

APHIDIDAE AND ALEURODIDAE OF GUAM

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FAMILY APHIDIDAE

1. *Aphis gossypii* Glover, Pat. Office Rec., 62, 1854.

The widely distributed cotton aphid was found to a slight extent on taro. Some bad infestations of it were seen on eggplant. Fullaway reported it on cotton and cowpeas in 1911, and what was probably the same species on watermelon, cucumber, eggplant, and radish. He also reported an undetermined aphid on beets.

From parasitized *gossypii* on taro at Inarajan, May 14, 6 *Aphelinus* issued. They appear to be near *Aphelinus maidis*, but do not have the darkened mid and hind tibiae of that species.

2. *Aphis maidis* Fitch, Nox. and Ben. Ins., New York 2: 318, 1856.

The corn aphid was very abundant on corn at times. It especially infested the tassels just before or at the time of expansion. I did not find it on other plants, but in 1911, Fullaway reported it also occurring on broom and Kafir corn. Three species of ladybeetles were found feeding on the corn aphid, *Harmonia arcuata*, *Coelophora inaequalis*, and *Anisolemmia mulsanti*. The first mentioned was most abundant and very effective in reducing an infestation. The last mentioned was only occasionally seen. A syrphid fly was commonly seen also, its green larvae feeding on aphids.

3. *Aphis nerii* Boyer de Fonscolombe, Soc. Ent. France, Ann. 10: 167, 1841.

The milkweed aphid was found once at Piti. A colony occurred on the common milkweed (*Asclepias curassavica*) at the Agricultural School Farm. Another colony was found on the same plant at Fadian.

A large green aphid was found on the large marsh reed (*Trichoon roxburghii*) on two occasions, once at Inarajan and again at Piti, but I failed to preserve any for identification.

Aphis sacchari was not observed at any time on sugar cane.

Fullaway reported in 1911 an aphid on banana resembling *Pentalonia nigronervosa*, a species known on banana in Hawaii.

FAMILY ALEURODIDAE

1. *Neomaskellia bergii* (Signoret).

Aleurodes bergii Signoret, Soc. Ent. France, Ann. IV, 8: 395, 1868.

Neomaskellia bergii (Signoret) Laing, Ins. Samoa 2(1): 45, 1927.

This sugar cane aleurodid was found sparsely in small colonies on cane in a small field on the Sumay Road about two miles south of Piti, October 3, 17, 1936. At Mata, November 11, some larger colonies were found on a single stool of cane in a garden. They were attended by the "fire ant" (*Solenopsis geminata rufa*). On Mt. Alifan, May 26, a colony was found on the grass *Paspalum conjugatum*.

This aleurodid is known to infest sugar cane from Mauritius, Ceylon, Java, Philippines, Formosa, to Fiji and Samoa. This is the first record of it in Guam.

Immature aleurodids were found on taro leaves in a gulch near Mt. Tenjo, May 3. No adults were obtained and no material preserved.