

DECLARATION

I Aguti Rebecca do clearly declare that the research report here is my own and it has not been duplicated from any source and has never been presented to any institution or university for award

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DEDICATION

This report is dedicated to the family of my beloved father Edulu James and my mother Asekenye Ann Grace, brothers and sisters for their financial and spiritual support they rendered to me during the course and training and not forgetting my friends whom I shared with.

My special dedications goes to Madam Alepo Betty field technician and all the field assistants and not forgetting the administration of NaSARRI and BUAC.

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I further still want to extent my joy and pleasure to thank my dear friends who encouraged and supported me during the training and also not forgetting the staff of NaSARRI that may almighty God grant you blessings.

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LIST OF ABBREVITIONS

ICRISAT: International crop Research institute for Semi-Arid Tropics

NAADS: National Agricultural Research Organization

REP: Randomized Complete Block Design

NaSARRI: National Semi - Arid Resources Research Institute

UOSPA: Uganda oil seed Producers and processers Association

AGRA: African Green Revolution Alliance

PL: Programmer Leader

TECH: Technician

SAARI: Serere Agricultural and Animal Research Institute MAAIF: Ministry of Agricultural Animal Industry and Fisheries BUAC; Busitema University Arapai Campus.

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ABSTRACT

This industrial training report was carried out at the National Semi-Arid Resource Research Institute [NaSARRI] and it contains findings of field attachment, all the process lasted for 10 weeks from 16 may to 22 July 2016

The main objective of the industrial training was to give students a hand of experience in agricultural production both in crops and animal management and prepares students the expected word job market, and I was allocated to oil crop under sesame section.

The field work employs participatory method in the development or data collection techniques. The major methods for data collection were observation, consultation and activities carried out are field marking, planting, Thinning, how to manage common pest and diseases and how to identify.

I also demonstrated on emasculation, crossing came to know the reason of crossing.

Basing on field study in Simsim section we were not able to carry out simsim harvesting because of time. I gained a lot of experiment in entomology of simsim methology, pathology.

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CHAPTER: ONE

1.0 INTRODUCTION TO NASARRI

I started my industrial training on the 16 may 2016 by the orientation of the institute to get to know the offices and the section.

Then I was allocated to sesame project under the supervision of Madam Alepo Betty as my field supervisor.

1.2 BACKGROUND OF NASARRI

Agricultural research in Serere was started back in 1920 by the colonial government as animal traction unit. When NARO was launched it was given a name Serere agricultural and animal research institute (SAARI).

Later on due to restricting of NARO the name was changed to National semi-Arid Resource Research Institute (NASARRI) to carry out research on semi arid of Uganda. This was after research was done with support from the government of Uganda and several donors especially the World Bank which provided major funding. The institute has made considerable progress since it was introduced.

NASARRI is one of the research institute of the National Agricultural Organization(NARO). It is located in the eastern agro-ecological zone In Serere district which was previously under, Soroti district at altitude of 139 degrees north longitude 33 degrees and 27 degrees east. It is at altitude of 3.078ft above sea level with sandy loam soil and average annual rainfall of 1972mm and bi-modal distribution type.

1.3. NASARRI'S VISION

A market leader in future generation and dissemination OR appropriate technologies for end users of sustainable development.

1.4 NASARRI'S MISSION

To generate appropriate agricultural production technology and information for management and sustainable integrated crop national resources management in partnership with other stakeholders.

1.5 NaSARRI'S MANDATE.

NASARRI'S mandate is to undertake research in crop production for semi-arid production purposely to breed crops that are drought tolerant, high yields, disease and pests, resistant and create income for farmers the mandate area covers five agro-

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