

## TABLE OF CONTENTS

	<b>PAGE</b>
Acknowledgement	iii
English Abstract	iv
Thai Abstract	vi
List of Tables	ix
List of Figures	x
<b>PART I</b>	
Chapter I Introduction	1
Chapter II Literature review	3
Chapter III Study Area	10
Chapter IV Methodology	13
Chapter V Result	17
Chapter VI Discussion	50
<b>PART II</b>	
Taxonomy	54
References	103
Appendices	108
Appendix A	109
Appendix B	110
Appendix C	122
Appendix D	123
Appendix E	131
Appendix F	132
Appendix G	133
Curriculum vitae	134

## LIST OF TABLES

<b>TABLE</b>		<b>PAGE</b>
1	Species diversity indices of MEF and DDF	24
2	Species of Scolytidae in MEF arranged by factor (s)	28
3	Species of Platypodidae in MEF arranged by factor (s)	31
4	Species of Scolytidae in DDF arranged by factor (s)	34
5	Species of Platypodidae in DDF arranged by factor (s)	34
6	Scolytidae and Platypodidae collected from infested log (s) in MEF	41
7	Mean number of species collected in MEF and DDF using four trapping types	48

## LIST OF FIGURES

<b>FIGURE</b>		<b>PAGE</b>
1	Identification of the Family Scolytidae	4
2	Identification of the Family Platypodidae	5
3	Ground of the mixed evergreen forest	10
4	Ground of the deciduous dipterocarp forest	11
5	Average monthly temperature and relative humidity in MEF from August 2004 to September 2005	12
6	Average monthly temperature and relative humidity in DDF from January to December 2005	12
7	Ethanol trap	14
8	Flight Intercept Trap (FIT)	14
9	Tools	15
10	White cloth sack	15
11	Number of species of Scolytidae collected in MEF	19
12	Number of species of Platypodidae collected in MEF	20
13	Number of species of Scolytidae collected in DDF	21
14	Number of species of Platypodidae collected in DDF	22
15	Feeding types of Scolytidae in MEF and DDF	23
16	Cluster dendrogram of Scolytidae in MEF	26
17	Multidimensional scaling of Scolytidae in MEF	27
18	Cluster dendrogram of Platypodidae in MEF	29
19	Multidimensional scaling of Platypodidae in MEF	30
20	Cluster dendrogram of Scolytidae in DDF	32
21	Multidimensional scaling of Scolytidae in DDF	33
22	Cluster dendrogram of Platypodidae in DDF	35
23	Multidimensional scaling of Platypodidae in DDF	36
24	Cluster dendrogram of Scolytidae in MEF (using time as factor)	37

**LIST OF FIGURES** (continued)

<b>FIGURE</b>		<b>PAGE</b>
25	Cluster dendrogram of Platypodidae in MEF (using time as factor)	38
26	Cluster dendrogram of Scolytidae in DDF (using time as factor)	39
27	Cluster dendrogram of Platypodidae in DDF (using time as factor)	40
28	Number of species of Scolytidae and Platypodidae in MEF	43
29	Number of individuals of Scolytidae and Platypodidae in MEF	44
30	Number of species of Scolytidae and Platypodidae in DDF	45
31	Number of individuals of Scolytidae and Platypodidae in DDF	46
32	Species accumulation curves of DDF and MEF	47
33	Number of species of Scolytidae and Platypodidae collected from four trapping types in MEF and DDF	49
34	Illustrations of Scolytidae and Platypodidae	55
98	New species of Platypodidae	132
99	New records for Thailand	133