

ABSTRACT

Rohmawati, Alik. 2015. **The Effect Extract Combination of Common lantana (*Lantana camara*) and Goat Weed (*Ageratum conyzoides*) to *Sitophilus oryzae***. Thesis. The Biology Department, Faculty of Science and Technology State Islamic University Maulana Malik Ibrahim of Malang

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Key Word : Extract , Common lantana, Goat weed , and *Sitophilus oryzae*

Storage is one of the important stage because the period of paddy or rice undergo a process of decline in quality and quantity. Damage during storage is generally caused by insect pests, so if the insect can cause a decline in the quality continues to foodstuffs are stored. One of insect pests that cause damage to foodstuffs, especially rice is *Sitophilus oryzae* Linn. This study aims to determine the effect of the concentration of the extract combination tembelekan (*Lantana camara*) and babadotan (*Ageratum conyzoides*) on mortality of *Sitophilus oryzae*.

Research conducted at the Laboratory of Biology, Faculty of Science and Technology State Islamic University of Maulana Malik Ibrahim Malang, receipts experimental methods with Completely Random Design 5 experiment and 4 repetition. Research Done by preparation of materials, then manufacture extracts, and treatment of test insects by spraying extracts on rice, *Sitophilus oryzae*, and wall jars.

The results showed that the combination of extracts affect the insect mortality test. The results showed that 4 treatment performed from 4 treatment turns out that combination treatment with babadotan 4% and tembelekan 4% showed the highest mortality percentage results against *Sitophilus oryzae* with a value of 92.5% as well as potentially and significantly different from the three other treatments, including treatment 1 (tembelekan 3% and babadotan 3%) gained 72.5% the percentage of mortality, treatment 2 (tembelekan 4% and babadotan 3%) obtained the percentage of mortality of 75%, treatment 3 (tembelekan 3% and 4%) obtained results percentage 80% mortality.