

TABLE OF CONTENTS

TITLE	i
APPROVAL PAGE	ii
STATEMENT	iii
ABSTRACT	iv
BIOGRAPHY	vi
PREFACE	vii
TABLE OF CONTENT	ix
LIST OF TABLES	xi
APPENDIX LIST	xii
CHAPTER I INTRODUCTION	1
A. Background	1
B. Problem Statement	4
C. Purpose of Research	4
D. Benefits of Research	5
CHAPTER II LITERATURE REVIEW	6
A. Cabbage Plant.....	6
B. <i>Plutella xylostella</i>	7
C. <i>Beauveria bassiana</i>	9
D. <i>Lecanicillium lecanii</i>	11
E. Plant Oils	13
F. Theoretical Framework	16

G. Hypothesis	18
CHAPTER III MATERIALS AND METHODS	19
A. Research Place and Schedule	19
B. Materials and Equipment	19
C. Research Method.....	19
D. Implementation of Research	20
E. Observation Parameters.....	23
F. Data Analysis	25
CHAPTER IV RESULT AND DISCUSSION	26
A. Result	26
B. Discussion	36
CHAPTER V CONCLUSIONS AND SUGGESTION	42
A. Conclusions	42
B. Suggestion	42
REFERENCE	
APPENDIX	

LIST OF TABLES

Table 4.1 Average Viability of <i>L. lecanii</i> and <i>B. bassiana</i>	27
Tabel 4.2 Average Mortality of <i>P. xylostella</i> Larvae	28
Tabel 4.3 Average of <i>P. xylostella</i> Pupae and Imago Formed	30
Tabel 4.4 Average Time required for <i>P. xylostella</i> to Pupate.....	33
Tabel 4.5 Average Time required for <i>P. xylostella</i> to Become an Imago	34
Tabel 4.6 Average Inhibition of <i>P. xylostella</i> Larvae Feeding Activity	35

APPENDIX LIST

Appendix 1. Calculation of Viability of <i>L. lecanii</i> and <i>B. bassiana</i>	49
Appendix 2. Calculation of Mortality of <i>P. xylostella</i> Larvae.....	49
Appendix 3. Calculation of <i>P. xylostella</i> Pupae Formed	51
Appendix 4. Calculation of <i>P. xylostella</i> Imago Formed.....	52
Appendix 5. Calculation of Time Required for <i>P. xylostella</i> to form Pupa from second instar	53
Appendix 6. Calculation of Time Required for <i>P. xylostella</i> to become an Imago from second instar.....	54
Appendix 7. Calculation of Inhibition of <i>P. xylostella</i> Larvae Feeding Activity	55
Appendix 8. Documentation	57