

Resistance of Walang Sangit (*Leptocorisa Oratorius* F.) Pests to Alphamethrin Synthetic Insecticides and Their Susceptibility to Rice Husk Liquid Smoke

Nadirra Praticia Ramadhany

Food Crop Production Technology Study
Program Department of Agrivultural
Production

ABSTRACT

Leptocorisa acutais a major pest in the crops. Handling is often done with synthetic insecticides continuously, giving rise to pest resistance. Pest resistance needs to be detected, so that resistance status can be known earlier, this is useful as a strategy in controlling resistant pests. This control was carried out in Balung lor Village, Balung District, Jember using synthetic insecticides with the active ingredient Alfamethrin and organic insecticides made from liquid smoke of rice husks. This study aims to study the resistance status of the stink bug to alphamethrin, its sensitivity to rice husk liquid smoke, population development, attack intensity and yields in rice plants. Differences in population and attack intensity of the two locations using the Mann-Whitney test. The results showed that the walang sangit in the village of Balung Lor had resistance to the insecticide with the active ingredient Alfamethrin with a resistance ratio of 4.58. Walang sangit Balung lor is sensitive to Liquid Smoke from Rice Husk with a Resistance Ratio of 0.85. The intensity of the attack of the walang sangit with rice husk liquid smoke insecticide at 70 HST and 77 HST were 12.8% and 15.7%. The intensity of the attack of the stink bug with the insecticide with the active ingredient Alfamethrin at 70 HST and 77 HST were 14.2% and 17.9%. The population of walang sangit with rice husk liquid smoke insecticide at 70 HST and 77 HST was 0.52% and 0.32%. The population of the stink bug with the active ingredient Alfamethrin at 70 HST and 77 HST was 0.56% and 0.52%. The weight of dry paddy rice treated with liquid smoke insecticide from rice husk was 43 grams. The weight of dry paddy rice treated with an insecticide with the active ingredient Alfamethrin is 49 grams.

Keywords: liquid smoke, rice, stink bug