

**SPATIAL VARIATION OF FRUIT FLIES TRAPPED ACROSS SELECTED
LAND-USE AREAS**

ANDREA MAE MANALESE BALTAZAR

An undergraduate thesis manuscript presented to the faculty of the Department of Crop
Protection, College of Agriculture Central Luzon State University
in partial fulfillment of the requirements for the degree

**BACHELOR OF SCIENCE IN AGRICULTURE
(Crop Protection - Entomology)**

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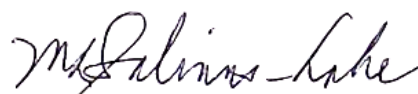
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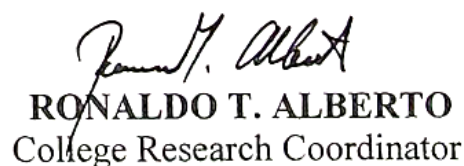
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BIOGRAPHICAL SKETCH

The author of this study was born at San Nicolas I, Magalang, Pampanga on October 17, 1995. She is the youngest of the three children of Mr. Benjamin Baltazar and Mrs. Aida Baltazar. Her siblings are named Angela Luz and Abigail. She finished her primary education in Magalang Elementary School and her secondary education at Pampanga Agricultural College. She entered tertiary education at Central Luzon State University, Science City of Muñoz, Nueva Ecija with a degree of Bachelor of Science in Agriculture Major in Crop Protection and Entomology as her field of specialization.

Aside from academics, she is also engaged in extra-curricular activities. She was member of MES Choir during her primary education. She joined PAC-Citizenship Advancement Training and became a battalion commander. She is a member of Pest Management Society, a student organization, since June 2014. She was elected as an auditor in the school year 2015-2016. She also participated in the 5th Build Ignite Grow in Leadership Seminar. She was appointed by USSC as Student Director of Research Extention and Training during the University week in February 9-13, 2015. She also volunteered in different activities such as Typhoon Lando Relief Operation at Laur, Nueva Ecija, and actively participated in the Lantern Festivals and Intramural Games of Central Luzon State University and other College of Agriculture activities.

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SPATIAL VARIATION OF TEPHRITID FRUIT FLIES ACROSS SELECTED LAND-USE AREAS ^{1/}

by

ANDREA MAE MANALESE BALTAZAR

ABSTRACT

Spatial variation of *Bactrocera* species by selected land-use areas was determined using cue-lure, methyl eugenol and zingerone as attractants. Five species of *Bactrocera* were identified namely: *Bactrocera commensurata*, *Bactrocera dorsalis*, *Bactrocera occipitalis* and *Bactrocera umbrosa* collected from methyl eugenol while *Bactrocera cucurbitae* was attracted to cue-lure. Zingerone is cue-lure and methyl eugenol -species responsive yet had the least attracted individuals since it was placed along with cue-lure and methyl eugenol. Residential area had the most *Bactrocera* species (5) due to anthropophilic or human-activity affiliated while agricultural area had the most number of individuals collected due to more kinds of host-fruits present.

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