

**UNIVERSITI TEKNOLOGI MARA**

**GROWTH INHIBITION OF *Mucuna  
bracteata* BY DIFECONAZOLE**

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Final Year Project Report Submitted in Partial Fulfillment of the  
requirements for the degree of  
**Bachelor of Science (Hons.) Plantation Technology and  
Management**

**Faculty of Plantation and Agrotechnology**

**January 2015**

## CANDIDATE'S DECLARATION

I declare that the work this final year project was carried out in accordance with the regulation of Universiti Teknologi MARA. It is original and is the result of my own work, unless otherwise indicated or acknowledgment as referred work. The final year project report has not been submitted to any other academic institution or non academic institution for any other degree or qualification.

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## ABSTRACT

This study was carried out to determine the growth response of *Mucuna bracteata* towards the application of difenoconazole (DFZ) in attempts to control its excessive growth. In this project, *M. bracteata* was sprayed with different concentrations of DFZ, i.e. 0 (control), 100, 200, 300 and 400 mg/l. Experiment was carried out based on a complete randomized design (CRD) with five replicates. The data observed in this project were internode length to describe the potential vine extension, vine diameter, leaf area and relative chlorophyll content of the first fully developed leaf. The number of branches at the node with first fully developed leaves was also recorded as indicator of plant compactness. Data were collected weekly for a period of eight weeks after application of DFZ. All data were analyzed using SPSS software. Analysis of variance (ANOVA) was carried out. Treatment means were compared using Tukey's Honestly Significant Difference (HSD) Test at 5% level of significance. The results from this study showed that treatment with 400 mg/l DFZ generally resulted in significant growth inhibition in *M. bracteata* on clay loam.

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