

**TREATMENT OF VARIOUS TYPES OF RICE AND PACKAGING ON
POPULATION DEVELOPMENT OF THE PEST *Sitophilus oryzae* L. IN
STORAGE**

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ABSTRACT

Sitophilus oryzae L. is a warehouse pest that attacks rice. This pest can reduce the quality of rice. The research aims to determine the interaction between type of rice and type of packaging, determine the type of rice and type of packaging that is best for suppressing the population of *S. oryzae* pests in rice in storage. The research was carried out at the Plant Protection Laboratory, Faculty of Agriculture, UPN "Veteran" Yogyakarta, in May-July 2023. The research used a factorial Completely Randomized Design, namely the type of rice consisting of 3 levels, namely white rice, brown rice, black rice and the type of storage packaging with 3 levels, namely plastic sacks, PP plastic, and hermetic plastic. Data were analyzed using *Analysis of Variance* at 5% level, if the effect was significant, it was continued with the *Duncan Multiple Range Test* at 5% level. Based on the research results, there was an interaction between the type of rice treatment and the type of packaging on the parameters of number of imago 28 hsi, 42 hsi, 72 hsi, mortality of imago 42 hsi, 72 hsi, weight loss of rice 28 hsi, 42 hsi, 72 hsi, water content in packaging 28 hsi hsi and 42 hsi. The types of black and red rice gave the best results on the number of imago parameters at 14 days with the lowest number of imago and the highest water content in the packaging and the types of hermetic plastic and PP plastic packaging gave the best results on the number of imago parameters, with the lowest number of imago at 14 days observation.

Keywords: *Sitophilus oryzae*, rice type, storage packaging.