EFFECTIVENESS OF THE FLOWER Lecanicillium lecanii. AGAINST PODS SUCKING PEST (Riptortus linearis F.) ON SOYBEAN PLANTS

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ABSTRACT

Soybean is one of the staple foods consumed by the majority of Indonesian people besides rice and corn. One of the causes of the decline in soybean production is the attack of pod sucking pests (Riptortus linearis). In controlling pod-sucking pests, many use synthetic chemical pesticides, this can cause negative effects on the environment, so it is necessary to control in accordance with the concept of Integrated Pest Management (IPM). Based on the description above, an innovation of the fungus Lecanicillium lecanii was found. The purpose of this study was to determine the effect of the application of the fungus Lecanicillium lecanii on pod-sucking pests on soybean plants. This research was carried out in two places, namely the Jember State Polytechnic Crossing Laboratory and the cultivation area in Jember Regency which was carried out from June to September 2022. In determining the concentration applied in the field, based on laboratory tests with several concentration obtained concentrations that match the EI, namely K2 20%. This study used a non-parametric design by comparing two treatments, namely the treatment of the fungus Lecanicillium lecanii 20% and the chemical pesticide Alfamethrin. Data analysis using Mann-Whitney Test. The results of the study, in general, the fungus Lecanilium lecani did not show a significant difference compared to the pesticide Alfametrin in the variables, pest population, attack intensity and harvest yield.

Keywords: *Lecanilium lecani fungus*, pod sucker, soybean.