**EFFECT OF HARVESTING TIME ON SEED EMERGENCE AND SEEDLING VIGOR OF SOYBEAN GENOTYPE IN MAKURDI**

**BY**

**IKWUE ALICE  
17/41366/UE**

**A PROJECT REPORT SUBMITTED TO THE DEPARTMENT OF PLANT BREEDING AND SEED SCIENCE, COLLEGE OF AGRONOMY,   
JOSEPH SARWUAN TARKA UNIVERSITY, MAKURDI, IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF BACHELOR OF AGRICULTURE (B. Agric.) PLANT BREEDING AND SEED SCIENCE**

**MARCH, 2023**

**DECLARATION**

I, DANIEL OGBENE MERCY, hereby that this project work; Effect of harvesting time on seed emergence and seedling vigor of soybean genotype in markurdi is my original work and has been submitted to any College, Institute or University for the award of any degree if certificate.

IKUWE ALICE SIGN/DATE………………………

14/41366/UE

**CERTIFICATION**

We the undersigned, hereby certify that this project presented to IKWUE ALICE be accepted as fulfilling part of the requirements for the award of degree of Bachelor of science in Agriculture.

**Title: EFFECT OF HARVESTING TIME ON SEED EMERGENCE AND SEEDLING VIGOR OF SOYBEAN GENOTYPE IN MAKURDI**

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**Head of Department Signature/Date**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**External Examiner Signature/Date**

**DEDICATION**

This project is firstly dedicated to God and to my parents Mr. Sunday Ameh Ochigbo and Mrs. Mary Ochigbo, and to all my family members and everyone who contributed in one way or the other during my course of study.

**ACKNOWLEDGEMENT**

This work cannot be accomplished without any regard to the knowledge, ideas, views and financial assistance of others as a result of my heartfelt gratitude to all whom in different ways contributed to its success.

I humbly express my profound gratitude to almighty God who gave me the opportunity to undertake this study successfully despite many challenges around me and around family he makes my program a complete success.

I wish to express my gratitude to my able and cooperative supervisor Mr. Dennis Iorkor, who in spite of his tight schedule went through the menuscript and subsequently made all the necessary correction and offered valuable suggestions that made the research work a success.

I am also grateful to the Dean, College of Agronomy Prof. Vangie and the Head of Department , Dr. P.A. Kortse and the entire staff of the department of plant breading and seed science and also the entire staff of the college of agronomy.

Also extend my gratitude to my family for this study will not have been achieved without their show of love, to my father, Mr. Sunday Ameh OchigboI say a very big thank you.

Many thanks to family friends, course mates, friends and many who in one way or the other assist financially, spiritually and other especially Mr. Gbenge Dere and many others that their names were not mentioned here thanks a million. Finally, to the one that help me out in my work a very big thank you sir.

Also, to my family on campus, I want to say very big thank you to FCS Family especially Press and Publicity and my unique people of the business center thanks a lot.

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**ABSTRACT**

Abstract Studies were carried out on seeds of TGX-1448-2E, TGX-1904-6F and TGX-1951-3F in a 5cmx50cm factorials experiment in a complete randomized designed replicated three times for storage conditions, respectively. The experiment was conducted at the Plant Breeding and Seed Science Laboratory, University of Agriculture, Makurdi. The storage conditions were cold at 15EC and ambient at 32EC for 6 months. Germination test was carried out according to the standard procedure of International Seed Testing Association at 5 and 8 days after planting. Twenty five intact seeds were placed in petridishes containing double layered rolled filter paper. Petri-dishes were moistened everyday with distilled water and seeds were allowed to germinate. Data were obtained from five normal seedlings for root, shoot and seedling lengths. Seedling dry weight was determined after sun drying to a constant weight and weighed by an electronic balance. Data was subjected to analysis of variance using MINITAB version. Significant treatment means were separated using LSD at 5% probability. Result indicated that varieties differ significantly in their agronomic traits of days to effect on the harvesting time and the seedling vigor of soybeans.