

**GROWTH AND YIELD RESPONSE OF CHERRY TOMATO PLANT
(*Solanum lycopersicum* var. *Cerasiforme*) ON VARIOUS PLANTING
MEDIA COMPOSITIONS AND COW URINE LIQUID ORGANIC
FERTILIZER.**

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ABSTRACT

Cherry tomatoes are a horticultural plant that is in demand by people in Indonesia. The research aims to determine the comparison of control and treatment, interactions, composition of planting media and the best dose of cow urine liquid organic fertilizer. The research was carried out in June – September 2023. The research used the RAL (Completely Randomized Design) method which consisted of 2 factors and 1 control with 3 replications. The composition of the planting media is Soil + Cow Manure (1:1), Soil + Cocopeat (1:1), Soil + Cocopeat + Cow Manure (1:1:1). The concentration of cow urine liquid organic fertilizer is 55 ml/L, 75 ml/L and 95 ml/L. The observation results showed that there was no interaction between the planting medium and cow urine organic fertilizer. The composition of the planting medium and cow urine was significantly better than the control in terms of plant height, number of leaves, stem diameter, age when flowering began, number of fruit per plant, total fruit weight per plant, fruit weight per plot and fruit weight per hectare. Planting media: soil + manure (M1) and soil + manure + cocopeat (1:1:1) (M3) gave the best results in the parameters of plant height at 34 DAP, age at start of flowering, fruit weight per fruit, fruit weight per plot, fruit weight per hectare and fruit safety level. The concentration of cow urine liquid organic fertilizer of 55 ml/L gave the best results for the growth of cherry tomatoes.

Keyword: cherry tomatoes, planting medium, cow urine.