EFFECT OF DIFFERENT INSECT REPELLANT ON THE STORABILITY AND GERMINABILITY OF SELECTED LEGUMINOUS SEEDS

RESEARCH STUDY

Agri - Science Curriculum

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A Research Paper Submitted to the Faculty of
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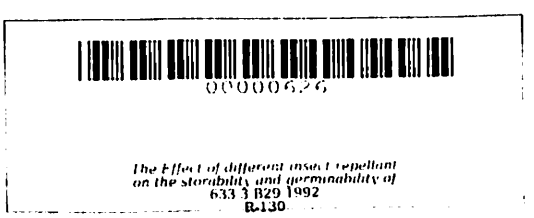
in Applied Research IV



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ABSTRACT

BASILIO, CHERRY SUSAN T., Agricultural Science. Department, Don Severino Agricultural College, Indang, Cavite, March 1992 "The Effect of Different Insect Repellant on the Storability and Germinability of Selected Leguminous Seeds."

Adviser: Professor Josefino A. Viado

The study was conducted to determine the effect of different insect repellant on the storability and germinability of selected leguminous seeds. It further aimed to identify which insect repellant (napthalene ball, hot pepper, and tobacco midrib) is best suited on the longevity or storability of selected leguminous seeds.

A Total of 900 leguminous seeds (string beans, pigeon pea and winged bean) were used in a Split Plot Design with insect repellant as the main-plot factor and leguminous seeds as the subplots. They were replicated three times.

The study revealed that the different insect repellant used has not greatly affected the storability and germinability of seeds. However, the leguminous seeds used showed great effect on it. Treatments with napthalene ball as the insect repellant attained the highest percentage of germination and the lowest percentage of seed attacked. It was found to be the best for storing seeds. The Control treatment attained the longest number of days from sowing to germination both in

field and laboratory germinated seeds.

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THE EFFECT OF DIFFERENT INSECT REPELLANT ON THE STORABILITY AND GERMINABILITY OF SELECTED LEGUMINOUS SEEDS

by

Cherry Susan Turado Basilio

1/ A Research Study submitted to the faculty of the Agricultural Science Department, Don Severino Agricultural College, Indang, Cavite in partial fulfillment of the requirements in Applied Research IV. Prepared under the supervision of Prof. Josefino A. Viado.

INTRODUCTION

IMPORTANCE OF THE STUDY:

Legumes are very important crops in the Philippines. They are principally grown for human consumption. They can serve as meat substitute because of their high protein content. Rapid expansion of animal enterprises and food manufacturing creates a great demand for these crops.

Legumes are propagated by seeds. By using high quality seeds, you are sure of obtaining high profit. Seed quality largely determine the yielding capacity of a crop species. Keeping seeds in store for the next cropping season is an important and critical undertaking which necessitate due attention among farmers. Methods of storage may vary depending upon the length of time the seeds are to