

**THE DISTRIBUTION STUDY OF MACARANGA GIGANTEA IN UiTM
JENGKA FOREST RESERVE (BASE LINE 1: LINE 1-LINE 5 AND LOGGING
ROAD)**

SHAH FAIZAL BIN SAHARUDDIN

**DIPLOMA IN WOOD INDUSTRY
UNIVERSITI TEKNOLOGI MARA**

2005

ACKNOWLEDGEMENT

Alhamdulillah.

Thanks to God for blessing me until I had been successfully completed and submitted my final year project entitled “The Distribution Study of *Macaranga gigantea* in UiTM Jengka Forest Reserve (Base Line 1: Line 1-Line 5 and Logging Road). I would also like to express my deepest appreciation to my advisor, Miss Mazlin Bt. Haji Kusin for her encouragement and guidance in designing and implementing this project until the end of my study.

Thank you also to as a lecturer WTE 375 Prof. Madya Dr. Jamaluddin bin Kassim for his help, support and guidance throughout the course of my study. Thanks also to my group members, Noor Hasyidawati, Ismalyana, Norizan and Khadijah for giving me co-operation to finish this project. Thanks are also dedicated to those who were involved directly or indirectly in the completion of this study.

Last but not least, to my parent and my family, thanks for their moral support to gave my best in this study. Further gratitude is also extended to my special friend for her care and encouragement through out the duration of this study. I really appreciate it.

Thank you very much.

TABLE OF CONTENTS

CONTENTS	PAGE
APPROVAL SHEET.....	ii
DEDICATION.....	iii
ACKNOWLEDGEMENT.....	iv
LIST OF TABLES.....	vii
LIST OF FIGURES.....	viii
LIST OF APPENDICES	ix
LIST OF ABBREVIATION	x
ABSTRACT.....	xi
ABSTRAK.....	xiii

CHAPTER

I. INTRODUCTION

1.1	General.....	1
1.2	Justification.....	3
1.3	Objectives.....	4

II. LITERATURE REVIEW

2.1	Secondary Forest.....	5
2.2	Importance of Forests.....	7
	2.2.1 Biological Value of Forest.....	7
	2.2.2 Energy Source.....	8
	2.2.3 Domestic and Wildlife Range.....	10
	2.2.4 Recreation and Wildlife.....	11
2.3	Forest Problems.....	13
	2.3.1 Reduction of Forest Area and Quality.....	13
	2.3.2 Environmental Degradation of Forest Areas.....	13
	2.3.3 Loss of Biodiversity.....	14
	2.3.4 Loss of Cultural Assets and Knowledge.....	14
	2.3.5 Loss of Livelihood.....	14
	2.3.6 Climate Change.....	15

**THE DISTRIBUTION STUDY OF MACARANGA GIGANTEA IN UiTM
JENGA FOREST RESERVE (BASE LINE 1: LINE 1 - LINE 5 AND
LOGGING ROAD)**

By:

SHAH FAIZAL BIN SAHARUDDIN

APRIL 2005

ABSTRACT

The research was done to study the distribution of Mahang gajah (*Macaranga gigantea*) which have diameter breast height (dbh) more than 5 cm in UiTM Jengka Forest Reserve. The study plot is about 500 m x 10 m in Base Line 1: Line 1- Line 5 (0.5 hectare with the percentage 0.46 % to the whole areas of UiTM Jengka Forest Reserve) and also logging road. In this study, the distribution of Mahang gajah (*Macaranga gigantea*) in UiTM Jengka Forest Reserve was distribute randomly in study area mainly at logging road. From this study too, it was found that individuals which having diameter breast height (dbh) between 5 cm- 14 cm is the dominant category with 31 individuals in Lines and 80 individuals in logging road. In the study plot, the dominant category of diameter breast height (dbh) that found is small pole category which has a girth more than 5 cm and less than 14 cm. In logging road, 80 individuals from small pole category recorded and only 31 individuals in Lines and the total is 111 individuals (69.8% of the whole individuals), followed by big pole category which have a girth more than 15 cm but less than 30 cm with a total 44

individuals (10 individuals in Lines and 34 individuals in logging road) or 27.7% of the whole individuals. The smallest number of individuals is from pre-mature category which has a girth between 30 cm to 45 cm with total number 4 individuals in logging road (2.5%).