

**Efficacy of Mixed Insecticide of Papaya Leaves and Wedusan Leaves Against
Walang Sangit (*Leptocorisa oratorius F.*) in Rice Plants**

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ABSTRACT

This study aims to determine the effect of the concentration of vegetable insecticides on papaya leaves and wedusan leaves on the mortality of Imago walang sangit (*Leptocorisa oratorius F.*) in rice plants. This research was conducted for 4 months from June 2021 to September 2021. There are two stages of testing, namely laboratory tests conducted at the Plant Protection Laboratory, Jember State Polytechnic and field tests carried out in Balung Lor village, Balung sub-district, Jember Regency. Laboratory tests were carried out with papaya leaf and wedusan leaf insecticides using six concentration levels, namely, 0% (control), 5%, 10%, 15%, 20%, and 25%, tested on imago walang sangit and repeated 3 times with the method feed dip. At 24, 48, and 72 hours after application, mortality was observed which further determined the Insecticide Efficacy using the Henderson and Tilton formula. The field test was aimed to examine the effect of insecticide concentrations of papaya and wedusan leaves on the population and intensity of pest attacks, as well as yields compared to alphamethrin. The results of this study showed that the insecticide treatment of papaya leaves and wedusan leaves compared with Alfamethrin was not significantly different on population, intensity of attack and yields.

Keywords : Paddy, *Leptocorisa oratorius F.*, organic insecticide,