IMPLEMENTATION OF VARIOUS DOSES OF ARBUSCULAR VESICULAR MYCORRHIZA AND AMELIORANT ON THE GROWTH AND YIELD OF CAYENNE PEPPER (*Capsicum frutescens* L.) var. BHASKARA

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ABSTRACT

Cayenne pepper (*Capsicum frutescens* L.) is one of the popular vegetable commodities in Indonesia. However, its production experienced a decline in 2020-2021. This research aims to determine the effects of different doses of mycorrhiza and various ameliorants on the growth and yield of cayenne pepper. The goal was to identify the optimal dose of mycorrhiza and ameliorant for enhancing the growth and yield of the cayenne pepper. The study employed a Complete Randomized Block Design field research experimental design (CRBD) with two factors. The first factor involves Arbuscular Vesicular Mycorrhiza at doses of 15, 25, and 35g/polybag. The second factor includes ameliorant which includes cow, goat, and chicken manure. Data collected were analyzed using Variety Printing at the 5% significance level. Subsequently, Duncan's Multiple Range Test at the 5% level and the orthogonal contrast test were applied for further analysis. The results indicated that the combination of goat manure ameliorant treatment and 25 g of mycorrhiza treatment yielded was the best results for stem diameter 35 DAP (Days After Planting) and editorial weight.
Keywords: Cayenne pepper, Arbuscular Vesicular Mycorrhiza, Ameliorant