RICE POROSITY AND BULK DENSITY EFFECT ON *Sitophilus oryzae* (RICE WEEVIL) OVIPOSITION DISTRIBUTION

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ABSTRACT

RICE POROSITY AND BULK DENSITY EFFECT ON *Sitophilus oryzae* (RICE WEEVIL) OVIPOSITION DISTRIBUTION

Rice-weevil (*Sitophilus oryzae* L.) is one of the common pests that can be found in stored grains that can cause a serious damage if not controlled. A study was undertaken to observe if the bulk density and rice porosity of brown and japonica rice have any effect on the oviposition distribution of *S. oryzae*. The relationship between the depth of rice and the numbers of individual in each layer also were determined. Water displacement method and descriptive analysis were used to analyse the data. Analysis using test of independence shows that the P values are higher than 0.05 which indicates that there are no association between the bulk density and oviposition distribution. Same goes with the analysis between rice porosity and oviposition distribution. Pearson correlation test shows negative values which indicates that there is negative relationship between the depth of rice and the number of individuals. The data might help us to understand more about the behavior of *S. oryzae* thus help to find a better solution to manage this insect pest species in stored products.

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