

Recent Additions to the List of Insects which Attack Crops and Other Important Plants in Guam

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Up-to-date information on the occurrence and importance of the insect pests affecting crops in Guam is not readily available. Many surveys and collections have been made by competent entomologists, but their findings, in general, are to be found in separate and unrelated publications (see bibliography), and much information has not yet appeared in print. This paper is an attempt to provide a reference to the economic insects collected on the island during recent years together with their plant hosts.

Those species marked with an asterisk are serious pests. Natural enemies of the pests listed, which are known to attack them in Guam, have been included. Those species which are considered to be important in the control of their hosts are marked with a dagger.

HEMIPTERA

Coreidae

Acanthocoris clavipes (F.)*

Hosts: eggplant, tomato, pepper, citrus.

Riptortus sp.

Hosts: beans, cowpea, pigeonpea, eggplant.

Cicadellidae

Empoasca sp.*

Hosts: beans, eggplant, okra, pepper, cucurbits, tomato, taro, cowpea, pigeonpea, crucifers.

Aphididae

Aphis medicaginis Koch*

Hosts: beans, peanut.

¹ The author was staff entomologist for the Guam Department of Agriculture from April, 1951, to May, 1955.

Predators: *Harmonia arcuata* (F.)†, *Coelophora inaequalis* (F.)†, *Ischiodon scutellaris* (F.)†.

Myzus persicae (Sulzer)*

Hosts: eggplant, beans.

Predators: *Harmonia arcuata* (F.)†, *Coelophora inaequalis* (F.)†, *Ischiodon scutellaris* (F.)†.

Rhopalosiphum pseudobrassicae (Davis)*

Hosts: crucifers.

Predators: *Harmonia arcuata* (F.)†, *Coelophora inaequalis* (F.)†, *Ischiodon scutellaris* (F.)†, *Syrphus pusillus* Macquart.

Aleyrodidae

Aleurocanthus spiniferus (Quaintance)*

Hosts: citrus, rose, grape, flowering apple, peach, pear.

Parasites: *Amitus hesperidum* Silvestri†, *Prospaltella smithi* Silvestri†.

Coccidae

Pulvinaria sp.*

Hosts: eggplant, pepper, sweet potato.

Predators: *Cryptolaemus montrouzieri* Mulsant†.

Saissetia oleae (Bernard)

Hosts: *Erythrina* spp., hibiscus, croton, eggplant.

Parasites: *Tomocera californica* Howard.

Diaspididae

Pinnaaspis strachani (Cooley)*

Hosts: pepper, eggplant, hibiscus, okra, poinsettia.

Pseudaulacaspis pentagona (Targioni)*

Hosts: cassava, pepper, eggplant.

COLEOPTERA

Coccinellidae

Epilachna philippinensis Dieke*

Hosts: eggplant, tomato, pepper, potato, zinnia, *Bauhinia* sp.

Parasite: *Pleurotropis epilachnae* Rohwer†.

Anobiidae

Lasioderma serricorne (F.)

Hosts: stored foods, grain drying in field, tobacco.

Sitodrepa panicea (L.)

Hosts: stored vegetable products.

Ostomidae

Tenebroides mauritanicus (L.)

Hosts: stored grains and grain products.

Tenebrionidae

Tribolium castaneum (Herbst)*

Hosts: stored grains and grain products.

Tribolium confusum Duval*

Hosts: stored grains and grain products.

Tribolium ferrugineum (F.)*

Hosts: stored grains and grain products.

Scarabaeidae

Adoretus sinicus Burmeister*Hosts: banana, beans, corn, grape, eggplant, okra, taro, rose, croton, citrus, *Terminalia catappa* L., cowpea, pigeonpea, cabbage, broccoli, hibiscus.Parasite: *Campsomeris marginella modesta* Smith†.*Protaetia fusca* Herbst

Hosts: mango, beans, eggplant.

Chrysomelidae

Aulacophora quadrimaculata (F.)*

Hosts: cucurbits.

Aulacophora similis (Olivier)*

Hosts: cucurbits.

Cassida circumdata F.

Hosts: sweet potato, yam.

Colasposoma metallicum rugiceps Lefevre

Hosts: sweet potato, eggplant, cucurbits.

Pagria signata (Motschulsky)

Hosts: beans.

Mylabridae

Callosobruchus maculatus (F.)

Hosts: dried beans.

Parasite: *Aplastomorpha calandrae* Howard†.

Curculionidae

Amorphaidea sp.

Hosts: okra, hibiscus.

Anthribidae

Araecerus simulatus Gyllenhal*Hosts: Koa haole (*Leucaena glauca* (L.) Bentham), dried cowpeas.

LEPIDOPTERA

Papilionidae

Papilio polytes L.* *P. xuthus* L.*

Host: citrus.

Hesperiidae

Badamia exclamationis F.

Host: *Terminalia catappa* L.

Sphingidae

Hippotion celerio L.

Host: taro.

Phycitidae

Ephestia kubniella Zeller

Hosts: stored foods.

Plodia interpunctella (Hübner)*

Hosts: stored foods.

Crambidae

Crambus malacellus Duponchel

Hosts: grasses.

Plutellidae

Plutella maculipennis Curtis*

Hosts: crucifers.

Phalaenidae

Erebus odora L.

Host: monkey pod.

Sitotroga cerealella (Olivier)*

Hosts: stored grains and grain products.

Parasite: *Habrocytus cerealellae* Ashmead†.

Tineidae

Bedellia somnulentella (Zeller)*

Host: sweet potato.

Gracilariidae

Prays endocarpa Meyrick

Host: citrus.

DIPTERA

Tephritidae

Dacus dorsalis Hendel*

Hosts: papaya, citrus, mango, soursop, sweetsop, tomato, melons, guava, breadfruit, avocado, banana, *Terminalia catappa* L.

Agromyzidae

Liriomyza sp.*

Hosts: crucifers.

Melanagromyza phaseoli (Coquillett)*

Hosts: beans.

Melanagromyza sp.

Hosts: crucifers.

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