

**THE EFFECT OF MYCORRHIZATION DOSES AND VARIOUS TYPES
OF MANURE ON THE GROWTH AND YIELD OF CHERRY TOMATO
PLANT (*Solanum lycopersicum* L.)**

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ABSTRACT

Cherry tomatoes (*Solanum lycopersicum* L.) are one of the important horticultural commodities for society. One effort that can be made to support the results of cherry tomato cultivation is by providing mycorrhiza and adding animal manure fertilizer. This research aims to determine the difference between control and treated plants on the growth of cherry tomatoes, as well as determine the best dose of mycorrhiza and type of animal manure fertilizer on the growth and yield of cherry tomato plants. The research method used a Randomized Block Design with 2 factors, namely the mycorrhiza dose consisting of 3 levels, namely 5 gr/plant, 10 gr/plant and 15 gr/plant as well as animal manure fertilizer consisting of 3 types, namely cow manure, goat manure and chicken manure fertilizer. The results showed that there was an interaction between the two treatments on the parameters of plant height at 8 WAP, number of fruit per plant, fruit diameter per plant and fruit weight per fruit. The combination of the two treatments was significantly better than the control plants for the parameters of plant height, number of branches, number of leaves, stem diameter, flowering time, harvest time, number of fruit per plant and fruit diameter per plant. A dose of 10 g mycorrhiza and goat manure gave the best results on the growth and yield of cherry tomato plants.

Key words: *Cherry tomatoes, Mycorrhiza, Manure*