

**RESPONSE OF GROWTH OF BANANA PLANTS (*Musa paradisiaca* L.)  
AFTER ACCLIMATIZATION TO VARIOUS VARIETIES AND DOSES  
OF ARBUSCULAR MYCORRHIZA**

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**ABSTRACT**

Banana fruit problems are caused by poor seedling production due to internal (genetic variation) and external (nutrient absorption) factors. This study aims to determine the interaction of varieties and doses of mycorrhiza on post-acclimatisation growth of banana plants. The study used Split Plot design with 3 replications. The main plots were banana plant varieties consisting of Cavendish, Mas Kirana and Raja Nangka. The subplots were mycorrhizal doses consisting of no mycorrhiza, 10 grams/plant, 20 grams/plant and 30 grams/plant. Data were analysed using 5% level of variance and further tested with DMRT at 5% level. The results showed that there was an interaction between the variety treatment and the dose of mycorrhiza. The combination of Raja and Cavendish varieties with 20 grams of mycorrhiza gave good fresh weight. The combination of Cavendish with 10 grams of mycorrhiza and Mas Kirana with 15 grams of mycorrhiza gave good growth in plant height 6 weeks after planting. The Mas Kirana variety gave good growth in leaf length 4 weeks after planting. The Raja variety gave good growth in leaf width 6 weeks after planting. A dose of 15 grams gave good growth in leaf length 2 weeks after planting. Mycorrhiza dose of 20 grams gave good growth in leaf width 4 weeks after planting.

**Keywords:** Banana, Variety, Mycorrhiza, Post Acclimatization