

A WIDE PERSPECTIVE OF TERMITES

MUHAMMAD NIZAM BIN JAMALUDIN

DIPLOMA IN WOOD INDUSTRY
UNIVERSITI TEKNOLOGI MARA

MAY 2009

ACKNOWLEDGEMENT

BISMILLAHIRRAHMANIRRAHIM

I would like to thank and give all my humble to The Almighty, The One and Only, Allah S.W.T. I also want to wish thank you to my beloved parent for giving me all the support morally and materially within the making of this research. Without their support it is nearly impossible for me to finish this research successfully. And I also want to give my thanks to my lecturer, Professor Madya Hj. Abdul Jalil Bin Ahmad as my project advisor for giving me all the helps and the information that I needed for finishing my research. I also want to give my appreciation to all my fellow friends, for lending a hand to me within the process of finishing my research. They have been a lot of help after my parents did. For the last of words, I just want to say I love all of you and thanks for those who directly and indirectly involved for the finish of this research.

CONTENT

APPROVAL SHEET.....	ii
DEDICATION.....	iii
ACKNOWLEDGEMENT.....	iv
TABLE OF CONTENT.....	v
LIST OF FIGURES.....	vii
LIST OF PLATES.....	viii
ABSTRACT.....	ix
ABSTRAK.....	x

CHAPTER ONE

1.0 Introduction

1.1 General.....	1
1.2 Objective.....	2

CHAPTER TWO

2.0 Introduction to termites

2.1 Termites VS Ants.....	3
2.2 Termites.....	6
2.3 Life cycle of termites.....	8
2.4 Biology of termites.....	10
2.4.1 Nest.....	10
2.4.2 Colonising flight.....	10
2.4.3 Starting a colony.....	11
2.4.4 Diet.....	13
2.5 Family of termites.....	15
2.6 Ecology of termites.....	17
2.7 Castes of termites.....	18
2.7.1 The Queen & King.....	18
2.7.2 Worker.....	19
2.7.3 Nymphs.....	21
2.7.4 soldier.....	21
2.8 Geographical distribution.....	25
2.9 Nests, mounds and galleries.....	26
2.9.1 Nests.....	26
2.9.2 Mounds.....	28
2.9.3 Shelter tunnels.....	30
2.10 The nest system.....	31

CHAPTER THREE

3.0 Identification of termites

3.1	Identification.....	34
3.2	Family mactotermitidae.....	35
3.3	Family rhinotermitidae.....	35
3.4	Family termitidae.....	35
3.5	Family Serritermitidae.....	35
3.6	Family kalotermitidae.....	36
3.7	Family hodotermitidae.....	36

CHAPTER FOUR

4.0 Recognizing the presence of termites

4.1	Mud Tubes or Termite Trails.....	37
4.2	Change of Colour/Texture of Wooden Area.....	37
4.3	Cracks and Holes (Hollowness of Structure).....	37
4.4	Sound of Termites.....	38
4.5	Swarmers.....	38

CHAPTER FIVE

5.0 Termites damage and method of controlling

5.1	Termites damages.....	39
5.2	Characteristics of damaged wood.....	41
5.3	Control of termites attack.....	42
	5.3.1 Alternative remedies.....	44
5.4	Prevention from termites.....	46
5.5	Chemical management.....	48

CHAPTER SIX

6.0 Discussion and Conclusion

6.1	Discussion.....	49
6.2	Conclusion.....	50

REFERENCES.....	51
VITA.....	52

A WIDE PERSPECTIVE OF TERMITES

By

MUHAMMAD NIZAM BIN JAMALUDIN

APRIL 2009

ABSTRACT

This research will mainly discuss about the main criteria of termites, how to differentiate them from the ants, their biological family, the savagery that they could do to wood and their damage to building. Also, apart from that this paperwork will provide information on signs of termite infestation, ways of prevention from termites, and the remedies from the infestation of the termites. From this paperwork it is hope that readers will have information on the termites and ways of preventing it from attack.