

PRODUCTION MANAGEMENT STUDY ON CUCUMBER
(Cucumis sativus L.) DURING WET SEASON

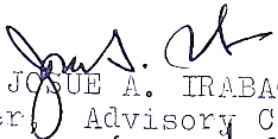
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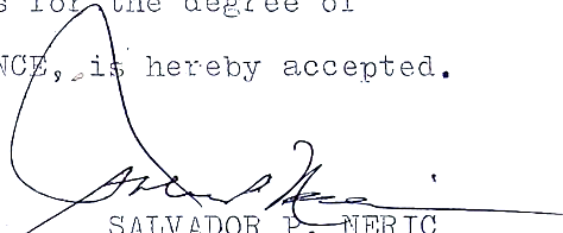
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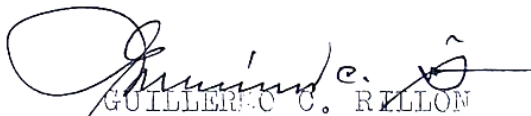
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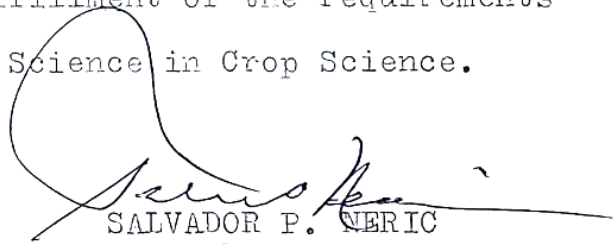
The thesis entitled, "PRODUCTION MANAGEMENT STUDY ON CUCUMBER (Cucumis sativus L.) DURING WET SEASON" prepared and submitted by ORLANDO B. PORJA in partial fulfillment of the requirements for the degree of MASTER OF SCIENCE IN CROP SCIENCE, is hereby accepted.


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BIOGRAPHICAL SKETCH

The author was born on February 22, 1960 in Koronadal, South Cotabato. He is the seventh of the ten children of Mr. and Mrs. Adolfo L. Borja.

He obtained his elementary education in Koronadal Pilot Elementary School in 1973, and his secondary education at the Koronadal National Comprehensive High School in 1977 both schools found in Koronadal, South Cotabato. Due to his desire and ambition to pursue higher education, he enrolled at the University of Southern Mindanao, Kabacan, North Cotabato where he graduated with Certificate (two-year course) Associate in Agriculture in March 1979 and where he obtained also the degree of Bachelor of Science in Agriculture major in Horticulture on May 1981.

After graduation, he joined the government service as Agriculture teacher under Ministry of Education, Culture and Sports for two years in the Division of South Cotabato. Then he transferred to the City Engineer's Office, General Santos City, as Construction Inspector for more than a year, February 1984 to

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In 1986, he was granted a scholarship to pursue the degree of Master of Science in Crop Science - Horticulture in the Institute of Graduate Studies, Central Luzon State University, Muñoz, Nueva Ecija. He obtained a certificate of recognition for being one in the Dean's List for the first semester, SY 1986-87 at the same time elected as the President of Crop Science Society. In the following year he was elected as the President of Graduate Students Association for the school year 1987-1988.

He is married to the former Nancy C. Puig, CPA; Bank Accountant, SSCRBI, Koronadal, South Cotabato. They have one and a half-year old son named Ryan Patrick.

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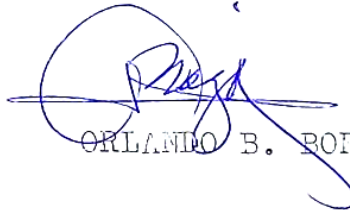
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ORLANDO B. BORJA

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ABSTRACT

BORJA, ORLANDO B., Institute of Graduate Studies,
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Philippines, March 1988. PRODUCTION MANAGEMENT STUDY
ON CUCUMBER (Cucumis sativus L.) DURING WET SEASON.

Adviser: Dr. Guillermo C. Rillon

The study was conducted to determine the growth, yield, and economics of production of cucumber grown under different management practices during wet season. The treatments were 0-nitrogen, 100% urea, 100% manure, 50:50 urea-manure, and 70:30 manure-urea; with and without trellis; without mulch, rice hull and rice straw with three replications per treatment arranged in a 5 x 2 x 3 factorial experiment in Randomized Complete Block Design (RCBD).

Urea and manure combination of 50:50 and 100% urea excelled all other treatments in terms of growth, yield, and economics of production. These treatments obtained best results on yield and quality when plants

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were provided with trellis. Trellis contributed a large portion to the cost of production. However, it could be partially compensated by higher yield and better quality fruits. There was no marked effect of mulch on the growth and yield components of cucumber.

More non-marketable fruits were observed in plants without trellis due to disease infection. Underdeveloped and deformed fruits were produced from plants applied with 100% manure and 0-nitrogen and those were considered non-marketable.

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