

THE EFFECT OF CONCENTRATION AND SOAKING TIME OF YOUNG COCONUT WATER ON ARABICA COFFEE SEED GROWTH (*Coffea arabica* L.)

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ABSTRACT

This study aims to determine the effect of concentration and soaking time of young coconut water on arabican coffe seed germination. This research was conducted in the greenhouse of the Jember State Polytechnic from August 2021 to November 2021. This study used a Completely Randomized Factorial Design wit two factors. The first factor consists of 3 levels and the second factor consists of 3 level. Each treatment combination was repeated 3 times. The first factor is the concentration of young coconut water which includes A1 (50%), A2 (75%), and A3 (100%). The second factor is the soaking time of young coconut water which includes K1 (20 hours), K2 (24 hours), and K3 (28 hours). The result obtained were analyzed using ANOVA at the 5% level and if they were significantly different, they were continued with the LSD (Lessest Significant Difference) test at the 5% level. The results showed that the treatment of coconut water concentration had a significant effect on the treatment of germination power, hypocotyl height, and arcular length, immersion time of young coconut water had a significant effect on the treatment of hypocotyl height, and interactions had a sognificant effect on the treatment of hypocotyl height, and hypocotyl diameter.

Keywords: Coffee Seed, Concentration, Soaking Time in Young Coconut Water.