

An Annotated List of Insects from Lanai¹

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Insects collected by one of the writers on the island of Lanai during February and March 1939 were determined by Messrs. O. H. Swezey (Hymenoptera, Microlepidoptera, and some Coleoptera), E. H. Bryan, Jr. (Diptera), and E. C. Zimmerman (Coleoptera, some Hymenoptera, and miscellaneous). Several undetermined species were retained by them for further study. Determined species are tabulated below.

Because the primary object was a study of the epidemiology of certain pineapple fruit diseases, collections were made in several ways with the particular object of obtaining insects that visit ripe or wounded fruits and those that emerge from rotting fruits. Sources, shown in the list by alphabetic symbols following insect names, are as follows:

- A. Ripe pineapple fruit; chiefly fruits that were picked and placed in groups on pineapple plants and examined repeatedly during one week. Before collections were terminated many of the fruits had begun to spoil and almost all were somewhat smeared with juice.
- B. Ripe pineapple fruits that were cut open and left exposed on the soil in fruiting pineapple fields.
- C. Pineapple fruits picked after decay had begun, placed over raw subsoil in rearing cages, and held for insect emergence.
- D. Net collections in fruiting pineapple fields; day.
- E. Net collections in fruiting pineapple fields; night.
- F. Net collections over decomposing plant waste and fallow soil.
- G. Ripe and decaying fruits of *Ficus rubiginosa*.
- H. Clean white cloth covers over fresh pineapple juice.
- I. Old fruits of *Melia azedarach*.
- J. Pineapple leaves.

DERMAPTERA

Labiduridae

Euborellia annulipes (Lucas)..... A B C

EMBIOPTERA

Oligotomidae

Oligotoma saundersi Westw..... A C

PSOCOPTERA

Psocidae

Hemipsocus roseus Hagen..... A

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HEMIPTERA

Coreidae	
<i>Liorhyssus hyalinus</i> (Fabr.)	?
Lygaeidae	
<i>Nysius</i> sp.	J
Pyrrhocoridae	
<i>Orthoeca nigriceps</i> (Dallas)	D
Reduviidae	
<i>Empicoris whitei</i> (F. B. White)	E
<i>Luteva insolida</i> F. B. White	E
<i>Zelus renardii</i> Kol.	A

COLEOPTERA

Staphylinidae	
<i>Atheta coriaria</i> (Kr.)	A C H
<i>Philonthus discoideus</i> Grav.	C
<i>Philonthus longicornis</i> Steph.	A B C
<i>Tachinus</i> sp.	C
Cucujidae	
<i>Cryptamorpha desjardinsi</i> (Guer.)	A C
Elateridae	
<i>Conoderus exsul</i> (Sharp)	A B
Colydiidae	
<i>Colobicus parilis</i> Pasc.	A C
Nitidulidae	
<i>Carpophilus hemipterus</i> (Linné)	A B C D F I
<i>Carpophilus humeralis</i> (Fabr.)	A B C D F
<i>Haptoncus mundus</i> Sharp	A C H
<i>Haptoncus ocularis</i> (Fairm.)	A C
Mycetophagidae	
<i>Litargus balteatus</i> Lec.	A C D H
Anobiidae	
<i>Catorama herbarium</i> (Chev.)	A
Bostrychidae	
<i>Xylopsocus capucinus</i> Fabr.	Resting in automobile
Coccinellidae	
<i>Cryptolaemus montrouzieri</i> Muls.	<i>Ficus rubiginosa</i> foliage
<i>Lindorus lophanthae</i> (Blaisd.)	A
<i>Pullus kinbergi</i> (Boh.)	A
<i>Scymnus debilis</i> Lec.	A
<i>Scymnus pictus</i> Gorb.	A
<i>Sticholotis punctatus</i> Crotch	A H
Orthoperidae	
<i>Sericoderus pubipennis</i> Sharp	H
Tenebrionidae	
<i>Epitragus diremptus</i> Karsch	A
<i>Gonocephalum seriatum</i> (Boisd.)	E
Cerambycidae	
<i>Sybra alternans</i> Wied.	A E
Curculionidae	
<i>Pantomorus godmani</i> (Crotch)	J
Scolytidae	
<i>Hypothenemus maculicollis</i> Sharp	F
Anthribidae	
<i>Araeocerus fasciculatus</i> (De Geer)	A H I
Scarabaeidae	
<i>Adoretus sinicus</i> Burm.	E
<i>Aphodius lividus</i> Olivier	A

DIPTERA

Sciaridae	
<i>Neosciara molokaiensis</i> (Grimshaw)	A F
Scenopinidae	
<i>Scenopinus lucidus</i> Becker	A
Syrphidae	
<i>Eumerus aurifrons</i> Wied.	C
<i>Lathyrrophthalmus arvorum</i> (Fabr.)	B
<i>Valucella obesa</i> (Fabr.)	B
<i>Volucella pusilla</i> (Macq.)	A
Sarcophagidae	
<i>Sarcophaga fuscicauda</i> Böttcher	G
<i>Sarcophaga haemorrhoidalis</i> Fallen	G
<i>Sarcophaga pallinervis</i> Thomson	G
<i>Sarcophaga plinthopyga</i> Wied.	G
Calliphoridae	
<i>Chrysomya megacephala</i> (Fabr.)	G
<i>Chrysomya rufifacies</i> (Macq.)	A B
<i>Lucilia sericata</i> (Meigen)	B G
<i>Stomoxys pleuralis</i> (Thomson)	B G
Muscidae	
<i>Musca domestica</i> Linn.	G
<i>Synthesiomyia nudiseta</i> Van der Wulp	A B G
Anthomyiidae	
<i>Atherigona excisa</i> (Thomson)	A C D F G H
Borboridae	
<i>Leptocera</i> sp.	C
Ortaliidae	
<i>Acrosticta apicalis</i> (Williston)	A
<i>Euxesta quadrivittata</i> Macq.	A F
Trypetidae	
<i>Chaetodacus cucurbitae</i> (Coq.)	<i>Ficus rubiginosa</i> foliage
Drosophilidae	
<i>Chymomyza procnemis</i> (Will.)	A D G H
<i>Drosophila melanogaster</i> Meigen	A C H
<i>Drosophila mulleri</i> Sturtevant	A C D G H
<i>Drosophila repleta</i> Wollaston	A C G H
Carnidae	
<i>Rhodesiella tarsalis</i> Adams	A
Milichiidae	
<i>Desmometopa m-nigrum</i> Zettersted	A C D F
<i>Milichiella lacteipennis</i> (Loew)	A D
Agromyzidae	
<i>Liriomyza pusilla</i> (Meigen)	D
LEPIDOPTERA	
Tineidae	
<i>Ereumetis flavistriata</i> Walsm.	C E
<i>Opogona omoscopa</i> (Meyr.)	A C
Cosmopterygidae	
<i>Pyroderces rileyi</i> (Walsm.)	A C
Yponomeutidae	
<i>Hyposmocoma</i> spp.	A
Gelechiidae	
<i>Stoerberhinus testaceus</i> Butl.	A
HYMENOPTERA	
Braconidae	
<i>Apanteles glomeratus</i> (Linné)	A
<i>Chelonus blackburni</i> Cameron	A

Ichneumonidae	
<i>Cre mastus flavo-orbitalis</i> (Cam.)	..... A
<i>Idechthis</i> near <i>canescens</i> (Grav.)	..... A C
<i>Pristomerus hawaiiensis</i> Perkins	..... A
Diapriidae	
<i>Diapria drosophilae</i> Perkins	..... A C
Agaonidae	
<i>Pleistodontes froggatti</i> Mayr	..... <i>Ficus macrophylla</i> fruits
<i>Pleistodontes imperialis</i> Saund.	..... <i>Ficus rubiginosa</i> fruits
Chalcididae	
<i>Stomatoceras pertorvum</i> Girault	..... A F
Encyrtidae	
<i>Aenasius advena</i> Compere	..... A
<i>Anagyrus nigricornis</i> Timb.	..... A
Pteromalidae	
<i>Muscidifurax raptor</i> Gir. & Sand.	..... A F
<i>Pachycrepoideus dubius</i> Ashm.	..... A
Miscogasteridae	
<i>Scutellista cyanea</i> Motsch.	..... A
Spalangidae	
<i>Spalangia lanaiensis</i> Ashm.	..... A C
<i>Spalangia philippinensis</i> Fullaway	..... A C D F
Eulophidae	
<i>Elachertus advena</i> Timb.	..... A
<i>Pleurotropis</i> sp.	..... A
Eumenidae	
<i>Odynerus sandwichensis</i> D. T.	..... A
Megachilidae	
<i>Megachile gentilis</i> Cresson	..... A