GROWTH, YIELD AND GRAIN QUALITY OF AROMATIC RICE (CL1) AS AFFECTED BY PLANT SPACING AND FERTILIZER APPLICATION

JHESTER MANIQUIZ GUMANGAN

An undergraduate thesis manuscript presented to the faculty of the Department of Crop Science, College of Agriculture, Central Luzon State University in partial fulfilment of the requirement for the degree

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BIOGRAPHICAL SKETCH

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As a requirement for graduation, he conducted his thesis entitled Growth, Yield and Grain Quality of Aromatic Rice (CL1) as Affected by Plant Spacing and Fertilizer Application at the experimental area of the College of Agriculture, Crop Science Department, .Central Luzon State University, Science City of Muñoz, Nueva Ecija,

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JHESTER MANIQUIZ GUMANGAN

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GROWTH, YIELD AND QUALITY OF AROMATIC RICE (CL1) AS AFFECTED BY PLANT SPACING AND FERTILIZER APPLICATION

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ABSTRACT

This study was conducted to determine the effect of different planting distance and fertilizer application in the growth and yield of aromatic rice. Three different planting distance: A1 (20 x 20 cm), A2 (20 x 25 cm) and A3 (25 x 25 cm) and three different fertilizer application: B1 (120 – 60 - 60), B2 (10 tons/ha of organic), B3 (60 – 15 – 15 + tons/ ha of organic) were evaluated, following Factorial in Randomized Complete Block Design (RCBD) with three replications.

Results revealed that there was highly significant difference among fertilizer application on panicle length, filled grain per panicle, weight of 1000 grain and grain yield per tons/ha. On the other hand, there are significant difference among plant spacing on percent head rice recovery, productive tiller. No significant difference was observed on the interaction between plant spacing and fertilizer application.

In this study of Aromatic rice (CL1) applied by 25cm x 25cm plant spacing and Recommended Rate of Inorganic Fertilizer consistently produced high percentage in weight of 1000 seeds, computed grain per hectare and in milling recovery data show this treatment combination have better result among nine treatment combination. This treatment can be applied (as it is more practical) to improve the yield of CL1 which is promising while awaiting release.

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