THE IFLUENCE OF GROWTH MANAGEMENT CONCENTRATION AND TYPES OF PLANT MEDIA ON GROWTH OF BREEDING COFFEE ARABIKA CLONS S795 (*Coffea arabica* L.)

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ABSTRACT

Coffee can be propagated vegetatively using starch. Efforts that can be made to increase the success of coffee nurseries with cuttings are the use of growth regulators (ZPT) and using good and appropriate planting media. This study aims to determine the concentration of growth regulators and the type of planting media that provide the best growth in Arabica coffee cuttings (*Coffea arabica* L.). The study was conducted at the Research and Development Center for Agroforestry Technology in Cijeungjing, Ciamis District, this experiment was conducted in August to November 2019. The experimental method used a factorial patterned randomized block design consisting of two factors and was repeated 3 times, the main factor being the media cocopeat planting, rice husk charcoal, soil, the second factor is the concentration of growth regulator growth 0 0 ppm, 1,000 ppm, 2,000 ppm, 3,000 ppm. The results showed that there was an interaction between the concentration of growth regulators with the type of growing media on the growth of the number of secondary roots per cuttings. The husk planting media with a ZPT concentration of 2,000 ppm showed the best effect. The concentration of Growtone growth regulating agent 3,000 ppm significantly affected the growth of the number of secondary roots per cuttings and was the best concentration for Arabica coffee seed cuttings. While the type of soil planting media became the best planting media for Arabica coffee seed cuttings.

Keywords: Arabica coffee cuttings, growing media, growth regulators.