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BUSITEMA UNIVERSITY FACULTY OF AGRICULTURE AND ANIMAL SCIENCES

**INDUSTRIAL TRAINING REPORT CARRIED OUT AT MUKONO ZONAL
AGRICULTURAL RESEARCH AND DEVELOPMENT INSTITUTE FROM 28th
FEBRAURY TO 6th MAY 2022**

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**INDUSTRIAL TRAINING REPORT TO BE SUBMITTED TO THE DEPARTMENT OF
AGRIBUSINESS AND EXTENSION IN PARTIAL FULFILMENT AS A
REQUIREMENT OF THE AWARD OF A DIPLOMA IN CROP PRODUCTION AND
MANAGEMENT AT BUSITEMA UNIVERSITY**

May 2022

04

DECLARATION

I **BALYEJJUSA VIANEY** hereby declare that the information in this booklet is original and of my own , complied by me with the guidance of my field supervisor and has not been presented in any university or institute of higher learning hence all endeavours should be put into consideration to keep this report in its originality

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Signature: .....

Date: 17/5/22



07

DEDICATION

I dedicate this report with great pleasure to the entire administration of Mukono Zonal Agricultural Research and Development Institute, my friends and my beloved parents as well as my fellow students whom I have been with while doing industrial training from MUZARDI

ACKNOWLEDGEMENT

Let me thank the almighty God who has given me life and power to complete my industrial training successfully.

With all due respect I greatly thank the management of MUZARDI for allowing and accepting me to do my industrial training with them. I also thank my supervisors who took me through particular sections for example madam Robinah Gafabusa, Mr Balinda Francis, Mr Okalebo Mark, and Madam Nzokire Janet

I would like to thank the management of Busitema University for offering me a chance to expand my knowledge through exposure in the field.

In a special way, I want to thank my Mother who has provided me with everything that has aided my staying at the industrial training premises.

LIST OF FIGURES

Figure 1: showing harvesting of coffee	35
Figure 2: showing staking of tomatoes.....	35
Figure 3: showing field marking	35
Figure 4: showing pruning tomatoes	35
Figure 5: showing accclamatization of fry.....	36
Figure 6: showing potting of tomato seedlings.....	36
Figure 7: showing administering of antibiotics to chicken.....	36

LIST OF TABLES

Table 1 showing common pests in tomatoes	6
Table 2 showing common diseases in tomatoes.....	7
Table 3 showing pests that attack cassava	15
Table 4 common diseases found in cassava.....	15
Table 5 common bananas grown in Uganda	15
Table 6 common pests found in bananas	17
Table 7 common diseases found in bananas.....	17
Table 8 showing different mulching materials used	19
Table 9 common pests in coffee	22
Table 10 common diseases in coffee	22
Table 11 common pests found in apple.....	24
Table 12 common diseases in apple.....	24
Table 13 diseases found in poultry production.....	26

07 

ABBREVIATIONS

- MUZARDI** - Mukono Zonal Agricultural Research and Development Institute
- NARDC** - National Agricultural Research and Development Centre
- NARO** - National Agricultural Research Organisation
- ZARDI** - Zonal Agricultural Research and Development Institute
- IMO** - Indigenous Micro-Organism
- OTC** - Oxy-tetracycline
- Cm** - Centimetres
- REG NO.** - Registration number
- NARS ACT** - National Agricultural Research Act
- Km** - kilometre

TABLE OF CONTENTSs

DECLARATION	ii
DEDICATION	iii
ACKNOWLEDGEMENT	iv
LIST OF FIGURES	v
LIST OF TABLES	v
ABSTRACT	xii
CHAPTER ONE	1
1.0 INTRODUCTION	1
1.1 BACKGROUD	1
1.2 LOCATION	1
1.3 DESCRIPTION OF MUZARDI	1
1.4 TRAINING PROGRAMS	2
1.5 OBJECTIVES OF MUZARDI	2
1.6 PROGRAMMES CARRIED OUT AT MUZARDI	2
1.7 ORGANISATIONAL STRUCTURE OF MUZARDI	3
CHAPTER TWO	4
2.0 DESCRIPTION OF ACTIVITIES	4
2.1 ORIENTATION	4
2.2 HORTICULTURE PRODUCTION	4
2.2.1 Vegetable production	4
2.2.2 Advantages of vegetable production	4
2.2.3 Nursery bed management	4
2.2.3.1 Types of nursery beds	4
2.2.3.2 Management practices carried out in the nursery bed	5
2.3 Tomatoes (<i>Solanum lycopersicum</i>)	5
2.3.1 Observations on drip irrigated and rain fed tomatoes	6
2.3.2 Agronomic practices done in tomato field	7
2.3.3 Materials we used while carrying out soil sterilization	8

2.3.4 Procedures carried out while sterilizing the soil using the steam distillation method	8
2.4 CARROTS	8
2.4.1 Procedures we carried out while planting carrots	8
2.5 Fruit propagation.....	9
2.5.1 Fruit production activities we carried out at MUZARDI.....	9
2.5.1.2 Reasons for grafting	9
2.5.1.3 Procedures that we followed during the process.....	9
2.5.1.4 A scion	10
2.5.1.5 A rootstock.....	10
2.5.1.6 Qualities of a good scion selected.....	10
2.5.1.7 The varieties of avocado available at MUZARDI	10
2.5.1.8 Characteristics of Hass avocado	10
2.5.1.9 Diseases that attacked grafted avocado.....	10
2.5.1.10 Pests that attacked grafted avocado trees	11
2.5.1.11 Activities carried out before grafting	11
2.5.1.12 Management practices we carried out during and after the process of grafting.	11
2.5.1.13 Description of the structure where grafting was done	11
2.5.1.14 Practices we carried out include;	12
2.6.1 Advantages of urban and peri-urban farming.	12
2.6.2 Examples of crops grown at MUZARDI under urban and peri-urban farming.	12
2.6.3 Examples of different gardens we prepared while in urban farming.	12
2.6.4 How we filled box garden?	13
2.6.5 Cake garden	13
2.6.6 Procedures we carried out while making a cake garden	13
2.6.7 Procedure	13
2.7.1 However during our study we mainly carried out cassava production	14
2.7.1.1 Cassava (<i>manihot esculenta</i>).....	14
2.7.1.2 Activities we carried out while planting cassava.	14
<i>Table 3 showing pests that attack cassava</i>	15
2.8 PERENNIAL PRODUCTION.....	15
2.8.1 BANANA (<i>Musa ssp</i>).....	15
2.8.2 Procedures carried out while planting bananas.....	16

2.8.3 Agronomic practices we carried out in the banana plantation.....	16
2.8.4 OBSERVATIONS FROM FIELD OF BANANA.....	17
2.9 PINEAPPLES.....	17
2.9.1 Site requirements for pineapples.....	17
2.9.2 Planting materials that can be used;.....	18
2.9.3 Activities carried out in the field of pineapples.....	18
2.9.4 Observations of each alternative mulch.....	18
2.9.5 Agronomic practices carried out in the pineapple garden.....	19
2.10 COFFEE.....	20
2.10.1 Propagation of coffee.....	20
2.10.2 Advantages of asexual method.....	20
2.10.4 Characteristics of seedlings suitable for transplanting.....	21
2.10.5 Agronomic practices we carried out in the coffee plantation.....	21
2.10.6 Observations from the coffee plantation.....	21
2.11 AGROFORESTRY.....	22
2.11.1 Objectives of the agroforestry section.....	22
2.11.2 Examples of tree species at MUZARDI.....	23
2.11.3 Available agroforestry technologies.....	23
2.12 APPLES.....	23
2.12.1 Varieties of apple at MUZARDI.....	23
2.12.2 Agronomic practices we carried out in the apple plantation.....	23
2.12.3 Pests that attack apples.....	24
DISEASES.....	24
2.13 LIVESTOCK PRODUCTION AND AQUACULTURE.....	24
2.13.2 Poultry production.....	24
2.13.3 Agro ecological birds at MUZARDI.....	24
2.13.4 Systems of poultry rearing.....	25
2.13.5 Deep litter system.....	25
2.13.6 Advantages of deep litter system.....	25
2.13.7 Disadvantages of deep litter system.....	25
2.13.8 Cage system.....	25
2.13.9 Advantages of cage system.....	25

2.13.11 Activities we carried out in the poultry unit.....	25
2.13.12 The common diseases we identified in the birds	26
2.13.14 How to control diseases in poultry birds?.....	26
2.14.1 Breeds of pigs	27
2.14.1.1 Camborough.....	27
2.14.1.2 Characteristics.....	27
2.14.1.2 Land race.....	27
2.14.1.3 Characteristics.....	28
2.14.2 Indigenous micro organism;.....	28
2.14.3 Activities we carried out in the piggery unit.....	28
2.15 AQUACULTURE.....	28
2.15.1 Activities we carried out in aquaculture.	28
2.15.2 Reasons for sampling.....	29
2.16 POST-HARVEST HANDLING AND IRRIGATION SYSTEM.	29
2.16.1 POST-HARVEST HANDLING.....	29
2.16.2 Advantages of post harvest handling	29
2.16.3 Activities we carried out during postharvest handling.....	30
2.16.4 IRRIGATION SYSTEMS	30
2.16.4.1 IRRIGATION	30
2.16.4.2 Types of irrigation.....	30
2.16.4.3 Advantages of irrigation.....	30
2.16.4.4 Activities we carried out.....	30
CHAPTER THREE IMPACT OF ATTACHEMENT	31
3.0 Skills gained from the internship	31
3.1 Responsibilities undertaken during the internship.....	31
3.2 Influence of industrial training to my future career plans.....	31
3.3 Industrial training activities correlated lecture room knowledge.....	31
3.4 Challenges i faced during the industrial training	31
3.5 How I managed to over come the challenges.....	32
CHAPTER FOUR.....	33
4.1 CONCLUSION.....	33
4.2 RECOMMENDATION	33

APPENCICES.....	35
WORK PLAN.....	35
REFERENCES.....	37

ABSTRACT

The internship was carried out at Mukono Zonal Agricultural research and development institute in Mukono district 2 km off Kampala Jinja highway. However during the internship, I gained different knowledge and skills after attending different sections which are available at the institute.

The sections available at the institute include; the horticulture, livestock and aquaculture, annual and perennial crops, agroforestry, post harvesting handling and irrigation system sections. In these sections I carried out different activities for example, nursery bed management, watering through drip irrigation, grafting, vaccination of chicks and pigs, castration, determining of the moisture level of the soil, determining of the level of insect infestation with in maize grains, making of permanent water basins for maize, coffee bending, coffee harvesting, propagation of coffee using suckers, vaccination of poultry birds and more others as indicated in the report

However during the internship , I faced some challenges for example lack of enough practical equipment to be used , lack of enough medical facilities around the institute which limited some times my study when I was sick, interruption by the particular field supervisor in my work plan hence making me not to attend some sections, the period for internship was also not enough to enable attend all sections and also harsh weather conditions such as too much rainfall and too much sunshine which would lead us to leave some work undone.

Despite the challenges I faced, I managed to over come some of them by going in for medication every time I fell sick. I always came very early from home so as to save time and do farm activities. Therefore I recommend the institute to provide hostels for accommodation to students doing internship, medical facilities to the workers and also the university to increase on the duration for internship so as students can have enough time to do their practical activities and gain more knowledge and skills

CHAPTER ONE

1.0 INTRODUCTION

1.1 BACKGROUND

Mukono Zonal Agricultural research and development institute is one of the public ZARDIS in Uganda. It was initially introduced as a district farm institute for the purpose of training local farmers and teaches them new and improved farming techniques in 1962. It was transformed to ZARDI later in 2005 through the National Agricultural Research Act (NARS ACT)

It operates several enterprises include horticulture, annual crops, perennial crops, livestock and agroforestry. The institute is responsible for carrying out applied and adaptive research in the Lake Victoria crescent Agro-ecological zone. It covers 21 districts of central Uganda which include Mubende ,Mityana ,Luwero ,Kampala , Kyankwanzi Mukono , Kayunga , Nakasongola , Nakaseke , Masaka, Kalangala, Buikwe ,Kalungu Lwengo, Mpigi, Bukomansimbi , Gomba , Butambala, Buvuma ,Wakiso and Kiboga.

1.2 LOCATION

MUZARDI is located 20km east of Kampala city and 2km off Kampala-Jinja highway in Ntawo village Mukono district. It occupies 41 hectares of which 60% is available for carrying out research and development activities

1.3 DESCRIPTION OF MUZARDI

The geographical description of MUZARDI was done on the basis of topography, vegetation, soils and drainage of the place.

Soils: The soils are mainly clay soils with moderate productivity and highly affected by soil borne bacterial diseases that cause most bacterial plant diseases, the soils are reddish in colour.

Vegetation: the area is dominated by savannah grassland as natural vegetation, a plantation forest east of the institute.

Topography: MUZARDI is on a hilly area with generally gently sloping land south towards Jinja Kampala highway.

Drainage: The area is a well drained gently sloping land