

Some Injurious Insects in Samoa Which Do Not Occur in the Hawaiian Islands

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While on an entomological survey trip in the Samoan Islands during June, July and August, 1940, Mr. Zimmerman and I noted quite a number of injurious insects which do not occur in Hawaii, some of which would no doubt prove detrimental if they should by chance become established here. The most important of these may be listed by crops or food plants as follows:*

SUGAR CANE

- Perkinsiella vitiensis* Kirk. Leafhopper.
Neomaskellia bergii (Sign.). Aleurodid on leaves.
Cosmopteryx dulcivora Meyr. Tiny moth whose larvae tunnel the midribs.
Melanitis leda solandra (Fab.). Butterfly whose green caterpillars feed on cane leaves. It was found on *Miscanthus* also.

COCONUT

- Oryctes rhinoceros* (Linn.). The large beetle which feeds in the growing top of tree.
Promecotheca reichei Baly. Hispid leafminer.
Graeffea crouani Le Guill. Walking stick insect which feeds on leaves, giving ragged appearance.
Pseudococcus cocotis (Mask.). Mealybug.
Agonoxena argaula Meyr. Small moth whose caterpillars make numerous elongate dead spots on the leaves.
Trachycentra calamias Meyr. Caterpillars feed in tops of coconut trees.

CORN

- Marasmia trapezalis* (Guenée).
Marasmia venialialis (Walk.). Leafrollers, the second one very abundant on grasses also.
Phytomyza spicata Mall. Dipterous leafminer.
Adoretus versutus Har. The beetles feed on the leaves, also on many other plants, similar to what *Adoretus sinicus* does in Hawaii.

* A list with more detailed notes, and illustrations, was printed in "The Hawaiian Planters' Record," XLV, No. 1, pp. 25-38, 1941.

BANANA

Nacoleia octasema (Meyr.). The scab moth. Larvae are very injurious to the growing fruits.

Cosmopolites sordidus (Germ.). Black weevil whose larvae feed in banana sprouts and stumps.

TARO

Prodenia litura (Fab.). The caterpillars often feed in hundreds on the leaves.

Hippotion celerio (Linn.). Hawkmoth whose caterpillars feed on the leaves commonly.

BEANS

Nacoleia diemenalis (Guen.). Leafroller.

Acrocercops sp. (?) Leafminer.

Azasia rubricans (Boisd.). Semilooper caterpillars on *Vigna marina*.

Jamides argentina (Prittw.). Butterfly whose larvae feed in blossoms of beach bean, *Vigna marina*.

Green pentatomid bug. A large unidentified bug.

SWEET POTATO

Herse convolvuli (Linn.). Hawkmoth whose caterpillars feed on morning-glory vines also.

Precis villida villida (Fab.). Butterfly having black spiny caterpillar feeding on sweet potato leaves.

Bedellia sp. An undetermined leafminer, different from the species in Hawaii.

Acrocercops homalacta Meyr.). A more abundant leafminer, also mining morning-glory leaves.

Ercta ornatalis (Dupon.). A pyralid, also on morning-glory.

Cassida strigula Montr. A leafbeetle, feeding also on morning-glory vines.

PUMPKIN, SQUASH, ETC.

Epilachna 28-punctata (Fab.). A leaf-feeding coccinellid, often very destructive to pumpkin vines.

Aulacophora similis Oliv. A leafbeetle, often abundant.

Greenbug. The same as on beans above.

Agromyzid. A leafminer in a wild vine resembling cucumber. Mines abundant.

TOBACCO, TOMATO, PHYSALIS

Heliothis assulta Guenee. Caterpillars abundant on tobacco leaves; also feed in green tomatoes and Physalis fruits.

GUAVA

Spilonota holotephras Meyr. A tortricid moth whose larvae feed in terminal twigs, webbing the leaves together.

Dacus psidii Froggatt. Fruitfly infesting strawberry guavas.

PAPAYA

Dacus xanthodes Broun. Fruitfly previously reared from papaya.

CACAO

Hypsipyla swezeyi Tams. A phycitid moth whose larvae feed on seeds in ripened pods.

GRASSES

Spodoptera mauritia (Boisd.). Armyworm.

Marasmia venialialis (Walk.), *Marasmia trebiusalis* (Walk.). Leaf-rollers.

Cosmopteryx mimeticus Meyr. Lepidopterous leafminer in nut-grass.

Phytomyza spicata Mall. Dipterous leafminer in Bermuda grass and several other grasses.

Sogata kirkaldyi (Muir), *S. eupompe* (Kirk.), *S. ochrias* (Kirk.), *Delphacodes dryope* (Kirk.). Leafhoppers on low coastal grasses.

HAU (*Hibiscus tiliaceus*)

Sylepta derogata (Fab.). A leafroller. Also on common hibiscus.

Cosmophila flava flava (Fab.). A green looping caterpillar. Also on common hibiscus.

Acrocercops sp. A common lepidopterous leafminer.

Mesohomotoma hibisci (Froggatt). A large green psyllid.

Chrysomelid (undetermined species). A leafbeetle whose adults and larvae feed in terminal buds.

CROTON

Aleuroplatus samoanus Laing. An abundant whitefly.

ERYTHRINA

Othreis fullonia (Clerck). A moth whose large black, prettily-marked caterpillars feed on the foliage.

Argyroplote rhynchias (Meyr.). A large tortricid moth whose larvae feed on the seeds in the pod on the tree.

CALOPHYLLUM INOPHYLLUM

Leptynoptera sulfurea Crawford. A delicate psyllid common on young leaves.

TERMINALIA CATAPPA

Thiotricha strophiacma Meyr. A minute whitish moth whose larvae feed beneath shields which they have cut from the leaf, leaving neat perforations in the blade of the leaf.

Adoretus versutus Harold. A nocturnal scarabeid beetle feeding extensively on the leaves.

COLEUS

Psara stultalis (Walk.). An abundant leafroller.

AGERATUM CONYZOIDES

Homoeosoma ephestidiella Hamps. A small gray phycitid moth whose larvae feed in the flower heads.

Spathulina acroleuca Schiner. A pretty little trypetid fly whose larvae feed on the growing seeds in flower heads.

Records of Immigrant Insects for the Year 1940

BY THE EDITOR

In this issue of the Proceedings, the following immigrant species are recorded for Hawaii. Those marked with an asterisk were observed for the first time at the date mentioned in 1940. The others were previously observed or known but not yet identified. For details of records, etc., refer in the text to the pages as given.

	PAGE
<i>Autographa brassicae</i> Riley (Lep.).....	3
* <i>Amblyteles</i> sp. (Hym.).....	5
* <i>Cycloptilum bimaculatum</i> (Shiraki) (Orthoptera).....	17
<i>Sarcophaga albiceps</i> Meigen (Diptera).....	56
<i>Sarcophaga orientaloidea</i> Senior-White (Diptera).....	56
* <i>Iridomyrmex humilis</i> Mayr (Hym.).....	108
<i>Bregmatothrips venustus</i> Hood (Thysan.).....	38
* <i>Dendrothripoides ipomeae</i> Bagnall (Thysan.).....	38