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1100066822 Effects of moisture contents on seed storage of okra (Abelmoschus esculentus), greenbean (Phaseolus vulgaris) and longbean (Vigna sinensis) at room temperature / Mohd Faizal

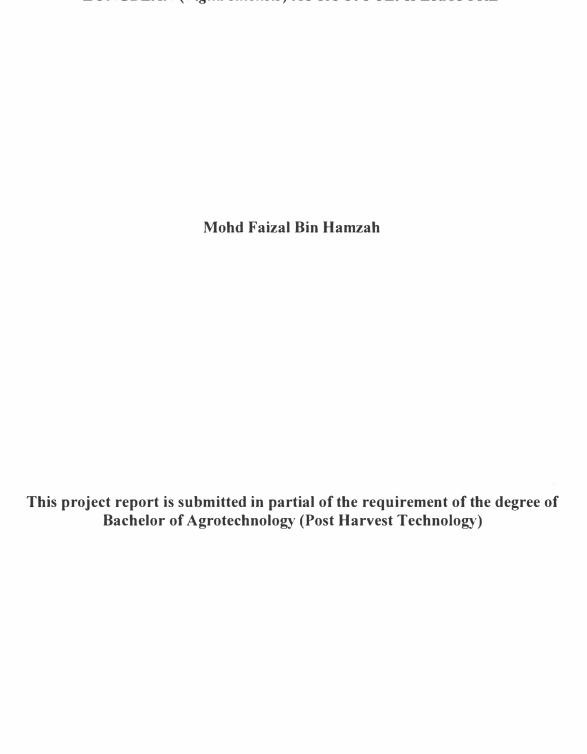


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EFFECTS OF MOISTURE CONTENTS ON SEED STORAGE OF OKRA (Abelmoschus esculentus), GREENBEAN (Phaseolus vulgaris) AND LONGBEAN (Vigna sinensis) AT ROOM TEMPERATURE



FACULTY OF AGROTECHNOLOGY AND FOOD SCIENCE UNIVERSITI MALAYSIA TERENGGANU

This project should be cited as:

Mohd Faizal, H. 2008. Effect of moisture contents on seeds storage of okra (Abelmoschus esculentus), greenbean (Phaseolus vulgaris) and longbean (Vigna sinensis) at room temperature. Undergraduate thesis, Bachelor of Science in Agrotechnology (Post Harvest Technology), Faculty of Agrotechnology and Food Science, Universiti Malaysia Terengganu. 54p

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2008

ACKNOWLEDGEMENTS

First of all, I would like to take this golden opportunity to express my sincere appreciation to my supervisor, Dr. Chuah Tse Seng for his continuous comments, patience thought and guidance that enable this project to run smoothly. Besides, I would like to express my sincere thanks to the members of examination board for their patience in reviewing my thesis. I would also like to extend my gratitude to the laboratory assistances for their kindly assistance and help. Appreciation is also extended to my parents and friends for their support and living encouragements as well as the tower strength in my hour of needs. Last but not least, my appreciation also goes to those who have contributed to this project.

ABSTRACT

A study on the effects of different moisture contents on seeds of okra (*Abelmoschus esculentus*), greenbean (*Phaseolus vulgaris*) and longbean (*Vigna sinensis*) was undertaken at room temperature under laboratory conditions. The parameters measured are germination percentage, seed death percentage, dormancy percentage and mean time germination (MTG). At 18% and 6% of moisture contents, the germination percentage of okra was lower but seed death percentage was higher as compared to other moisture contents. For long bean, germination percentage was declined but seed death percentage was increased when reducing the moisture content to 6%. Seed dormancy was higher as the moisture content of longbean was reduced to 6% while no effect was observed on greenbean seeds containing 9% and 12% moisture contents. Reduction of moisture content of okra seeds caused higher mean time germination, while no effects was found on greenbean and longbean seeds. The results of this study indicate that the optimum moisture content for storage of okra seeds is found to be between 10% to 14%, while for longbean is between 9% to 12%.