

TABLE OF CONTENTS

	Page
ACKNOWLEDGEMENTS.....	iv
TABLE OF CONTENTS.....	v
LIST OF TABLES.....	vii
LIST OF FIGURES.....	xi
LIST OF APPENDICES.....	xiii
LIST OF ABBREVIATIONS.....	xiv
ABSTRACT.....	xvi
SECTION: 1.....	1
1.1: INTRODUCTION.....	2
1.2: REVIEW OF LITERATURE.....	4
1.3: MATERIALS AND METHODS.....	12
1.3.1: Data analysis.....	14
1.4: RESULTS AND DISCUSSION.....	15
1.5: SUMMARY AND CONCLUSION.....	52
SECTION: 2.....	56
2.1: INTRODUCTION.....	57
2.2: REVIEW OF LITERATURE.....	60
2.2.1 Stem borers.....	60
2.2.2 Leaf folder.....	64
2.3: MATERIALS AND METHODS.....	67
2.3.1: Data analysis.....	67
2.4: RESULTS AND DISCUSSION.....	69
2.5: SUMMARY AND CONCLUSION.....	73
SECTION: 3.....	74
3.1: INTRODUCTION.....	75
3.2: REVIEW OF LITERATURE.....	80
3.3: MATERIALS AND METHODS.....	91
3.3.1 Selection of research sites.....	91

3.3.2 Insect Collection.....	91
3.3.2.1 Sweep net.....	92
3.3.2.2 Light trap.....	92
3.3.2.3 Pitfall trap.....	92
3.4.2.4 Aquatic net.....	93
3.3.3 Insect preservation and identification.....	93
3.3.4 Metrological data.....	94
3.3.5: Data analysis.....	94
3.3.5.1: Shannon-Weaver’s diversity index.....	94
3.3.5.2: Simpson's diversity index.....	95
3.3.5.3: Hill’s diversity numbers.....	96
3.3.5.4: Estimation of species richness.....	96
3.3.5.5 Cluster analysis.....	97
3.3.5.6 Principal Component Analysis.....	97
3.3.5.7 Sorensen’s similarity index.....	97
3.3.6 Cost/benefit ratio.....	97
3.4: RESULTS AND DISCUSSION.....	98
3.5: SUMMARY AND CONCLUSION.....	164
LITERATURE CITED.....	170