

A NEW CITRUS CAMBIUM MINER FROM PUERTO RICO

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The species described below was reared by Dr. G. N. Wolcott from larvae working as cambium miners in grapefruit twigs about the diameter of one's finger and causing a darkened discoloration of the twigs. The larvae of this Itonid made cocoons in the soil July 11 and the adults emerged July 15, 1931 at Isabela, Puerto Rico. The material was submitted for study later that month by Dr. M. D. Leonard, Chief Entomologist of the Insular Experiment Station, Río Piedras.

The species is rather closely related to the West Indian *Asynapta mangiferae* Felt, a species reared from larvae working under the bark of small twigs of grafted mango, probably *Mangifera indica*. (See Entomological News, 20:299. 1909.)

Asynapta citrinae new species.

The new species may be differentiated by the larger number of antennal segments, the longer stem of the fifth antennal segment and the decidedly shorter length of the enlargement in the male, and the decidedly longer subcylindrical fifth antennal segment in the female.

Larva. Length, 3 mm., yellowish white, tapering anteriorly, a rudimentary breast bone, posterior extremity truncate, ventrally indistinctly bilobed.

Male. Length, 1.75 mm. Antennae as long as the body, sparsely haired, fuscous yellowish; 24 segments, the fifth with a stem as long as the basal enlargement, the latter with a length one-fourth greater than the diameter; the terminal segment reduced, the basal portion with a length about three-fourths its diameter, apically short and stout. Palpi; first segment subquadrate with a length about twice the diameter, the second a little longer than the first, more slender, the third one-half longer than the second, more slender, the fourth one-fourth longer than the third and more slender. Head fuscous yellowish, eyes large, black. Mesonotum, fuscous yellowish. Scutellum and postscutellum, yellowish. Abdomen, fuscous yellowish, the segments rather thickly haired distally. Genitalia yellowish. Wings hyaline. Halteres pale yellowish. Coxae and femora mostly pale yellowish, tibiae and tarsi pale straw. Claws stout, unidentate. The pulvilli rudimentary. Genitalia indistinct in the preparation.

Female. Length, 1.75 mm. Antennae about three-fourths the length of the body, thickly haired, pale yellowish; 24 subsessile segments, the fifth with a length one-fourth longer than the diameter; the terminal segment somewhat produced, narrowly conical, with a length nearly twice its diameter. Palpi; pra-

tically as in the male. Head, pale yellowish, eyes large, black. Mesonotum, pale orange yellow. Scutellum and postscutellum, yellowish white. Abdomen, pale yellowish. The ovipositor short, basal lobe subquadrate with a length about one-half greater than its diameter, the terminal lobe narrowly oval, sparsely haired. Wings hyaline. Halteres pale yellowish. Coxae and femora basally whitish, the femora distally, tibiae and tarsi pale straw.

Types deposited in the United States National Museum.