

THE EFFECT OF CONCENTRATION AND DURATION OF SOAKING COW URINE ON THE GROWTH OF PEPPER CUTTINGS (*Piper nigrum L*)

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ABSTRACT

*This study aims to determine the concentration and duration of soaking cow urine on the growth of pepper cuttings (*Piper nigrum L*). This research was conducted at the Jember State Polytechnic from April to July 2021. This study used a Randomized Block Design (RAK) which was arranged in a factorial manner with two factors. The first factor is the concentration of cow urine which consists of 4 levels consisting of K0 = 0% (control), K1 = 5%, K2 = 10% and K3 = 15%. The second factor is the length of soaking cow urine which consists of 3 levels, namely P1 = 60 seconds, P2 = 90 seconds and P3 = 120 seconds. The data obtained from the test results were then analyzed using the F test (Anova). If there is a significant effect, then further tests are carried out using BNT at the 5% level. The results showed that the location of the internodes had no significant effect on long tuna, percentage of live cuttings, percentage of finished cuttings, wet weight and dry weight of seedlings. So you can use any segment as a cutting material. The interaction of concentration and duration of soaking cow urine had no significant effect on tuna length, percentage of live cuttings, percentage of finished cuttings, wet weight and dry weight of seedlings. 5% cow urine concentration had a significant effect on the proportion of live cuttings. The duration of soaking cow urine had no significant effect on tuna length, percentage of live cuttings, percentage of finished cuttings, wet weight and dry weight of seedlings.*

Keywords: Pepper Plants, Soaking Time, Cow Urine ZPT