*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

LIST OF TABLES

LIST OF FIGURES

LIST OF APPENDICES

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.