

**RESPONSE OF DIRECT-SEEDED MESTISO 38 HYBRID
RICE VARIETY TO PRE- AND EARLY POST-
EMERGENT HERBICIDES**

CZARINAH ANGELICA PEREZ DELA CRUZ

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

**BACHELOR OF SCIENCE IN AGRICULTURE
(CROP SCIENCE-AGRONOMY)**

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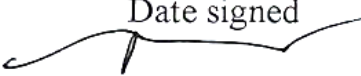
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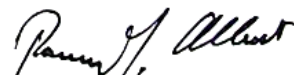
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BIOGRAPHICAL SKETCH

The author, Czarinah Angelica Perez Dela Cruz was born on the 5th day of September 1994 at Barangay Abar 1st, San Jose City, Nueva Ecija. She is the eldest child of Mr. Alberto A. Dela Cruz and Mrs. Luz P. Dela Cruz.

She finished her elementary education at San Jose West Central School located at San Jose, City Nueva Ecija, where she was a consistent honor student until she graduated. She took her secondary education at Constancio Padilla National High School located at San Jose City, Nueva Ecija. In her four years of stay in this school, she was consistently awarded as the second honors of her class. Aside from being best in Mathematics she was also awarded as Singer of the Year during her graduation.

With her dream to pursue college, she entered Central Luzon State University, Science City of Muñoz, Nueva Ecija and took up Bachelor of Science in Agriculture major in Crop Science and chose Agronomy as her field of specialization.

During her college days she joined the CLSU Maestro-Singers. She also joined the CLSU Green Crusaders, a university organization and Society of Crop Science Major (SCSM), a college organization to gain more friends, to help and to boost her social confidence.

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ABSTRACT

The study was conducted to determine the efficacy of Eros Gold DF as pre- and early post-emergent herbicide on direct-seeded hybrid rice and to determine the response of direct-seeded Mestiso 38 to different rates of pre- and early post-emergent application of herbicides. The treatments were: T1 (1 kg of Eros Gold DF per hectare), T2 (1.5 kg of Eros Gold DF per hectare), T3 (2 kg of Eros Gold DF per hectare) T4 (1 L kg of Sofit per hectare) were applied five (5) days after sowing and T5 (1 kg of Eros Gold DF per hectare), T6 (1.5 kg of Eros Gold DF per hectare), T7 (2 kg of Eros Gold DF per hectare) T8 (.5 L of Eros Gold DF per hectare) were applied ten (10) days after sowing, T9 served as the untreated check.

Result showed that the test herbicide has no injury to rice plant when applied at 5 and 10 DAS but the check herbicide Ricestar Extra showed injury to the rice plant up to 21 days after application. The result further showed that the test herbicide(Eros Gold DF) and check herbicides (Sofit and Ricestar Extra) adequately controlled all types of weeds.

Results showed that Treatment 2 (Eros Gold DFapplied five (5) days after sowing) had a higher numerical yield of 3.38 tons per hectare compared with the other treaments. Analysis of variance however, showed insignificant differences in grain yield among the treatments which indicates that gain yield was not affected by the various treatments.

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