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AN INDUSTRIAL TRAINING REPORT CARRIED OUT AT BUGINYANYA ZONAL  
AGRICULTURAL RESEARCH DEVELOPMENT INSTITUTE  
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AN INDUSTRIAL TRAINING REPORT TO BE SUBMITTED TO THE DEPARTMENT  
OF AGRIBUSINESS AND EXTENSION AS A PARTIAL FULFILMENT OF AN  
AWARD OF A DIPLOMA IN CROP PRODUCTION AND MANAGEMENT

SUBMISSION DATE. MAY 2022



DECLARATION

I Mafabi Ivan declare before God to the best of my knowledge that this report has been compiled through my own effort neither whole nor part of this work has been submitted by one to any institution or university for any award and nobody is allowed to duplicate this report without my concern.

SIGN. 



Approved by;

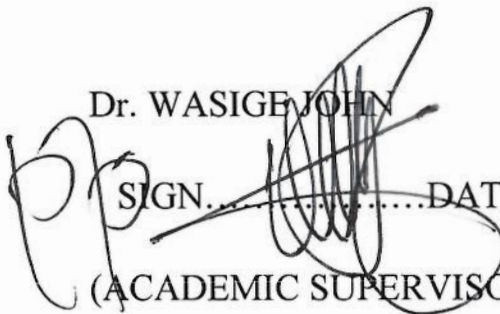
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## DEDICATION

Sincere dedication to my beloved parents Mr. KADUWA DEO that may the holy mighty God bless you abundantly for whatever contribution you have done towards my studies.

Without forgetting dedication also goes to my brothers Mr. MAFABI DOMASCO, and family members at large, not forgetting my friend SHARON NEKESA for the love and pleasure showed to me.

Finally I dedicate this work to Almighty God, and the entire staff of BugiZARDI not forgetting the faculty of Agriculture and animal science.

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## ACKNOWLEDGEMENT

I whole heartedly take the initiative to acknowledge all the people who have managed to help me to carry out my IT in terms of finance, materially and knowledge, Mr. Kaduwa Deo, and all those who wished me well, I would like say may the almighty God bless you abundantly

In a special manner I appreciate Dr. OWERE LAWRENCE the director of research Buginyanya zonal agricultural research and development institute.

## ABSTRACT

In respect to the department of Crop production, animal production it is pre-requisite to undertake industrial training for partial fulfillment for award of a diploma in crop production and management, certificate in general agriculture among others. Industrial training is a module carried outside the classroom.

Above all, the industrial training was successfully done because the supervisors were friendly and gave us the needed skills.

This report describes the activities implemented, skills and qualifications gained, challenges faced during the training, conclusion of the report and recommendations derived at BugizARDI in Bulambuli district under NARO. The objective of this training is to make students, from the skills and knowledge gained from the fields and build confidence in them. This was followed by orientation where I was introduced to BUGIZARDI and later implemented activities like visiting the organization to acceptance, preparation of the industrial training by meeting with the supervisors to guide on how to carry out the training and orientation, conducting training in various enterprises like, banana, field peas, and potatoes, among others.

In addition, during this training, I also faced some challenges that included unfavorable weather like heavy rains that disrupted the road network; this can be solved by combining efforts with the government to promote an adequate road network for better communication with in the area and district at large.

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**Table 2:** shows varieties of coffee, characteristics, and their spacing

**Table 3:** shows some selected weather instruments and their functions at Bugizardi

**Table 4:** shows feeding of goats in Bulegeni satellite station

**Table 5:** shows varieties of bananas and their categories

## FIGURES

**Figure 1:** shows pruning of coffee

**Figure 2:** shows stumping of coffee

**Figure 3:** shows Antestia bug

**Figure 4:** shows coffee berry borer

**Figure 5:** shows coffee lace bug

**Figure 6:** shows coffee stem borer

**Figure 7:** coffee berry moth

**Figure 8:** shows leaf rust

**Figure 9:** CBD

**Figure 10:** shows anthracnose in Hass avocado

**Figure 11:** shows effects of scab in Hass avocado

**Figure 12:** shows cercospora disease in Hass avocado

**Figures 13 – 18:** shows other activity field photos during the training

## LIST OF ABBREVIATIONS

BUGIZARDI Buginyanya zonal agricultural research development institute

U'SEAEZ Uganda's south eastern agro ecological zone

NARO National Agricultural Research Organization

BUAC Busitema university Arapai campus

UCDA Uganda coffee Development Authority

NAADs National Agricultural Advisory services

Masl Meters above sea level

DOR Director of research

CBD Coffee berry disease

CLR coffee leaf rust

VTCs Variety trials center

BCRS Buginyanya coffee Research Station

KP Kenya poster

DAP Double Ammonium phosphate

GMO GENETICALLY MODIFIED ORGANISMS

DSP Double super phosphate

E.g. For example

I.e. That is to say

Masl Meters above sea level

## 1.0 CHAPTER ONE

### 1.1 Introduction

I carried out my industrial training at BugiZARDI. The training was done successfully because I gained practical skills and knowledge.

### 1.2 Location

BugiZARDI is located in Masira Sub County in Bulambuli district in eastern Uganda at 2980 masl. Pursuant to the implementation of the NARA Act 2005, BugiZARDI was operationalized with effect from 1<sup>st</sup> July 2008. The institute is composed of BugiZARDI as the main station, Bulegeni and Ikulwe as satellite stations.

BugiZARDI deals in agricultural research and development in Uganda's south eastern agro ecological zone (U'SEAEZ) it comprises of districts like; Bukwa, Bulambuli, Kapchorwa, Kween, Mbale, Kibuku, Busia, Bugiri, Iganga, Mayuge, Ikulwe, Manafwa, Sironko, Bududa, Luuka, Tororo, Pallisa, Namayingo, Jinja, Kamuli, Namutumba, Buyende, Budaka, Kamuli, and Kaliro districts.

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### 1.3 OWNERSHIP

The organization is under the ownership of NARO

### 1.4 Enterprises at Bugizardi

Its enterprises are distributed according to stations and agro-ecological zones.

- Buginyanya station (high altitude) deals in bananas, coffee, apples, wheat, and seed potatoes.
- Bulegeni station (mid altitude) deals in livestock, maize, rice, coffee, and cassava.
- Ikulwe station (low altitude) deals in sweet potatoes, rice, ground nuts, maize, robust coffee, cattle and cassava.

### 1.5 HISTORICAL BACKGROUND

The institute was established in 1969 by the ministry of agriculture, cooperatives, and marketing as a coffee research station.

It established as part of the coffee unit at Kawanda to centralize research on Arabica coffee the research division of the ministry of agriculture.