

# **Application of Siamese Weed Biopesticide Against Pod Suckers (*Riptortus Linearis F.*) in Soybean (*Glycine Max*) Crops**

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## **ABSTRACT**

*Riptortus linearis F. pest attack is one of the problems in soybean cultivation. Therefore, it is necessary to control pests that are environmentally friendly. This study aims to determine the effect of Siamese weed biopesticides on Riptortus linearis F. This research began in March 2022 until July 2022, located in the Patemon Village Area, Pakusari District. This study used two designs, namely laboratory research design and field research design. The laboratory research design uses the dipping method. The insects observed amounted to 10 tails / jar. Using 6 treatments and repeated three times. The concentrations used are: P0 (control), P1 (10%), P2 (15%), P3 (20%), P4 (25%), P5 (30%). Based on the results showed that the higher the concentration used, the higher the level of pest mortality. The insecticide efficacy used in the field uses a concentration of 25% with an insecticide efficacy of 73%. The field research design used a non-parametric test by comparing two plots, namely the first plot was the treatment of Siamese weed biopesticide with a concentration of 25% at a dose of 500 liters / ha and the second plot was the treatment of insecticide active ingredient alfamethrin with a concentration of 1.5 ml / liter with a dose of 500 liters / ha. The results showed that the pest population after the application of biopesticides and insecticides with the active ingredient alphasmethrin were 0.24 tails/plot and 0.06 individuals/plot and the results of the observation of attack intensity showed that the intensity of attack by Riptortus linearis F was 3.08% and 3.07. %. However, the observation variable of yield showed a significant difference, namely 61.00 and 33.00. This is because there is shading on the alfamethrin plot which causes the pod formation process to be inhibited. The correlation result (R2) shows that the biopesticide and alphasmethrin treatments are 0.5 and 0.2, respectively, which means that the correlation results show a low number.*

**Keywords :** *Riptortus linearis F* , Siame weed, , Soybean,