

AN INDUSTRIAL TRAINING REPORT ON CROP PRODUCTION AND MANAGEMENT CARRIED OUT AT NATIONAL SEMI-ARID RESOURCES RESEARCH INSTITUTE (NaSARRI), SERERE DISTRICT FROM 28TH FEBRUARY TO 22ND APRIL 2022

COMPILED BY

NAME: ATIKUN TIMOTHY

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CONTACT: 0778698604/0702901832

EMAIL: atikuntimothy20@gmail.com

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TO BE SUBMITTED TO BUSITEMA UNIVERSITY ARAPAI CAMPUS (BUAC) FACULTY OF AGRICULTURE AND ANIMAL SCIENCES DEPARTMENT OF AGRIBUSINESS AND EXTENSION FOR PARTIAL FULLFILMENT OF THE REQUIREMENT LEADING TO THE AWARD OF DIPLOMA IN CROP PRODUCTION AND MANAGEMENT

DATE OF SUBMISSION;



DECLARATION

I ATIKUN TIMOTHY do declare that the information in this report was truly produced out by my strength and commitments and that it's the first of its kind and has never been submitted to any other university or higher institution of learning.

Name of student. ATIKUN	TIMOTH
Signature:	
Date: 27th April 2022	
(

APPROVAL

This industrial training was conducted and closely supervised under the following persons;

I. Field supervisor, NaSARRI
Name ARU JOHN CHARLES
Signature
Date 28/04/2022
II. Internship coordinator, NaSARRI
Name Name Name Name Name Name Name Name
* 48 APR 2029
Date NASARRI
III. Director of research, NaSARRI
Name OBUO JOHN EMIDIANIS
Signature Del
Date 28/4/2022
IV. Academic supervisor, BUAC
Name
Signature
Date

DEDICATION

I dedicate this report to my beloved parents Mr. Atikun Simon Peter and Ms. Ikiror Betty, my uncle Mr. Erute Necklet, my brothers and sisters, friends; ACHAM NORAH, LOGOSE BRIDGHET GIFT and all my field instructors who supported in the field.

CLASS NO. FAA 2107

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My first acknowledgment goes the almighty God for his merciful hand upon me for giving me strength and health, my academic and field supervisor for their support and guidance rendered to me during the field work. Furthermore, I wish to extend my sincere thanks to BUAC administration for offering me an opportunity to pursue a course. I would also like to extend my appreciation to the Director research Dr.Michael Ugen and the management of NaSARRI for offering me a training place. Great thanks to the following, Mr. Aru John Charles my field supervisor, field assistants Mr. Okiasi Francis, Mr. Wangolo Kenneth and Mr. Egosu John Kokas and all the personnel for their tireless effort and support during the training and writing of this report.

Finally, I would like to extend my appreciation to our head of department for providing me with an introductory letter that availed me a place at NaSARRI for my field training, long live NaSARRI.

May the almighty God bless you all!

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LIST OF ABBREVIATIONS

BPA: Bukalasi Pedigree Albar

BUAC: Busitema University Arapai Campus

DCP: Diploma in Crop Production and Management

E.g. Example Given

IT: Industrial Training

NARO: National Agricultural Research Organization

NaSARRI: National Semi-Arid Resource Research Institute

PARI: Public Agricultural Research Institute

RCD: Randomized Complete Design

REG NO: Registration Number

Rep: Replicates

SAARI: Serere Agriculture and Animal Research Institute

SATU: Serere Albar Type Uganda

YMD: Yellow Mosaic Disease

ABSTRACT

The industrial training report was carried out at National Semi-Arid Resources Research Institute (NaSARRI), Serere located 21km south west of Soroti from 28th February to 22nd April 2022. In this training, I was attached to five different programs which included dry land cereals, dry land legumes, oil crops, and cotton and farm management. The main objective of the training was to equip students with basic practical skills while relating to the theoretical knowledge learnt in class into practical. The source of information was obtained from field technicians while in the field and through reading text books containing relevant information, visual observations in the field and interactions with other internees. This report comprises of four chapters which include; chapter one containing the background, location and objectives. Chapter two contains activities that carried out in various sections. Chapter three has the skills, responsibilities, challenges faced, the influence on my future career and the correlation of the attachment with classroom knowledge. Chapter four contains the conclusions and recommendations. The following skills were gained during my IT, hybridization/emasculation, field marking and use of digital weighing scales (precision weighing scales). However, some challenges were met such as long distances, shortage of clean water and the dry season whereby only few experimental plants were present which made pests and disease identification very difficult. In conclusion, the industrial training was very successful and educative as it equipped me with practical skills and knowledge which further made it more efficient. To counter the above challenges, the administration of NaSARRI should provide clean water to the internees, provide accommodation and the university administration should arrange for students IT during the wet season where there are many field activities to make pest and disease identification easy.



CHAPTER ONE

1.0 INTRODUCTION

The National Semi-Arid Resource Research Institute (NaSARRI) formally called SAARI is one of the 17 public agricultural research institutes under National Agricultural Research Organization (NARO). NARO is responsible for conducting and coordinating agricultural of crops, livestock, fishing, forestry and natural resources and also to ensure dissemination of results.

It falls under the category of National Agricultural Research Institutes (NARIS) which carries and manages agricultural research of strategic nature and national importance.

NaSARRI conducts applied and adaptive research in agriculture in the experimental station for ox-cultivation technology that was designed to support and uplift cotton production in Teso and for training the staff from the department of agriculture by then. NaSARRI has made a fundamental and considerable progress since its creation but all these progress could not have happened if it was not because of support from the government of Uganda and several donors.

1.1 BACKGROUND OF NaSARRI.

Agricultural research at NaSARRI was started in the year 1920 by the colonial government. It was initially called Serere Agricultural and Animal Production Research Institute (SAARI) for semi-arid tropics on crops then changed to NaSARRI with the support from the government of Uganda and several donors especially world bank which provides the major funding.

1.2 LOCATION OF NaSARRI.

The National Semi-Arid Resources Research Institute (NaSARRI) P.O, BOX 56 Soroti Uganda or email director@NaSARRI.og.ug/www.nasarri.og.ug, is located 21km south west of Soroti town Serere district, olio sub-county, Igola parish.

1.3 THE VISION OF NaSARRI.

To be a market leader in generation and dissemination of appropriate crop technologies for sustainable development in semi-arid regions of Uganda

