

The Application Of Water Buds Pruning and Administration Of Several Dosage Of Mycorrhiza Biodive Fertilizer On Production and Seed Quality Of Cucumber (*Cucumis Sativus L*) Variety Std 0405. Supervisor Dwi Rahmawati, SP., MP.

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ABSTRACT

*Cucumber (*Cucumis sativus L*) is also one of the vegetable commodities that are quickly harvested so that the capital turnover is relatively fast. This study aims to determine the effect of pruning age of water shoots and the application of mycorrhizal biofertilizer doses on the production and quality of cucumber (*Cucumis sativus L*) seeds. This research was carried out in the experimental field located in Glagahagung Village, Purwoharjo District, Banyuwangi Regency from November 2021 to January 2022. This study used a Factorial Randomized Block Design (RAK) which was repeated 3 times. The first factor is the age of pruning water shoots with 4 levels, namely A0 = Without pruning water shoots, A1 = Age of pruning water shoots 40 days after planting, A2 = Age of pruning water shoots 50 days after planting, A3 = Age of pruning water shoots 60 days after planting. The second factor is the application of mycorrhizal biofertilizer dose with 4 levels, namely B0 = No mycorrhizal biological fertilizer dose application, B1 = Mycorrhizal biofertilizer dose application 4 g/plant, B2 = Mycorrhizal biological fertilizer dose application 6 g/plant, B3 = Biofertilizer dose application mycorrhizal 8 g/plant. The data obtained were analyzed using ANOVA (Analysis Of Variance) and further tested using DMRT (Duncan Multiple Range Test) at 5% level. The results showed that the treatment of water shoot pruning 60 DAP (A3) was very significantly different in the parameters of the number of fruits per plant (4.27 pieces), fruit length (15.97 cm), fruit diameter (5.60 cm), fruit weight. per plant (886.48 grams), number of seeds per plant (116.01 seeds), seed weight per plant (11.34 grams), weight of 1000 grains (28.08 grams), seed production per hectare (453.14 kg), germination (83.29%). The application treatment of mycorrhizal biofertilizer 8 g/plant was very significantly different on the parameters of the number of fruits per plant (4.40 cm), fruit weight per plant (856.30 grams), number of seeds per plant (107.93 seeds), seed weight per plant (9.56 grams), weight of 1000 grains (28.42 grams), seed production per hectare (385.18 kg). The interaction of pruning age of shoots at 60 days and giving a dose of mycorrhizal biofertilizer 8 g/plant (A3B3) had a very significant effect on the weight parameter of 1000 grains (28.70 grams).*

Key words: Cucumber, Age of Pruning Water Shoots, Dosage of Mycorrhizal Biological Fertilizer.