THE EFFECT OF VEGETABLE INSETICIDES OF GADUNG TUBER (Discorea hispida Dennst) ON THE MORTALITY OF TOBACCO LEAF GRAYAK CATERPILLAR

Guided By Irma Wardati,S.P,.M.P

Riza Latul Musngitdah
Plantation Cultivation Study Program
Department of Agricultural
Production

ABSTRACT

The purpose of this study was to determine the effect of the application of vegetable insecticides from gadung tubers (Dioscorea hispida Dennst) to the mortality of grayak caterpillar on tobacco leaves. This study used a non-factorial Randomized Completly Block Design (RCBD), consisting of 4 treatments with 6 replications, namely P1 (control), P2 gadung tuber extract 40%, P2 gadung tuber extract 55% and P3 gadung tuber extract 70%. This research was conducted in August – September 2022 at the Jember State Polytechnic Plant Protection Laboratory. The test larvae used in this study were test larvae of Spodoptera litura F. The experimental data were analyzed using ANOVA and the results showed significant differences, then further test of 5% LSD was carried out. There are 3 parameters used, namely mortality, LT50, and physical changes. The results showed that the gadung tuber vegetable insecticide was effective and had a very significant effect on mortality grayak caterpillar (Spodoptera litura F.) with the fastest LT50 value in P3 treatment with 70% gadung tuber extract concentration at 109 hours.

Keywords: vegetable insecticides, mortality, grayak caterpillar, gadung tubers