

ABSTRACT

Purple eggplant (*Solanum melongena* L.) is a horticultural crop product that is widely spread in Indonesia. Purple eggplant has fine and soft flesh fibers so it tastes good when consumed as food. To increase production it is necessary to add liquid organic fertilizer (LOF) and chicken manure. The aimed of this research was to determine the effect of the composition of chicken manure and green vegetable waste LOF on growth. Purple eggplant plants and knowing the main effect of application of chicken manure on the growth of purple eggplant plants, and knowing the main effect of application of LOF green vegetable waste on the growth of purple eggplant plants. This research used a two-factor Randomized Block Design (RBD) with three replications. The first factor is the composition of the planting media which consists of (K0) top soil, (K1) chicken manure 15 kg/plot (K2) chicken manure 3 kg/plot. The second factor is the LOF of green vegetable waste (P0) 0 ml/l, (P1) 140 ml/l, (P2) 280 ml/l. The results showed that the single treatment of chicken manure affected on plant height at 14, 21 and 28 DAP, stem diameter at 14 to 35 DAP, number of leaves at 14, 21 and 28 DAP, fruit diameter, fruit length, number of fruits, and fruit weight per plot. The single LOF treatment of green vegetable waste showed that the results had a significant effect on the variables of plant height at 28 and 35 DAP, stem diameter at 21, 28 and 35 DAP, number of leaves at 21 and 28 DAP, fruit diameter, fruit length, number of fruit and fruit weight per plot. There is no interaction between the combination of chicken manure treatment and green vegetable waste LOF. It is recommended to use chicken manure at a dose of 3 kg/plot and green vegetable waste LOF at a dose of 280 ml/liter to increase the growth of purple eggplant plants, and further research needs to be carried out with increase the dose of both treatments to improve the growth of purple eggplant plants even better.

Keywords: Mustang F1, Chicken Coop Fertilizer, Green Vegetable Waste POC, Purpele Eggplant.