

**THE GROWTH RESPONSE OF ARABICA COFFE SEEDLINGS
(*Coffea arabica* L.) ANDUNGSARI VARIETY TO
THE COMPOSITION OF PLANTING MEDIA
AND GUANO FERTILIZER DOSAGE**
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ABSTRACT

Coffee growth is highly dependent on the quality of seedlings during planting. So planting media and fertilizer are important factors to consider in order to obtain quality coffee seedlings in the future and be able to produce optimally. The community still fertilizes coffee plants using inorganic fertilizers, even though inorganic fertilizers if used continuously will damage the environment. Therefore, the use of organic fertilizers such as guano fertilizers which are rich in nutrients needed by plants can help the community not to be dependent on inorganic fertilizers. This study aims to determine the effect of guano fertilizer doses as a substitute for inorganic fertilizers given to various planting media compositions. The experiment was conducted at the Jember State Polytechnic from August to December. This study used a Randomized Block Design (RAK) consisting of 2 factors. The first factor is planting media (M) with 3 levels M1: Top soil M2: Top soil: sand M3: Top soil: Sand: Cow manure and the second factor is the dose of guano fertilizer (G) 3 levels, namely G1: 2 grams G2: 4 grams G3: 6 grams. Data analysis using ANOVA followed by a 5% BNJ further test. The results showed that the composition of the planting media and the dose of guano fertilizer did not significantly affect plant height, stem diameter, number of leaves, root length, and wet weight of Arabica Coffee Seedlings of the Andungsari Variety.

Keywords: Coffee, Planting Media, Guano Fertilizer, and Andungsari Variety