THE EFFECT OF HEXACONAZOLE ON GROWTH PERFORMANCE OF *Mucuna bracteata*

AHMED FAIZ BIN ABD SHUKOR

Final Year Report Submitted in
Partial Fulfillment of the Requirements for the
Degree of Bachelor of Science (Hons.)
Plantation Technology and Management
in the Faculty of Plantation and Agrotechnology
Universiti Teknologi MARA

JULY 2015

DECLARATION

This Final Year Project is a partial fulfillment of the requirements for a degree of Bachelor of Science (Hons.) Plantation Technology and Management, Faculty of Plantation and Agrotechnology, Universiti Teknologi MARA.

It is entirely my own work and has not been submitted to any other University or higher education institution, or for any other academic award in this University. Where use has been made of the work of other people it has been fully acknowledged and fully referenced.

I hereby assign all and every right in the copyright to this Work to the Universiti Teknologi MARA (UiTM), which henceforth shall be the owner of copyright in this Work and that, any reproduction or use in any form or by any means whatsoever is prohibited without a written consent of UiTM.

Candidate's signature: .....

Name: AHMED FAIZ BIN ABD SHUKOR

Date: 10 JULY 2015

I hereby declare that I have checked this project and in my opinion, this project is adequate in terms of scope and quality for the award of the degree of Bachelor of Science (Hons.) Plantation Technology and Management, Faculty of Plantation and Agrotechnology, Universiti Teknologi MARA.

Signature: .....

Name of supervisor: DR TSAN FUI YING

Position: SENIOR LECTURER

Date: 10 JULY 2015

ACKNOWLEDGEMENTS

Praise to Allah the Almighty for His blessing, I was able to complete my final year project in time as one of the requirements for me to graduate in Bachelor of Science (Hons.) Plantation Technology and Management.

First of all, I would like to express my gratitude to my supervisor, Dr. Tsan Fui Ying, for her constant guides, suggestions and comments without knowing the meaning of tiredness in order to help me in completing the final year project.

Special thanks also go to my beloved parents and family members who always believe in me and give their full support in every path that I choose.

Not forget to mention, thank you to my fellow mates and friends who were directly or indirectly involved and never stop give moral support to me throughout this final year project.

AHMED FAIZ BIN ABD SHUKOR

TABLE OF CONTENTS

ABSTRACT

THE EFFECT OF HEXACONAZOLE ON GROWTH PERFORMANCE OF *Mucuna bracteata*

The main purpose of this study was to determine the growth inhibition of *Mucuna bracteata* using hexaconazole for controlling its vigorous growth of vines. Different concentrations of Anvil® containing 4.8% hexaconazole as active ingredient were prepared, i.e. 0 for control, 2.5, 5, 7.5 and 10 ml Anvil®/l. Every treatment was replicated five times. The changes of growth of *M. bracteata* was monitored as changes in the internodal length, internodal diameter, leaf area, relative chlorophyll content and number of leaves at every two weeks for up to eight weeks. This study found that there was significance difference in *M. bracteata* following application of hexaconazole in terms of the mentioned growth parameters. Hence, the application of hexaconazole is believed to be able to inhibit excessive growth of *M. bracteata*.