- Phaleria chevrolata** Fleutiaux and Serville  
Caught on Dover Beach, Christ Church.
- Schoenicus antillarum** Champion  
Some specimens found in a cellar; some also found under the bark of a tree.
- Tribolium castaneum** Herbst  
Attacks stored maize, flour, etc.
- Zophobas morio** Fabricius  
Occurs frequently in houses.

## FAMILY—CERAMBYCIDAE

- Achryson surinamum** Linnaeus  
Bores into ebony, *Albizzia Lebbek* Benth.
- Chlorida festiva** Linnaeus  
Bores into ebony, *Albizzia Lebbek* Benth.
- Cylindera flava** Fabricius  
Caught at light trap. Codrington, February, 1929.
- Eburia decemmaculata** Fabricius  
Taken from borings in Spanish ash tree, Bishop's Court., tree killed by borers and white ants.
- Eburia octomaculata** Chevrolat  
Found at Codrington, July, 1929
- Heterachthes quadrimaculatus** Fabricius  
Record only.



ORDER—COLEOPTERA (Cont'd)

FAMILY CERAMBYCIDAE

- Lissonotus shepherdii** Pascoe  
From imported wallaba wood.
- Phrynetta verrucosa** Drury  
Bores into *Ficus lentiginosa* and *F. nitida*.
- Polyrraphis spinosa** Drury  
Record only.
- Trachyderus succinctus** Linnaeus  
Record only.
- Lagochirus araneiformis** Linnaeus  
Record only.
- Leptostylus posticalis** Gahan  
Taken from borings in branch of *Hura crepitans*.
- Leptostylus praemorsus** Fabricius  
Bores into bark of lime and other citrus trees.
- Batocera rubus** Linnaeus  
Recorded by Blackwelder 1946-596 as also from St. Croix and China.
- Hypsioma insularis** Fisher 1935-199: TYPE from Barbados
- Lepturges guadeloupensis** Fletutiaux and Sallé  
Borings in twigs of mango.

FAMILY—CHRYSOMELIDAE

- Lema sharpi** Jacquelin-Duval  
Found on various weeds.
- Myochrous armatus** Baly  
Larvae found at roots of sugarcane; adults on sugarcane shoots and corn leaves, and eating sweetpotato stems.
- Chaetocnema amazona** Baly  
Flea beetle of sweetpotato
- Haltica satellitia** Jacquelin-Duval  
Feeds on weed *Jussiaea suffruticosa* Linnaeus.
- Homophoeta aequinoctialis** Linnaeus  
Sometimes very numerous on the common weed *Stachytarpheta indica* Vahl.

FAMILY—BRUCHIDAE

- Bruchus** spp.  
Attacking stored seeds, etc.
- Bruchidius incarnatus** Boheman  
In Bonavist beans from Egypt.

## ORDER—COLEOPTERA (Cont'd)

## FAMILY—BRUCHIDAE

**Caryedon fuscus** Goerc

An introduced Asiatic species.

**Collosobruchus analis** Fabricius

In imported peas.

**Collosobruchus chinensis** Linnaeus

Attacking black-eye peas stored, grown and imported.

**Collosobruchus maculatus** Fabricius

Reared from imported black-eye peas, known locally as "pope".

Probably attacks black-eye peas in field in Barbados.

Parasitised by *Bruchobius vagabundus* Timberlake.

## FAMILY—SCOLYTIDAE

**Coccotrypes thrinaxis** Hopkins

Boring in seeds of *Thrinax radiata* and *Thrinax argentea*, and found boring into and destroying buttons on a suit (St. Lucy, Barbados). Buttons had been turned out of ivory nuts, *Phytelephas* sp. Species usually associated with this sort of injury is *C. eggersii*. Hagendorn, but present species is smaller and darker.

**Cryphalus** sp.

Boring in twigs of mango. Also attacks stored sweetpotato seriously. Noted 1930.

**Hypocryphalus mangiferae** Stebbing

Boring in twigs of mango.

**Hypothenemus** sp.

Boring in twigs of *Mangifera indica*.

**Pycnarthrum pallidum** Chapuis

Found in bark of *Artocarpus incisa* and *Ficus nitida*.

**Stephanoderes seriatus** Eichhoff

Record only.

**Xylebrous confusus** Eichhoff

Mango.

**Xyleborus perforans** Wollaston

Attacks acid sugarcane.

## FAMILY—PLATYPODIDAE

**Platypus punctatus** Chapuis

Listed by Blackwelder 1947-790.

ORDER—COLEOPTERA (Cont'd)

FAMILY—CURCULIONIDAE

**Artipus corycaeus** Sahlberg

Found in pods of *Caesalpinia* sp. and among seeds of *Abrus precatorius* Linnaeus.

**Diaprepes abbreviatus** Linnaeus

This is a very bad pest of sugarcane; the larvae bore into the cane bases, sometimes completely severing them.

**Diaprepes famelicus** Olivier, var. **barbadensis** Marshall

Adults found in Barbados feeding on epidermis of Agave leaves.

**Eusepes postfasciatus** Fairmaire

This is a very bad pest of sweetpotato.

**Litostylus bovelli** Marshall

Record only.

**Metamasius sericeus** Olivier

Attacks sugarcane after fermentation has begun, or attacks moth borer damaged cane and produces fermentation and almost complete destruction of attacked cane. Attacks some cane varieties more than others, and damages ratoon stumps. Recorded once (1946) as attacking banana corms and stumps.

**Promecops lunatus** Fahraeus

Attacks leaves of bean, *Phaseolus lunatus*.

**Rhysomatus nigerrimus** Fahraeus

Record only.

**Sitophilus granarius** Linnaeus

Grain weevil—cosmopolitan.

**Sitophilus linearis** Herbst

Record only.

ORDER—DIPTERA

FAMILY—CULICIDAE

**Aedes aegypti** Linnaeus

Record only.

**Culex quinquefasciatus** Say

Record only.

FAMILY—TIPULIDAE AND PSYCHODIDAE

Genera and species of these families are present in Barbados, but are not on record.

FAMILY—TENDIPEDIDAE

**Tendipes** spp.

## ORDER—DIPTERA (Cont'd)

## FAMILY—HELEIDAE

*Culicoides* sp.

Taken sucking human blood.

*Culicoides paraensis* Goeldi

Record only.

## FAMILY—ITONIDIDAE

*Asynapta mangiferae* Felt

Attacks mango twigs and also leaves.

*Contarinia lycopersici* Felt

Cause severe blossom fall in tomatoes in some years.

*Porricondyla gossypii* Coquillett

Gets into bruises on the stems, lives under the bark and finally causes death of the attacked branches.

## FAMILY—SCATOPSIDAE

*Scatopse* sp.

Collected from soil containing bulbous plants (Liliaceae) imported from United Kingdom.

## FAMILY—STRATIOMYIDAE

*Hermetia illucens* Linnaeus

Frequently found on imphee leaves, okra leaves, etc., evidently following honeydew of aphids. Pupae are fiat, grey, segmented (with bristles on segment edges) and mobile.

## FAMILY—TABANIDAE

*Tabanus hookeri* Knab var.

Caught on okra plant.

## FAMILY—BOMBYLIIDAE

*Geron* sp.

Record only.

## FAMILY—SYRPHIDAE

*Allograpta obliqua* Say

Record only.

*Tubifera vinetorum* Fabricius

Record only.

ORDER—DIPTERA (Cont'd)

FAMILY—DOLICHOPODIDAE

**Psilopus chrysoprasius** Walker

Frequently seen on plant leaves.

**Psilopus unifasciatus** Say

Habits similar to the preceding.

FAMILY—EPHYDRIDAE

**Leptopsilopa nigrimana** Williston

Bred from mines in sweetpotato leaves. \*

FAMILY—CHLOROPIDAE

**Cadrena pallida** Loew

Record only.

**Hippelates pallidus** Loew

From diseased tomato cutting (1934). Probably same species as *H. planiscatellatis*.

**Oscinella** sp.

On plant leaves.

FAMILY—PHORIDAE

**Megaselia** sp.

Record only.

**Megaselia scalaris** Loew

Recorded as in soil; presumably, pupae found in soil.

FAMILY—OTITIDAE

**Euxesta annonae** Fabricius

Common on plant leaves; same species as *E. eluta* Loew.

FAMILY—LAUXANIIDAE

**Sapromyza maculosa** Williston

May be same species as *S. macula* Loew. Record only.

FAMILY—CALLIPHORIDAE

**Callitroga macellaria** Fabricius

Taken on sorghum with honeydew of aphids.

**Phaenicia eximia** Wiedemann (= *Lucilia ruficornis* Macquart)

Taken on leaves.

## ORDER—DIPTERA (Cont'd)

## FAMILY—SARCOPHAGIDAE

**Sarcophaga chaetopygialis** Williston

Caught in field of sweetpotato which was infested with larvae of *Herse cingulata* Fabricius.

**Sarcophaga chrysostoma** Wiedemann

Record only.

**Sarcophaga lambens** Wiedemann

Bred from larvae feeding on decaying larva of *Herse cingulata* Fabricius.

**Sarcophaga plinthopyga** Wiedemann

Record only.

**Sarcophaga trivittata** Macquart

Record only.

**Sarcophaga ventricosa** Van der Wulp

Found on *Zea mays*.

## FAMILY—LARVAEVRIDAE

**Ormia depleta** Wiedemann

Caught in house.

**Peleteria robusta** Wiedemann

Parasitic on *Leucania* (or *Cirphis*) *microgonia* Hampson.

**Sturmia distincta** Wiedemann

Parasitic on *Herse cingulata* Fabricius

**Zygosturmia inca** Townsend

Bred from sphingid larvae feeding on sweetpotato.

## FAMILY—MUSCIDAE

**Atherigona exisa** Thomson

Reared from cotton bolls infested with pink bollworm; also possibly from rotten tubers of cassava.

**Musca domestica** Linnaeus

Housefly.

**Stomoxys calcitrans** Linnaeus

Record only.

## FAMILY—TYLIDAE

**Hrallomyia** (Calobata or Taeniaptera) *annulata* Fabricius

Occurs along grass paths.

ORDER—DIPTERA (Cont'd)

FAMILY—AGROMYZIDAE

**Agromyza** sp.

Leaf-miner of cow-pea.

**Agromyza sorosis** Williston

Bred from young leaves of *Zea Mays* attacked by a leaf-miner.

FAMILY—DROSOPHILIDAE

**Drosophila melanogaster** Meigen

The "wine fly" of Europe. Bred from decaying mango.

FAMILY—MILICHIIDAE

**Milichiella lacteipennis** Loew

Taken on leaves of papaw, *Carica papaya*.

ORDER—APHANIPTERA

FAMILY—PULICIDAE

**Pulex irritans** Linnaeus

Record only.

ORDER—LEPIDOPTERA

FAMILY—NYMPHALIDAE

**Agraulis vanillae** Linnaeus

Larva feeds on *Passiflora* spp.

**Danaus plexippus** Linnaeus

Larva feeds on weed *Asclepias curassavica*.

**Hypolimnas misippus** Linnaeus

Larva feeds on *Portulaca* sp.

**Junonia genoveva** Cramer

Larva feeds on *Stachytarpheta indica* Vahl.

**Vanessa cardui** Linnaeus

Record only.

FAMILY—LYCAENIDAE

**Hemiargus hanno** Stoll

Small blue butterfly, larva feeds on *Phaseolus* sp.

FAMILY—PIERIDAE

**Ascia monuste** Linnaeus

Larva feeds on cruciferous plants.

## ORDER—LEPIDOPTERA (Cont'd)

## FAMILY—PIERIDAE

**Eurema elathea** Cramer

Female similar to above sp. Male small and well coloured.

**Phoebis eubule** Linnaeus

Larva feeds on *Cassia* spp.

## FAMILY—PAPILIONIDAE

**Papilio polydamas** Linnaeus

Larva feeds on *Aristolochia*.

## FAMILY—HESPERIIDAE

**Calpodus ethlius** Cramer

Attacks canna, arrowroot, and tous-les-mois plants.

**Eudamus retracta**

Record only. May be *Goniurus dorantes retractus*.

**Hylephila phyleus** Drury

Record only.

**Proteides zestos** Geyer

Record only.

**Urbanus proteus** Linnaeus

Attacks bean plants. (*Phaseolus* sp.).

## FAMILY—ARCHIIDAE

**Utethesia ornatrix** Linnaeus

Feeds on *Crotolaria retusa*.

## FAMILY—NOCTUIDAE

**Agrotis malefida** Guenée**Agrotis subterranea** Fabricius

These two species feed on cotton, sweetpotato. Bred from tobacco, soybeans and curcubits. Also found in soil under tomatoes, causing serious damage to fruits resting on the ground.

**Anicla infecta** Ochseneimer

Reared from sweetpotato leaves.

**Xanthopastis timais** Cramer

Feeds on lily (*Crinum* sp.)

**Bagisara subusta** Hübner

Reared from larva feeding on *Sida glomerata*.

**Cydosia histrio** Fabricius

Feeds on *Spigelia anthelmia* Linnaeus



## ORDER—LEPIDOPTERA (Cont'd)

## FAMILY—NOCTUIDAE

***Elaphria agrotina* Guenée**

Reared from cotton leaves and stems kept at Laboratory during the close season.

***Heliothis armigera* Hübner**

This is pest of cotton, corn, and tomato.

***Heliothis virescens* Fabricius**

Feeds on pigeon pea, *Cajanus cajan*. Reared from cotton bolls and from tomato; also from larva feeding on rose bushes.

***Laphygma frugiperda* Smith and Abbot**

Besides being a bad pest of Indian corn, is also a minor pest of cotton, injuring the bolls. Reared from curcubits; bores also into stems of Indian corn and feeds on young ears and tassels. Feeds on shoots of sugarcane.

***Leucania microgonia* Hampson**

Larvae attacking leaves of sugarcane. Reared from larvae at root of sugarcane.

***Leucania multilinea* Walker**

Record only.

***Prodenia dolichos* Fabricius**

Attacks cotton, sweetpotatoes, and many garden plants, also tobacco; caught often at light traps.

***Prodenia (Xylomyges) eridania* Cramer**

Reared from larvae on sweetpotato. Pupae also dug up in sweetpotato fields, September, 1929.

***Prodenia sunia* Guenée**

Feeds on *Zephyranthes* sp., also reared from sweetpotato, October 1928.

***Lithoprosopus configens* Walker**

Caught at light. Barbados. Recorded also from Dominica.

***Meridyrias progenies* Guenée**

Caught at light in house.

***Micrathetis triplex* Walker**

Reared from sweetpotato leaves.

***Alabama argillacea* Hübner**

This is a common pest of cotton.

***Aletia luridula* Guenée**

This is not as bad a pest of cotton as the preceding. Reared also from tomatoes.

***Spragueia dama* Guenée**

Larvae found eating blossoms of sweetpotato.

## ORDER—LEPIDOPTERA (Cont'd)

## FAMILY—NOCTUIDAE

**Mocis repanda** Fabricius

Attacks Guinea grass, *Panicum maximum*; periodic outbreaks occur.

**Otosema odorata** Linnaeus

Record only.

**Platysenta albiger**a Guenée

Reared from larvae attacking leaves of Chrysanthemum.

**Pseudoplusia rogationis** Guenée

Feeds on sweetpotato, woolly pyrol and curcurbits.

**Ptichodis immunis** Guenée

Record only.

**Gonodonta nutrix** Stoll

Reared from soursop.

**Gonodonta famelica** Guenée

Feeds on *Leucaena glauca*.

**Gonodonta fasciolaris** Hübner

Feeds on the leaves of the lignum-vitae, *Guaiacum officinale*.

**Anticarsia gemmatalis** Hübner

Attacks beans, bonavist, woolly pyrol, and other related leguminous plants.

**Argyrogramma verruca** Fabricius

Reared from sweetpotato vines; not so numerous as *Xylomyges eridania* Cramer

## FAMILY—SPHINGIDAE

**Herse cingulata** Fabricius

Pest of sweetpotato; periodic outbreaks occur.

**Cocytius antaeus** Drury

Feeds on plants of *Anonaceae*

**Epistor** (or **Enyo**) **lugubris** Linnaeus

Feeds on *Vitis* spp. and *Datura* spp.

**Erinnyis ello** Linnaeus

Feeds on cassava (Manihot); periodic outbreaks occur. Reared from caterpillars from roots of cane.

**Erinnyis alope** Drury

Feeds on *Hippomane* and *Jatropha*.

**Erinnyis obscura** Fabricius

Record only.

**Pachylia ficus** Linnaeus

Feeds on *Ficus nitida* and *Chlorophora tinctoria*.

**Pholus fasciatus** Sulzer

Feeds on water-hyacinth, *Jussiaea*.

## ORDER—LEPIDOPTERA (Cont'd)

## FAMILY—SPHINGIDAE

- Pholus labruscae** Linnaeus  
Feeds on *Cissus sicyoides*.
- Protambulyx strigilis** Fabricius  
Feeds on hog plum, *Spondias lutea*.
- Protoparce rustica** Fabricius  
Feeds on wild coffee, *Clerodendron aculeatum*.
- Protoparce sexta** Johansson  
Feeds on Solanaceous plants, e.g. tomato, pepper.
- Pseudosphinx tetrio** Linnaeus  
Feeds on Allamanda or Frangipani, *Plumeria alba*.
- Sesia tantalus** Linnaeus sub. sp. *zonata* Drury  
Record only.
- Xylophanes pluto** Fabricius  
Feeds on *Erythroxylon*.
- Xylophanes tersa** Linnaeus  
Feeds on rose. Reared from milkweed, September, 1928.

## FAMILY—SYNTOMIDAE

- Syntomeida syntomoides** Boisduval  
Feeds on *Ipomoea*. Larvae very ornate with long tufts of hair and bristles, etc.

## FAMILY—GEOMETRIDAE

- Melanchroia cephise** Cramer  
Caught at *Cordia interrupta* bushes, September 1928. Larva black and yellow. Feeds on *Phyllocanthus* and Barbados gooseberry.
- Semiothisa ochrata** Warren  
Record uncertain.
- Synchlora frondaria** Guenée  
Record only.

## FAMILY—URANIIDAE

- Urania leilus** Linnaeus  
Occurs sometimes in Barbados after a gale.

## FAMILY—GALLERIIDAE

- Corcyra cephalonica** Stainton  
From bags of cottonseed in hold of steamers. Also reared from chocolate bars from stores, and caught in rooms stored with grain.
- Galleria mellonella** Linnaeus  
The wax moth; a cosmopolitan pest.

## ORDER—LEPIDOPTERA (Cont'd)

## FAMILY—CRAMBIDAE

**Diatraea saccharalis** Fabricius

Larvae tunnel shoots and stems of sugarcane.

## FAMILY—PHYCITIDAE

**Crocidomera** sp.

Reared from seed pods of *Swietenia mahagoni* Linnaeus.

**Ephestia cautella** Walker

Reared from chocolates from stores in town.

**Fundella pellucens** Zeller

(= **Fundella cistipennis** Dyar)

Attacks and damages pods of pigeon peas, *Cajanus cajan*, and beans.

**Hypsipyla grandella** Zeller

Bores into shoots of mahogany trees.

**Nephopteryx ephestiella** Hampson

Reared from tamarind fruits.

## FAMILY—PYRAUSTIDAE

**Anania florella** Cramer

Hosts plants not recorded.

**Asciodes anormales** Guenée

Feeds on sweetpotato leaves.

**Sylepta (or Asciodes) gordialis** Guenée

Feeds on *Bougainvillea*.

**Diaphania sibillalis** Walker

Host plants not recorded.

**Diaphania hyalinata** Linnaeus

Feeds on curcubitaceous plants.

**Pyrausta cerata** Fabricius

(= **Epicorsia mellinalis** Hübner)

Attacks fiddle-wood, *Citharexylum quadrangulare*.

**Hymenia perspectalis** Hübner

Host plants not recorded.

**Hymenia recurvalis** Fabricius

Host plants not recorded.

**Hedylepta indicata** Fabricius

Feeds on bean leaves.

**Psara (or Pachyzancla) bipunctalis** Fabricius

Feeds on many plants: canna, garden beans, swordbeans, etc. Also reared from beet leaves.

ORDER—LEPIDOPTERA (Cont'd)

FAMILY—PYRAUSTIDAE

**Pionea cervinalis** Warren

Host plants not recorded.

**Paradosis flegia** Cramer

Host plants not recorded.

FAMILY—COSSIDAE

**Xyleutes punctifera** Hampson

Larvae tunnel into certain trees, shrubs etc.—*Ipomoea* sp., *Anona muricata*, *Codiaeum* spp., *Tecoma leucoxyton* (whitewood), the last-named tree being specially favored by it, causing large limbs to break off.

FAMILY—GELECHIIDAE

**Dichomeris melissia** Walsingham

Reared from larva on leaf of potato, *Solanum tuberosum*.

**Lecithocera emigrans** Meyrick

Reared from leaves of sweetpotato.

**Sitotroga cerealella** Olivier

Reared from imphee seed; *Andropogon sorghum saccharatus* caught in canefield 1928.

**Platyedra gossypiella** Saunders

The pink bollworm of cotton.

FAMILY—COSMOPTERYGIDAE

**Pyroderces stigmatophora** Walsingham

Reared from sorghum seeds and castor-oil seeds.

**Pyroderces coriacella** Snellen

Reared from larva in cotton kept during "close season" at laboratory.

FAMILY—BLASTOBASIDAE

**Blastobasis grenadensis** Walsingham

Reared from cotton leaves and stems kept during "close season".

**Pigritia troctis** Meyrick

Reared from cotton leaves and stems kept during "close season".

FAMILY—HYPONOMEUTIDAE

**Plutella maculipennis** Curtis

Attacking leaves of cabbage.

## ORDER—HYMENOPTERA

## FAMILY—BRACONIDAE

**Apanteles** sp.

Reared from leaves of *Cordia interrupta*, attacked by a leaf-miner.

**Apanteles glomeratus** Linnaeus

Introduced from Canada to combat larvae of cabbageworm, *Ascia monuste* Linnaeus. Field recoveries made.

**Apanteles** sp.

Reared from pink bollworm from okra seeds.

**Microbracon hebetor** Say

Taken from bags of stored cottonseed.

## FAMILY—EVANIIDAE

**Evania appendigaster** Linnaeus

Egg parasite of cockroach.

## FAMILY—ICHNEUMONIDAE

**Encospilus** sp.

## FAMILY—MYMARIDAE

**Anagrus flaveolus** Waterhouse

Egg parasite of the "cane fly", *Delphax saccharivora* Westwood.

## FAMILY—TRICHOGRAMMATIDAE

**Trichogramma minutum** Riley

Parasitizes many lepidopterous eggs. Found extensively in cane fields, parasitizing eggs of the sugarcane moth-borer, *Diatraea saccharalis* Fabricius. Its mass rearing on *Sitotroga cerealella* Olivier, by making possible mass liberation in young canefields, has proved to be a successful form of biological control of the moth-borer in Barbados.

**Trichogramma** spp.

Introduced to supplement the above.

## FAMILY—EULOPHIDAE, APHELININAE

**Aspidiotiphagus citrinus** Craw

Reared from *Aulacaspis rosae* Bouché infesting leaves of mango.

**Encarsia** sp.

Reared from pupae of white flies on guava leaves.

**Prospaltella** sp.

Introduced for control of *Aleurodicus cocois* Curtis.

ORDER—HYMENOPTERA (Cont'd)

SUBFAMILY—TETRASCHINAE

**Tetrastichus hagenowi** Ratzenburg

Parasitic on eggs of cockroach.

**Tetrastichus haitiensis** Gahan

Introduced from Puerto Rico, reared in Barbados and many thousands liberated for control of *Diaprepes abbreviatus* Linnaeus. No recoveries in the field.

SUBFAMILY—ELACHERTINAE

**Euplectrus furnius** Walker

Reared from larvae of *Herse cingulata* Fabricius found parasitized in a field of sweetpotatoes.

**Zagrammosoma** sp.

Reared from leaves of *Cordia interrupta* attacked by a leaf-miner.

SUBFAMILY—ENTEDONTINAE

**Achrysocharis** sp.

Reared from leaf-miners in sweetpotato leaves.

FAMILY—ENCYRTIDAE

**Ageniaspis** (Holcothorax)

Parasitic on larvae of *Nephopteryx* (or *Anypsipla*) *ephestiella* Hampson reared from tamarind fruits.

**Habrolepis** sp.

Parasitic on the scale insect *Aspidiotus* (or *Hemiberlesia*) *longispina* Morgan.

FAMILY—EUPELMIDAE

**Lecanobius cockerelli** Ashmead

Parasitic on black scale, *Saissetia nigra* Nietner.

FAMILY—CHALCIDIDAE

**Brachymeria ovata** Say

Pupal parasite of *Alabama argillacea* Hübner and *Anticarsia gemmatilis* Hübner.

**Brachymeria** sp.

Record only.

FAMILY—PTEROMALIDAE

**Habrocytus cerealellae** Ashmead

Parasitic on larvae of *Sitotroga cerealella* Olivier in moth breeding units.

## ORDER—HYMENOPTERA (Cont'd)

## FAMILY—PTEROMALIDAE

**Prophanurus alecto** Crawford

Parasitizes eggs of *Diatraea saccharalis* Fabricius, but is not common.

**Pteromalus puparum** Linnaeus

Introduced from Canada and reared in puparia of *Ascia monuste* Linnaeus, several thousand liberated. No recoveries made in the field and it is not known whether it has become established in Barbados.

**Bruchobius vagabundus** Timberlake—det. A. B. Gahan

Parasitizes "pope" in black-eye peas.

## FAMILY—DIAPRIDAE

**Trichopria cubensis** Fouts

Parasitizes pupae of the Amazon fly, *Metagonistylum minense* TT.

**Trichopria (Planopria)** sp.

Reared from pupae of *Paratheresia* sp. from Trinidad, 1934.

## FAMILY—FORMICIDAE

**Cardiocondyla** sp.**Crematogaster brevispinosa** Mayr var. **brevidentata** Forel

Acrobatic ant.

**Crematogaster (Orthocrema) brevispinosa** Mayr

Bores into telephone-wire insulation in Barbados and is found on trees, fenceposts etc.

**Monomorium destructor** Jerdon

A troublesome house-infesting ant present in many localities in the West Indies.

**Monomorium carbonarium** F. Smith subsp. **ebeninum** Fabricius

On sugarcane.

**Rhizomyrma** sp.

Record only.

**Solenopsis geminata** Fabricius

Fire ant.

**Solenopsis corticalis** Forel

Attacking eggs, larvae, and pupae of *Clemora (Phytalus) smithi*, under experimental conditions.

**Acropyga (Rhizomyrma) marshalli** Crawley

From soil around base of cane stool.

**Paratrachina longicornis** Latreille

Crazy ant.

**Brachymyrmex** spp.

Record only.



ORDER—HYMENOPTERA (Cont'd)

FAMILY—FORMICIDAE

**Camponotus sexguttatus** Fabricius

From sugarcane field.

**Camponotus (Myrmosphincta) sexguttatus** Fabricius var. **grenadensis**  
Forel.

Found under bark of mahogany tree.

FAMILY—BETHYLIDAE

**Perisierola nigrifemur** Ashmead

Parasitic on *Pyrocercus coriaccella* Snellen.

**Rhabdepyris zeae** Turner and Waterston

Found in numbers in units breeding *Sitotroga cerealella* Olivier. Not nearly so detrimental as *Habrocytus cerealellae* Ashmead.

FAMILY—VESPIDAE

**Odynerus grenadensis** Ashmead

Occupies cells of *Sceliphron cementarium* Drury, stocking them with caterpillars.

**Ancistrocerus** sp.

Habits similar to those of *Odynerus grenadensis* Ashmead.

**Polistes annularis** Linnaeus

Predaceous on cottonworm.

**Polistes bellicus** Cresson

Habits similar to preceeding.

**Polistes canadensis** Linnaeus var. **cinctus** Leys

**Polistes fuscatus** Fabricius var. **nestor** Fabricius

These records are from J. E. Bequaert, Jour. N. Y. Ent. Soc. **48**: 1-31, 1940.

FAMILY—POMPILIDAE

**Anoplius (Arachnophroctonus) Americanus** Juxtus Cresson

Record only.

**Anoplius (Notiochares) A. Amethystinus** Fabricius

Record only.

FAMILY—SCOLIIDAE

**Campsomeris dorsata** Fabricius

Parasitic on larva of *Ligyris cuniculus* Fabricius

## ORDER—HYMENOPTERA (Cont'd)

## FAMILY—TIPHIDAE

**Myzine** (or **Elis**) **ephippium** Fabricius**Tiphia parallela** SmithParasitic on larva of *Clemora (Phytalus) smithi* Arrow.

## FAMILY—SPHECIDAE

**Chlorion (Ammobia) dubitatum** Cresson

Burrows in marlholes.

**Motes luteipennis** Cresson

Burrows in marlholes.

**Motes vinulenta** Cresson

Burrows in marlholes.

**Sceliphron cementarium** Drury

Makes mud nests in outbuildings.

**Tachytes argentipes** Smith

Once observed in the act of catching a small grasshopper.

## FAMILY—HALICTIDAE

**Halictus cyaneus** Ashmead

Record only.

## FAMILY—MEGACHILIDAE

**Megachile barbadense** Cockerell

Record only.

**Megachile binotulata** Dalla Torre

Leaf-cutting bee.

**Megachile concinnata** Smith

Record only.

## FAMILY—APIDAE

**Apis mellifera** Fabricius

Honeybee.

**Hemisia versicolor** Fabricius

Record only.

**Hemisia** sp.Occupied nests of *Sceliphron cementarium* Drury, which it stores with a mixture of honey and pollen.**Xylocopa brasilianorum** Linnaeus

Builds in decayed branches, posts etc.

**Xylocopa fimbriata** Linnaeus

Builds in old posts, old tree branches etc.