

INFESTATION OF SPIRALING WHITEFLY (Aleurodicus disperses Russell) (HOMOPTERA: ALEYRODIDAE) ON PAPAYA (Carica papaya L.) AND ITS CONTROL USING TOBACCO LEAF EXTRACT AND DETERGENT

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CELESTE ESPIRITU RODERNO

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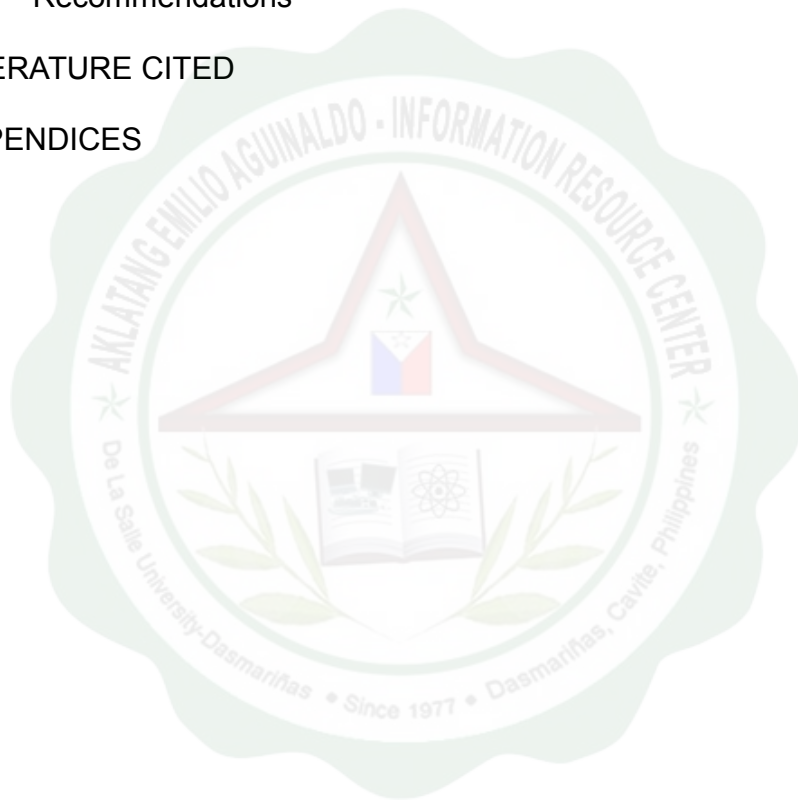
TABLE OF CONTENTS

	PAGE
APPROVAL SHEET	2
ACKNOWLEDGEMENT	3
TABLE OF CONTENTS	4
LIST OF TABLES	7
LIST OF FIGURES	8
LIST OF APPENDICES	9
ABSTRACT	11
CHAPTER 1 THE PROBLEM AND ITS BACKGROUND	
Introduction	12
Objectives of the Study	14
Scope and Delimitation of the Study	15
Significance of the Study	16
CHAPTER 2 REVIEW OF RELATED LITERATURE	
Biology of Papaya	17
Economical Value of Papaya	18
Taxonomy and Classification of Spiraling Whitefly	19
Morphology and Physiology of Spiraling Whitefly	19
Damaged Caused by Whitefly	21
Host Range	22
Seasonal Effect on Whitefly	23
Whitefly Control	25
CHAPTER 3 METHODOLOGY	
Study Site	30
Monitoring of Temperature, Relative Humidity and Frequency of Rainfall	30
Spiraling Whitefly Infestation on Papaya Leaves	31
Preparation of Treatment	31
Collection of Whitefly Pupae and Adults	33
Whitefly Control	34
Data Gathering and Statistical Tools	35

CHAPTER 4 RESULTS AND DISCUSSION	
Spiraling Whitefly Infestation	37
Whitefly Control	43
Mortality of Spiraling Whitefly on Pupal Stage	43
Mortality of Spiraling Whitefly on Adult Stage	46
CHAPTER 5 SUMMARY, CONCLUSION AND RECOMMENDATION	
Summary	52
Conclusions	53
Recommendations	53

LITERATURE CITED

APPENDICES



LIST OF TABLES

	TITLE	PAGE
1	Infestation rates of spiraling whitefly on papaya over the six-month period.	25
2	Monthly infestation rates of spiraling whitefly relative to the average temperature, relative humidity and number of rainy days in the experimental site	26
3	Percent mortality of spiraling whitefly pupa exposed to Detergent, Tobacco Leaf Extract and Detergent-Tobacco Leaf Extract combination under laboratory conditions, Indang, Cavite, April-September 2009.	33
4	Percent mortality of spiraling whitefly adult exposed to Detergent, Tobacco Leaf Extract and Detergent-Tobacco Leaf Extract combination under laboratory conditions, Indang, Cavite, April-September 2009.	35

LIST OF FIGURES

	TITLE	PAGE
1	Graph showing the infestation rate of spiraling whitefly, temperature, relative humidity and number of rainy days during the six-month period observation	29



LIST OF APPENDICES

	TITLE	PAGE
A	Raw Data and Statistical Results	
1	Individual Chi square of infestation within six-month observation.	46
2	Correlation of the Monthly Average Temperature and Frequency of Infestation within 6-month observation	46
3	Correlation of the Relative Humidity and Frequency of infestation within 6-month observation	47
4	Correlation of the Number of Rainy Days and Frequency of infestation within 6-month observation	47
5	Two-Factor Analysis with Replication for Pupal Mortality of Spiraling Whitely.	48
6	Two-Factor Analysis with Replication for Adult Mortality of Spiraling Whitely	48
7	Comparison of significance of concentrations for pupa and adult spiraling whitefly	49
8	Comparison of significance of treatments for pupa and adult spiraling whitefly	49
B	Photo-documentation	
	Plate 1: Development stages of spiraling whitefly: A. Egg; B. Larva; C Pupa; D. Adult.	51
	Plate 2: Field Site. Brgy. Lumampong, Indang, Cavite	52
	Plate 3: Collection Site. Brgy. Tambo Balagbag, Indang, Cavite	53

Plate 4:	Laboratory Area and Treatment Preparation	54
Plate 5:	(A) TLE treated adult stage and (B) Untreated adult stage.	55
Plate 6:	(A) Spiraling whitefly pupa from collection site; (B) TLE treated pupal stage and (C) Untreated pupal stage	56

C Curriculum Vitae



ABSTRACT

The research is entitled Infestation of Spiraling Whitefly (*Aleurodicus dispersus* Russell) (Homoptera: Aleyrodidae) on Papaya (*Carica papaya* L.) and its Control Using Tobacco Leaf Extract and Detergent. This study was conducted from April 2010 to September 2010. The study aimed to determine the infestation of spiraling whitefly on papaya and its correlation to temperature, relative humidity and number of rainy days, and to evaluate the pesticidal effects of tobacco leaf extract, detergent and detergent-tobacco leaf extract combination on the pupa and adult spiraling whitefly. The study concentrated on two aspects: (1) Spiraling whitefly infestation on papaya leaves conducted in the field and (2) controlling whitefly using treatments conducted in the laboratory. Results showed that the highest infestation rate of spiraling whitefly was observed in May and the lowest was observed in September. The temperature, relative humidity and rainfall had no significant effect on the rate of infestation; however, infestation rates were lower during the months of April, August and September with more number of rainy days. All treatments had insecticidal property with tobacco leaf extract as the most effective and higher concentrations of the treatments resulted in higher mortality rates on pupal stage.