

**APPLICATION OF COW URINE POC AND BAMBOO EXTRACT ON  
THE GROWTH AND OUTCOME OF TOMATO PLANTS  
(*Lycopersicum esculentum* Mill.)**

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**ABSTRACT**

Tomatoes are a horticultural commodity with high economic value. Tomato production in Indonesia continues to decline, this is due to limited cultivation technology owned by farmers. One of the efforts made to increase tomato production is by applying POC cow urine and bamboo shoot extract. The aim of the research was to determine the effect of cow urine POC concentration and bamboo shoot extract on the growth and yield of tomato plants. The research method used was a factorial Complete Randomized Group Design (RAKL) with 2 factors. The first factor is Cow Urine POC with 3 levels, namely 50 ml/liter, 100 ml/liter, 150 ml/liter. The second factor is bamboo shoot extract with 3 levels, namely 25 ml/liter, 50 ml/liter, 75 ml/liter. There was an interaction between the POC treatment of cow urine and bamboo shoot extract on the parameters of the day flowers appeared in the POC treatment of cow urine 50 ml/L and bamboo shoot extract 75 ml/L, the weight of fruit per fruit in the POC treatment of cow urine 150 ml/L and extra bamboo shoots 50 ml /L and fruit hardness parameters in the POC treatment of cow urine 150 ml/L and bamboo shoot extract 75 ml/L. Cow urine POC treatment of 150 ml/L gave the best results on the parameters of fruit weight per fruit and fruit hardness. The bamboo shoot extract treatment of 50 ml/L gave the best results on fruit weight per fruit. Treatment with various concentrations of cow urine POC and bamboo shoot extract was not able to increase the growth and yield of tomato plants in all parameters.

***Keywords*** : *Tomato, POC Cow Urine, Bamboo Shoot Extract*