

Diacalandra taitense (Guer.). Sometimes occurs in the husk of the coconut, but usually bores in the bases of the leaf stems.

Scolytidae

Coccotrypes dactyliperda (Fab.). Feeds extensively in seeds of date palms and to some extent in seeds of other palms. Has been reared from the following: *Phoenix dactylifera*, *Livistona chinensis*, *L. rotundifolia*, *Oreodoxa regia*, *Washingtonia filifera* and *Pritchardia pacifica*.

Coccotrypes pygmaeus (Erich.). Has been reared from the seeds of the following palms: *Phoenix dactylifera*, *Livistona chinensis*, *Sabal palmetto*, *Sabal blackburniana*, *Coccolrinax argentea*, *Pritchardia thurstoni*. It has also been found infesting stored almonds.

A Day on Mt. Olympus

BY O. H. SWEZEY

(Presented at the meeting of April 4, 1935)

Mt. Olympus and vicinity was at one time my favorite collecting ground for insects of the native forest on the island of Oahu. It was accessible by the Castle trail which led up from Pauoa Flats to follow the main range along to Mt. Olympus and then down into Palolo Valley. Since this trail was closed to hikers in 1922, on account of being within a water reserve, I had not visited the region. Having recently complied with the necessary requirements for obtaining a pass to enter water reserves, Dr. Williams and I spent the day March 31 on a collecting trip up the ridge from Manoa Valley to the summit of Olympus, and on the main ridge in both directions from the peak. I was greatly interested to find that the collecting was as good as it used to be 13 years previously. I collected on the various kinds of trees and shrubs with the following results, over 50 species of insects being collected, or their presence noted:

SUTTONIA LESSERTIANA

Proterhinus excrucians Perkins was abundant in dead twigs. Six adults were collected, and in a bunch of dead twigs carried home for examination, 11 adults, 10 pupae and 11 larvae were found, also a parasite larva which matured 25 days later on as *Toxeuma* sp.

BROUSSAISIA ARGUTA

Proterhinus swezeyi Perkins. Two specimens were collected from dead twigs, not far from the place where the *type* of the species was obtained in 1917.

Proterhinus phyllobius Perkins. Seven specimens were collected from the leaves. Their mines were very abundant in the leaves.

Oodemas aenescens Boh. Six specimens were collected from dead twigs, and 1 specimen which seemed to be the var. *kahanae* Perkins.

The following were obtained by beating:

- 2 small staphylinids. Predacious beetles.
- 1 *Ilburnia sharpi* (Muir). Delphacid leafhopper.
- 2 *Leialoha ohiae* (Kirk.). Delphacid leafhopper. (Accidental, as it is attached to lehua.)
- 7 *Nesophrosyne* sp. Cicadellid leafhopper.
- 1 *Oliarus kaonohi* Kirk. Cixiid leafhopper.
- 7 *Eupelmus* sp. A male specimen and therefore undeterminable.
- 1 Dolichopodid fly.

KADUA CORDATA

Aristotelia sp. One larva in mine. Died before maturing.

PELEA ROTUNDIFOLIA

Opostega callosa Swezey. Mines of this small moth in the leaves.

PELEA WAWRAEANA (?)

Opostega serpentina Swezey. Four mines in leaves with about full-grown larvae which issued a few days later but died without making cocoons.

6 **Hevaheva perkinsi** Kirk. Orange psyllid on leaves without making galls.

1 **Nesophrosyne** sp. Cicadellid leafhopper.

METROSIDEROS POLYMORPHA

6 **Leialoha ohiae** (Kirk.). Delphacid leafhopper.

1 **Nitidulid** beetle.

BIDENS SP.

3 **Oodemus aenescens** Boh. Adults in hollow dead stems.

PRITCHARDIA MARTII

3 **Megatrioza palmicola** Crawf. Large psyllid on leaves.

Aspidiotus lataniae Sign. Scale insect on seeds.

FREYCINETIA ARBOREA

6 **Iburnia halia** (Kirk.). A delphacid which oviposits in the leaves. Twenty-three egg-parasites, *Polynema ciliata* Perkins, were reared from leaves brought in.

Insects as follows were found at the bases of the leaves and in the wet debris accumulated there:

1 **Rhyncogonus koebelei** Perkins. Found in hiding by Dr. Williams.

Megalagrion asteliae (Perkins).

Megalagrion koelense (Blackb.). Nymphs of these two damselflies were collected by Dr. Williams. They are predacious on other insects.

1 **Metrarga contracta** Blackb. A predacious bug. Collected by Dr. Williams.

2 Small black mirid bugs.

- 4 **Metromenus palmae** Blackb. Carabid beetles. Predacious.
 4 Undetermined staphylinid beetles.
 4 **Eupetinus omalioides** (Sharp). Nitidulid beetle. Scavenger.
 10 **Nesopetinus discedens** (Sharp). Nitidulid beetle. Scavenger.

CIBOTIUM CHAMISSOI

- 1 **Proterhinus longulus** Sharp. Feeds in dead frond stems.
 4 **Proterhinus blackburni** Sharp. Feeds in dead frond stems.
Pentarthrum prolixum Sharp. Feeds in dead frond stems. Common.

A nitidulid beetle.

- 4 **Metromenus palmae** Blackb. In dead stems. Predacious.
 1 **Dromoeolus cephalotes** (?). Found caught in spider's web.

GOULDIA SP.

- 3 **Oodemias aenescens** Boh. In dead twigs.
 5 **Proterhinus excrucians** Perkins. In dead twigs.
 1 Mirid bug. From the leaves.
 1 **Leialoha ohiae** (Kirk.). (Accidental).
 1 **Ilburnia** sp. Delphacid leafhopper.
 1 **Eupelmus** sp. Undeterminable male.

SCAEVOLA GAUDICHAUDIANA

- 1 **Nesophrosyne** sp. Cicadellid leafhopper.
 1 **Eupelmus axestops** Perkins. Swept from foliage. Parasite in *Banza* eggs.

SYZYGIVM SANDWICENSE

- 1 **Proterhinus deceptor** Perkins. In dead twigs.
 1 **Toxeuma** sp. (?) Probably a parasite of the above.
 1 **Aphaereta kona**e Ashm. A parasite of Diptera.

BOEHMERIA STIPULARIS

- 1 *Ilburnia sharpi* (Muir). Delphacid leafhopper.
 1 *Nysius* sp. A plant bug.

DUBAUTIA LAXA PSEUDOPLANTAGINEA

- 14 *Aloha dubautiae* (Kirk.). Delphacid leafhopper. Very numerous in all stages.
 35 *Polynema* sp. A new species with rudimentary wings issued from leaves containing eggs of above.
 24 *Parectopa epibathra* (?) Reared from mines in leaves which were very abundant.
 22 *Necremnus* sp. (?) Issued from mines as a parasite of the above.
 39 *Secodella metallica* (Ashm.). Issued from leafmines as a parasite of *Parectopa*.

1 Thrips.

A few yellow mycetophilid (?) larvae were in moisture at bases of leaves.

ACACIA KOA

Elimaea punctifera (Walker). Three eggs in a phyllode with exit holes of an egg-parasite, *Ufens elimaeae* Timb.

ELAPHOGLOSSUM GORGONEUM

Heteramphus swezeyi Perkins. Fronds were collected with 27 mines of this weevil. On examination April 3 results were as follows:

- 7 mines contained living *Heteramphus* larvae.
 - 2 mines contained dead *Heteramphus* larvae.
 - 13 mines had exit holes from which parasites had issued.
 - 2 mines contained 3 adult parasites, *Secodella metallica* (Ashm.).
 - 2 mines contained pupae of *Secodella*.
 - 1 mine contained a parasite larva which matured April 20 as *Eupelmella subaptera* (Ashm.).
- A parasitism of 66 percent.