GROWTH AND YIELD OF CUCUMBER VARIETIES CU 699 WITH THE TREATMENT OF SHOOT PRUNING AND DOSES OF BAT MANURE GUANO FERTILIZER

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ABSTRACT

The objectives of this study were to determine the best pruning time and the best dose of bat manure guano fertilizer on the growth and yield of cucumber plants. The research method used was field research with a factorial design arranged in a Randomized Complete Group Design with two factors. The first factor is the age of shoot pruning which consists of 3 levels, namely no shoot pruning, 14 DAP shoot pruning, and 21 DAP shoot pruning and the second factor is the dose of organic guano fertilizer which consists of 3 levels, namely 10 tons/ha, 15 tons/ha, and 20 tons/ha. The research data were analyzed using analysis of variance at the 5% level, then continued with a difference in means test based on the Duncan Multiple Range Test (DMRT) at the 5% level. The results of the research showed that the interaction of 21 DAP pruning time and the dose of guano fertilizer of 15 tons/ha had an impact on the growth and yield of cucumber CU 699 varieties. The shoot pruning time of 21 DAP gave the best results in the parameters of number of fruit per plant, fruit length, fruit diameter, fruit weight per plant, fruit weight per plot, and fruit weight per hectare. Guano fertilizer dosage of 15 tons/ha gave the best results in terms of number of fruit and fruit weight per fruit.

Keywords : cucumber, pruning, guano fertilizer