

# **Application of Beauveria Bassiana Biological Agent to Riptortus linearis on Edamame Soybean**

**Sion Wijaya**

Study Program Food Crop Production Technology Department of Agricultural Production

## **ABSTRACT**

Beauveria Bassiana in Edamame Soybean (*Glycine max* L.) Production with synthetic pesticide from active Metomil against the intensity of linear Riptortus attack and for the number of pods and pod weight of edamame soybean pods. This research was conducted for 3 months from January 2019 to March 2019. All activities were carried out in the edamame soybean field of farmers in Dukuh Mencek Village, Sukorambi District, Jember Regency. This study uses a survey method between two studies, namely the use of biopesticide agents Beauveria Bassiana and synthetic insecticides made from active Metomil by taking 50 samples per plot / aid. This study analyzes data using SPSS version 15.0. The results of this study indicate the fact that Riptortus linearis is significantly different. The population of linear Riptortus at Beauveria Bassiana maintenance with an average value of 3.33 tails and at the time of Metomil maintenance was 3.38 tails. The intensity of Riptortus linearis attacks is also significantly different. The intensity of the attack on the Beauveria Bassiana package with an average value of 2.96% and the Metalaxil control was 3.02%. In the pod number parameter, the results obtained were not different from the average results at the Beauveria Bassiana demonstration showing an average rate of 12.4 pods. While the Metomile Control shows the number 29.7 pods per plant. The yield of pods is not significant. With the average results during the Beauveria Bassiana implementation showed an average figure of 33.3 grams. While the Control Metomil Control shows the number 51.7gram.

**Keyword:** *Edamame Soybean, Riptortus linearis, Beauveria Bassiana.*