

**MAJOR PRACTICE IN CYTOPLASMIC MALE STERILITY (CMS) LINE
PRODUCTION OF IR58025A**

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BIOGRAPHICAL SKETCH

The author BENDEJO JR, FELIZARDO CASTILLO was born on November 23, 1995 at Gamu, Isabela.

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While studying, he experienced problems but he didn't give up. He was able to overcome his trials and suffering through the help of our Almighty God, as well as his family and friends.

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ABSTRACT

BENDEJO JR, FELIZARDO CASTILLO. Department of Crop Science, College of Agriculture, Central Luzon State University, Science City of Muñoz, Nueva Ecija, January 2018.

Major Practice in Cytoplasmic Sterility (CMS) Seed (IR58025A) Production

Venue: Phil-Sino Center for Agricultural Technology (PhilSCAT), Central Luzon State University, Science City of Muñoz, Nueva Ecija.

Adviser: **Dr. Carlos C. Abon Jr.**

The major practice in Cytoplasmic Male Sterility (CMS) Line (IR580R25A) Production was conducted from month of June to October 2017 at Phil-Sino Center for Agricultural Technology (PhilSCAT), Central Luzon State University, Science City of Muñoz, Nueva Ecija.

The objectives of the major practice is to expose the student in actual operations and management of Cytoplasmic Male Sterility (CMS) Line (IR58025A) Production specifically: to enhance the knowledge of the student and develop skills in the production of hybrid rice seeds, to produce 750kg (15kg/bag) per ha of clean hybrid rice seed in 1 hectare area and to compute and present the cost and return analysis for CMS seeds production.

The field practice student endured hands-on training in the different activities like growing seedlings in the seedbed, transplanting, nutrient and pest management,

preparation and application of GA₃, supplementary pollination, rouging and post-harvest handling like harvesting, cleaning, seed drying, labeling and storing.

The yield attained from 10,000 m² of Cytoplasmic Male Sterility seed production obtained was of 210 kilograms which was sold at Php 750 per kg and gave a gross income of Php 157,500 while B-line attained 784 kilograms sold at Php 18 per kg which gave Php 14,112. The total gross income for CMS and B-line was Php 171,612. The cost and return analysis revealed a net income was Php 97,627 and a production cost of Php 73,985. This resulted to Percent Return on Investment of 219%.

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