

EFFICACY TEST OF VEGETABLE TOBACCO INSECTICIDES ON SUGARCANE URET PESTS (*Lepidiota stigma* F.)

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ABSTRACT

This study aims to find out the effectiveness of vegetable tobacco insecticides against sugarcane uret pests (*Lepidiota stigma* F.). The research was conducted at Plant Protection Laboratory Jember State Polytechnic from February to March 2020. This study used a randomized block design (RAK) with four treatments and six replications. The treatments included tobacco leaf insecticide (I1), tobacco stem insecticide (I2), chemical insecticide (I3), control (aquades) (I4). The parameters observed were the mortality of sugarcane uret (*Lepidiota stigma* F.), lethal time 50 (LT₅₀), physical changes, and behavior changes. Data were analyzed by Anova at the 5% level, if the results were significantly different, then followed by the LSD (Least Significant Difference) continued test. The results showed that the application of vegetable insecticides from tobacco plant extracts was effective in controlling sugarcane uret (*Lepidiota stigma* F.), with the best treatment being tobacco stem extract insecticides with an LT₅₀ value of 105 hours.

Keywords: efficacy, tobacco insecticide, sugarcane uret