

Insects Collected in the Pineapple Growing Section on the
Island of Lanai, August, 1927

BY J. F. ILLINGWORTH.

(Presented at the meeting of November 4, 1927)

During three days in the vicinity of Lanai City I made as complete a collection of the insects as possible. I wish to present them here for record.

Class CRUSTACEA.

Family Oniscidae.

Porcellio laevis Latr. (sow bug or damp bug).

Armadillo hawaiiensis Dana (Spherillo) (pill bug).

Class ARACHNIDA.

Family Theridiidae.

Latrodectes mactans (hour-glass spider).

Class CHILOPODA (centipedes).

Family Geophilidae.

Mecistocephalus maxillaris (Gervais).

CLASS SYMPHYLA.

Family Scolopendrellidae.

Scutigerella immaculata (Newport).

Class HEXAPODA (insects).

Family Labiduridae.

Labidura riparia (Pallas) and *Euborellia annulipes* (Lucas).

Family Blattidae (cockroaches). I have never seen as many roaches anywhere else in Hawaii. Eight species are common in pineapple area. Most of these congregate in the fields, especially under mulching paper. They, apparently, have multiplied without limit in the old cactus beds. I was interested to see the great flocks of Minah following the tractors in cactus destruction. The birds kept as close as possible to the big chain, which turned over stumps, and pounced upon the hordes of cockroaches thus exposed. The species collected are:

Allacta similis (Sauss.).

Blattella germanica (Linn.) (German roach).

Cutilia soror (Brunn.).

Periplaneta americana (Linn.) (American roach).

Periplaneta australasiae (Fab.) (Australian roach).

Leucophaea maderae (Fab.) Madeira roach.

Pycnoscelus surinamensis (Linn.) (Burrowing roach).

Diploptera dytiscoides (Serv.) (Cypress roach).

Family Gryllidae.

Gryllodes sigillatus (Walk.).

Gryllus oceanicus LeG.

Family Libellulidae (dragon-flies).

Pantala flavescens Fab.

Family Pediculidae.

Haematopinus suis (Linn.) (hog louse).

Family Reduviidae.

Zelus renardii Kolenati (assassin bug).

Nysius delectus White.

Family Asiracidae.

Peregrinus maidis (Ashm.)

Perkinsiella saccharicida Kirk.

Family Coccidae.

Pseudococcus brevipes (Cockerell) (pineapple mealy bug).

Diaspis bromeliae (Kerner) (pineapple scale).

Family Hydrophilidae.

Dactylosternum abdominale (Fab.)

Family Elateridae (click beetles).

Monocrepidius exsul Sharp.

Family Nitidulidae.

Carpophilus humeralis (Fab.) (pineapple beetle).

Carpophilus maculatus Murray.

tion Annual Report, 1908, p. 36), and Swezey (Proc. Hawaiian Ent. Soc., vol. 5, p. 37, 1922).

The lesser chicken louse, *Goniocotes hologaster* Nitzsch, taken on both chickens and turkeys in Honolulu markets during November and December, 1926.

The large chicken louse, *Goniocotes gigas* Tasch., was taken on chickens at Waipio, December 14, 1926.

The slender louse of the turkey, *Lipeurus gallipavonis* Geoffroy (= *L. polytrapezius* Nitzsch *), was taken on turkeys in Honolulu market, December 16, 1926.

The large Lipeurus of the hen, *Lipeurus heterographus* Nitzsch, was collected on chickens in Honolulu, November 23, 1926.

The variable hen louse, *Lipeurus caponis* (Linn.) (= *L. variabilis* Nitzsch), was taken on chickens in Honolulu, Dec. 16, 1926.

All of these species are illustrated by Professor Glenn W. Herrick, in his work on "Some external parasites of poultry," Cornell Agric. Exper. Station, Bull. 359, 1915.

The synonymy marked with a (*) is from Essig, Insects of Western North America, pages 126-138, 1926.

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Carpophilus maculatus Murray.

- Family Colydiidae.
Colobicus parilis Pasc.
- Family Cucujidae.
Cryptamorpha desjardinsi (Guer.)
- Family Coccinellidae.
Rhizobius ventralis (Erich.) (Preys on mealy bugs).
Coelophora inaequalis (Fab.) (Feeds on plant lice).
- Family Scarabaeidae.
Adoretus sinicus Burmeister (rose beetle).
Pleurophorus parvulus Chev.
Aphodius lividus Oliver.
- Family Tenebrionidae (ground beetles).
Gonocephalum seriatum Boisduval.
Epitragus diremptus Karsch.
Alphitobius lateralis (Bohemian).
Blapstinus dilatatus Leconte.
- Family Anthribidae.
Aracecerus fasciculatus (DeG.)
- Family Curculionidae.
Pantomorus godmani (Crotch) (Olinda bug).
- Family Lycaenidae.
Lyaena boetica (Linn.).
- Family Pieridae.
Pontia rapae (Linn.) (cabbage butterfly).
- Family Pyraustidae.
Hymentia recurvalis (Fab.) (beet web worm).
- Family Sphingidae.
Celerio lineata (Fab.) (white-lined sphinx).
- Family Caradrinidae.
Cirphis unipuncta Haw. (cutworm).
- Family Tineidae.
Pyroderces rileyi (Walsingham) (budmoth).
Breunetis flavigaster Walsingham.
Petrochroa dimorpha Busck.
- Family Chironomidae.
Apelma brevis Johannsen.
- Family Stratiomyidae.
Neoexaireta spinigera (Wied.) (soldier fly).
- Family Dolichopodidae.
Psilopus patellifer Thomson (long-legged flies).
- Family Syrphidae.
Volucella obesa (Fab.)
Eristalis punctulatus Macq.
- Family Muscidae.
Musca vicina Macq. (oriental house-fly).
Stomoxys calcitrans (Linn.) (stable fly).
Haematobia irritans (Linn.) (horn fly).

- Family Sarcophagidae (flesh flies).
Sarcophaga barbata Thomson.
Sarcophaga fuscicauda Böttcher.
Sarcophaga dux Thomson.
Sarcophaga pallinervis Thomson.
- Family Tachinidae (parasitic flies).
Archytas cirphis Curran.
Chaetogaedia monticola (Bigot).
- Family Calliphoridae (blow flies).
Lucilia sericata Meign. (British sheep maggot fly).
Chrysomyia megacephala (Fab.) (oriental sheep maggot fly).
Chrysomyia albiceps Wied. (Australian sheep maggot fly).
- Family Anthomyiidae.
Atherigona excisa Wied.
Hylemyia ciliarura Rondani.
Ophyra nigra Wied.
Fannia pusio Wied.
- Family Ortalidae.
Euxesta annonae (Fab.)
Notogramma stigma (Fab.)
- Family Drosophilidae.
Drosophila repleta Woll.
- Family Trypetidae.
Dacus cucurbitae Coquillett. (melon fly).
- Family Agromyzidae.
Milichiella lacteipennis (Loew)
- Family Borboridae.
Limosina venalicia (Osten-Sacken).
- Family Chalcididae.
Chalcis obscurata Walk.
Stomatoceras pertorvum Girault.
- Family Braconidae.
Chelonus blackburni Cameron.
- Family Ichneumonidae.
Cremastus hymeniac Vier.
- Family Evanidae.
Evania servaea Cameron.
- Family Formicidae. (ants).
Phidole megacephala (Fab.) (Pheidole ant).
Cardiocondyla nuda Mayr. var. *minutior* Forel.
Tapinoma melanocephalum (Fab.).
Prenolepis sp.
- Family Psammocharidae.
Psammochares luctuosus (Cresson).
- Family Scoliidae.
Scolia manilae Ashmead (Adoretus parasite).

Family Vespidae.

Polistes macaensis (Fab.)

Polistes aurifer Sauss.

Family Eumenidae.

Pachodynerus simplicicornis (Sauss.)

Odynerus rubritinctus Sm. (Det. Swezey).

Odynerus insulicola Blkb (Det. Swezey).

Odynerus nautarum Sauss. (Det. Swezey).

Family Crabronidae.

Xenocrabro mandibularis (Sm.).

Family Prosopidae.

Nesoprosopis lacta Perk. (wild bee.)

Family Andrenidae.

Xylocopa varipuncta Patton (carpenter bee).

Family Apidae.

Apis mellifica Linn. (honey bee).