

## ABSTRACT

### **THE EFFECT OF POC (Liquid Organic Fertilizer) APPLICATION ON THE PRODUCTIVITY OF ODOT GRASS (*Pennisetum purpureum* cv. Mott)**

This study aimed to determine the effect of liquid organic fertilizer (LOF) type and application level on the fresh weight and dry weight of odot grass (*Pennisetum purpureum* cv. Mott). The experiment was arranged in a  $2 \times 5$  factorial completely randomized design (CRD) with three replications. The first factor was the type of LOF, namely P1 (goat urine + rice washing water + EM4) and P2 (goat urine + coconut water + EM4). The second factor was the application level (a1, a2, a3, a4, a5). The observed parameters were fresh weight and dry weight. The results showed that the type of LOF had a highly significant effect ( $p < 0.05$ ) on both fresh and dry weights, whereas the application level had no significant effect. The interaction between LOF type and application level was close to significant ( $p = 0.094$ ). LOF with coconut water (P2) resulted in the highest yields for both fresh weight (623.33 g) and dry weight (228.71 g). It can be concluded that LOF with coconut water is more effective in increasing the biomass production of odot grass compared to LOF with rice washing water.

**Keywords: liquid organic fertilizer, odot grass, fresh weight, dry weight**