THE EFFECTS OF INORGANIC FERTILIZER (NEXER®) ON GROWTH PERFORMANCE OF HARUMANIS (MA 128) FOR FIVE WEEKS

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DECLARATION

This Final Year Project is a partial fulfilment of the requirements for a Degree of Bachelor of Science in Agrotechnology (Hons.) Horticulture Technology in the Faculty of Plantation and Agrotechnology, Universiti Teknologi MARA.

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ABSTRACT

THE EFFECTS OF INORGANIC FERTILIZER (NEXER®) ON GROWTH PERFORMANCE OF HARUMANIS (MA 128) FOR FIVE WEEKS

Mango (*Mangifera indica*, L) needs to be supplied with fertilizer to enhance the growth performance. The growth performance of mango trees can be affected by several factors, for example, the correct amount of fertilizer gives high impact to the panicles, flowering and fruits produced. Lacking this may be the reason for nutrient deficiency where trees did not get the right quantity of fertilizer needed. The use of inorganic fertilizer (Nexer®) was yet to be known for its effective use on Harumanis. Hence, this research aimed to study on the performance of inorganic fertilizer (Nexer®) to the growth of Harumanis (MA 128). The fertilizer then was applied by pocket placement, where four holes were dug around the tree under the canopy. The number of fruits and flowers, SPAD values, leaf area index, and number of panicles were evaluated throughout the research. It was expected that the effects of inorganic fertilizer influenced the growth performance of Harumanis. Three levels of treatment, 0.5kg, and 1kg of inorganic fertilizer (Nexer®) and 1kg standard fertilizer (control) were observed during the experimental period. However, further study is needed to determine the different level of fertilizers or other types of fertilizers for a better growth performance.

Keywords: Harumanis (*Mangifera indica*, L); inorganic fertilizer; growth performance; panicles; Leaf Area Index (LAI)

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