THE EFFECT OF TYPES OF ANIMAL MATURE ON THE GROWTH AND YIELD OF THREE VARIETIES OF PURPLE EGGPLANT (*Solanum melongena* L.)

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ABSTRACT

Fertilization is one of the efforts to maximize the yield of purple eggplant plants. This research aims to determine the best manure and varieties for the growth and yield of purple eggplant plants. This research is an experiment using a Completely Randomized Design (CRD) of 2 factors. This research is a field experiment using factorials arranged in a Completely Randomized Design (CRD) from 2 factors. The first factor is the type of manure, namely cow manure, goat manure, chicken manure and rabbit manure. The second factor is the purple eggplant variety, namely the deliciousa F1 variety, the Yumi F1 variety, and the Pertiwi variety. The observation results obtained were tested for the level of diversity using analysis of variance (ANOVA) and continued with the DMRT (Duncan Multiple Range Test) test with a significant level of 5%. The research results showed an interaction in the fruit length, weight of fruit planted and total weight of the harvest. Chicken manure fertilizer produces good results on plant height (14, 21 and 28 days after planting), stem diameter (14, 21 and 28 days after planting), number of leaves (14 and 28 days after planting), flowering time, and fruit weight at harvest (1 and 6). The eggplant variety showed good results in the Lezata F1 variety, plant height (14 and 21 days after planting), number of fruit per planting, fruit diameter and fruit weight per harvest at the 6 harvest.

Key words: Purple eggplant, Animal manure, Varieties