

**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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in Partial Fulfillment of the Requirements
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(Sustainable Agriculture)**

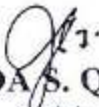
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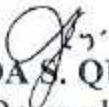
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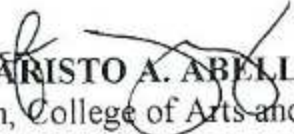
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ABSTRACT

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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