APPLICATION OF MICORIZE DOSAGE AND MONO-CALCIUM PHOSPHATE PUPILIZE TO THE GROWTH AND RESULTS OF MENTIMUN PLANT (*Cucumis sativus* L.)

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ABSTRACT

Cucumber (Cucumis sativus L) fruits contain 0.65% protein, 0.1% fat and 2.2% carbohydrates. Increase cucumber productivity are by applying MKP and Mikoriza fertilizers for nutrient addition. The research method is a field experiment using a Randomized Complete Group Design (RAKL) with 2 factors. The first factor is Mikoriza used at a dose of 5 g/plant, 10 g/plant, and 15 g/plant. The second factor is MKP Fertilizer with doses of 6 g/plant, 9 g/plant, and 12 g/plant. The research data were analyzed using Analysis of Variance (ANOVA) at 5% test level. If the test results were significantly different between treatments then continued using Duncan's Multiple Range Test (DMRT) at 5% level. The results showed that there was an interaction between the dose of Mikoriza and the dose of MKP fertilizer on the parameters of male flowering age, female flowering age, number of fruits per plant, fruit weight per plant, fruit diameter, fruit length, weight per fruit, weight per plot, and weight per hectare. The treatment of Mycorrhiza dose of 10 g/plant and MKP fertilizer dose of 9 g/plant gave the best results in the parameters of male flowering age and female flowering age and the treatment of Mycorrhiza dose of 15 g/plant and MKP fertilizer dose of 15 g/plant gave the best results in the parameters of fruit number per plant, fruit weight per plant, fruit diameter, fruit length, weight per fruit, weight per hectare.

Keywords: Cucumber, MKP Fertilizer, Mycorrhiza, Dosage