

Host Plant Records of Some Kauai Lepidoptera

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On three different occasions I have spent from 2 to 5 weeks in the Kokee plateau region on the Island of Kauai: August 18 to Sept. 1, 1921; August 1 to 20, 1925; June 14 to July 19, 1932; also 3 days in March, 1928. This region with the colony of summer homes is well supplied with trails leading in all directions into forest of varying conditions from the dry ridges of Milolii and Nualolo to the wetter forests leading to the Alakai Swamp, and the waterlogged swamp itself, mostly covered with forest. All of this supplies a wide range of forest flora and provides most productive insect collecting. On each occasion, I have reared as many as possible of caterpillars found on the various trees, shrubs and plants. Herewith are records of these, as well as records of the parasites reared from some of them. There are a few records from other localities on Kauai also. The list includes 52 species.

NOCTUIDAE

Euxoa hephaestaea (Meyr.)

Reared from larvae on the leaves of *Wikstroemia*, Kalalau Trail, June 23, 1932. It seems remarkable for larvae of a species of the cutworm group to feed on foliage of a tree, remaining on the leaves until finishing their growth. I have found the caterpillars of this moth also on *Wikstroemia* on both mountain ranges of Oahu, and on Molokai.

HYDRIOMENIDAE

Eucymatoge monticolans (Butl.)

Reared from green caterpillars on *Cyathodes*, Kokee, June 19 and Kumuweia, June 19, 23, 25, 1932; from *Pipturus*, Kauaikoi, June 30, 1932; from *Dubautia* n. sp., June 25, 1932. The tachinid *Chaetogaedia monticola* was reared from one larva, Kumuweia, August 18, 1925.

SELIDOSEMIDAE

Scotorythra arboricolans Butl.

Reared from caterpillar on *Santalum pyrularium*, Halemanu, June 22, 1932.

Scotorythra isospora Meyr.

Rearred from caterpillars on *Acacia koa*, Nualolo, Aug. 4, 1925; Kumuweia, June 18, 1932.

Scotorythra trapezias Meyr.

Rearred from caterpillars on *Dodonaea*, Kokee, Aug. 18, 1921, Aug. 1, 1925; Kumuweia, Aug. 13, 1925, July 7, 1932. Two tachinids, *Chaetogaedia monticola*, were rearred from caterpillars at Kumuweia, Aug. 3, 1925.

LYCAENIDAE

Lycaena blackburni (Tuelv)

Rearred from a caterpillar on *Pipturus*, Nualolo, June 16, 1932. *Acacia koa* is the usual host for this butterfly.

PHYCITIDAE

Homoeosoma amphibola Meyr.

The caterpillars were very abundant in the flower heads of *Wilkesia gymnoxiphium*, a shrub peculiar to that portion of Kauai. The plants die after flowering, and these caterpillars continue their feeding in the pith of the dead stems, where they form cocoons in which to pupate. They appear to lie dormant for an extended period in the cocoons, possibly until the next flowering season, but I have not had the opportunity to determine this. Milolii, Aug. 7, 1925, July 2, 1932; Halemanu, Aug. 14, 1925. At Halemanu, Aug. 14, 1925, a number of parasites were rearred from cocoons, being an undetermined species of *Sierola*.

Homoeosoma bidensana Swezey

Rearred from caterpillars boring the stems of *Bidens cosmoides* at Kumuweia, June 25 and July 15, 1932; Nualolo, June 26, 1932.

PYRAUSTIDAE

Omiodes asaphombra Meyr.

Rearred from caterpillar on *Joinvillea adscendens* leaves, Alakai Swamp, Aug. 22, 1921.

Omiodes accepta (Butl.)

Rearred from leafroller caterpillars on the grass *Panicum nephelephilum*, Kumuweia, June 27, 1932. A tachinid, *Frontina archipivora*, was rearred from one caterpillar.

Omiodes monogramma Meyr.

Rearred from leafrollers on *Dianella odorata*, Kumuweia, Aug. 2, 1925; June 30, 1932.

Omiodes blackburni (Butl.)

Infesting coconut leaves at Lihue, Aug. 22, 1925. Abundantly parasitized by *Cremastus flavo-orbitalis* (Cam.).

Phlyctaenia iocrossa Meyr.

Reared from caterpillar on leaves of *Cyrtandra*, Halemanu, June 22, 1932.

Phlyctaenia stellata (Butl.)

Reared from caterpillars on *Pipturus*, Kumuweia, June 30, 1932.

Phlyctaenia argoscelis (Meyr.)

Reared from caterpillars on *Rumex*, Kokee, Aug. 18, 1921.

Phlyctaenia despecta (Butl.)

Reared from leafroller caterpillar on leaves of *Bidens cosmoides*, Kumuweia, Aug. 28, 1921.

Phlyctaenia pyranthes Meyr.

The leaves of *Vaccinium penduliflorum gemmaceum* at Kumuweia, June 18, 1932, were much eaten by caterpillars of this moth, but none was reared. Moths were collected at light.

Mecyna virescens Butl.

Reared from caterpillars on leaves of *Sophora chrysophylla*, Nualolo, June 26, 1932.

Promylaea quadrifasciata Swezey

Adults of this new species were collected in Alakai Swamp, July 14, 1932. Not reared.

Maruca testulalis (Geyer)

Reared from caterpillars in string bean pods, Waimea, Aug. 6, 1925.

PTEROPHORIDAE

Platyptilia pusillidactyla Walker

Reared from lantana flower heads, Nawiliwili, Sept. 9, 1921.

TORTRICIDAE

Archips postvittanus (Walk.)

Reared from leafroller on *Wikstroemia*, Kumuweia, Aug. 1, 1925; on *Santalum* and *Wilkesia*, Halemanu, June 22, 1932.

Argyroploce illepada (Butl.)

Reared from seeds of *Acacia koa* in the pods on the tree, Kokee, June 22, 1932.

Eulia chlorippa Meyr.

Reared from caterpillars on leaves of *Suttonia*, July 4, 1932.

Eulia dermatopa Meyr.

Reared from caterpillars on leaves of *Suttonia*, Kokee, Aug. 18, 1921.

***Eulia lysimachiae* Swezey**

Reared from caterpillars on leaves of *Lysimachia glutinosa*, trail to Kalalau, June 23, 1932.

***Spheterista* n. sp.**

Reared from caterpillars on leaves of *Cheirodendron gaudichaudii*, July 5, 1932.

***Dipterina fulvosericæ* Walsm.**

Reared from caterpillars on the leaves of *Xylosma*, Kumuweia, July 5, 1932.

***Epagoge infaustana* Walsm.**

Reared from caterpillars on terminal leaves of *Pipturus*, Kumuweia, July 9, 1932. *Angitia blackburni* (Cam.) was reared from two larvae of this moth, Kumuweia, Aug. 16, 1925.

Capua picta* Walsm. ♂**Capua flavopicta* Walsm. ♀**

These might be the same species. They were both reared from caterpillars on *Santalum* leaves, Kumuweia, Aug. 13, 1925. There is similar difference in wing pattern of the sexes of *Capua santalata* Sw. on Oahu.

***Capua pterotropiana* Swezey**

Reared from caterpillars in terminal buds of *Pterotropia kauaiensis*, Halemanu, June 22, 1932.

***Capua oheoheana* Swezey**

Reared from very small caterpillars in dead twigs of *Pterotropia kauaiensis*, Halemanu, June 29, 1932. An undetermined *Sierola* was reared from some of them.

***Capua* sp.**

Reared from caterpillar on leaves of *Tetraplasandra*, Milolii, Aug. 1, 1925.

CARPOSINIDÆ

***Heterocrossa graminis* Walsm.**

Reared from larvae in terminal buds of *Metrosideros*, Kumuweia, June 24, 1932.

***Heterocrossa* n. sp.**

Reared from *Metrosideros* seeds, Kumuweia, June 24, 1932.

***Heterocrossa* sp.**

Reared from terminal bud of *Bobea mannii*, Kumuweia, June 19, 1932.

***Heterocrossa* sp.**

Reared from the seeds of *Alphitonia ponderosa*, Halemanu, June 22, 1932.

HYPONOMEUTIDAE

Aphthonetus prae fracta Meyr.

Reared from *Pipturus* bark, Kumuweia, March 10, 1928.

Bubaloceras pritchardiae Swezey

Reared from caterpillars feeding in the fulvous cottony tomentum which is abundant on the inflorescence of *Pritchardia eriophora*, Kumuweia, July 1, 1932.

Hyposmocoma hygroscopta Meyr.

Reared from *Eucalyptus* bark, Halemanu, Aug. 27, 1921.

Hyposmocoma palmivora Meyr.

Reared from leaves of *Pritchardia eriophora*, Kumuweia, July 1, 1932. The larvae and pupae were abundant where the larvae were feeding amongst the abundant yellowish cottony tomentum on the underside of the leaves, particularly between the folds of the leaf. The larvae were free-living, not in cases as are the larvae of many species of *Hyposmocoma*.

Hyposmocoma chilonella Walsm.

Reared from a pupa in dead tree, trail to Kalalau, Aug. 15, 1925.

Semnoprepia petroptilota Walsm.

Reared from dead *Pelea*, Kumuweia, June 30, 1932; from rotten log, Kumuweia, Aug. 8, 1925; June 29, July 4, 1932; from rotten log, Kokee, Aug. 18, 1921; from lehua log, Kalalau Trail, Aug. 13, 1925.

Semnoprepia fulvogrisea Walsm.

Reared from dead *Pelea*, Nualolo, June 16, 1932.

Mapsidius auspicata Walsm.

Reared from leaves of *Charpentiera*, Mohihi, Aug. 17, 1925.

Mapsidius iridescens Walsm.

Reared from leaves of *Charpentiera*, Kumuweia, June 25, 1932. Three tachinids, *Frontina archippivora*, were reared from larvae at the same place.

TINEIDAE

Acrolepia aiea Swezey

A leafminer in *Nothocestrum latifolium*, Kumuweia, July 15, 1932.

Philodoria micropetala Walsm.

A leafminer in *Pipturus*, Kokee, Aug. 23, 1921; Kumuweia, Aug. 1, 1925.

Parectopa neraudicola (Swezey)

A leafminer in *Pipturus*, Olokele Canyon, Aug. 21, 1925. A single imperfect specimen reared, which appears to be this species.

Parectopa haucicola (Swezey)

A leafminer of the hau tree (*Hibiscus tiliaceus*), Wailua, Sept. 8, 1921.

Parectopa naenaeiella Swezey

A leafminer of *Dubautia*. One specimen reared from *Kadua*, Kumuweia, Aug. 2, 1925. A parasite (*Secodella metallica*) was reared.

Bedellia n. sp.

A leafminer in *Dianella odorata*, Kokee, Aug. 19, 1921; Milolii, Aug. 7, 1925.

A New Immigrant Lygaeid Bug in Hawaii

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(Presented at the meeting of October 12, 1942)

In a collection of insects being determined for Mr. K. Sakimura, was found a bug not previously known in the Hawaiian Islands. This collection of insects was obtained in windtraps which Mr. Sakimura was operating in pineapple fields in the Kunia district of Oahu. This particular bug was labelled July 21, 1942. Mr. Sakimura said that there were more of them, but he had only saved samples of the insects found in his traps. This bug is provisionally determined as *Graptostethus nigriceps* Stal, the name used in "Insects of Samoa" for what apparently is the same species of the family Lygaeidae.

In India, what may be the same insect under the name *Graptostethus servus* (Fab.) is reported on red gram, sweet potatoes and jute capsules, though not a serious pest. At the Experiment Station, H.S.P.A., are 70 specimens of the same, or a closely related species, which were collected by Mr. F. Muir in April, 1909, at Laloki, New Guinea, where there was an experimental planting of cotton. This suggests the possibility of its being a cotton pest, though Mr. Muir made no mention of what food plant the large series was taken from. Among these New Guinea specimens are some which exactly agree with the figure of *G. servus* in the "Fauna of British India", Rhynchota, II, p. 8, 1904. There is considerable variation in color pattern in this New Guinea lot, perhaps enough to account for the different specific names and varieties which have been used in various localities for this kind of bug. Yet it would