

**THE EFFECT OF FERTILIZING CONCENTRATION  
ORGANIC LIQUID LAMTORO LEAVES  
ON THE GROWTH OF PLANT  
CUTTINGS (*Piper nigrum* L.)**

**Rofi Hakiki Rohmadhani, Abdurrahman Salim, S.Si., M.Si (Advisor)**

Plantation Cultivation Study Program

Agricultural Production Department

**ABSTRACT**

This study aims to determine the effect of the concentration of liquid organic fertilizer on lamtoro leaves on the growth of pepper cuttings (*Piper nigrum* L.). This research was conducted in Krajan Hamlet, Andongsari Village, Ambulu District, Jember from September 2021 to December 2021. This study used a non-factorial Randomized Block Design (RAK) with 6 treatment levels and 4 replications. The treatments were K0 = 0%/plant (control), K1 = 10% watering/plant, K2 = 20% watering/plant, K3 = 30% watering/plant, K4 = 40% watering/plant, K5 = 50% watering /plant. The data obtained from the research results were analyzed using ANOVA then further tested using BNT level 5%. Parameters observed were live percentage, shoot length, shoot diameter, and number of internodes. The results showed that the effect of the concentration of liquid organic fertilizer on lamtoro leaves had no significant effect on the parameters of shoot length and shoot diameter at the age of 5 WAP to 15 WAP and for differences in the use of the 2-3rd internode or in the 1st block, it significantly affected the diameter parameter. shoots at the age of 7 WAP, 15 WAP and significantly affected the number of internodes parameters at the age of 15 WAP.

Keywords : pepper cuttings, liquid organic fertilizer from lamtoro leaves, concentration