

**PERFORMANCE OF SAN FRANCISCO RICE VARIETY APPLIED WITH
CALCIUM NITRATE FERTILIZER AND PACLOBUTRAZOL**

JOFER TALADTAD DELA CRUZ

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

**BACHELOR OF SCIENCE IN AGRICULTURE
(SOIL SCIENCE)**

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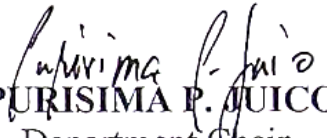
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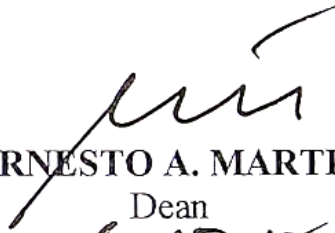

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BIOGRAPHICAL SKETCH

The researcher, JOFER TALADTAD DELA CRUZ, was born on December 18, 1995 at Brgy. Pag-asa, Sablayan, Occidental Mindoro. He is the second son of Mr. and Mrs. Joseph and Adilita dela Cruz.

Having been raised in rural settings, he used to be regularly exposed to farming works, but his real interest is on machines, tools, hardware, and improvising toys. His early ambitions were to become a mechanical engineer and an inventor.

He finished elementary education at Rang-ayan Elementary School and secondary education in Pag-asa National High School. Both schools are in Occidental Mindoro.

In 2012, he entered the Central Luzon State University, enrolling to the degree Bachelor of Science in Agriculture. He specialized in soil science due to the influence of his friends.

Due to certain complications and misfortunes, he was not able to finish his undergraduate thesis on-time, delaying him for graduation. Despite all these, he remained determined to carry on, especially due to the encouragement of his friends and his faith in God. He is a member of the Lakas Angkan Ministries Inc.

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JOFER TALADTAD DELA CRUZ

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ABSTRACT

The study was conducted to evaluate the performance of San Francisco as affected by CaNO₃ and paclobutrazol. It was tested using Split plot in Randomize Complete Block Design with Paclobutrazol concentration: A1 (0 ppm) and A2 (1000 ppm) as main factor and different levels of Calcium Nitrate fertilizer: B1 (control), B2 (RRIF), B3 (RRIF + 10 kg/ha CaNO₃), B4 (RRIF + 20 kg/ha CaNO₃), and B5 (RRIF + 10 kg/ha CaNO₃) as sub-factor.

Application of paclobutrazol had a significant effect on the yield, plant height, panicle length and number of tillers of San Francisco rice variety. Percent filled grain, weight of 1000 grains, lodging incidence and calcium content of rice stalk were unaffected.

Generally, application of paclobutrazol combined with the recommended rate of inorganic fertilizer reduced the height of the plants while increasing the yield of San Francisco.

Calcium nitrate fertilizer application without paclobutrazol had significant effect on lodging incidence, RRIF + 10 kg of CaNO₃ fertilizer got a lower lodging index, but further increase to 20 kg and 30 kg CaNO₃ results to an increase of lodging index.

^{1/} An undergraduate thesis manuscript presented to the faculty of the Department of Soil Science, College of Agriculture in partial fulfilment of the requirements for the degree Bachelor of Science in Agriculture major in Soil Science with Research Contribution No. CA-05-15-0003

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