

POPULATION DYNAMIC OF *Paracoccus marginatus* Williams AND Granara de Willink (Homoptera: Pseudococcidae) ON PAPAYA IN BUB - URBAN OF HANOI

Doan Thi Luong, Khuat Thi Phuong,
Ho Thi Thu Giang, Nguyen Hong Son, Nguyen Van Liem

Summary

This article provides scientific data on population dynamic and factors affecting the density of papaya mealybug (*Paracoccus marginatus*) on papaya in Hanoi. The research team conducted a survey from January to December 2017 and reported that during the study, papaya mealybug appeared regularly around the year and increased density gradually from the first week of June and peaked in the first week of July, then gradually decreasing, maintaining low until mid-September. Since late September, the mealy bugs popped up again and peaked in third week of October. Density at the second peak in the second peak is often much higher than that at the first peak. In the field, the density of *Paracoccus marginatus* depends on the variety, age of the plant and cultivation method. The density of papaya mealybug on Hong Phi variety is significantly higher than that on Short variety; on the first age is higher than on the second age; on the intercropping cultivation with banana is higher than on the monocultivation of papaya. The density of papaya mealybug in the papaya garden intercropped with corn is always lower than the density of papaya mealybug of pure papaya in the garden of pure papaya, although the difference in density is not too large. In monoculture papaya gardens, the papaya mealybug appears earlier and always get higher density than in papaya gardens with rotation of potato plants.

Keywords: *Papaya*, *Hong Phi variety*, *Short variety*, *Paracoccus marginatus*, *papaya mealybugs*.