

**VEGETATIVE PROPAGATION OF GIANT BAMBOO (*Dendrocalamus asper*
Schult) AS INFLUENCED BY NUMBER OF NODES PER CUTTING
AND TYPES OF ROOTING HORMONE**

MARK KEVIN HARVEY L. BERNARDEZ

An undergraduate thesis manuscript presented to the faculty of the Department of Crop
Science, College of Agriculture, in partial fulfillment of the requirements
for the degree

**BACHELOR OF SCIENCE IN AGRICULTURE
(Crop Science - Horticulture)**

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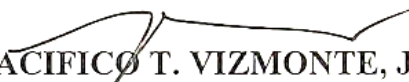
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BIOGRAPHICAL SKETCH

The author was born on the 30th day of August in the year 1994 at Cabanatuan City, Nueva Ecija. He is the eldest among the two sons of Mr. Andres B. Bernardez and Mrs. Naty L. Bernardez.

He finished his elementary education and secondary education in Our Lady of the Sacred Heart College at Guimba Nueva Ecija.

The Central Luzon State University located at the Science City of Munoz, Nueva Ecija served as his next home while taking up his college education with a degree on Bachelor of Science in Agriculture, Major in Crop Science and Horticulture as specialization. The author was equipped with integrity, dexterity and good virtue that helped him to pursue his agricultural education.

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VEGETATIVE PROPAGATION OF GIANT BAMBOO (*Dendrocalamus asper* Schult) AS INFLUENCED BY NUMBER OF NODES PER CUTTING AND TYPES OF ROOTING HORMONE

ABSTRACT

A pot experiment was conducted to determine the rooting response of giant bamboo (*Dendrocalamus asper* Schult) to different nodes per cutting and types of rooting hormone. The different treatment: Factor A – Type of rooting hormone; Rootgro (ANAA) and Hormex (IBA); Factor B – Number of nodes per cutting; Two-node cutting, three-nodes per cutting and four-node cutting.

Results of the study revealed that only type of rooting hormone significantly affected the rooting response of giant bamboo cuttings. Early rooting of 20 days and longer roots of 6.67 cm were noted from cuttings treated with Rootgro (ANAA) rooting hormone regardless of the number of nodes per cutting. However, the length of shoot and percentage rooted cuttings of giant bamboo cuttings was not affected by the two factors evaluated.

INTRODUCTION

Growth rate of bamboo is faster than any other plants on the planet (Chaowana, 2013) with a phenomenal growth rate of 15 to 18 cm per day reaching maximum height in four to six months (Verma et. al., 2012). Along with rice, corn and sugar cane, bamboo

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