

Utilization of Pesticides Vegetable On Pest Control *Plutella xylostella* on Plants Mustard greens (*Brassica juncea* L.) Towards Sustainable Agriculture

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ABSTRACT

This study aims to determine the effectiveness of a pesticide solution Vegetable, namely tobacco leaves, elephantopus sp., betel leaves green and yellow wooden sticks on mortality of *Plutella xylostella* pests in plants mustard greens (*Brassica juncea* L.). This study uses a completely randomized design with the treatment of various crops as a pesticide vegetable. The treatments used 6 kinds (degree) ie negative control (P0), the leaves of tobacco (P1), the leaves of elephantopus (P2), the leaves of yellow wood (P3), the leaves of greens betel (P4) and chemical pesticides as a positive control (P5) with each grade of 100 g / L. Parameters measured were mortality pests, heavy wet mustard greens and mustard greens leaf damage rate. The analysis was performed by one-way ANOVA. The results showed that the extract from the leaves of tobacco (*Nicotiana tabacum*), the leaves of elephantopus, the leaves of yellow wood (*Arcangelisia flava* L.) and the leaves of green betel (*Piper betle* Linn.) With a 10 percent concentration of the extract on a variety of leaves are not yet significant effect on mortality pests *Plutella xylostella*, heavy wet of mustard greens (*brassica juncea* l.) and severity of leaf mustard greens (*brassica juncea* l.). The leaf extract the most influence on mortality *Plutella xylostella* sequential is an extract of the leaves tobacco, the leaves of greens betel, the leaves of yellow wood and the leaves of elephantopus. While the effect on weight of wet mustard greens (*Brassica juncea* l.) in order are as follows: the leaves of yellow wood, the leaves of green betel, the leaves of elephantopus, and the leaves of tobacco. Meanwhile the level of damage to the mustard greens leaves are starting from the smallest breakdown in order are the leaves of green betel, the leaves of tobacco, the leaves of elephantopus and the leaves of yellow wood.

Kata Kunci: *Pesticides Vegetable, extract, Plutella xylostella, mortality, mustard greens (Brassica juncea)*