

THE EFFECT OF PROVIDING FERMENTED COCONUT WATER THE KOMASTI VARIETY OF ARABICA COFFEE BREEDING

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ABSTRACT

Coffee is a type of tropical plant, which can grow anywhere. In Indonesia, Arabica coffee is abundant and suitable for cultivation in highland areas, especially in Afdeling Pelalangan PTPN 1 Regional 5 Kebun Java Coffee Estate Rayon Blawan Bondowoso. One of the natural ingredients that can be used as a growth regulator is coconut water. The research was carried out from January 29 to April 30 2024 at the Afdeling Pelalangan nursery land PTPN 1 Regional 5 Kebun Java Coffee Estate Rayon Blawan Bondowoso. The aim of this research was to determine the effect of coconut water fermentation on Komasti variety Arabica coffee seedlings. This research used a Non-Factory Randomized Block Design (RAK) consisting of 4 treatments with 5 replications including treatments P0 (Control), P1 (250 ml/liter), P2 (500 ml/liter) dan P3 (750 ml/liter). The research data were analyzed using ANOVA. If the results show a real effect then continue with the BNT level 5% further test. The parameters used are plant height (cm), stem diameter (cm), number of leaves (pairs), wet crown weight (grams) and crown dry weight (grams). The results of the study showed that the application of plant height, stem diameter, number of leaves, plant wet weight and plant dry weight were not significantly affected. The results of the study showed that the application of plant height, number of leaves, plant wet weight and plant dry weight were not significantly affected except for stem diameter.

Key words: *Coffee, Fermented Coconut, Agricultural Em4*