

**NUTRIENT MANAGEMENT OF FINGER PEPPER (*Capsicum frutescens* L.)
USING ORGANIC FERTILIZER SUPPLEMENTED
WITH FOLIAR FERTILIZER**

RAYA GAIL BAUTISTA CADIENTE

An undergraduate thesis manuscript presented to the Faculty of the
Department of Crop Science, College of Agriculture
in partial fulfillment of the requirements
for the degree

**BACHELOR OF SCIENCE IN AGRICULTURE
(CROP SCIENCE – HORTICULTURE)**

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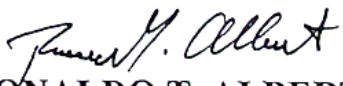
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BIOGRAPHICAL SKETCH

The author, Raya Gail Bautista Cadiente, was born on April 16, 1997 in Brgy. Bantug, Guimba, Nueva Ecija. She is the eldest among the 5 daughters of Mr. Lindy T. Cadiente and Mrs. Gina B. Cadiente. Her siblings are named Iris Dianne, Katrina, Sandra and Andrea.

She studied her Nursery and Preparatory course in Guimba United Methodist Church Learning Center. She finished her elementary education in Our Lady of the Sacred Heart Academy and her secondary education was also in the same school that has been renamed as Our Lady of the Sacred Heart College of Guimba, Inc., Guimba, Nueva Ecija.

Her family runs a business and owns an Agricultural Supply which is being managed by her mother while her father is a government employee under the Department of Agriculture in Municipality of Guimba. Because of that, she found an interest both in business and agriculture.

To fit her interest and become a degree holder, she pursue her college at Central Luzon State University, Science City of Muñoz, Nueva Ecija and took up Bachelor of Science in Agriculture major in Crop Science. In order to enhance her skills and leadership, gain more knowledge and experiences and enjoy her college life, she joined the Society of Crop Science Majors (SCSM) and became a treasurer during her time S.Y. 2015-2016.

While studying, she stayed at Ladies Dorm 6 (Sampaguita Residence Hall) for 3 semesters and decided to live in a boarding house outside the CLSU campus for her remaining semesters.

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RAYA GAIL BAUTISTA CADIENTE

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ABSTRACT

A field study was conducted to determine the influence of organic fertilizer with and without supplement of organic foliar fertilizer in the production of organic finger pepper (*Capsicum frutescens* L.). The treatments used were: Factor A- Levels of organic fertilizer (0 kg OF /4 m², 2 kg OF /4 m², 4 kg OF /4 m² and 6 kg OF /4 m² plot) and Factor B- Organic foliar fertilizer (OFF) supplement (with and without). The study was arranged in a 4 x 2 factorial experiment in Randomized Complete Block Design (RCBD) with three replications.

Results of the study revealed that finger pepper plants fertilized with 6 kg OF /4 m² plot with and without supplement of OFF significantly produced higher number of fruiting branches (11.00) at last harvesting with more number of fruits per plant resulted to higher marketable fruit yield per plot (205.84 g) and per hectare (0.52 t ha⁻¹) with higher total soluble solid (TSS). However, finger pepper plants supplemented with OFF regardless of the amount of OF applied significantly produce more number of fruits per plant with higher marketable fruit yield per plot (207.29 g) which was 133% higher than 155.84 g obtained from plants without OFF supplement.

On the other hand, the number of days to flower and first harvesting , height of plant at flowering as well as the length and diameter of fruit, leaf chlorophyll content and shelf life of harvested fruits.

¹ / Undergraduate thesis manuscript presented in partial fulfillment of the requirements for graduation with the degree Bachelor of Science in Agriculture, major in Crop Science - Horticulture from Central Luzon State University, Science City of Munoz, Nueva Ecija. Prepared at the Department of Crop Science under the supervision of Dr. Pedrito S. Nitural with Research Contribution No. CA-03-17-0005

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