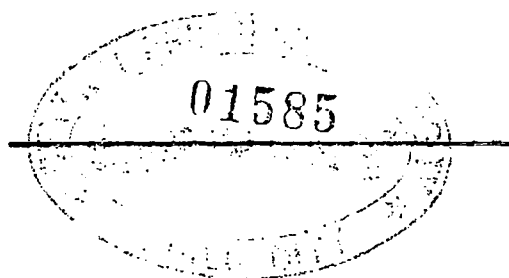


CENTRAL PHILIPPINE UNIVERSITY, ILOILO CITY

A STUDY OF THE PHYSIOLOGICAL CHARACTERISTICS
OF PETA RICE VARIETY IN RELATION TO TIME
OF NITROGEN FERTILIZATION



A Thesis

Presented to
the Faculty of the College of Agriculture
Central Philippine University

PHOTOCOPYING NOT ALLOWED

In Partial Fulfillment
of the Requirements for the Degree
Bachelor of Science in Agriculture

by

Manuel Celiz Palada

November 1966

ABSTRACT OF THE THESIS

A STUDY OF THE PHYSIOLOGICAL CHARACTERISTICS
OF PETA RICE VARIETY IN RELATION TO TIME
OF NITROGEN FERTILIZATION

by

Manuel C. Palada

Mr. Bernabe Cocjin, Adviser

The purpose of this study was to know the physiological characteristics of Peta rice variety as influenced by the time of nitrogen fertilization. The importance of this study was to help the farmers know the proper time of applying nitrogen fertilizer to their rice crop.

A Randomized Complete Block Design was used in this study. There were nine treatments replicated five times. The treatments consisted of the following time of nitrogen applications from seeding: A--three and six weeks, B--three and seven weeks, C--three and eight weeks, D--three and nine weeks, E--three and ten weeks, F--three and eleven weeks, G--three and twelve weeks, H--three and thirteen weeks, and I--control (no fertilization).

The rice plants were planted in pots and were observed from seeding to maturity. The significant findings were as follows:

1. That the first nitrogen application increased tillering.
2. That two weeks after first nitrogen application height of plants increased.
3. That the panicle emergence, and maturity of plants were greatly affected by the second nitrogen application.
4. That number of panicles was highest when nitrogen was applied three and nine weeks from seeding.
5. That grain yield in plants fertilized three and nine weeks from seeding gave the highest yield among all treatments.

It is recognized that this research needs further study and be conducted in the field because adverse conditions exist in the field different from that in the pots.