

LIST OF CONTENTS

COVER TITLE PAGE	i
FRONT COVER	ii
APPROVAL SHEET.....	iii
PREFACE	v
LIST OF FIGURES.....	ix
LIST OF APPENDICES.....	x
ABSTRACT	xii
CHAPTER I: INTRODUCTION	1
A. Scientific Background	1
B. Research Problems	3
C. Research Objectives	3
D. Research Benefits.....	3
CHAPTER II: LITERATURE REVIEW AND HYPOTHESIS.....	5
A. Literature Review.....	5
1. The Use of Barn Owl (<i>Tyto alba</i>) as a Rodent Pest Control Agent.....	5
2. Sustainability and Practical Implementation of Barn Owl as a Biological Control Method of Rodent Pest.....	6
3. Invertebrate Pests and Their Control.....	7
4. Insect Community of Paddy Fields.....	8
5. Rice Crop Growth Stages.....	10
B. Hypothesis	11
CHAPTER III: METHODOLOGY	13
A. Time and Place.....	13
B. Equipment and Materials	13

1. Equipments	13
2. Materials	13
C. Methods	14
1. Location Survey	14
2. Sampling Design	14
3. Sampling Plot Preparation.....	15
4. Insect Diversity and Abundance Measurement.....	16
5. Assessment of Invertebrate Attack Intensity	17
C. Data Analysis.....	17
CHAPTER IV: RESULTS AND DISCUSSION	19
1. Mean Insect Abundance.....	19
2. Treatment-Related Variation in Insect Community Abundance	21
3. Plot-Level Variation in Insect Community Abundance.....	24
4. Average Insect Community Abundance Across Land Sizes.....	27
5. Variation in Invertebrate Pest Attack Intensity (%) Across Treatments and Sampling Points	30
CHAPTER V: CONCLUSION AND RECOMMENDATION.....	35
A. Conclusion.....	35
B. Recommendation.....	35
REFERENCES	36
ATTACHMENT	42