YIELD PERFORMANCE OF RADISH (*Raphanus sativus* L.) AS AFFECTED BY RICE STRAW MULCHING TO COPE WITH GLOBAL TEMPERATURE STRESS DUE TO CLIMATE CHANGE

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An Undergraduate Thesis Submitted to the Faculty of the Department of Environmental Science, College of Arts and Sciences, Central Luzon State University, Science City of Muñoz, Nueva Ecija, Philippines
in Partial Fulfillment of the Requirements
for the Degree of

BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE
(Sustainable Agriculture)

JUNE 2019

ACCEPTANCE SHEET

This undergraduate thesis entitled **"YIELD PERFORMANCE OF RADISH (*Raphanus sativus* L.) AS AFFECTED BY RICE STRAW MULCHING TO COPE WITH GLOBAL TEMPERATURE STRESS DUE TO CLIMATE CHANGE,"** prepared and submitted by **MICHELLE M. RIPARIP,** in partial fulfillment of the requirements for the degree of **BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE (SUSTAINABLE AGRICULTURE)**, is hereby accepted:

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BIOGRAPHICAL SKETCH

Michelle M. Riparip is 22 years old and who was born on March 16, 1996 in Brgy. Tabacao, Talavera, Nueva Ecija. She then moved to Brgy. Bugnan, Gabaldon, Nueva Ecija on the year 1997. She was raised by her parents, Rodolfo E. Riparip and Rowena V. Manuel. She was the 1st child with her youngest sister name Rose Ann M. Riparip.

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She is an Expanded Students' Grants-in-Aid Program for Poverty Alleviation (ESGP-PA) grantee by CHED and DSWD which helps her to achieve her goals in life.

ACKNOWLEDGMENT

First, the researcher would like to thank our ALMIGHTY GOD who perpetually gives her knowledge, confidence and strength;

the researcher would like to thank every person encouraged her to pursue her research study from the very start up to the completion. This study would not be possible without their presence;

to her adviser Dr. Jonathan L. Galindez, for his unending encouragement, trust, assistance, time, extensive wisdom that he shared for the accomplishment of this study. Her admiration to her Critic, Dr. Luzviminda S. Quitos, for the admonishments, encouragements, trusts and also for the knowledge she provides, towards the success of this study;

to the acting Department Research Coordinator, Ms. Criselda P. Francisco , earnest appreciations given for the guidance, patience, support and motivation, and to all the generous faculty and staff of the Department of Environmental Science for their patience and encouragement;

her deepest appreciations to Director Jonathan L. Galindez of Ramon Magsaysay Center for Agricultural Research Extension Services, Central Luzon State University, Science City of Muñoz, and to all staff which served as experimental area. Special thanks to brother Laudencio, brother Ariel, brother Danny, brother Jimbo and sister Julie, the farm personnel of the area for their technical assistance. Her also deepest thankfulness to Ms. Ella Paragas as statician of the study;

her regards to her friends Hosannah, Yazzmin, Charlin, Alta Vida, Sharlene, Eddieson, Victoria, Robylene, Cyrill, Gem, Sharlamagne and Therie for the endless support, motivation and considerations;

she would like to acknowledge with highest gratitude the love, endless inspiration, financial support and encouragement of her family especially to her parents Mr. Rodolfo E. Riparip and Rowena M. Riparip, to her sister, Rose Ann and also to her second parents away from her own home Mr. Eleuterio Lagasca Jr. and Rossana Lagasca, her cousin, Rizza May Brion and nephew Drizz and niece Dreanne.

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ABSTRACT

RIPARIP, MICHELLE M., Department of Environmental Science, College of Arts and Sciences, Central Luzon State University, Science City of Munoz, Nueva Ecija, Philippines, **June 2019, YIELD PERFORMANCE OF RADISH *(Raphanus sativus* L*.)* AS AFFECTED BY RICE STRAW MULCHING TO COPE WITH GLOBAL TEMPERATURE STRESS DUE TO CLIMATE CHANGE**

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This study was conducted to determine the growth and yield performance of radish as influenced by mulching. The study was conducted in a field experiment of the Ramon Magsaysay- Center for Agricultural Resources and Environment Studies. Two treatments were established, the plot with mulch (T1) and no mulch (T2), each treatment were replicated three times. Result of the study showed that higher survival rate (62.89 %) was recorded from plots with mulch compared to plot with no mulch, while number of days to form tubers, showed that plots with mulch formed tubers early (25days) compared to the plant of no mulch (32days), higher weed biomass was gathered from plots with no mulch with an average of 142.92g, while the weed biomass from plots with mulch obtained an average of 90.87g. Time of irrigation was shorter from plots with mulch (8min) compared to plot with no mulch with 10 min. Higher soil temperature was recorded from plot with no mulch (35°C) compared to plots with mulch (32°C). In terms of plant height, taller plant was observed from plot with mulch (9.91 inches) compared to plot with no mulch (9.29 inches), however no significant difference was recorded in terms of tuber length. Yield of radish plant with mulch was recorded higher compared to no mulch.

Keywords: radish; with mulch; no mulch; yield performance

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