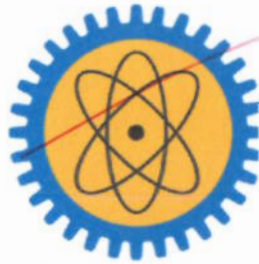


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BUSITEMA



UNIVERSITY

FACULTY OF AGRICULTURE AND ANIMAL SCIENCES (FAAS)

**INDUSTRIAL TRAINING REPORT CONDUCTED AT NATIONAL SEMI-ARID
RESOURCES RESEARCH INSTITUTE (NaSARRI) - SERERE DISTRICT
FROM 28th FEBRUARY TO 6th MAY 2022**

SUBMITTED BY:

MODING DAVID

REG NO: BU/UP/2019/3144

STUDENT NO: 1900403144



DCP 2

**SUBMITTED TO THE DEPARTMENT OF AGRIBUSINESS AND EXTENSION OF
BUSITEMA UNIVERSITY-ARAPAI CAMPUS IN PARTIAL FULFILMENT OF THE
REQUIREMENTS FOR THE AWARD OF A DIPLOMA IN CROP PRODUCTION AND
MANAGEMENT OF BUSITEMA UNIVERSITY**

MAY, 2022



**BUSITEMA
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Pursuing Excellence

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**INDUSTRIAL TRAINING
WEEKLY LOGBOOK**


6/12

NAME: **KOBING DAVID**

REG. NO. **BULUP/2019/3144**

1st Week

1 (ONE) FARM MANAGEMENT.

Date	Activities Carried Out	Relevance of Activity to you as a Student	Participants	Comments and Signature of Field Supervisor/ Responsible Person
Monday 7/03/2022	Orientation: to Reporting	- To acquaint students to different programmes run at NASARU, Rules & regulations or policies.	- Administrators (Mr. Okuong Dafa & Mr. Okuo Peter). - Students (M=4, F=7)	<p>The student was physically present and involved in practical activities. He's a joyful learner.</p>  <p>farm Manager, 0774612769</p>
Tuesday 8/03/2022	General Farm Management: Introduction to the Principles of farm management, drawing of the work plan for each section in farm management.	- Proper allocation of students to different sections within farm management.	- Mr. Okiring Joseph - Students (M=4, F=7)	
Wednesday 09/03/2022	Meteorology: Introduction to weather elements and their effects, Identifying various weather elements instruments, collecting analyzing and recording data pertaining weather.	- To identify and use the weather instruments to collect, analyse and record data of a weather station.	- Mr. Lolian Stephen - Students (Male = 4, Female = 7)	
Thur - Friday 10/03/2022 - 11/03/2022	Horticulture: Introduction to horticulture, Introduction to Vegetable production (Onion agronomy, crop protection, processing, soil and water conservation measures & Marketing), to Establishment of onion nursery bed.	- To understand the Agronomy of onion from nursery, transplanting & Management in main field. - To understand the principles and practices of establishing a vegetable nursery.	- Mr. Pius Okudi. - Students (Male = 4, Female = 7).	

Name: **MEDING DAVID**

Reg. No. **BULUP1201913144**

Class: **DCP II (BIPMENT IN CROP PRODUCTION)**

Signature: 

3rd Week:

DEPT. LANDS GENERAL PROGRAMME

Date	Activities Carried Out	Relevance of Activity to you as a Student	Participants	Comments and Signature of Field Supervisor/ Responsible Person
Mon 24/03/2022	Introduction to dryland cereals. (Sorghum, Millet) Introduction to Sorghum agronomy, Crop protection and Post-harvest handling & crop improvement.	<ul style="list-style-type: none"> - To be able to produce, identify and control pests and diseases of sorghum. - To know breeding goals of sorghum. 	<ul style="list-style-type: none"> - Mr. John Fernando and students. (Male=4, Female=7) 	<p>Attended, acquired new skills Knowledge and practical skills</p> <p><i>[Signature]</i> 25/3/2022</p>
Tue 22/03/2022	Field surveys on sorghum pests and diseases demonstration on sorghum plant spacing, identification of string weed, demonstration on sorghum crossing.	<ul style="list-style-type: none"> - To be able to identify sorghum pests, diseases, string and manage them effectively. 	<ul style="list-style-type: none"> - Mr. John Fernando - Students (Male=4, Female=7) 	
Wed 23/03/2022	Sorghum post harvest data collection on hundred (100) seed count and weighing	<ul style="list-style-type: none"> - To be able to know the yield of a given sorghum variety. 	<ul style="list-style-type: none"> - Mr. Okiringa Francis & students (M=4, F=7) 	
Thu 24/03/2022	Sorghum data entry on plot weight and grain weight, 100 (hundred) seed count and weighing	<ul style="list-style-type: none"> - To be able to determine yield performance of a given variety per plot. 	<ul style="list-style-type: none"> - Mr. Okiringa Francis, students (M=4, F=7) 	
Fri 25/03/2022	Introduction to millet agronomy, data collection on the grain weight of millet per trial plot under different screenings, Plotting of different millet varieties.	<ul style="list-style-type: none"> - To be able to determine yield performance of millet in a given plot, To be able to know the trial goals 	<ul style="list-style-type: none"> - Students (M=4, F=7) 	

Name: MOBING DAVID

Reg. No. B010P1201913144

Class: DEP II (DIPLOMA IN CROP PRODUCTION)

Signature: *[Signature]*

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5th Week:

FIELD / COTTON PROGRAMME:

Date	Activities Carried Out	Relevance of Activity to you as a Student	Participants	Comments and Signature of Field Supervisor/ Responsible Person
Mon 04.04.2022	Introduction to cotton agronomy. This included land preparation, seed preparation, planting and plant spacing harvesting.	To understand the necessary fundamental practices involved in quality cotton production.	- Mr. Egedu Simon - Students (Males = 2, Females = 3)	
Tue 05 th .04.2022	Cotton breeding: Selfing, crossing, Emasculation, identification of flower parts, sifting breeding objectives.	To understand the roles of breeding, to know crossing, selfing in order to obtain cotton of good traits.	- Mr. Egedu Simon - Students (Males = 2, Females = 3)	
Wed. 06.04.2022	Cotton post-harvest data collection: weighing of cotton seed, seed cotton and lint per plot.	To determine the best variety in terms of yield, lint quality.	- Mr. Egedu Simon - Students (Males = 2, Females = 2)	
Thurs. 07.04.2022	Cotton Entomology: Pest identification; identification of pest pest damage.	To identify pest, damage caused and their control.	- Mr. Egedu Simon - Students (Males = 2, Females = 3)	
Fri. 08.04.2022	Cotton pathology: disease identification, damage caused, and their management.	To identify diseases, symptoms and their management strategies.	- Students (M = 2, F = 3)	

Name: MOSING DAVID

Reg. No. BULOPLA01913144

Class: BCP II

Signature: [Signature]

9th Week:

Date	Activities Carried Out	Relevance of Activity to you as a Student	Participants	Comments and Signature of Field Supervisor/ Responsible Person
/				

Name: ... MEBING DAVIS

Reg. No. ... BULUP1201918144

Class: ... BAP II

Signature: ... [Signature]

DECLARATION

I **MODING DAVID** declare that the work presented in this report is entirely mine and has never been submitted to any University or institution for the award of a Diploma in crop production and management or any other academic qualification.

Sign.....

Date.....16/05/2022.....



APPROVAL

This is to confirm that the work presented herein was done under our supervision and it is an original piece from the student.

Approved by;

1. Field supervisor, NaSARRI

Name..... Okiring Joseph
Sign..... [Signature]
Date..... 10/05/2022

2. Intern coordinator, NaSARRI

Name..... Shayya Achundu Kwarir
Sign..... [Signature]
Date..... 10/05/2022



3. Director, NaSARRI

Name..... ORWO JOHN EMIDIATI
Sign..... [Signature]
Date..... 10/05/2022

4. Academic supervisor, BUAC

Name:
Sign:
Date:

DEDICATION

Am dedicating this report to Ms. Mukite Sandra Kirabo for her divine and financial support, I therefore recognize her determined exertion in the direction of my academic scuffle. God bless you.

ACKNOWLEDGEMENT

My genuine recognitions go to the staff of NaSARRI who channeled me through all undertakings for the attainment of industrial training.

First and foremost, I would like to heighten the Director of NaSARRI Dr. Ugen Michael for admitting me in the institution to conduct my training, my field superintendent Mr. Okiring Joseph the farm manager at NaSARRI, who tireless mentored me in all the situation, Mr. Okwang dodah the intern coordinator NaSARRI and the all-inclusive staff, program leaders, scientists, technicians and field assistants. However, the exertions of my intern colleagues in NaSARRI were very much pleasing.

I would love to raise the value of the staff of Busitema University Arapai campus for instigating industrial training as one of the core modules which help students absorb hands-on skills in correspondence to the class theory, enhancing their agricultural familiarity hence preparing them for a wide range for job market and effective service delivery to farmers upon the modernized agricultural technologies.

Finally, special thanks goes to my family members for their tireless support to me.

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LIST OF ABBREVIATIONS

NaSARRI	:	National Semi-Arid Resources Research Institute
IT	:	Industrial training
OPV	:	Open pollinated varieties
CGA	:	Certificate in general Agriculture
DCP	:	Diploma in crop production
DAP	:	Diploma in Animal production
BSA	:	Bachelors of science and Agriculture
APM	:	Bachelors in Animal production and management
BAB	:	Bachelors of Agribusiness management
NARO	:	National Agricultural Research organization
SECOW	:	Serere cowpea
SESO	:	Serere sorghum
NAROSORG	:	NARO Sorghum
NAROMIL	:	NARO millet
SEREMI	:	Serere millet
SERENUT	:	Serere groundnuts
NAROGRAM	:	NARO Green gram
SESIM	:	Serere simsim
G.O. T	:	Ginning out turn
ASL	:	Above sea level
Hrs	:	Hours

LIST OF TABLES AND FIGURES

LIST OF TABLES:

Table 1: sorghum varieties

Table 2: Sorghum entomology

Table 3: Sorghum pathology

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FIGURE 1: THE ORGANIZATION STRUCTURE OF NaSARRI

ABSTRACT

Industrial training was conducted for a period of 10 weeks at NaSARRI (National Semi-Arid Resources Research Institute) located in the Eastern Agro-ecological zone in Serere District, 27 km south of Soroti City from 28th February 2022 to 6th May 2022. NaSARRI is one of the 16 public Agricultural Research Institute of the National Agricultural Research Organization (NARO) established by the National Agricultural Act 2005. The objective of IT is to enable students acquire practical knowledge, skills, on Carry out routine practices in agricultural production, processing and related activities, Write a report on industrial attachment experiences, Collect data in the field of attachment, Analyze and interpret data collected. It was carried out in different programs in a rotation i.e. farm management, dry land cereals program, dry land legumes program, fiber crop program and oil crop program.

During the training at NaSARRI, various activities were carried out which included; Disease identification (Grain mold, Anthracnose) in sorghum, pest identification in sorghum (sorghum shoot fly, stalk borer) post-harvest data collection on 100 seed count of sorghum, grafting and budding in Mangoes and Oranges in Agroforestry, onion nursery bed preparation in horticulture, cotton data collection on 10 boll samples on G.O.T, pest scouting, IPM, plant pathology. Thus various skills were gained such as identification of pest and diseases in sorghum (crop protection), agronomic practices especially in proper site selection, land preparation, seed selection and planting at recommended spacing as per needs of the plants, weed management, post-harvest data collection usually on plot weighing, grain weights, 100 seed count using the electronic weighing scales.

However, few challenges were faced like; Insufficient tools and equipment to be used in nursery establishment, Some of the items were missing in certain station camp bell sunshine recorder, barometer, hygrometer, pyranometer, faulty automatic rain gauge and others out dated.

Conclusively. The training was very fruitful because it gave me a superior understanding of farm management practice which I carried out and these encompassed comprehensive activities like; agronomy (proper land preparation, planting at recommended spaces, weeding etc.), breeding (selfing, crossing and emasculation), crop protection (pest and diseases identification and management etc.). Thus the theory aspect was put into applied hence novel skills multiplied. I recommend that some errors should be rectified by provision of adequate tools needed to be used in different stations/activities, proper allocation of students to their respective supervisors in time.

CHAPTER ONE: INTRODUCTION AND BACKGROUND OF INDUSTRIAL TRAINING

1.1 Introduction

This industrial training was conducted for a period of 10 Weeks at National Semi-Arid Resources Research institute (NaSARRI) Serere from 28th February 2022 to May 6th 2022. Industrial training is one of the modules amalgamated in the curriculum to expose students to hands on skills in correlation to the class theory. Its main objectives are to enable students acquire practical knowledge, skills on Carrying out routine practices in agricultural production, processing and related activities, write a report on industrial attachment experiences, Collect data in the field of attachment, Analyze and interpret data collected for students doing CGA, DCP, DAP, BSA, APM and BAB program. At NaSARRI, the training was carried out in the different units and programs in a rotation manner.

1.2 Orientation

During this meeting, we were familiarized to the rules and regulation of the institute, background of NaSARRI including the mission, vision and mandate of institute, research programs undertaken at the institute, code of conduct for the internees and various structures such as administration block, rest rooms etc.

1.3 Background of NaSARRI

The National Semi-Arid Resources Research institute (NaSARRI) is one of the 16 Public Agricultural Research institutes (PARIs) of National Agricultural Research Organization (NARO) established by National Research Act 2005. The National Semi-Arid Resources Research institute (NaSARRI) started its operation way back in 1920. It was initially established as an experimental station for ox-cultivation which were charged to support cotton production in Teso. It as well served as a unit for training staff of Department of Agriculture.

It pioneered as research study on cotton, livestock and other animal attraction technologies to emphasize quality output under supervision of the Ministry of Agriculture. In 1992, NaSARRI was called Serere Agricultural and Animal Production Research Institute (SAARI).