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INDUCTION OF POINSETTIA (*Euphorbia pulcherrima*) USING DIFFERENT TECHNIQUES

RESEARCH STUDY

BRYAN MAG G. MANALASTAS
JEFERSON S. MAPANOO

Science High School
CAVITE STATE UNIVERSITY
Indang, Cavite

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FLOWER INDUCTION OF POINSETTIA *(Euphorbia pulcherrima)* USING DIFFERENT TECHNIQUES

A Research Study
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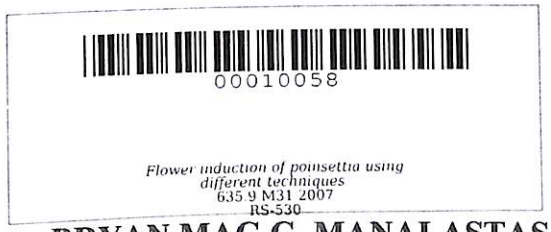
In partial fulfillment
of the requirements for graduation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Flower induction of poinsettia using different techniques
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BRYAN MAG G. MANALASTAS
JEFERSON S. MAPANOO
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ABSTRACT

MANALASTAS, BRYAN MAG G. and **JEFERSON S. MAPANOO. Flower Induction of Poinsettia Using Different Techniques,** Research Study. Cavite State University Science High School, Indang Cavite. April 2007. Adviser: Prof. Carlos P. Rodil.

The study entitled, "Flower Induction of Ponsettia Using Different Techniques" was conducted at the Ornamental Nursery of the College of Agriculture, Forestry, Environment and Natural Resources, Cavite State University (CAFENR-CvSU) at Indang, Cavite. The study aimed to evaluate various flower induction techniques in poinsettia. Specifically, it was undertaken to: determine the effects of the application of light control, ethylene concentration and potassium nitrate as flower inducer in poinsettia; compare the flowering response of poinsettia to different techniques that were used; and determine the best flower induction technique in poinsettia.

Four treatments were used in the study (control, spraying of potassium nitrate, application of ethylene smoke and light control. From 60 experimental plants, five parameters were gathered and analyzed using ANOVA and DMRT.

Based on the results of the study, light control treatment was the most effective flower inducing technique for poinsettia.

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FLOWER INDUCTION OF POINSETTIA *(Euphorbia pulcherrima)* USING DIFFERENT TECHNIQUES[1-/]

Manalastas, Bryan Mag G.
Mapanoo, Jeferson S.

[1-/]A research study submitted to the faculty of Science High School, College of Education, Cavite State University, Indang, Cavite in partial fulfillment of the requirements for graduation. Prepared under the supervision of Prof.Carlos N. Rodil

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- INTRODUCTION

Poinsettia *(Euphorbia pulcherrima)* is a member of Euphorbiaceae or spurge family. This flowering plant can be found almost all over the world. They are one of the most popular flowers during Christmas season. They are susceptible to cold for about 25-30 degrees Celsius. As an ornamental plant, poinsettia has dark green leaves and bright colored flowers. Poinsettia's flowers are slow to develop so they can be the cause of loss of income to people who use it as a source of income or livelihood.

Several modern techniques, inventions and innovations were introduced especially in the field of agriculture and crop productions. Some fruits, vegetables, and flowering plants such as poinsettia, grow and bear flowers in seasons. After a long time of research and series of test, growth hormones were developed to improve the development of seasonal flowering plants. Many chemicals can modify plant growth.