

MAJOR PRACTICE IN ORGANIC RICE PRODUCTION

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This major practice manuscript entitled “**MAJOR PRACTICE IN ORGANIC RICE PRODUCTION**”, prepared and submitted by **DENMAR NIMENZO DAAG**, in partial fulfillment for the degree Bachelor of Science in Agriculture (Crop Science – Organic Farming) is here by accepted.


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BIOGRAPHICAL SKETCH

Denmar N. Daag began life in December 20, 1991 in Malayantoc, Sto. Domingo Nueva Ecija. He is the youngest son of Mrs. Emiliana N. Daag, housewife, and Mr. Amor O. Daag, a farmer.

He finished his elementary schooling in Malayantoc Elementary School and his secondary schooling in Muñoz National High School.

In his college, he took Bachelor of Science in Agriculture major in Crop Science specialized in Organic Farming in Central Luzon State University which is a top performing university in the Philippines.

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ABSTRACT

DAAG, DENMAR NIMENZO Department of Crop Science, College of Agriculture, Central Luzon State University, Science city of Muñoz, Nueva Ecija, June 2017.

Major Practice in Organic Rice Production

Venue: **Agronomy, Soils and Plant Physiology Division (ASPPD)**
Philippine Rice Research Institute (PhilRice)
Maligaya, Science City of Muñoz

Adviser: **Prof. Pacifico T. Vizmonte Jr.**

The major practice was conducted at the Agronomy Soil and Plant Physiology Division (ASPPD) in Philippine Rice Research Institute (PhilRice) – Long Term Organic Farming (LTOF) in Maligaya Science city of Muñoz Nueva Ecija during the dry season (DS). The objectives of the major practice; 1) to develop skills and enhance the knowledge on organic rice production practices 2) to acquire hands on experience in different activities related to organic farming practices particularly azolla technology and vermicomposting 3) to perform laboratory activities such as macro and micro nutrient analysis related to the scientific conduct of field experiments 4) to present the cost and return analysis of organic rice production.

The main activity of the major practice student was the experience in the conduct of organic production and perform laboratory activities useful in scientific conduct of field

experiment and presentation of cost and return analysis using azolla as source of organic fertilizer. The azolla was the source of organic fertilizer. Azolla has 2.5-5.3 % of (N) Nitrogen and 0.16-1.59 % of (P) Phosphorus and 0.4-6.0 % of (K) Potassium per 100 kg of azolla. help to increase the number of tiller of rice during tillering stage.

The average yield using Azolla as nutrient source in 400 m² of PSB Rc82 ranged from 3-4 t ha¹ compared to 5-4 t ha¹ average yield. The cost and return analysis using milled rice has a gross income of Php 72,000.00, with the total operating expenses of Php 70, 625.83, with a net income of Php 1,274.17. The cost of labor and material inputs were not very high compared to rice straw and chicken manure (Sumawang, 2017; and Mercado 2017) wherein the results produced were negative.

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