

TABLE OF CONTENTS

APPROVAL SHEET	iv
STATEMENTS	v
ABSTRACT	vi
CURRICULUM VITAE	vii
PREFACE	viii
TABLE OF CONTENTS	ix
TABLE LIST	xi
APPENDICES LIST	xii
CHAPTER I INTRODUCTION	1
A. Background	1
B. Problem Formulations	3
C. Research Objectives	4
D. Research Benefits	4
CHAPTER II LITERATURE REVIEW	5
A. Diamondback Moth (<i>Plutella xylostella</i>)	4
B. Green Betel Plant (<i>Piper betle</i> L.).....	8
C. Extraction Process	12
D. Research Framework.....	14
E. Hypothesis	18
CHAPTER III RESEARCH METHODS	19
A. Place and Time	19
B. Tools and Materials	19
C. Research Methods	19
D. Research Implementation.....	20
E. Observation Parameters	23
F. Data Analysis	27
CHAPTER IV RESULT AND DISCUSSION	28
A. Mortality of <i>P. xylostella</i> Larvae	28
B. Larval Death Time.....	31

C. Feeding Activity	32
D. Percentage Larvae becoming Pupae.....	34
E. Time Larvae becoming Pupae.....	36
F. Percentage Larvae becoming Imago	37
G. Time Pupae becoming Imago.....	38
H. Effectiveness of Green Betel Leaves Extracted with Ethanol or N-Hexane	39
CHAPTER V CONCLUSION AND RECOMMENDATION.....	41
A. Conclusion	41
B. Recommendation.....	42
REFERENCES	
APPENDICES	