

Aplikasi Jenis Mulsa dan Pupuk Kandang Terhadap Pertumbuhan dan Hasil Benih Sawi (*Brassica Chinensis* L.). Application of Types of Mulch and Manure on Growth and Yield of Mustard Seed (*Brassica chinensis* L.) : Advice Common Ir. Suwardi, MP

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ABSTRACT

*Mustard (*Brassica chinensis* L.) is part of vegetable horticultural plants where the leaves can be used, mustard leaves as vegetable food have various benefits in society. This research was carried out on the land of PT WIRANUSA Kediri. The experimental design in this study used a factorial randomized block design consisting of 2 factors. The first factor is the type of mulch which consists of 3 levels, namely (M_1) without mulch, M_2 straw mulch, M_3 silver white plastic mulch. The second factor is manure which consists of 3 levels, namely K_1 cow manure, K_2 goat manure, K_3 chicken manure. Data analysis using the f test formula (ANNOVA) and further testing using Duncan Multiple Range Test (DMRT) with an error level of 5%. The results showed that the mulch application treatment had a very significant effect on the parameters of plant height at 35 DAP ($M_3=50.99$ cm), number of leaves at 35 DAP ($M_3=24.39$ strands), leaf width at 35 DAP ($M_3=19, 07$ cm), leaf length at 35 DAP ($M_3=27.59$ cm), number of pods per bunch ($M_3=39.11$ pods) and seed weight per plot ($M_3=65$ gr). The application treatment of manure (K_3) had a very significant effect on the parameters of plant height at 35 DAP ($K_3=49.84$ cm), number of leaves at 35 DAP ($K_3=25.45$ strands), leaf width at 35 DAP ($K_3=18, 96$ cm), leaf length at 35 DAP ($K_3=25.42$ cm), and seed weight per plot ($K_3=61$ g). The interaction between the application of mulch and growmore fertilizer had a significant effect on the parameters of plant height at 35 DAP ($M_3K_3=54.13$ cm), number of leaves at 35 DAP ($M_3K_3=22.45$ strands), leaf width at 35 DAP ($K_3=21.46$). cm), and seed weight per plot ($M_3K_3=69$ gr).*

Keywords: Mustard, Mulch, and Manure