

**THE EFFECT VARIETY AND DOSAGE OF *Trichoderma* sp ON THE
GROWTH AND YIELD TOMATO'S
(*Lycopersicum esculentum* Mill.)**

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ABSTRACT

The low production of tomato plant is caused by the use of not superior varieties, use of fertilizers are not optimal and inappropriate planting media. This research aimed to study the determine the effectiveness of varieties and dosage of *Trichoderma* sp on the growth and yield tomato's. The experiment was arranged in a Completely Randomized Design with two factors. The first factor is variety i.e., Tomato Tymoty F1, Tomato Betavila F1, and Tomato Gustavi F1. The second factor is dosage of *Trichoderma* sp i.e., no treatment *Trichoderma* sp (Control), 40 gram, 50 gram and 60 gram. The data were analysed using the *Analysis of Variance* (ANOVA) at 5% level, *Duncan Multiple Range Test* (DMRT) at the 5% level and *Trend Comparison*. The research shows that no have a significant effect between variety combination and dosage of *Trichoderma* sp on the growth and yield tomato's. Variety of Gustavi shows the best growth when compared with another variety on parameter observed were weight of fruit, weight of fruit per plant and the optimal dosage of *Trichoderma* sp for plant growth, that is 58,94 gram/plant for increase number of leaves 50 days after planting (DAP) and optimal dosage of *Trichoderma* sp for yield variable; diameter of fruit, weight of fruit, weight per fruit, weight of fruit per plant and level of sweetness was 60 gram/plant.

Keywords : Tomato Plants, Varieties, *Trichoderma* sp.