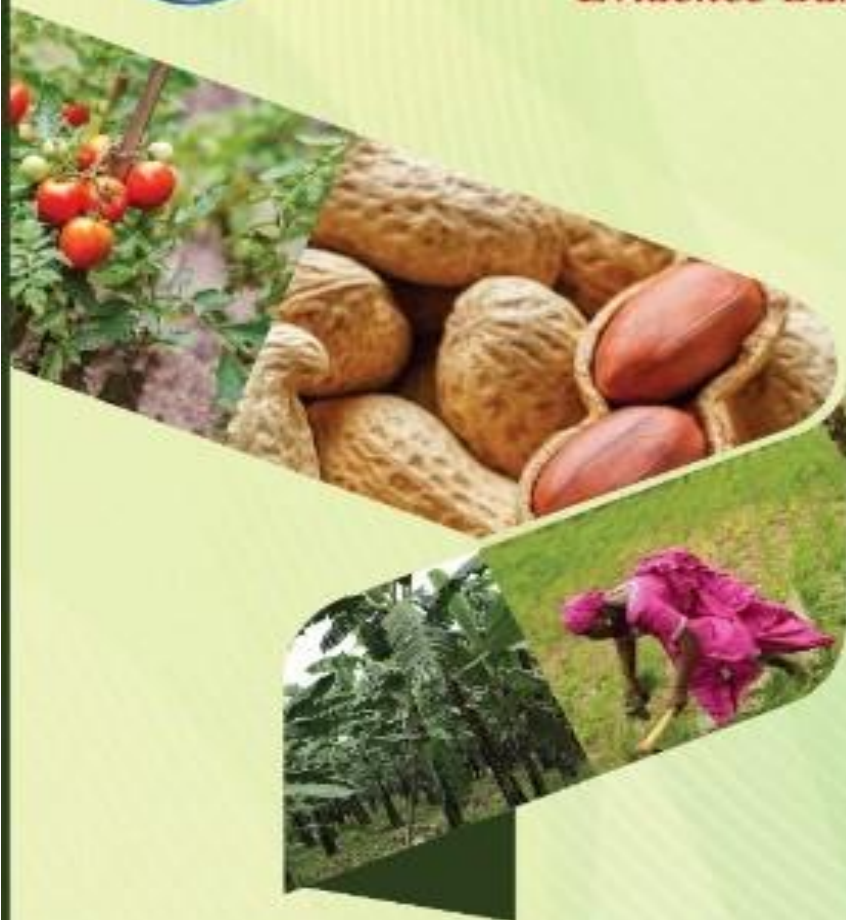




**UGANDA BUREAU OF STATISTICS**  
*Evidence Based.*



# ANNUAL AGRICULTURE SURVEY(AAS) 2020



Food and Agriculture  
Organization of the  
United Nations



**USAID**  
FROM THE AMERICAN PEOPLE



December 2022

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# Foreward



The intent of the vision 2040 is to transform Ugandan society from a peasant to a modern and prosperous country within a period of 30 years. The vision of the Strategic Plan for Agricultural Statistics 2018/19 – 2024/25 is to provide quality data generated from an integrated and coordinated agricultural and rural statistics system. The data is critical for measuring the transformative agenda of the various development frameworks. The Annual Agricultural Survey is one of the initiatives aimed at achieving the sustainable development and production of agricultural statistics that are essential to inform planning and decision-making on agriculture, in the country.

The Uganda Bureau of Statistics in collaboration with the Food and Agriculture Organization (FAO) of the United Nations is pleased to present the findings from the Uganda Annual Agriculture Survey of the year 2020. This survey is the fourth in a series of surveys conducted since 2017 by Uganda Bureau of Statistics (UBOS) in collaboration with the Ministry of Agriculture, Animal Industry and Fisheries (MAAIF), and FAO. Prior to the Annual Agriculture Survey (AAS) series, several agriculture censuses were conducted.<sup>1</sup> The annual agricultural surveys are important in providing agricultural statistics necessary for tracking and monitoring performance of key micro- and macro-indicators. They, too, provide evidence to inform the country's agricultural development policies.

This survey was conducted by UBOS in close collaboration with the MAAIF and the FAO. Unlike in the 2018 and 2019 Annual Agricultural Surveys, that adopted the Agricultural Integrated Survey (AGRIS) methodology, the scope of the current analysis is less ambitious as the AAS 2020 adopted a reduced approach, due to survey implementation challenges faced during the COVID-19 pandemic.

The Uganda Bureau of Statistics welcomes comments from stakeholders that aim to enhance the quality of future publications. Soft copies of this report are available at both UBOS and FAO websites.<sup>2</sup>

It is our sincere hope that the statistical information in this publication will be useful to make future informed decisions.

  
P. Chris N. Mukiza (PhD)

**EXECUTIVE DIRECTOR**

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<sup>1</sup> An Agriculture Census was conducted in 1963/65; a National Census of Agriculture and Livestock in 1990/91, by the Ministry of Agriculture; a Uganda Livestock Census in 2008; and a Uganda Census of Agriculture 2008/9.

<sup>2</sup> See [https://www.ubos.org/?pagename=explore-publications&p\\_id=2](https://www.ubos.org/?pagename=explore-publications&p_id=2)

## Acknowledgements

The Annual Agricultural Survey 2020 was conducted with financial support of the Government of Uganda, USAID and the *50x2030 Initiative to Close the Agricultural Data Gap*, a multi-partner programme implemented by FAO, the International Fund for Agricultural Development (IFAD) and the World Bank, to bridge the agricultural data gap in 50 countries by 2030.

The survey was implemented in close collaboration with the Ministry of Agriculture, Animal Industry and Fisheries (MAAIF). Under the umbrella of the 50x2030 Initiative, UBOS received technical support from FAO during the survey design, data processing and data analysis.

The Bureau appreciates the financial support received from development partners, the technical assistance provided by FAO and the continued cooperation with MAAIF. Similarly, UBOS is grateful to its staff that worked in the office and field, MAAIF, local governments and all the respondents for their support in the development of this publication.

## **Acronyms and abbreviations**

|        |   |
|--------|---|
| AAS    | Annual Agricultural Survey                              |
| ACF    | Agricultural Credit Facility                            |
| AI     | Agro-industrialisation                                  |
| Ag HH  | Agricultural Household                                  |
| Ag HHs | Agricultural Households                                 |
| CAADP  | Comprehensive Africa Agriculture Development Programme  |
| CAPi   | Computer Assisted Personal Interview                    |
| EA     | Enumeration Area  |
| FAO    | Food and Agriculture Organization of the United Nations |
| GDP    | Gross domestic product                                  |
| GOU    | Government of Uganda                                    |
| GPS    | Global Positioning System                               |
| MAAIF  | Ministry of Agriculture, Animal Industry and Fisheries  |
| MDI    | Micro Deposit-Taking Institution                        |
| NARO   | National Agricultural Research Organization             |
| NFA    | National Forestry Authority                             |
| NGO    | Non-Governmental Organisation                           |
| NSA    | Non-State Actors  |
| NDP    | National Development Plan                               |
| PFI    | Participating Financial Institution                     |
| PSU    | Primary Sampling Unit                                   |
| SACCO  | Savings and Credit Cooperative Society                  |
| SDG    | Sustainable Development Goal                            |
| SSU    | Secondary Sampling Unit                                 |
| TLU    | Tropical Livestock Unit                                 |

|       |  |
|-------|--|
| UBOS  | Uganda Bureau of Statistics                            |
| UCA   | Uganda Census of Agriculture                           |
| UGX   | Ugandan Shillings                                      |
| UDBL  | Uganda Development Bank Ltd                            |
| UNHS  | Uganda National Household Survey                       |
| ZARDI | Zonal Agricultural Research and Development Institutes |

## Executive summary

### **Importance of the agricultural sector – crops and livestock**

The findings of the AAS 2020 reaffirm the agriculture sector's key position as the main employer and revenue earner in Uganda's economy. About 7.18 million households are engaged in agricultural activities, including crop production and livestock keeping, and in 2020, there was a four percent increase compared to 6.9 million agricultural households in 2019. The majority of the agricultural households are in the South Buganda (11.8 percent) and North Buganda (11.6 percent) sub-regions, while Karamoja sub-region (2.7 percent) has the lowest percentage of agricultural households (Ag HHs).

### **Characteristics of agricultural households**

Among the agricultural households, about 77 percent are male headed and both countrywide as well as within each sub-region, apart from Karamoja (65 percent), are literate. Further, literacy levels of the household heads are generally high across the country where about 70 percent of household heads can read and write. A notable exception however is that of Karamoja where about 90 percent of female agricultural household heads are illiterate. Disaggregated analysis of literacy by gender shows that more male than female heads are literate across all sub-regions.

Slightly over a third of all household heads (37 percent) are in the 45-64 years age bracket, and nearly a quarter (24 percent) are in the 35-44 age bracket. Household heads under 35 years constitute a quarter of all agricultural household heads, while those aged above 64 make up 16 percent.

An analysis of the age dependency ratio shows that for every working-age person, there are 9.3 dependents. Across the sub-regions, the ratio is nearly similar to the national average except for that of Karamoja, where each working person has 13 dependents, indicating a relatively high dependency ratio.

### **Skewed land distribution**

The distribution of agricultural parcels size among Ugandan farm households varies widely from 0.2 hectares in Kigezi to 1.2 hectares in Teso, on average. The average operated parcel size in the country is 0.6 hectares and each household operated two parcels on average per season. Farmers in Acholi (1.3 ha) and Teso (1.2 ha), North Buganda (0.8 ha) and Bunyoro (0.8 ha) sub-regions have larger parcel sizes than the national average (0.6 ha). With regard to total landholding, the average size per agricultural household land size ranges from 0.5 hectares in Karamoja, Bukedi and Teso (each 0.6 ha) to 4.3 hectares in Acholi, with the national average at 1.2 hectares. The total planted area is however lower, with a national average of 0.8 hectares. The sub-regions of Bunyoro, Lango, Acholi, and Teso cultivated at least 1.0 hectares on average, while farmers in Kigezi cultivated less than half of a hectare (0.4 ha).

Countrywide, on average, 40 percent of agricultural households have landholdings of less than 0.5 hectares, and only 13 percent hold over 2.0 hectares. In Karamoja and Kigezi, over 90 percent and about 69 percent, respectively, of agricultural households hold less than 0.5 hectares. Within Acholi, 63 percent of agricultural

households have landholdings of more than 2.0 hectares on average. Across the country, households own about 78 percent of agricultural parcels, and the rest are either rented or borrowed for use.

### **Management of production activities**

Farmers' crop production practices show a marginal preference for the first season to the second, and for cultivating crops in "pure stand" rather than under a mixed cropping system. In the second season, nearly 22 million plots with an area of approximately 12.8million acres were cultivated while in the first season, 18 million plots covering nearly 11.6 million acres were cropped. On the one hand, most of the land under cultivation in both seasons was in the Zonal Agricultural Research and Development Institutes (ZARDIs) of North Buganda, Bunyoro, South Buganda and Busoga, while on the other, Kigezi and the semi-arid and pastoralist Karamoja sub-regions had the least amount of land under crops. In each of the two seasons, at least 60 percent of the total cropped plots were in a pure stand cropping system, countrywide.

### **Extension services**

Agricultural households' access to extension services is generally low with only 14 percent having accessed the services in the year 2020. Among those agricultural households that accessed extension services, 44 percent received the services from the local government, 27 percent from Non-Governmental Organisations and 21 percent from input suppliers. Of the three principal topics, households sought extension advice on crop production which was the most popular and sought by 56 percent of farm households that received extension services, followed by animal health and management (20 percent), and input use (12 percent). Extension services are largely provided free of charge and only about two percent of agricultural households that received the service, had paid for it.

### **Production estimates for five key crops**

In both the first and the second seasons, maize, beans, sweet potatoes, cassava and banana food (matooke) were the five key crops produced in the 2020 cropping year.

In the first and second seasons, 52 percent and 57 percent of agricultural households, respectively, produced **maize**. We estimated maize production at approximately 3.5 metric tons (MT) in an area of approximately 2.0 million hectares, and a productivity of 2.2 metric tons per hectare (MT/ha).

**Beans** were produced by 45 percent and 53 percent of agricultural households in the first and second seasons, respectively. Bean production was estimated at approximately 670,000 MT in 1.13 million hectares and an estimated yield of 0.8 MT/ha on average.

**Sweet potatoes** were cultivated by 22 percent of agricultural households in the first season and 36 percent in the second. The production of sweet potatoes was approximately 1.2 million MT in about 466,000 hectares and the yield was estimated at 5.0 MT/ha.

Approximately 44 percent and 55 percent of agricultural households produced **cassava** in the first and second seasons, respectively. About 1.7 million MT of cassava was produced in approximately 740,000 hectares and the yield was about 2.3 MT/ha.

**Banana-food**, also commonly known as matooke, was produced by 56 percent of agricultural households in the first season and 59 percent in the second. Approximately 11.1 million MT of banana-food were produced in about 722,000 hectares, and the yield was estimated to be 15.4 MT/ha.

**Robusta coffee** was cultivated by 24 percent of agricultural households in the first season and 25 percent in the second season in approximately 369,000 hectares, with a total production of 233,000 MT and a yield of 0.6 MT/ha.

**Arabica coffee** is more prominent in the highland areas of Uganda, i.e. Tororo and Elgon sub-regions. Overall, seven percent of agricultural households produced coffee arabica in about 82,000 hectares. Arabica coffee's production in 2020 was 43,000 MT with a yield of 0.5 MT/ha.

# 1 INTRODUCTION

## 1.1: Background

Agriculture is a key sector in Uganda's economy. According to the Uganda National Household Survey (UNHS) 2019/20, the highest percentage of the working population (68.1 percent) work in the agricultural sector. Agriculture is the third most important sector, contributing about 24.1 percent to Gross Domestic Product (GDP) at current prices in 2021/22. The Uganda National Population and Housing Census (NPHC 2014) indicates that approximately 90 percent of the population resides in rural areas and 80 percent of Ugandan households are engaged in agriculture.

The National Development Plan III (NDP III) identifies agriculture as a driver of key growth opportunities with great potential to generate employment with positive multiplier effects on other sectors, including manufacturing and services. Under the plan, commercialization of agriculture is expected to increase production and productivity along the value chains, agro-processing and marketing, and to serve as a launching pad for industrialization.

Although agriculture plays a significant role in poverty reduction, it is also considered a contributor to: global warming, water scarcity, pollution and land degradation, all resulting from attempts to increase production to feed the growing world population. It is critical that quality agricultural statistics are provided for evidence-based decision-making and policy development, to improve the performance of the sector so that it meets national food security needs and reduces poverty through employment creation. Furthermore, updated statistics are needed to better understand cross-cutting issues, such as population growth, impact on natural resources, competing use of food crops, gender disparities and climate change, and their effects on food security and poverty.

The objective of this publication, the fourth in a series of Annual Agricultural Survey reports, is to provide high-quality statistics for the implementation and monitoring of development programmes and policies, such as the NDP III, the Comprehensive Africa Agriculture Development Programme (CAADP) 2015-2025 and the United Nations 2030 Agenda for Sustainable Development.

The publication contains statistical information on a wide range of agricultural production indicators, including agricultural holder characteristics (e.g. sex and level of education), crop area, production and yield, seeds application, farmer training, livestock and other agricultural practices.



## 1.2: Objectives

The overall objective of the Annual Agricultural Survey (AAS) is to provide high-quality and current agricultural statistics on priority core macro and micro development indicators.

The specific objectives of the AAS are to provide timely data and information:

- a. on crop and livestock production, agricultural land area, values of agricultural outputs and inputs, market information, farm income, food security, gender and environment.
- b. for assessing the adoption of appropriate agricultural production practices in different agro ecological zones in Uganda.
- c. on the adoption and use of livestock production technologies.

## 1.3: Scope and coverage

The AAS 2020 collects data for an agricultural year (from January to December 2020). In Uganda, the agricultural year consists of two seasons. The first season is from January to June and the second season runs from July to December. Each season, agricultural households (Ag HHs) are interviewed twice: during visits carried out in the post-planting and the post-harvesting periods.

The AAS covers the ten agroecological zones, or ZARDIs (Zonal Agricultural Research and Development Institute), in Uganda and the 14 statistical sub-regions. These ZARDIs are characterized by similar climatic conditions, land use and cropping patterns. Below are maps of the sub-regions and ZARDIs. A detailed list of the districts within each ZARDI and sub-region is available in [Annex I, Table 1- 1](#).

The AAS 2020 covered only household sector holdings, i.e. agricultural households. The non-household sector holdings will be covered in subsequent years. The survey covered both crop and livestock farming households and collected data on various structural characteristics of the agricultural holding, such as:

- a. number and size of holding.
- b. land tenure system.
- c. demographic and socio-economic characteristics of the household members and non-structural statistics, such as:
  - crop area, production and disposition.
  - crop sales and value of crop production.
  - livestock numbers and livestock production.

Figure 0:1. Map of the ZARDIs in Uganda

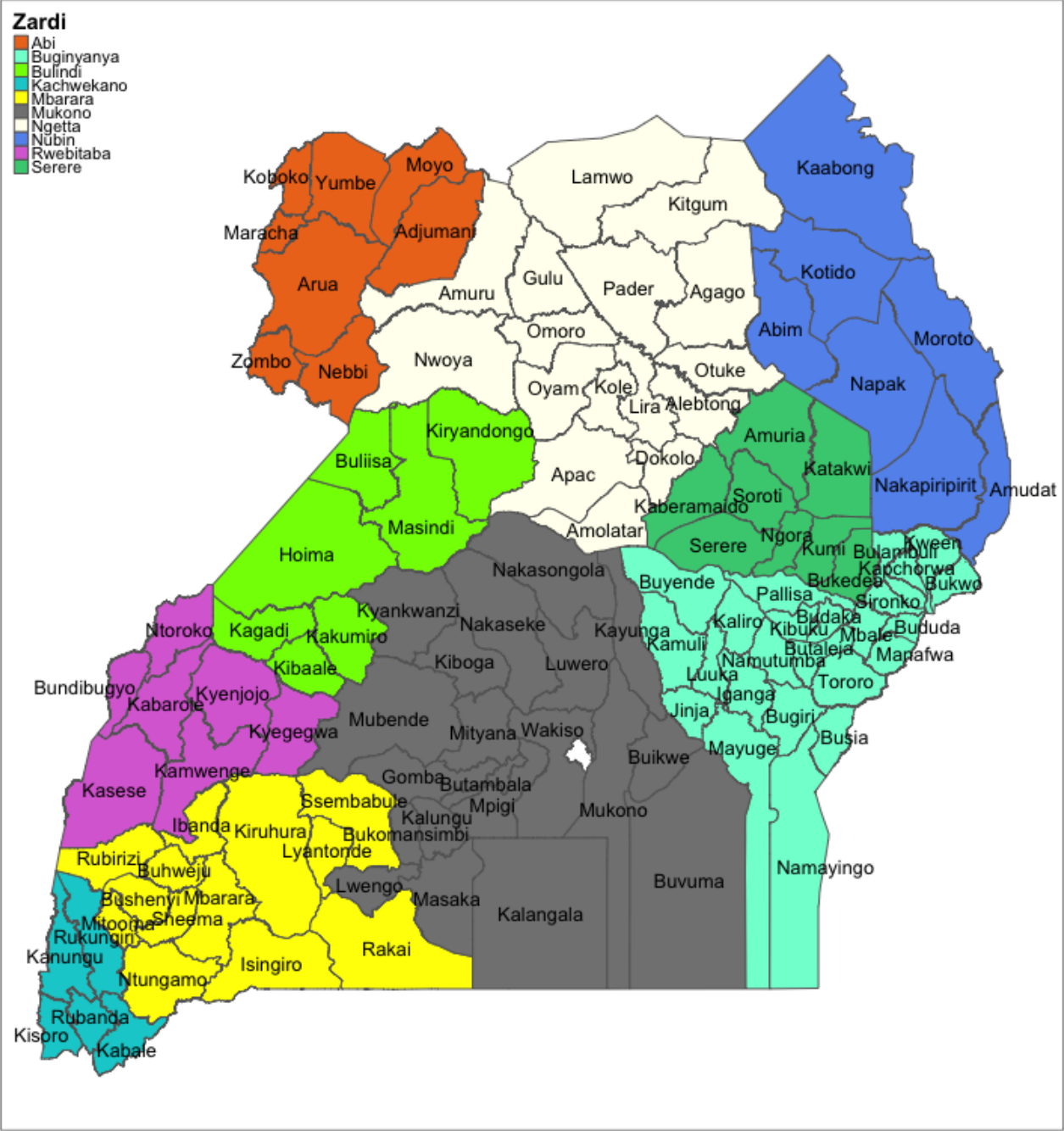
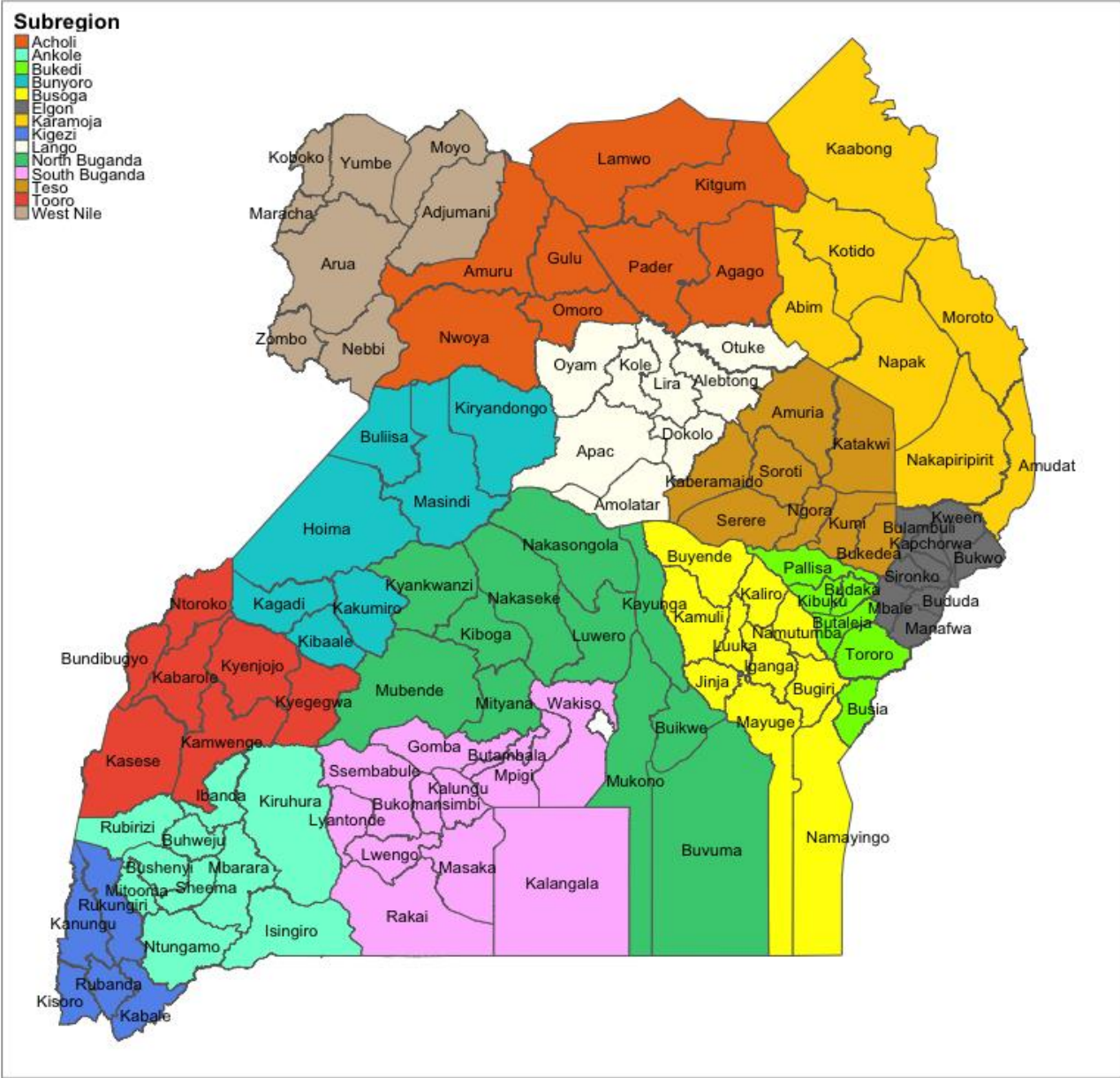


Figure 0:2. Map of the sub-regions in Uganda



## 1.4: Survey methodology

To ensure high-quality output, the survey adopted a rigorous statistical process. The main activities undertaken included survey organisation; sampling design; tabulation and plan preparation; design of survey questionnaires; training of trainers/supervisors and enumerators; data collection; field supervision and consistency checks; and data processing.

### 1.4.1: Survey organisation and data collection

The Annual Agricultural Survey for the year 2020 was implemented by the Uganda Bureau of Statistics in collaboration with the Ministry of Agriculture, Animal Industries and Fisheries, and the Food and Agriculture Organization of the United Nations. It was funded by the Government of Uganda and the *50x2030 Initiative to Close the Agricultural Data Gap*.<sup>1</sup>

The headquarter team had the responsibility of overseeing the planning, operation and management of the entire survey process. The team included staff from the department of production and environment statistics of Uganda Bureau of Statistics. A centralized approach to data collection was used. This entailed dispatching 14 field teams to different sub-regions from which enumeration areas had been sampled. Each team consisted of, on average, one supervisor, three enumerators and a driver.

The Annual Agricultural Survey (AAS 2020) adopted three main questionnaires: the post-planting (PP), the post-harvest (PH) and the livestock and holding questionnaires. Normally, the PP and PH questionnaires are administered each season, while the livestock and holding questionnaire is administered at the end of the second season and covers the entire agricultural year. Nonetheless, in the AAS 2020, a different survey calendar was adopted due to movement limitations imposed as a result of the COVID-19 pandemic.

The dates of data collection were:

|              |                                     |
|--------------|-------------------------------------|
| First visit  | from November 2020 to February 2021 |
| Second visit | from March to May 2021              |

The first visit collected the post-planting and post-harvest data for the first season and post-planting data of the second season. The second visit collected post-harvest data for the second season and the annual modules (including livestock). A detailed description of the questionnaire can be found in section 1.4.5.

The interviewing technique used for data collection was the Computer Assisted Personal Interview.

### 1.4.2: Sampling design

A two-stage sampling design was adopted for the AAS 2020. To increase the efficiency of the sample design, the sampling frame was stratified in ten Zonal Agricultural Research and Development Institutes. In each stratum, the first stage involved the selection of the Primary Sampling Units, which are the enumeration areas

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<sup>1</sup> The [50x2030 Initiative](#) is a multi-partner effort that seeks to bridge the global agricultural data gap by transforming country data systems across 50 countries in Africa, Asia, the Middle East and Latin America by 2030. Building on the best practices promoted by the FAO's AGRIS methodology and the World Bank's LSMS-ISA approach, the 50x2030 Initiative aims to establish efficient agricultural statistical systems in partner countries as a response to the need for better, cost-effective and timely statistical data in the agricultural and rural sector.

and the second stage dealt with the selection of the Secondary Sampling Units, which are the agricultural households.

The survey covered households cultivating crops and/or raising livestock. No minimum threshold on the amount of land cultivated or animals raised was set. Therefore, the survey also covered households cultivating few crops or raising a limited number of animals.

The survey did not aim to generate estimates concerning aquaculture, forestry and fisheries.

### 1.4.3: Sample size

The survey generates estimate representative at national, regional and sub-regional levels (for instance, the Zonal Agricultural Research and Development Institutes and the statistical sub-regions). A sample of 593 enumeration areas (EAs) and an average of 12 agricultural households (Ag HHs) were selected from each Enumeration Area.

### 1.4.4: Response rate

Overall, a sample of 7,115 Ag HHs were selected for the Annual Agricultural Survey for the year 2020 (AAS 2020). The response rate was approximately 95 percent of the households that were visited.

Table 0:1. Response rate by visit and sub-region\*

| Sub-region    | Both visits  | Visit 1 only | Visit 2 only | Complete non-response | Total expected | Response rate (%) |
|---------------|--------------|--------------|--------------|-----------------------|----------------|-------------------|
| South Buganda | 428          | 43           | 28           | 100                   | 599            | 83.3              |
| North Buganda | 553          | 15           | 11           | 21                    | 600            | 96.5              |
| West Nile     | 459          | 34           | 10           | 25                    | 528            | 95.3              |
| Lango         | 435          | 5            | 3            | 1                     | 444            | 99.8              |
| Acholi        | 377          | 12           | 19           | 12                    | 420            | 97.1              |
| Kigezi        | 453          | 14           | 8            | 5                     | 480            | 99.0              |
| Bunyoro       | 439          | 50           | 15           | 36                    | 540            | 93.3              |
| Tooro         | 522          | 3            | 0            | 15                    | 540            | 97.2              |
| Busoga        | 396          | 52           | 29           | 99                    | 576            | 82.8              |
| Teso          | 393          | 13           | 9            | 17                    | 432            | 96.1              |
| Bukedi        | 434          | 11           | 11           | 12                    | 468            | 97.4              |
| Elgon         | 414          | 15           | 16           | 23                    | 468            | 95.1              |
| Karamoja      | 353          | 2            | 5            | 0                     | 360            | 100.0             |
| Ankole        | 601          | 20           | 17           | 22                    | 660            | 96.7              |
| <b>Uganda</b> | <b>6,257</b> | <b>289</b>   | <b>181</b>   | <b>388</b>            | <b>7,115</b>   | <b>94.5</b>       |

Notes: \*Calculated from the post-planting and post-harvest data of each season. The figures are un weighted.

### 1.4.5: Survey questionnaires

1. The AAS 2020 **post-planting questionnaire** collected information on:

- household member socio-demographic characteristics.

- agricultural enterprises undertaken by the household in the current agricultural season.
- land use (parcel and plots used by the agricultural households, land area, seed/seedlings utilization, etc).

The main objective of post-planting questionnaire was to estimate land areas for crops planted. This was done by combining objective measurements (for instance, the Global Positioning System) on the plots and parcels, and collecting the share of land area covered by each crop on each plot, based on the farmer's assessment.

2. The Annual Agricultural Survey for the year 2020 **post-harvest questionnaire** collected information on:

- household member socio-demographic characteristics (only for new household members).
- crop production and disposition (use).

The main objective of the post-harvest questionnaire was to collect data on the crops harvested by the agricultural households based on farm declarations.

3. The **livestock and holding** characteristics questionnaire collected information on:

- animals raised on the holding.
- livestock production and dispositions.
- access to agricultural information.
- access to means of transport.
- access to storage facilities.
- access to extension services.

The main objective of the livestock and holding characteristics questionnaire was to collect data on livestock capital, animal production and inputs over a 12-month reference period. It covered the entire agricultural year 2020. In addition, it collected data concerning household and holding characteristics, such as access to markets and information.

The questionnaires were first designed in a paper format and then transformed into an electronic version, using survey solutions. The electronic version of the questionnaires was pre-tested and refined before data collection.

#### **1.4.6: Training and fieldwork**

After recruitment of field staff, the supervisors and enumerators were provided training on the relevant concepts and definitions, the interview process and how to use CAPI for data collection. The training involved field tests of the questionnaires to ensure the collection of high-quality data.

To ensure high data quality, the headquarter team also monitored the field activities closely through field supervision to provide technical backstopping. The leaders/supervisors electronically reviewed all interviews

conducted daily, to ensure consistency before synchronizing the findings. These interviews were subsequently reviewed at the headquarters before being approved.

#### **1.4.7: Data processing and management**

All the data captured from the field were stored in a cloud storage system with a local backup. Editing and validation was carried out electronically using STATA software. Before analysis, dummy tables were prepared based on a predesigned tabulation plan. Final tables were run using the STATA package.

#### **1.4.8: Sampling error estimates**

The accuracy of the survey results depends on the sampling and the non-sampling errors. The AAS 2020 had a sufficiently large and representative sample which helped limit sampling errors. On the other hand, the non-sampling errors that arise during data collection were controlled through the training of the data collectors, field supervision by the headquarter team, and a well-developed CAPI programme. The coefficients of variation and confidence intervals for selected indicators at national, ZARDI and sub-regional levels are presented in the Annex tables.

### **1.5: Structure of the report**

The report comprises seven chapters, namely: (1) Introduction (2) Agricultural Households and Holding Characteristics (3) Agricultural Land (4) Agricultural Practices and Inputs (5) Agricultural Services (6) Farmer Groups and Trainings (6) and (7) Crop Area, Production and Disposition. An update of this edition, including data on livestock and livestock production, will be released at a later date.

## 2 AGRICULTURAL HOUSEHOLDS AND HOLDING CHARACTERISTICS

### 2.1: Introduction

This chapter provides information on the distribution of agricultural households across the country; distribution of agricultural household heads by sex, educational level and literacy; the economic activities of agricultural household members; and youth employment and training in agriculture. Details are also provided on the distribution of agricultural households (Ag HHs) in the first and second agricultural seasons of the year 2020, and in both seasons combined. Social and demographic characteristics for Ag HHs refer to the first agricultural season.

### 2.2: Distribution of Agricultural Households by sub-region

The estimated number of Agricultural Households for the year 2020 was 7.18 million. This was a 3.5 percent increment from the 6.94 million Ag HHs estimated in the year 2019. In 2020, the highest percentage of agricultural households were in South Buganda (11.8 percent), followed by North Buganda (11.6 percent) while the lowest was in Karamoja (2.7 percent).

In the first season, the total number of Ag HHs was approximately 6.81 million. Among the sub-regions, North Buganda had the highest percentage of Ag HHs (11.8 percent), followed by South Buganda (11.6 percent) while the lowest was in Karamoja (2.7 percent).

In the second season, the number of Ag HHs increased by approximately 4.4 percent to 7.11 million. Among the sub-regions, the highest percentage of agricultural households in the second season was in South Buganda (11.9 percent) and the lowest was in Karamoja (2.2 percent). Details of the results are shown in Table 2:1 and Annex 2, Tables 2- 1 and 2- 2.



Table 2:1. Distribution of agricultural households by sub-region

| Sub-region    | 2019 Ag year     | 2020 Ag year     | Percentage (2020) |
|---------------|------------------|------------------|-------------------|
| South Buganda | 832,647          | 848,590          | 11.8              |
| North Buganda | 806,354          | 829,960          | 11.6              |
| Busoga        | 725,688          | 794,024          | 11.1              |
| Ankole        | 611,471          | 620,959          | 8.6               |
| Tooro         | 582,410          | 606,480          | 8.4               |
| West Nile     | 505,252          | 517,545          | 7.2               |
| Bunyoro       | 487,860          | 505,176          | 7.0               |
| Lango         | 445,133          | 458,390          | 6.4               |
| Bukedi        | 378,931          | 393,920          | 5.5               |
| Elgon         | 387,595          | 401,508          | 5.6               |
| Teso          | 363,324          | 379,790          | 5.3               |
| Acholi        | 318,145          | 324,632          | 4.5               |
| Kigezi        | 304,803          | 308,540          | 4.3               |
| Karamoja      | 187,169          | 192,428          | 2.7               |
| <b>Uganda</b> | <b>6,936,782</b> | <b>7,181,943</b> | <b>100.0</b>      |

Note: \*Table extracted from the post-planting and post-harvest data for each season of the 2020 agricultural year.

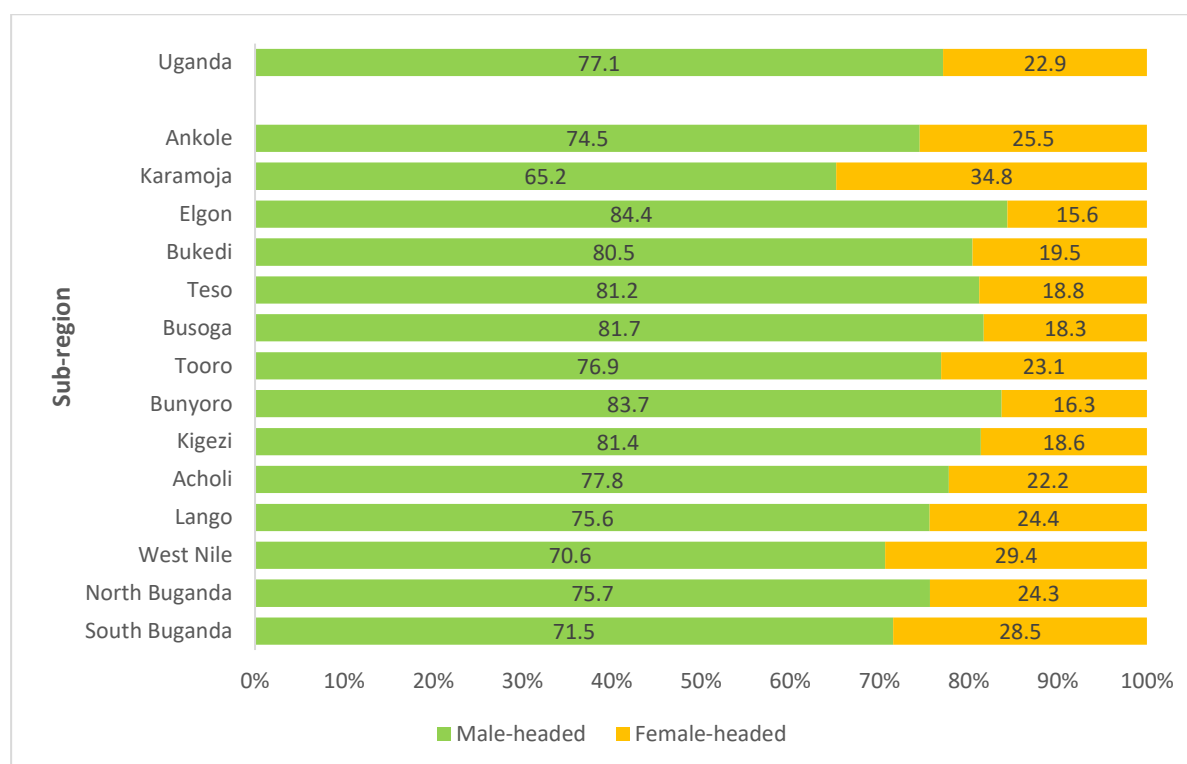
### 2.3: Percentage of Agricultural Households by sex of the head and sub-region

In the first season of the year 2020, approximately 77.1 percent of agricultural households in Uganda were headed by males and 22.9 percent by females.

Across the sub-regions, the highest percentage of male-headed households was registered in Elgon (84.4 percent) while the lowest percentage was in Karamoja (65.2 percent).

The details are provided in Figure 2:1 and Annex 2, Tables 2-3 and 2-4.

Figure 2:1. Percentage distribution of Agricultural Households by sex of the head and sub-region\*



Note: \* Figures in this table have been computed using data from both post-planting and post-harvest visits of the first season.

## 2.4: Percentage distribution of literate Ag HH heads by sex and sub-region

As part of the AAS 2020, data was collected on the literacy of Ag HH heads. Literacy refers to the ability of an individual to read and write with understanding in any language.

The sub-regional distribution of the literate Ag HH heads indicated more than 70 percent of the male heads able to read and write. The highest percentage of literate males was recorded in South Buganda (88.7 percent) and the lowest in Karamoja (26.8 percent). In contrast, the percentage of literate female heads among the sub-regions was low, with the highest percentage being in South Buganda (68.1 percent) and the lowest being in Karamoja (9.2 percent).

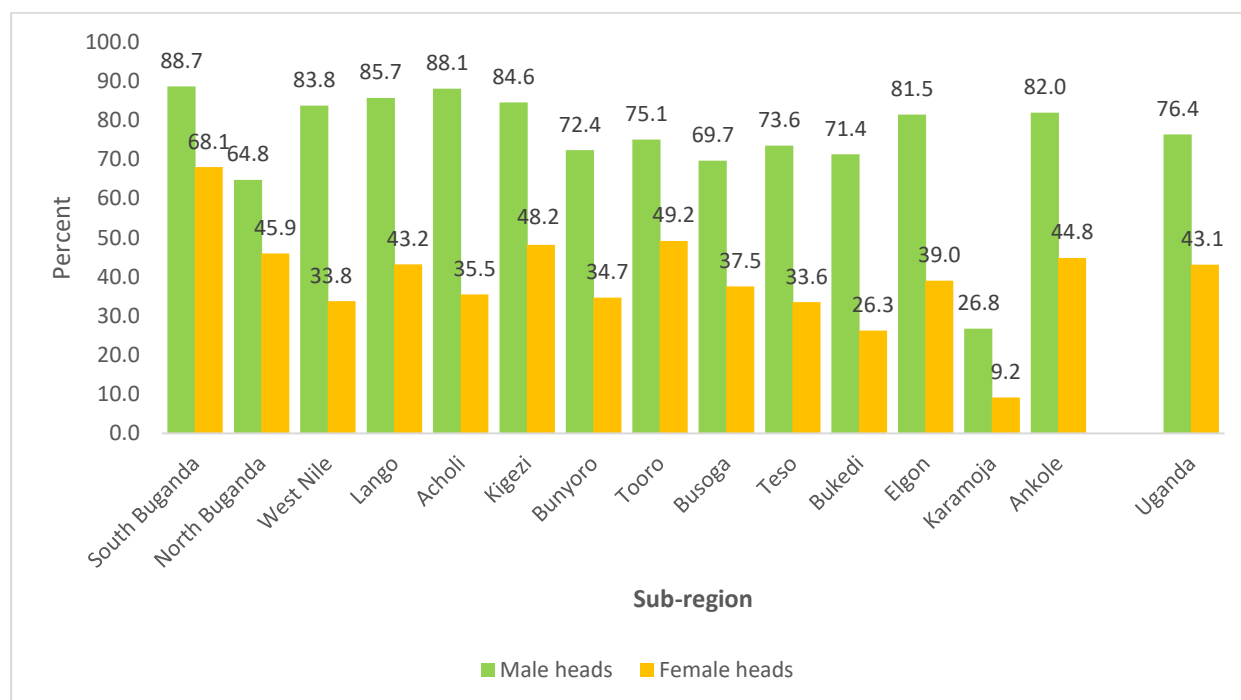
Overall, 69 percent of Ag HH heads were able to read and write in any language, and 77 percent of male Ag HH heads were literate as compared to 43 percent of the female Ag HH heads.<sup>2</sup>

The details are provided in

Figure 2:2 and in Annex 2, Tables 2- 5 and 2- 6.

<sup>2</sup> This is specific to agricultural household heads. The national literacy rate (for persons aged 10 years and above) is 76 percent (UBOS, 2021).

Figure 2:2. Percentage distribution of Agricultural Household heads who can read and write by sex and sub-region



Note: \* Figures in this table have been computed using data of the first season post- planting and post-harvest visits.

## 2.5: Education level attained by Agricultural Household heads by sex and sub-region

The survey collected information on the highest level of education completed by Agricultural Household heads. Data was collected based on the following categories: those who had never been to school, had attained primary level, secondary level and beyond.

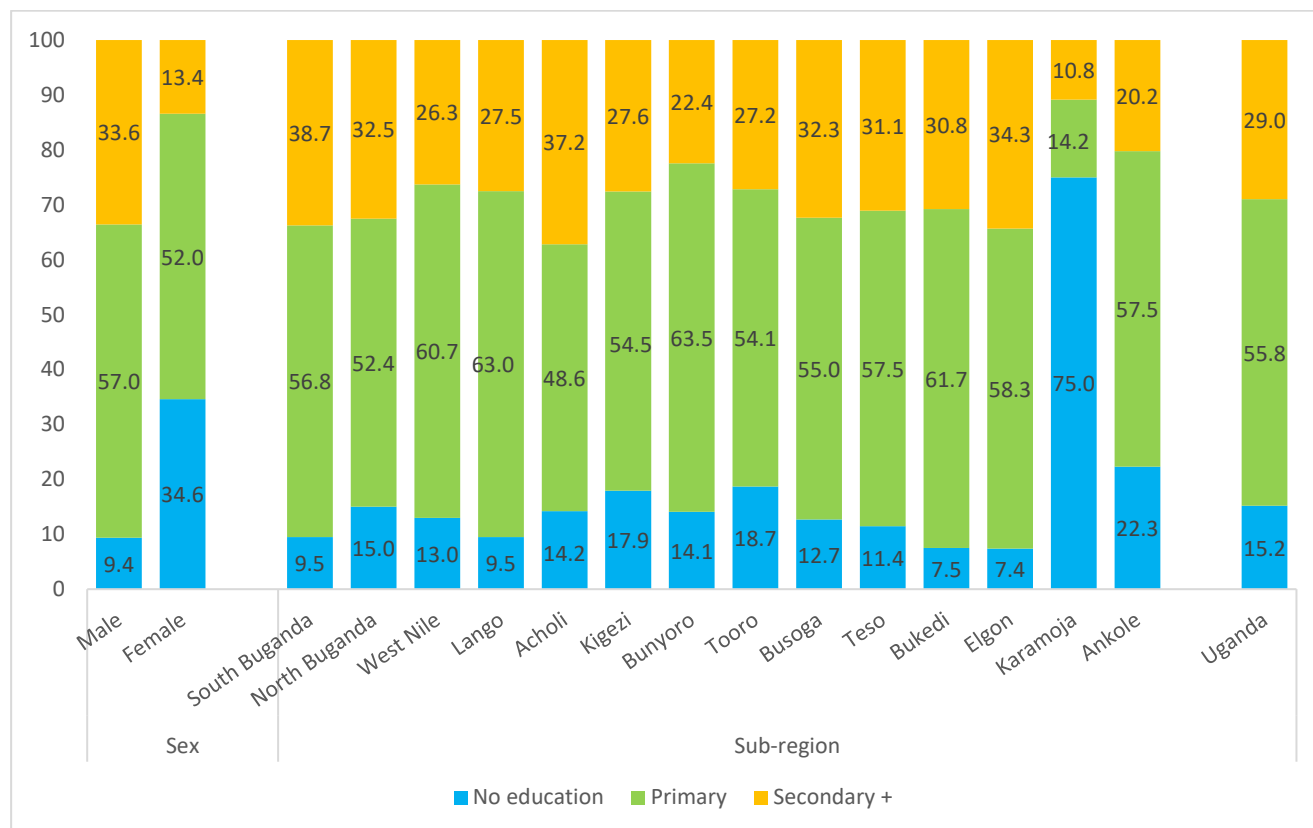
Primary education was the highest level attained by most of the Ag HH heads (55.8 percent) while 29.0 percent attained a secondary education and above, and 15.2 percent did not attain any education. The percentage of the Ag HH heads with no education was substantially unchanged in the year 2020 compared with the previous year.

Disaggregation by sex shows that the proportion of female heads with no formal education (34.6 percent) was almost four times their male counterparts (9.4 percent). Further, the male heads who had attained a secondary education and beyond (33.6 percent) were more than twice the female heads (13.4 percent).

The survey shows more than 50 percent adult Ag HH heads within each sub-region having attained a primary level of education, apart from Acholi (48.6 percent) and Karamoja (14.2 percent). In addition, the percentage of those who had attained secondary education and beyond was quite high, mostly exceeding 25 percent,

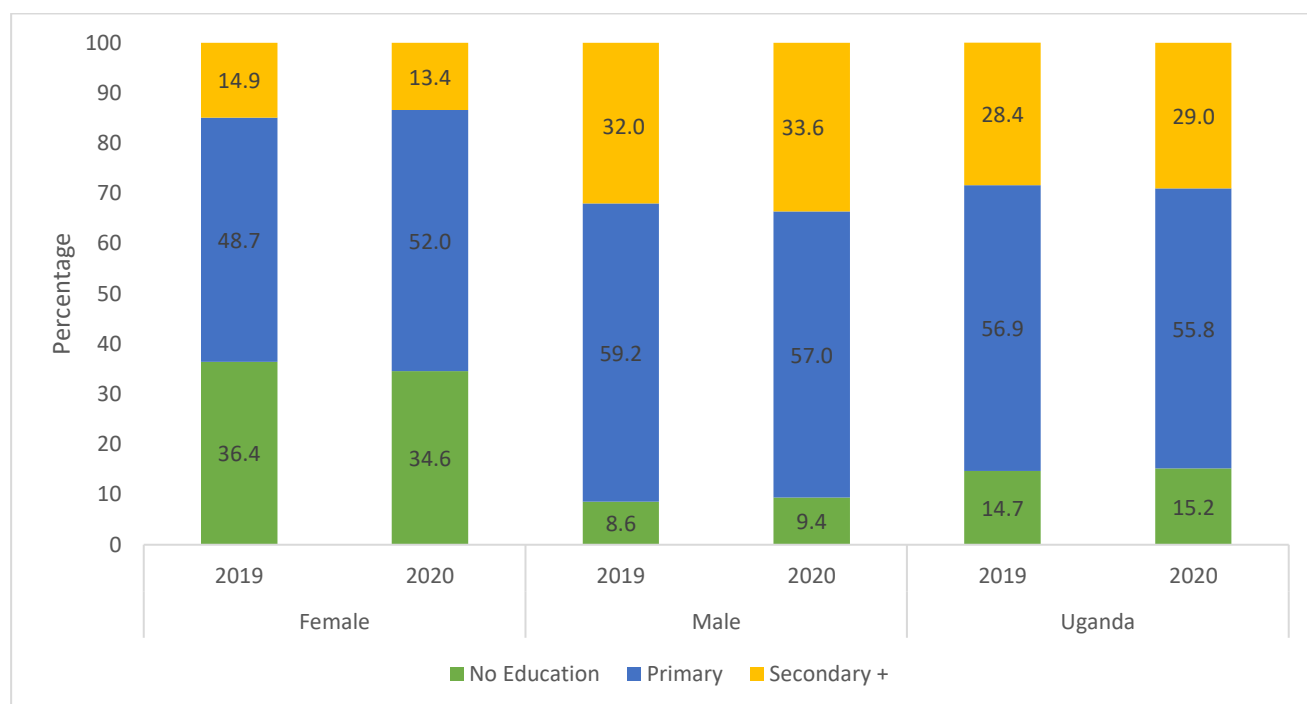
except for Ankole (20.2 percent) and Karamoja (10.8 percent) sub-regions. The highest percentage of adult Ag HH heads that had never been to school was recorded in Karamoja (75.0 percent), followed by Ankole (22.3 percent). Notably, some household heads did not respond to questions pertaining to their highest education level. The details are provided in Table 2:4, Figure 2:3 and Annex 2, Table 2- 5.

Figure 2:3. Percentage distribution of Agricultural Household heads by highest educational level attained, by sex and sub-region\*



Note: \*Figures in this table have been computed using data of the first season post-planting and post-harvest visits.

Figure 2:4. Level of education attained by Agricultural Household head and sex



## 2.6: Age distribution of Agricultural Household heads

The survey reveals Agricultural Household heads aged between 45 and 64 (37 percent) were the largest age group, followed by those aged between 35 and 44 (24 percent), and those under 25 years old (4 percent) were the smallest age group.

Among the male Ag HH heads, 35.4 percent were aged 45 to 64 years, followed by those aged 25 to 34 years (25.8 percent), 35 to 44 years (23.2 percent), 65 years and above (10.6 percent), and those below 25 years (5.0 percent).

Among the female Ag HH heads, the largest age group was between 45 and 64 years (42.1 percent), followed by those aged 65 years and over (32.4 percent), 35 to 44 years (17.1 percent), 25 to 34 years (7.2 percent) and less than 25 years (1.2 percent). The details are provided in Table 2:2 and in Annex 2, Tables 2-9 and 2-10.

Table 2:2. Percentage distribution of Agricultural Households head, by age, sex and sub-region\*

| Sub-region    |        | Age classes |       |       |       |      | Total   |       |
|---------------|--------|-------------|-------|-------|-------|------|---------|-------|
|               |        | 0-24        | 25-34 | 35-44 | 45-64 | 65+  | N       | %     |
|               |        | %           | %     | %     | %     | %    |         |       |
| South Buganda | Male   | 2.0         | 17.7  | 31.2  | 36.5  | 12.7 | 563,596 | 100.0 |
|               | Female | 0.6         | 1.7   | 19.1  | 46.5  | 32.1 | 224,219 | 100.0 |
|               | Total  | 1.6         | 13.1  | 27.7  | 39.3  | 18.2 | 787,814 | 100.0 |
| North Buganda | Male   | 4.3         | 21.1  | 20.7  | 45.8  | 8.1  | 609,088 | 100.0 |
|               | Female | 0.8         | 2.3   | 15.0  | 44.4  | 37.4 | 195,793 | 100.0 |
|               | Total  | 3.4         | 16.5  | 19.3  | 45.5  | 15.2 | 804,882 | 100.0 |
| West Nile     | Male   | 7.2         | 27.0  | 23.8  | 31.3  | 10.7 | 343,778 | 100.0 |
|               | Female | 1.4         | 11.4  | 14.7  | 43.6  | 28.8 | 142,863 | 100.0 |
|               | Total  | 5.5         | 22.4  | 21.1  | 34.9  | 16.0 | 486,641 | 100.0 |
| Lango         | Male   | 7.3         | 25.3  | 27.4  | 29.0  | 11.1 | 337,108 | 100.0 |
|               | Female | 1.3         | 14.1  | 24.4  | 33.4  | 26.8 | 108,601 | 100.0 |
|               | Total  | 5.8         | 22.6  | 26.7  | 30.0  | 14.9 | 445,709 | 100.0 |
| Achoi         | Male   | 3.7         | 30.1  | 21.7  | 34.0  | 10.4 | 239,720 | 100.0 |
|               | Female | 1.1         | 4.1   | 16.3  | 53.5  | 25.0 | 68,403  | 100.0 |
|               | Total  | 3.1         | 24.4  | 20.5  | 38.3  | 13.7 | 308,123 | 100.0 |
| Kigezi        | Male   | 2.2         | 24.6  | 31.8  | 28.3  | 13.2 | 242,038 | 100.0 |
|               | Female | 0.0         | 9.9   | 7.3   | 37.1  | 45.7 | 55,423  | 100.0 |
|               | Total  | 1.8         | 21.8  | 27.2  | 30.0  | 19.3 | 297,461 | 100.0 |
| Bunyoro       | Male   | 9.8         | 24.0  | 23.9  | 33.6  | 8.6  | 380,075 | 100.0 |
|               | Female | 0.0         | 14.3  | 26.3  | 45.0  | 14.5 | 73,932  | 100.0 |
|               | Total  | 8.2         | 22.4  | 24.3  | 35.5  | 9.6  | 454,007 | 100.0 |
| Tooro         | Male   | 3.7         | 24.8  | 26.2  | 37.3  | 8.0  | 459,107 | 100.0 |
|               | Female | 1.5         | 5.6   | 17.8  | 43.7  | 31.3 | 137,833 | 100.0 |
|               | Total  | 3.2         | 20.4  | 24.3  | 38.8  | 13.4 | 596,940 | 100.0 |
| Busoga        | Male   | 6.6         | 24.8  | 26.1  | 33.0  | 9.5  | 597,287 | 100.0 |
|               | Female | 1.8         | 5.4   | 22.8  | 41.4  | 28.6 | 133,738 | 100.0 |
|               | Total  | 5.7         | 21.3  | 25.5  | 34.5  | 13.0 | 731,025 | 100.0 |
| Teso          | Male   | 1.8         | 25.3  | 28.9  | 34.0  | 10.0 | 296,308 | 100.0 |
|               | Female | 0.0         | 3.4   | 13.5  | 59.6  | 23.5 | 68,611  | 100.0 |
|               | Total  | 1.5         | 21.2  | 26.0  | 38.8  | 12.5 | 364,919 | 100.0 |
| Bukedi        | Male   | 5.8         | 26.6  | 24.1  | 32.9  | 10.6 | 305,422 | 100.0 |
|               | Female | 1.6         | 5.7   | 15.8  | 33.9  | 43.0 | 74,215  | 100.0 |
|               | Total  | 5.0         | 22.5  | 22.5  | 33.1  | 16.9 | 379,637 | 100.0 |

| Sub-region |        | Age classes |       |       |       |      | Total     |       |
|------------|--------|-------------|-------|-------|-------|------|-----------|-------|
|            |        | 0-24        | 25-34 | 35-44 | 45-64 | 65+  |           |       |
|            |        | %           | %     | %     | %     | %    | N         | %     |
| Elgon      | Male   | 7.6         | 17.5  | 24.6  | 38.5  | 11.7 | 321,115   | 100.0 |
|            | Female | 0.0         | 11.1  | 9.4   | 35.9  | 43.6 | 59,570    | 100.0 |
|            | Total  | 6.4         | 16.5  | 22.2  | 38.1  | 16.7 | 380,685   | 100.0 |
| Karamoja   | Male   | 7.7         | 26.6  | 25.9  | 24.6  | 15.2 | 118,249   | 100.0 |
|            | Female | 5.0         | 15.1  | 17.8  | 36.4  | 25.7 | 63,219    | 100.0 |
|            | Total  | 6.8         | 22.6  | 23.1  | 28.7  | 18.8 | 181,468   | 100.0 |
| Ankole     | Male   | 2.5         | 19.0  | 26.5  | 38.3  | 13.8 | 442,876   | 100.0 |
|            | Female | 1.5         | 10.0  | 12.7  | 33.0  | 42.8 | 151,544   | 100.0 |
|            | Total  | 2.2         | 16.7  | 22.9  | 36.9  | 21.2 | 594,420   | 100.0 |
| Uganda     | Male   | 5.0         | 23.2  | 25.8  | 35.4  | 10.6 | 5,255,080 | 100.0 |
|            | Female | 1.2         | 7.2   | 17.1  | 42.1  | 32.4 | 1,557,964 | 100.0 |
|            | Total  | 4.1         | 19.5  | 23.8  | 36.9  | 15.6 | 6,813,044 | 100.0 |

Notes: \* Figures in this table have been computed using data of the first season post-planting and post-harvest visits.

## 2.7: Dependency ratio

Age dependency ratio (or dependency rate) compares the number of dependents aged zero to 13 years and over 65 years, with the population aged 14 to 64 years. A higher value for a country means that employed people must support more non-working members of the population, either young or old.

The dependency ratio for Uganda in the year 2020 was 93 dependents per 100 working-age population among the Agricultural Households. This was a reduction from the 95 dependents per 100 working-age population among Ag HHs reported in the year 2019. The dependency ratio varies among sub-regions. Karamoja had the highest dependency ratio of 130 while Teso had the lowest with 85 dependents per 100 working-age population.

Data is shown as the proportion of dependents per 100 working-age population.

The details are provided in Table 2:3 and in Annex 2, Tables 2- 11 and 2- 12.

Table 2:3.: Dependency rate by sub-region\*

| Sub-region    | % age of individuals aged 0-13 or 65+ | % age of individuals aged 14-64 | Dependency rate (%) ** | Total Population  |
|---------------|---------------------------------------|---------------------------------|------------------------|-------------------|
| South Buganda | 49.5                                  | 50.5                            | 97.8                   | 4,572,678         |
| North Buganda | 49.6                                  | 50.4                            | 98.3                   | 4,717,086         |
| West Nile     | 47.8                                  | 52.2                            | 91.6                   | 3,027,218         |
| Lango         | 46.0                                  | 54.0                            | 85.3                   | 2,337,428         |
| Acholi        | 47.0                                  | 53.0                            | 88.6                   | 1,970,488         |
| Kigezi        | 46.2                                  | 53.8                            | 86.0                   | 1,626,586         |
| Bunyoro       | 47.5                                  | 52.5                            | 90.4                   | 2,777,650         |
| Tooro         | 46.8                                  | 53.2                            | 88.0                   | 3,371,767         |
| Busoga        | 50.5                                  | 49.5                            | 102.0                  | 4,329,051         |
| Teso          | 45.8                                  | 54.2                            | 84.5                   | 2,596,149         |
| Bukedi        | 50.0                                  | 50.0                            | 100.1                  | 2,289,022         |
| Elgon         | 46.8                                  | 53.2                            | 87.9                   | 2,214,772         |
| Karamoja      | 56.5                                  | 43.5                            | 130.0                  | 904,867           |
| Ankole        | 46.3                                  | 53.7                            | 86.3                   | 3,418,841         |
| <b>Uganda</b> | <b>48.2</b>                           | <b>51.8</b>                     | <b>93.0</b>            | <b>40,153,601</b> |

Notes: \*The Table generated from the post-planting and post-harvest of the first season data. \*\* Dependency rate is the ratio of the number of dependents aged zero to 13 years and over 65 years to the population aged 14 to 64 years.

## 2.8: Main activity for Agricultural Household heads

Economic activity refers to the work people do to enhance their quality of life. This involves production of goods and services for sale or own consumption. A person may be engaged in more than one activity. In such cases, the most important activity is the activity in which the individual spends most of his/her time.

The AAS 2020 collected information on activities of household members aged ten years and above. Activities were categorized as mainly engaged in agricultural activities or in non-agricultural activities.

Findings show most of the Ag HH heads (75.9 percent) mainly engaged in agriculture. The survey results also indicate the percentage of female Ag HH heads engaged in agricultural activities (86.7 percent) was higher compared to male Ag HH heads (72.6 percent).

Teso sub-region had the highest percentage of male Ag HH heads mainly engaged in agricultural activities (91.6 percent), followed by West Nile (87.6 percent) and Tooro (84.4 percent). South Buganda had the lowest percentage of male Ag HH heads engaged in agricultural activities (51.9 percent). In contrast, West Nile, Teso and Karamoja had the highest percentage of female Ag HH heads engaged in agricultural activities, at 96.0 percent, 95.3 percent and 94.2 percent, respectively. South Buganda (70.8 percent) and Busoga (83.3 percent) sub-regions had the lowest percentages of females mainly engaged in agriculture.

Serere and Abi had the highest percentage of Ag HH heads mainly engaged in agricultural activities (92.3



percent and 90.1 percent, respectively). Serere had the highest percentage of male Agricultural Household heads mainly engaged in agricultural activities (91.2 percent), followed by Abi and Rwebitaba (87.6 percent and 84.4 percent, respectively). Mukono had the least percentage of male Ag HH heads engaged in agricultural activities (62.2 percent). In contrast, Abi, Serere and Nabuin had the highest percentage of female Ag HH heads engaged in agricultural activities, at 96.0 percent, 95.3 percent and 94.2 percent, respectively. Mukono had the least percentage of females mainly engaged in agriculture (77.8 percent).

The details are provided in Table 2:4 and in Annex 2, Tables 2- 13 and 2- 14.

**Table 2:4. Percentage distribution of Ag HH heads, by main economic activity and sub-region\***

| Sub-region    | Male heads  |                    |              | Female heads |                    |              | All heads   |                    |              |
|---------------|-------------|--------------------|--------------|--------------|--------------------|--------------|-------------|--------------------|--------------|
|               | Agriculture | Out of agriculture | Total        | Agriculture  | Out of agriculture | Total        | Agriculture | Out of agriculture | Total        |
| South Buganda | 51.9        | 48.1               | 100.0        | 70.8         | 29.2               | 100.0        | 57.3        | 42.7               | 100.0        |
| North Buganda | 70.9        | 29.1               | 100.0        | 86.9         | 13.1               | 100.0        | 74.8        | 25.2               | 100.0        |
| West Nile     | 87.6        | 12.4               | 100.0        | 96.0         | 4.0                | 100.0        | 90.1        | 9.9                | 100.0        |
| Lango         | 79.1        | 20.9               | 100.0        | 91.4         | 8.6                | 100.0        | 82.1        | 17.9               | 100.0        |
| Acholi        | 80.4        | 19.6               | 100.0        | 85.1         | 14.9               | 100.0        | 81.4        | 18.6               | 100.0        |
| Kigezi        | 63.7        | 36.3               | 100.0        | 87.4         | 12.6               | 100.0        | 68.1        | 31.9               | 100.0        |
| Bunyoro       | 80.1        | 19.9               | 100.0        | 87.8         | 12.2               | 100.0        | 81.4        | 18.6               | 100.0        |
| Tooro         | 84.4        | 15.6               | 100.0        | 92.5         | 7.5                | 100.0        | 86.3        | 13.7               | 100.0        |
| Busoga        | 63.5        | 36.5               | 100.0        | 83.3         | 16.7               | 100.0        | 67.1        | 32.9               | 100.0        |
| Teso          | 91.6        | 8.4                | 100.0        | 95.3         | 4.7                | 100.0        | 92.3        | 7.7                | 100.0        |
| Bukedi        | 65.6        | 34.4               | 100.0        | 86.9         | 13.1               | 100.0        | 69.8        | 30.2               | 100.0        |
| Elgon         | 67.7        | 32.3               | 100.0        | 90.9         | 9.1                | 100.0        | 71.3        | 28.7               | 100.0        |
| Karamoja      | 82.5        | 17.5               | 100.0        | 94.2         | 5.8                | 100.0        | 86.6        | 13.4               | 100.0        |
| Ankole        | 72.5        | 27.5               | 100.0        | 87.1         | 12.9               | 100.0        | 76.2        | 23.8               | 100.0        |
| <b>Uganda</b> | <b>72.6</b> | <b>27.4</b>        | <b>100.0</b> | <b>86.7</b>  | <b>13.3</b>        | <b>100.0</b> | <b>75.9</b> | <b>24.1</b>        | <b>100.0</b> |

Note: \*This table is extracted from the first season PP and PH data sets.

## 2.9: Status of main activity

The Annual Agricultural Survey for the year 2020 asked Agricultural Household heads about their status within their main activity. Findings in Table 2.5 indicated that during the first season, majority (86.4 percent) of adult Ag HH heads in Uganda were own account workers, followed by salaried workers at 6.7 percent. The least Ag HH heads were members of a cooperative and trainee/volunteers with 0.02 percent and 0.03 percent, respectively.

Among the sub-regions, Teso and West Nile have the highest percentages of own account workers at 93.3 percent and 92.0 percent, respectively. Kigezi has the lowest percentage of own account workers (68.7 percent).

Among the Zonal Agricultural Research and Development Institutes (ZARDIs), Serere and Abi had the highest percentages of own account workers, at 93.3 percent and 92.0 percent, respectively. Kachwekano had the lowest percentage of own account workers (68.7 percent). The details are provided in Table 2:5 and Annex 2, Tables 2- 15 and 2- 16.

**Table 2:5. Percentage distribution of Agricultural Household heads by employment status, sex and sub-region**

|                   | <b>Own<br/>account</b> | <b>Employer</b> | <b>Salaried<br/>worker</b> | <b>Task<br/>worker</b> | <b>Unpaid<br/>family<br/>member</b> | <b>Trainee/<br/>volunteer/<br/>intern</b> | <b>Member of<br/>cooperative</b> | <b>Total</b> |
|-------------------|------------------------|-----------------|----------------------------|------------------------|-------------------------------------|---|----------------------------------|--------------|
| <b>Sex</b>        |                        |                 |                            |                        |                                     |   |                                  |              |
| Male              | 83.9                   | 1.1             | 8.1                        | 5.5                    | 1.4                                 | 0.0                                       | 0.0                              | 100.0        |
| Female            | 94.9                   | 0.4             | 2.2                        | 0.5                    | 2.0                                 | 0.0                                       | 0.0                              | 100.0        |
| <b>Sub-region</b> |                        |                 |                            |                        |                                     |   |                                  |              |
| South Buganda     | 87.7                   | 2.2             | 4.7                        | 5.1                    | 0.2                                 | 0.0                                       | 0.2                              | 100.0        |
| North Buganda     | 90.4                   | 0.6             | 7.3                        | 1.7                    | 0.0                                 | 0.0                                       | 0.0                              | 100.0        |
| West Nile         | 92.0                   | 0.1             | 4.8                        | 1.5                    | 1.5                                 | 0.0                                       | 0.0                              | 100.0        |
| Lango             | 84.6                   | 0.0             | 6.7                        | 1.7                    | 7.0                                 | 0.0                                       | 0.0                              | 100.0        |
| Acholi            | 91.4                   | 0.0             | 5.8                        | 2.8                    | 0.0                                 | 0.0                                       | 0.0                              | 100.0        |
| Kigezi            | 68.7                   | 4.7             | 12.5                       | 13.4                   | 0.7                                 | 0.0                                       | 0.0                              | 100.0        |
| Bunyoro           | 90.8                   | 1.8             | 5.6                        | 1.8                    | 0.0                                 | 0.0                                       | 0.0                              | 100.0        |
| Tooro             | 90.0                   | 2.8             | 5.3                        | 2.0                    | 0.0                                 | 0.0                                       | 0.0                              | 100.0        |
| Busoga            | 87.2                   | 0.0             | 8.2                        | 4.3                    | 0.0                                 | 0.3                                       | 0.0                              | 100.0        |
| Teso              | 93.3                   | 0.0             | 5.3                        | 0.5                    | 0.9                                 | 0.0                                       | 0.0                              | 100.0        |
| Bukedi            | 83.7                   | 0.3             | 9.8                        | 6.3                    | 0.0                                 | 0.0                                       | 0.0                              | 100.0        |
| Elgon             | 69.7                   | 0.0             | 7.7                        | 7.3                    | 15.2                                | 0.0                                       | 0.0                              | 100.0        |
| Karamoja          | 95.6                   | 0.0             | 2.5                        | 1.1                    | 0.8                                 | 0.0                                       | 0.0                              | 100.0        |
| Ankole            | 78.9                   | 0.2             | 8.3                        | 12.7                   | 0.0                                 | 0.0                                       | 0.0                              | 100.0        |
| <b>Uganda</b>     | <b>86.4</b>            | <b>0.9</b>      | <b>6.7</b>                 | <b>4.4</b>             | <b>1.5</b>                          | <b>0.0</b>                                | <b>0.0</b>                       | <b>100.0</b> |

Note: \*This table is extracted from the post-planting data of the first season data sets.

## 3 AGRICULTURAL LAND

### 3.1: Introduction

This chapter presents information on land ownership; number and size of parcels; average holding size; and parcel use rights for all parcels used by farmers during the year 2020. These attributes have important implications for Agricultural Households' attitudes towards land use. For example, the type of land use rights will directly affect the types of Ag HH investments made on land, which, in turn, will affect land productivity.

### 3.2: Agricultural land

Agricultural land is the total of cropland,<sup>3</sup> permanent meadows and permanent pastures (FAO, 2015). According to the National Forestry Authority, approximately 43 percent of the total land area in Uganda, in the year 2015 was agricultural land. Because of the importance of land in agriculture and the growing population of the country living in rural areas, increased pressure is likely to be felt on the existing agricultural land. Accordingly, the Annual Agricultural Survey (AAS) collects information on access to agricultural land, the structure of the agricultural land and agricultural practices used on land holdings, with the objective to inform and support efforts in order to formulate and monitor policies and programmes related to land use.

#### 3.2.1: Number and size of parcels

A parcel is any piece of land of one land tenure type, surrounded entirely by other land, water, road, forest or other features not forming part of the holding, or forming part of the holding under a different land tenure type (FAO, 2015). An Agricultural Household may use one or more land parcels located in the same or in separate areas, or in the same or different administrative units.<sup>4</sup> As part of the Annual Agricultural Survey year 2020, Ag HHs were asked to list all the parcels they were using within their enumeration area (including parcels used for farmhouses, stables, storehouses and other uses),<sup>5</sup> and parcels located elsewhere. Land owned by members of an Ag HH but rented to others was not included. Conversely, land not owned by members of an Ag HH but rented from others for agricultural production purposes was included among the parcels.

Information obtained in the AAS 2020 indicates at national level, that Ag HHs used on average, two parcels per season with an average size of 0.6 hectares per parcel. Among the sub-regions, Ag HHs in Acholi (3.2 ha), Kigezi (2.8 ha) and West Nile (2.6 ha) used the highest average number of parcels. The average size per parcel was 0.6 hectare per parcel. See Table 3:1 and Annex 3, Tables 3- 1 and 3- 2 for details.

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<sup>3</sup> Cropland includes land under temporary and permanent crops, land temporarily fallow and land under temporary meadows and pastures (FAO, 2015).

<sup>4</sup>This definition of parcel may not be consistent with that used in cadastral work.

<sup>5</sup> Parcels may be used for different types of activities and very frequently Agricultural Households use their own dwelling for living and for storing agricultural inputs and outputs.

Table 3:1. Physical characteristics of the holdings\* by sub-region

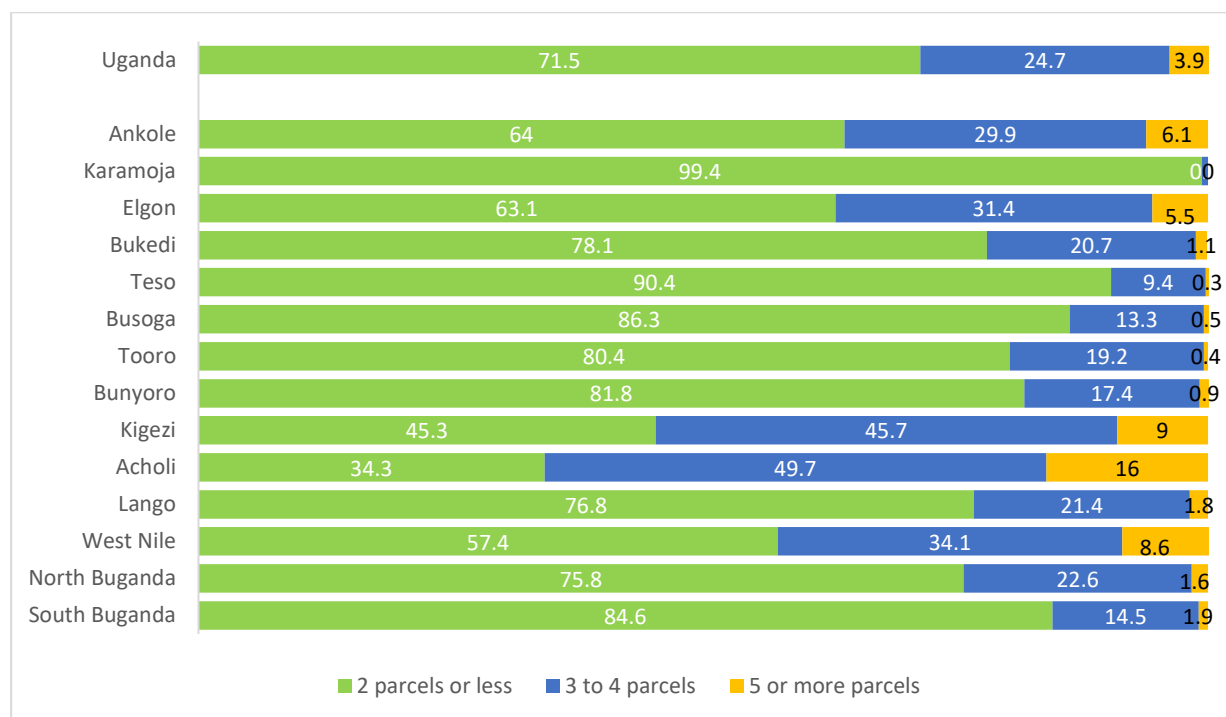
| Sub-region    | Parcels           |                |                   |
|---------------|-------------------|----------------|-------------------|
|               | Total number      | Average number | Average size (ha) |
| S. Buganda    | 1,276,486         | 1.6            | 0.5               |
| N. Buganda    | 1,554,906         | 1.9            | 0.8               |
| West Nile     | 1,334,970         | 2.6            | 0.6               |
| Lango         | 889,662           | 2.0            | 0.7               |
| Acholi        | 992,071           | 3.2            | 1.3               |
| Kigezi        | 838,597           | 2.8            | 0.2               |
| Bunyoro       | 862,533           | 1.9            | 0.8               |
| Tooro         | 1,122,543         | 1.9            | 0.4               |
| Busoga        | 1,268,999         | 1.7            | 0.5               |
| Teso          | 590,025           | 1.6            | 1.2               |
| Bukedi        | 733,085           | 1.9            | 0.3               |
| Elgon         | 862,492           | 2.3            | 0.3               |
| Karamoja      | 87,179            | 1.0            | 0.6               |
| Ankole        | 1,401,861         | 2.3            | 0.5               |
| <b>Uganda</b> | <b>13,815,410</b> | <b>2.0</b>     | <b>0.6</b>        |

Note: \*AAS 2020-PP and PH second season data.

### 3.2.2: Parcels owned

Overall, 71.5 percent of Ag HHs had two or less parcels, 24.7 percent had three to four parcels while 3.9 percent of Ag HHs held five or more parcels. Among the sub-regions, Karamoja sub-region reported the highest number of Ag HHs having two or less parcels (99.4 percent), followed by Teso sub-region (90.4 percent). For details, see Figure 3:1.

Figure 3:1. Percentage distribution of Agricultural Households by number of parcels owned and sub-region



### 3.2.3: Holding size

Among the sub-regions, the average holding size for Agricultural Households was 1.2 hectares of land. The highest average holding size was recorded in the Acholi sub-region (4.3 ha per Ag HH) and the smallest average sizes were recorded in Kigezi (0.5 ha) and in Karamoja, Elgon and Bukedi. These regions recorded an average size of 0.6 hectares. See

Table 3:2, Annex 3, Table 3- 3.

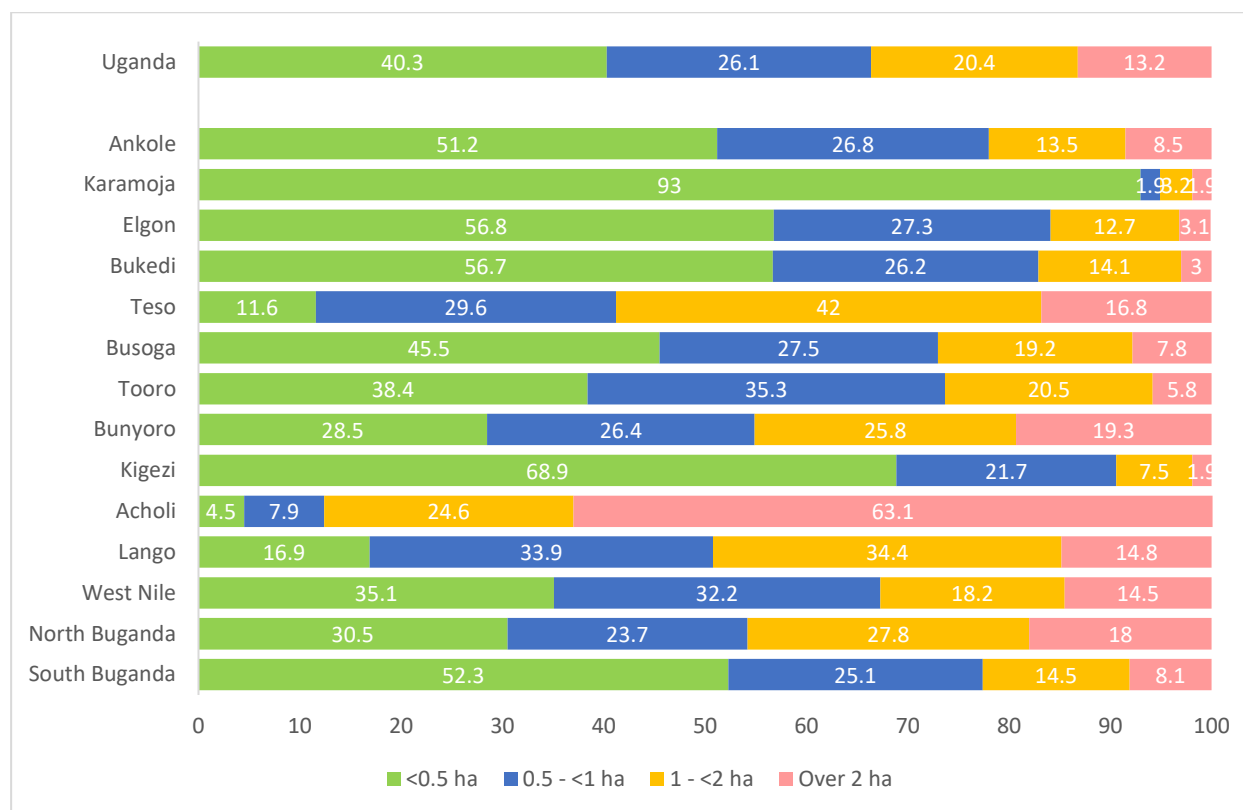
Table 3:2. Physical characteristics of holdings \* by holding size, planted area and sub-region

| Sub-region    | Holding size (ha) |                  | Planted area (ha) |                  |
|---------------|-------------------|------------------|-------------------|------------------|
|               | Average           | Total            | Average           | Total            |
| South Buganda | 0.9               | 677,555          | 0.6               | 502,749          |
| North Buganda | 1.5               | 1,199,583        | 1.0               | 799,699          |
| West Nile     | 1.5               | 745,427          | 0.7               | 351,171          |
| Lango         | 1.3               | 597,268          | 1.0               | 443,970          |
| Acholi        | 4.3               | 1,324,215        | 1.3               | 408,300          |
| Kigezi        | 0.5               | 159,921          | 0.4               | 114,044          |
| Bunyoro       | 1.5               | 670,780          | 1.1               | 515,699          |
| Tooro         | 0.8               | 488,269          | 0.7               | 433,705          |
| Busoga        | 0.8               | 593,304          | 0.7               | 490,819          |
| Teso          | 1.9               | 692,084          | 1.0               | 388,777          |
| Bukedi        | 0.6               | 238,474          | 0.6               | 211,078          |
| Elgon         | 0.6               | 223,611          | 0.5               | 185,861          |
| Karamoja      | 0.6               | 50,675           | 0.9               | 7,604            |
| Ankole        | 1.2               | 721,853          | 0.6               | 337,617          |
| <b>Uganda</b> | <b>1.2</b>        | <b>8,383,019</b> | <b>0.8</b>        | <b>5,191,093</b> |

Note: \* AAS 2020 - PP and PH second season data.

Overall distribution of holding size indicates 40.4 percent of Ag HHs had less than 0.5 hectare (ha) of land, 26.1 percent had between 0.5 and 1.0 ha while 13.2 percent held more than 2.0 ha. Among the sub-regions, Karamoja reported the highest percentage of Ag HHs with less than 0.5 ha (93.0 percent), followed by Kigezi (68.9 percent) while Acholi had the least (4.5 percent). The majority of Ag HHs in Acholi held over 2.0 ha (63.1 percent). See Figure 3:2 and Annex 3, Tables 3-1 and 3- 2.

Figure 3:2. Percentage distribution of Agricultural Households by size of holding and sub-region



### 3.2.4: Parcel use rights

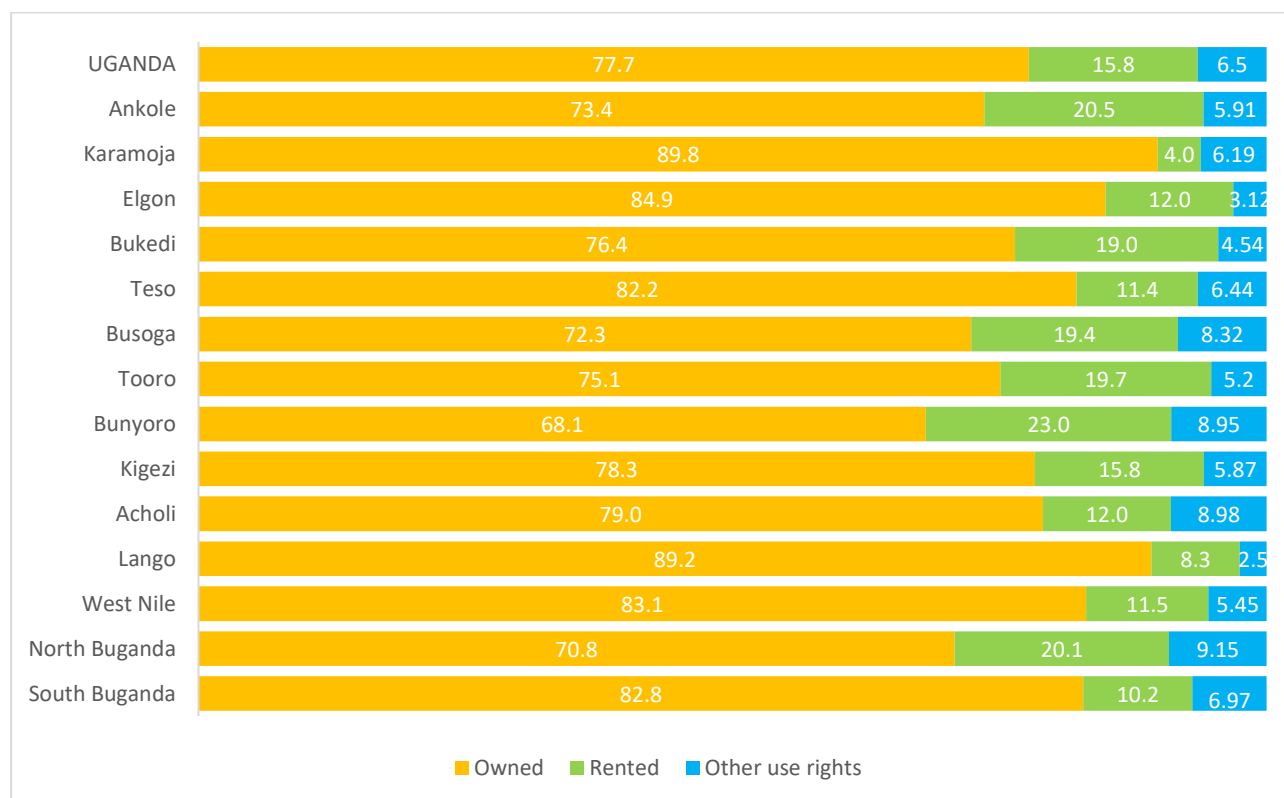
Land use rights refer to the right to use or access land property even though the one using it is not the owner of the property. Although the right to use land does not necessarily transfer the actual ownership of the land, it does grant specific use entitlements over the property. The type of use rights granted affects the type of investment an Agricultural Household can make in relation to a given parcel.

Information obtained in the AAS 2020 indicates at the national level, 78 percent of the parcels used by Ag HHs were owned and about 16 percent rented.<sup>6</sup>

The highest percentage of parcels owned by Ag HHs were in the Karamoja sub-region (90 percent), followed by Lango sub-region (89 percent), Elgon sub-region (85 percent), North Buganda and South Buganda sub-regions (83 percent), respectively. The highest number of parcels rented was in Bunyoro sub-region (23 percent) and the lowest was recorded in Karamoja (4 percent). Details are provided in Annex 3, Tables 3- 5 and 3- 6.

<sup>6</sup> Parcels for Agricultural Household heads were for an agreed amount of money or exchange of services.

Figure 3:3. Percentage distribution of parcels by use right and sub-region





## 4 AGRICULTURAL PRACTICES AND INPUTS

### 4.1: Introduction

As is the case in the rest of sub-Saharan Africa, small-scale producers who engage in either food or cash crop production, horticulture, fishing and/or livestock farming dominate agricultural production in Uganda. They use few modern inputs and thus frequently experience low agricultural productivity despite a nationally-driven policy to increase agricultural productivity. For instance, the objectives of the Uganda National Agriculture Policy,<sup>7</sup> and the National Development Plan III,<sup>8</sup> are to achieve food and nutrition security and improve the income of agricultural households through coordinated interventions that focus on increasing sustainable agricultural productivity, value addition and commercialization. Generally, there is a consensus in agricultural development literature that sustains agricultural growth, as necessary to spur economic transformation results from the adoption of modern inputs such as improved seeds, fertilizers, agro-chemicals, mechanization, and irrigation and soil management practices.

In the current chapter, we present the analysis carried out on farm households' management of agricultural production activities. This includes an analysis by gender of persons tasked with crop management, systems of production (whether in pure stand or in mixed crop plots) adopted by producers, the average size of plots under production and quantity of seeds used per hectare for selected crops. During the work carried out on the Annual Agricultural Survey for the year 2020, time constraints resulting from the lockdown and cessation of movement within Uganda because of the COVID-19 pandemic, necessitated the implementation of a reduced survey. Consequently, information on the use of other inputs of production such as organic and inorganic fertilizers, agro-chemicals, improved seeds, labour input, irrigation and adoption of soil management practices was not collected and, therefore, not included in the current analysis.

The analysis covers two agricultural seasons of 2020. The first agricultural season refers to the period between January and June, while the second agricultural season refers to the period between July and December. Data for the crop production module was gathered at the plot level.<sup>9</sup>

### 4.2: Agricultural practices

#### 4.2.1: Plot managers

The design of the survey's crop production module allows us to assess gender-related differences in the management of cropping activities. For each agricultural season, information on crop production is available for each household at the plot level and for each plot, there is information on the main person that managed the crops including their gender.

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<sup>7</sup> <https://agriculture.go.ug/wp-content/uploads/2019/04/National-Agriculture-Policy.pdf>

<sup>8</sup> [http://www.npa.go.ug/wp-content/uploads/2020/08/NDPIII-Finale\\_Compressed.pdf](http://www.npa.go.ug/wp-content/uploads/2020/08/NDPIII-Finale_Compressed.pdf)

<sup>9</sup> A plot was defined as a contiguous piece of land within a parcel on which a specific crop or a crop mixture is grown.

It is important to note that “the manager of the plot” refers to the key decision-maker on pre-planting and post-harvest activities, and not necessarily the implementer of specific production activities. Generally, there exists inter-gender differences in the implementation of agricultural production activities. For example, heavier activities such as hand ploughing may be more male-dominated while lighter activities such as weeding are often female-dominated.

The results from the survey indicate an overall, of about 18.3 million plots in the first season and nearly 22.8 million in the second season of the reference year.<sup>10</sup> In terms of sub-regions, North Buganda with about 2.2 million and subsequently about 2.6 million, had the highest number of crop plots in the first season and second seasons, respectively as seen in

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<sup>10</sup> Weighted number of plots.

Table 4:1.

Regarding the management of plots by gender, findings show that there were more crop plots managed by males than females. More than half of the plots were managed by males in both agricultural seasons (55.7 percent in first season and 57.6 percent in second season).

More plots were managed by females in Busoga (56.3 percent), Bukedi (53.1 percent), Karamoja (66.6 percent) and Ankole (62 percent) during the first season, while in the second season they managed more crop plots than males in the sub-regions of Kigezi (62.2 percent), Busoga (53.5 percent), Bukedi (52.7 percent) and Ankole (61.5 percent). For details see

Table 4:1.

Results at ZARDI level revealed that females managed more plots in Kachwekano (61.4 percent), Nabuin (66.7 percent), Mbarara (58.6 percent) during the first season, while in the second season they managed more crop plots than males in the Zonal Agriculture and Research Development Institutes (ZARDIs) of Kachwekano (62.2 percent) and Mbarara (56.5 percent). See Annex 4, Table 4-1.

Table 4:1. Percentage distribution of crop plots by sex of the plot manager and sub-region

| Sub-region    | Number of plots   | <u>First season</u>      |                            | Number of plots   | <u>Second season</u>     |                            |
|---------------|-------------------|--------------------------|----------------------------|-------------------|--------------------------|----------------------------|
|               |                   | % plots managed by males | % plots managed by females |                   | % plots managed by males | % plots managed by females |
| South Buganda | 1,545,357         | 53.4                     | 46.6                       | 1,768,514         | 57.6                     | 42.4                       |
| North Buganda | 2,184,781         | 57.4                     | 42.6                       | 2,635,135         | 57.8                     | 42.2                       |
| West Nile     | 1,340,825         | 64.7                     | 35.3                       | 2,137,858         | 63.9                     | 36.1                       |
| Lango         | 1,387,572         | 59.6                     | 40.4                       | 1,545,205         | 64.3                     | 35.7                       |
| Acholi        | 1,169,177         | 62.2                     | 37.8                       | 1,303,251         | 62.8                     | 37.2                       |
| Kigezi        | 908,280           | 38.6                     | 61.4                       | 1,199,883         | 37.8                     | 62.2                       |
| Bunyoro       | 1,283,411         | 67.8                     | 32.2                       | 1,669,776         | 69.6                     | 30.4                       |
| Tooro         | 1,573,912         | 56.9                     | 43.1                       | 2,017,163         | 58.5                     | 41.5                       |
| Busoga        | 1,900,040         | 43.7                     | 56.3                       | 2,058,410         | 46.5                     | 53.5                       |
| Teso          | 1,188,015         | 77.1                     | 22.9                       | 1,453,674         | 77.7                     | 22.3                       |
| Bukedi        | 1,013,086         | 46.9                     | 53.1                       | 1,115,105         | 47.3                     | 52.7                       |
| Elgon         | 1,006,350         | 68.2                     | 31.8                       | 993,604           | 71.0                     | 29.0                       |
| Karamoja      | 305,768           | 33.4                     | 66.6                       | 13,720            | 74.1                     | 25.9                       |
| Ankole        | 1,538,227         | 38.0                     | 62.0                       | 1,937,776         | 38.5                     | 61.5                       |
| <b>Uganda</b> | <b>18,344,802</b> | <b>55.7</b>              | <b>44.3</b>                | <b>21,849,074</b> | <b>57.6</b>              | <b>42.4</b>                |

Additionally, we find that there were more plots under crop production in the second season than the first one, despite the first season being generally considered to be the main cropping season due to a longer duration of rains. See Annex 4, Tables 4-1 and 4-2.

#### 4.2.2: Cropping system

The cropping systems mainly adopted by Ugandan agricultural households are pure stand versus mixed crop,<sup>11</sup> and the two systems are applied on relatively similar average sizes of plots per cropping season across the sub-regions.

Figure 4:1 summarizes the cropping systems adopted. The findings indicate over 60 percent of the total crop plots in Uganda were cultivated in pure stand in both the agricultural seasons of the year 2020. In comparison to the year 2019, 56 percent and 65 percent of crop plots in the first and second seasons, respectively, were cultivated in pure stand.

<sup>11</sup> A pure stand plot referred to one where a single crop was cultivated in a field while a mixed-crop plot referred to a plot where more than one crop species were cultivated simultaneously in the same field, for the whole or part of their growing period (see Vandermeer, 1989 for the description).

In the first season, results show that all the sub-regions had over 50 percent of their plots grown in pure stand except for Elgon sub-region, which had about 31 percent of its plots grown in that category (see

Figure 4:1). The second season results show the sub-regions of South Buganda (51.5 percent), North Buganda (52.5 percent) and Elgon (52.7 percent) having cultivated more plots in mixed crop than in pure stand, as seen in Figure 4:2.

Across the ZARDIs, we note both the first and second seasons having at least 70 percent of crop plots in Abi, Kachwekano, Ngetta, Nabuin and Serere cultivated in pure stand. It implies a preference for a monocrop production system to intercropping. See Annex 4, Table 4.-1b. Studies on technology adoption identify a number of factors determining production systems, including resource endowments (such as landholding, labour, livestock and farm equipment); access to markets and credit; risk and uncertainty; topographic factors (for example, slope, soil type and location); and farmer characteristics (such as age and experience, exposure to agricultural advisory services and education) (Doss, 2006; Feder et al., 1985; and Lee, 2005).

Figure 4:1. Percentage distribution of plots by cropping system and sub-region (first season)

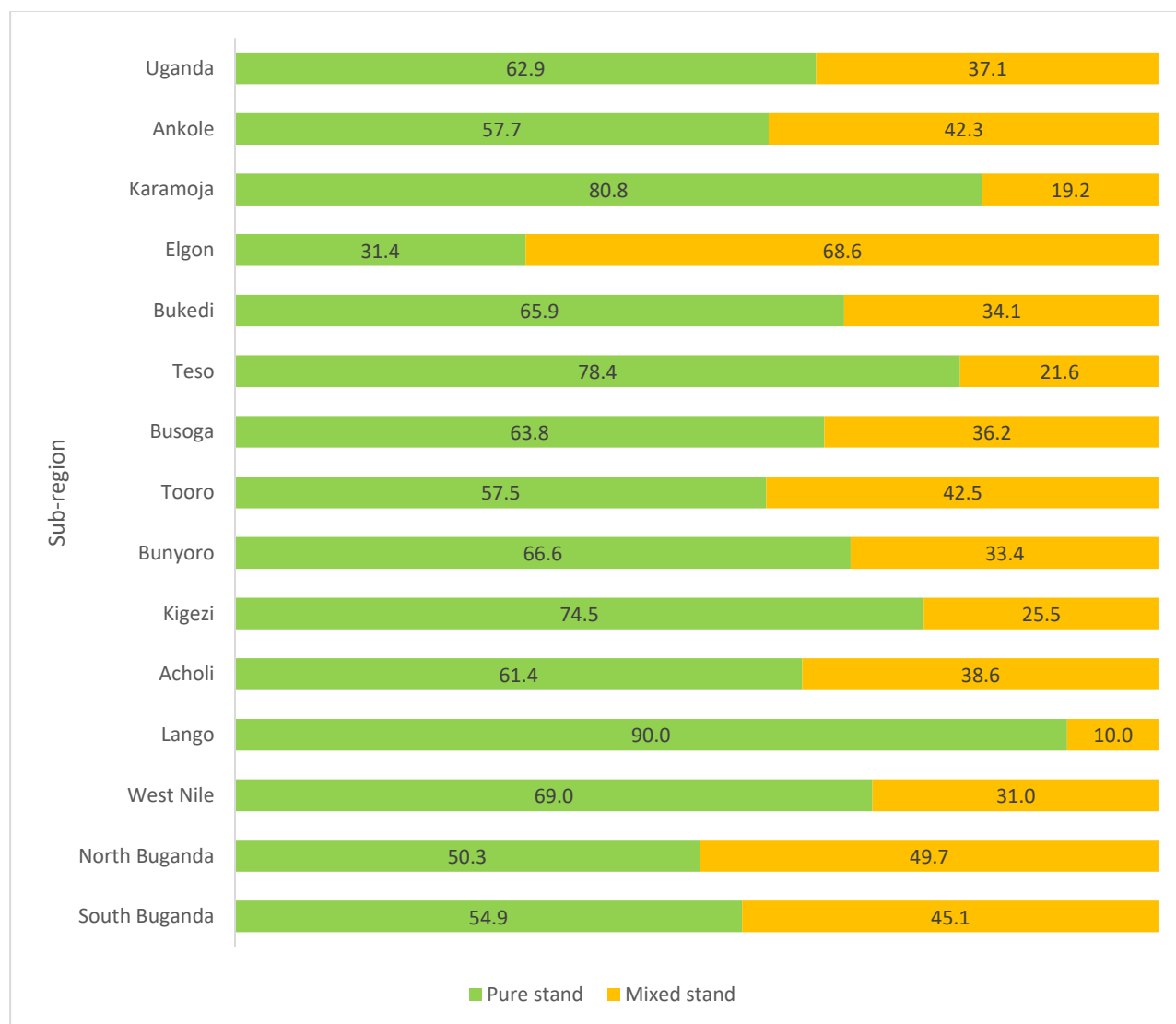
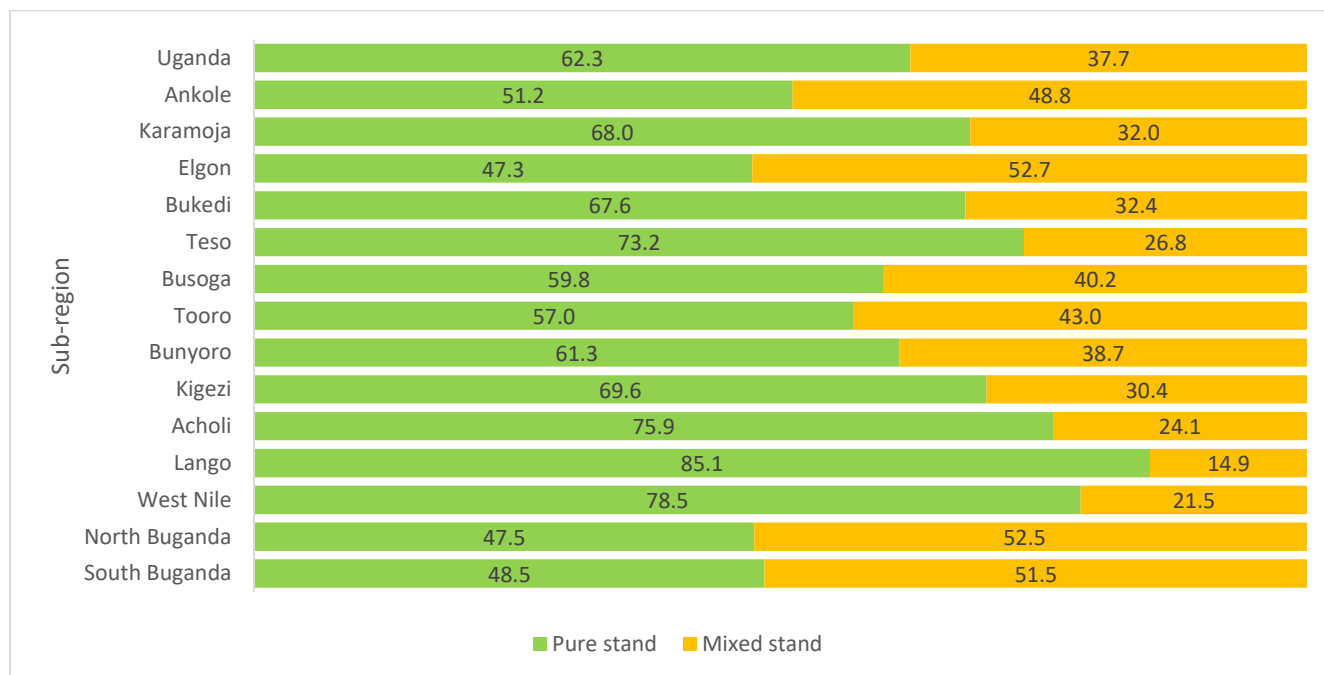


Figure 4:2. Percentage distribution of plots by cropping system and sub-region (second season)



#### 4.2.3: Area under plots by crop stand and average plot size (acres)

The total crop plot area in the first and second seasons in Uganda was estimated to be 11.6 million and 12.8 million acres, respectively. In the first season, 62 percent was in pure stand and 38 percent was in mixed crop stand, while in the second season 60.3 percent of the area was in pure stand and 39.7 percent was in mixed crop stand.

In terms of sub-regions, Lango (1,037,060 acres) and North Buganda (883,519 acres) had the largest acreage in pure and mixed stand, respectively, in first season and the trend was observed in the second season. See

Table 4:2

The Zonal Agricultural Research and Development Institutes (ZARDIs) of Mukono, Buginyanya and Ngetta had the largest total planted areas, respectively. Nabuin, which is a predominantly livestock production ZARDI and in a semi-arid agro ecological zone, had the least amount of total land under cropping activities. In the aggregate, the total cropped land is larger in the second than in the first season, and similarly across ZARDIs with the exception of Buginyanya, Kachwekano and Nabuin. See Annex 4, Table 4-2.



Table 4:2. Total plot areas in acres by cropping system, season and sub-region

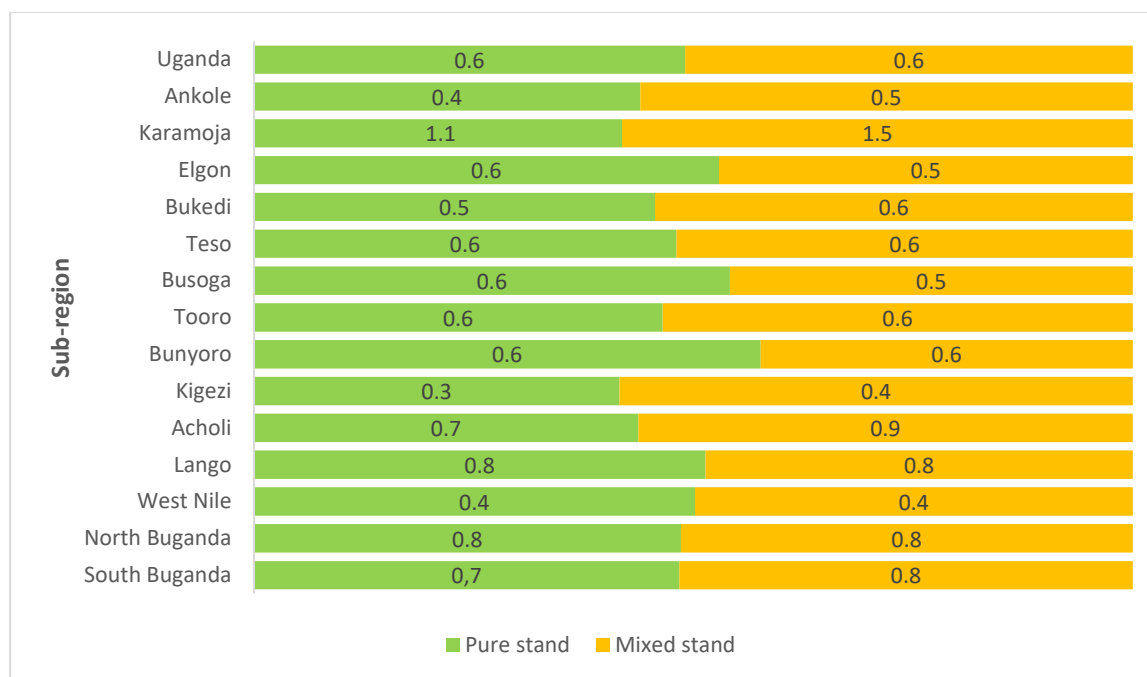
| Sub-region    | <u>First season</u> |                  | <u>Second season</u> |                  |
|---------------|---------------------|------------------|----------------------|------------------|
|               | Pure                | Mixed            | Pure                 | Mixed            |
| South Buganda | 630,989             | 553,400          | 580,483              | 661,949          |
| North Buganda | 843,094             | 883,519          | 868,729              | 1,107,476        |
| West Nile     | 390,156             | 174,281          | 684,229              | 183,573          |
| Lango         | 1,037,060           | 108,793          | 931,266              | 165,851          |
| Acholi        | 478,907             | 388,050          | 722,381              | 286,641          |
| Kigezi        | 191,711             | 92,012           | 176,270              | 105,554          |
| Bunyoro       | 679,615             | 250,499          | 873,143              | 401,228          |
| Tooro         | 504,414             | 429,439          | 542,312              | 529,483          |
| Busoga        | 749,937             | 360,541          | 731,410              | 481,560          |
| Teso          | 529,717             | 157,307          | 713,730              | 252,183          |
| Bukedi        | 346,019             | 213,386          | 344,621              | 176,987          |
| Elgon         | 187,844             | 364,715          | 214,006              | 245,329          |
| Karamoja      | 259,704             | 85,364           | 11,006               | 7,785            |
| Ankole        | 380,200             | 355,083          | 346,036              | 488,260          |
| <b>Uganda</b> | <b>7,209,366</b>    | <b>4,416,388</b> | <b>7,739,623</b>     | <b>5,093,859</b> |

#### 4.2.4: Average/mean plot size

The first season's average size of plots in pure stand (meaning plot size-pure stand) in Uganda was 0.6 acres, and this was the same size for the mixed crop stand in the same season.

Karamoja sub-region had the highest average plot size in the first season for pure (1.1 acres) and mixed (1.5 acres) stands. Other sub-regions with notably high average plot sizes in the reference season for pure stand included Bunyoro, Lango and North Buganda (each with 0.8 acres). In terms of mixed stand, the other sub-regions with highest average plot size included Lango, North Buganda and South Buganda (all with 0.8 acres) as seen in Table 4:3. Results for the ZARDIs are in Annex 4, Table 4-3.

Figure 4:3. Average plot size/mean plot size (hectare) in the first season by sub-region



## 4.3: Agricultural inputs

### 4.3.1: Seeds

Information on the quantity of seeds planted in each plot under crop production was gathered in the Annual Agricultural Survey for the year 2020 to assess seed use among farm households. We focus our analysis on the seed quantity applied per acre for selected key crops such as maize, rice, sorghum, millet, soybeans, beans, groundnuts and simsim.<sup>12</sup>

Table 4:3 presents the median seed rate for selected crops at national level and across the sub-regions. At the national level, the seed rates for all of the crops presented are slightly higher in the second season than in the first, excluding sorghum. In the last two rows of Table 4:3, we compare the seed rates applied at national level against the seed rates recommended by the Uganda National Agricultural Research Organization (NARO). This comparison shows no discernable pattern in the difference between the applied and recommended seed rate for the selected crops nor across seasons. For example, in the first season, the applied seed rate is higher than the recommended seed rate for maize, sorghum and millet; it is, however,

<sup>12</sup> Due to the quality and skewness of data on the seed rate (seed quantity in kilogram per area of cropped land in acres), outliers were identified. To do this, we applied a natural log transformation process to induce normality and then set a threshold for detecting outliers (at three standard deviations from the median). Seed rates flagged as outliers were then imputed with the sample's median within each type of crop. For details on the outlier detection procedure, see a detailed explanation in Belotti, F., Mancini, G., and Vecchi, G. 2021. *Outlier Detection for Welfare Analysts using Stata*. Mimeo. <https://econpapers.repec.org/software/bocbocode/s458932.htm>

lower for rice, soybeans and simsim, and similar for beans and groundnuts. Yet in the second season, it is higher for maize, sorghum, millet, beans and groundnuts, and lower only for rice, while similar for soybeans and simsim.

In terms of sub-regions, results show that more than half of the sub-regions used a seed rate above that recommended by the NARO for maize, rice, sorghum, millet, beans and groundnuts in the first season. The same pattern occurred in the second season, except for rice.

Table 4:3. Median quantity of seeds applied per acre (kg/acre) by type of crop and sub-region

| Sub-region    | First season |             |            |            |             |             |             |            | Second season |             |            |             |             |             |             |            |
|---------------|--------------|-------------|------------|------------|-------------|-------------|-------------|------------|---------------|-------------|------------|-------------|-------------|-------------|-------------|------------|
|               | Maize        | Rice        | Sorghum    | Millet     | Soya beans  | Beans       | Ground nuts | Sim sim    | Maize         | Rice        | Sorghum    | Millet      | Soya beans  | Beans       | Ground nuts | Sim sim    |
| South Buganda | 11.1         | 100.0       | 3.3        | 20.0       | 12.0        | 33.3        | 33.3        |            | 14.1          |             | 7.5        | 10.1        | 8.2         | 41.7        | 40.4        |            |
| North Buganda | 15.0         | 40.0        | 4.0        | 8.0        | 25.0        | 33.3        | 28.3        | 4.0        | 16.2          | 56.8        | 9.0        | 8.3         | 29.5        | 39.4        | 31.2        | 9.7        |
| West Nile     | 9.7          | 33.3        | 18.9       | 19.0       | 33.3        | 40.0        | 28.3        | 8.8        | 10.5          | 26.1        | 19.2       | 4.0         | 25.3        | 40.4        | 30.1        | 5.3        |
| Lango         | 9.4          | 16.2        | 14.0       | 7.6        | 22.5        | 16.0        | 21.0        | 4.0        | 9.1           | 33.5        | 18.0       | 36.5        | 27.0        | 30.0        | 24.0        | 5.1        |
| Acholi        | 9.2          | 17.9        | 10.2       | 9.0        | 26.0        | 23.3        | 22.5        | 4.0        | 9.9           | 19.6        | 6.8        | 4.6         | 25.3        | 31.5        | 29.4        | 4.6        |
| Kigezi        | 16.7         | 80.0        | 13.5       | 16.0       | 16.7        | 40.0        | 28.3        |            | 22.0          | 100.0       | 26.2       | 22.2        | 104.2       | 55.0        | 39.0        | 0.0        |
| Bunyoro       | 13.1         | 60.0        | 18.0       | 1.0        | 20.0        | 33.3        | 33.3        | 4.5        | 13.3          | 57.5        | 10.9       | 4.0         | 25.3        | 37.0        | 36.6        | 7.8        |
| Tooro         | 14.3         | 16.2        | 15.3       | 20.0       | 12.5        | 32.4        | 27.0        | 2.8        | 16.8          | 34.2        | 16.9       | 13.5        | 18.4        | 41.7        | 29.5        | 6.7        |
| Busoga        | 13.3         | 24.0        | 7.2        | 8.9        | 16.7        | 27.8        | 28.3        | 5.0        | 14.2          | 27.4        | 9.0        | 6.4         | 25.2        | 27.4        | 32.1        | 7.4        |
| Teso          | 9.4          | 16.2        | 7.5        | 2.0        | 19.5        | 31.0        | 22.2        | 5.4        | 10.0          | 16.2        | 6.1        | 3.7         | 20.0        | 32.4        | 28.3        | 5.1        |
| Bukedi        | 11.4         | 21.0        | 6.1        | 8.0        | 16.7        | 26.7        | 25.0        | 5.1        | 14.7          | 27.4        | 7.2        | 14.3        | 17.5        | 32.4        | 30.6        | 7.1        |
| Elgon         | 13.3         | 32.0        | 36.0       | 8.0        | 20.0        | 40.0        | 28.3        | 10.0       | 12.6          | 34.5        | 5.7        | 8.3         | 13.7        | 40.4        | 32.8        | 5.1        |
| Karamoja      | 10.0         | 30.0        | 7.7        | 10.0       | 26.7        | 30.0        | 20.0        | 3.8        | 10.7          |             | 6.5        | 3.3         |             |             | 12.5        |            |
| Ankole        | 20.0         |             | 12.0       | 12.0       | 19.2        | 37.5        | 28.3        |            | 24.3          |             | 19.3       | 18.2        | 41.7        | 50.4        | 41.7        |            |
| <b>Uganda</b> | <b>12.0</b>  | <b>20.0</b> | <b>9.7</b> | <b>6.7</b> | <b>20.3</b> | <b>32.4</b> | <b>28.3</b> | <b>4.6</b> | <b>13.9</b>   | <b>28.5</b> | <b>9.0</b> | <b>13.9</b> | <b>25.3</b> | <b>40.4</b> | <b>32.1</b> | <b>5.1</b> |
| <b>NARO</b>   | <b>10.0</b>  | <b>30.0</b> | <b>6.0</b> | <b>4.0</b> | <b>25.0</b> | <b>32.0</b> | <b>28.0</b> | <b>5.0</b> | <b>10.0</b>   | <b>30.0</b> | <b>6.0</b> | <b>4.0</b>  | <b>25.0</b> | <b>32.0</b> | <b>28.0</b> | <b>5.0</b> |

## 5 AGRICULTURAL EXTENSION SERVICES

### 5.1: Introduction

In developing countries, farmers often rely on generally accepted methods of production that are deeply rooted in traditions, attitudes, or experience, among others. However, with exposure to new knowledge, they can be willing to change and adopt new practices. Agricultural extension and training, therefore, plays an important role in the dissemination of production and marketing knowledge to farmers. Through extension services, producers can learn and put into practice new ideas, skills, techniques and inputs to improve production.

In Uganda, the guidelines for agricultural extension services are outlined in the Ministry of Agriculture, Animal Industry and Fisheries' National Agricultural Extension Policy.<sup>13</sup> The guidelines are intended to effectively and efficiently provide agricultural extension services that support the sustained progression of smallholder farmers from subsistence agriculture to market-oriented and commercial farming. Agricultural extension services refer to advice offered by either the government or private sector to farmers and other value chain actors. The service facilitates the receivers' access to production knowledge, information and technologies; mediates in their interaction with other players; and assists them in developing their technical and management capacities in agriculture and family life.

In the Annual Agricultural Survey for the year 2020, data was gathered on extension service providers (such as local government, NGOs, input suppliers, model farmers, farmer associations and private sector providers); topics of extension advice (such as on crop and livestock production, post-harvest crop management, input use, marketing and produce value addition); and demand and payment for extension services.

### 5.2: Agricultural extension services received by Agricultural Households

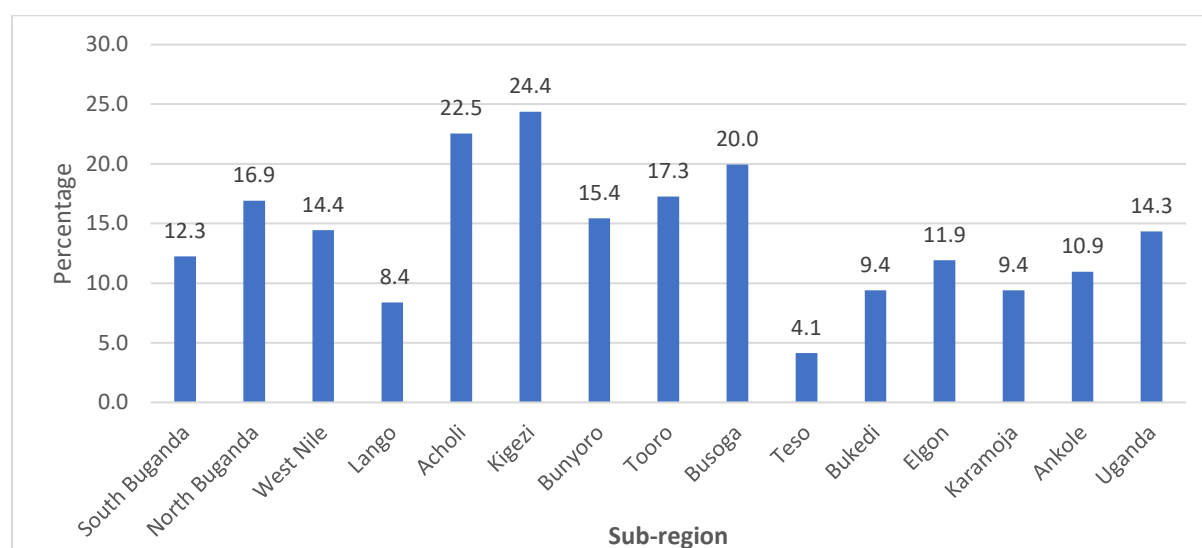
This sub-section highlights access to agricultural advisory services, including extension advice and training, by agricultural households in Uganda. The analysis assesses the distribution of agricultural extension services both nationally and within the Zonal Agricultural Research and Development Institutes (ZARDIs) with respect to coverage, service providers, topics of extension advice, receivers' perception of the quality of the service, demand-driven requests for the services and gender differences in the recipients of agricultural advice.

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<sup>13</sup> See *Extension Guidelines and Standards*, MAAIF (available at <https://www.agriculture.go.ug/wp-content/uploads/2019/04/Agricultural-Extension-Services-Guide-lines.pdf>).

Figure 5:1 shows the percentage of farming households where at least one member received agricultural extension advice over time (2018-2020). In the year 2020, 14.3 percent of Agricultural Households received extension services compared to only five percent in the year 2019. Movement restrictions resulting from the COVID-19 pandemic could have had possible impacts on provision of extension services in the year 2019. Across the survey years, over ten percent of agricultural households received extension services in the years 2018 (11.7 percent) and 2020 (14.3 percent). Furthermore, the findings show low access to extension services in the sub-regions of Teso and Lango while Kigezi had the highest percentage of beneficiary households in both years 2018 and 2020. Generally, the findings imply a low level of access to agricultural extension services in Uganda. See [Annex 5, Tables 5-1 and 5- 2](#) for details on sub-regions and ZARDIs.

**Figure 5:1. Percentage distribution of Agricultural Households that received agricultural extension services in selected years by sub-region**



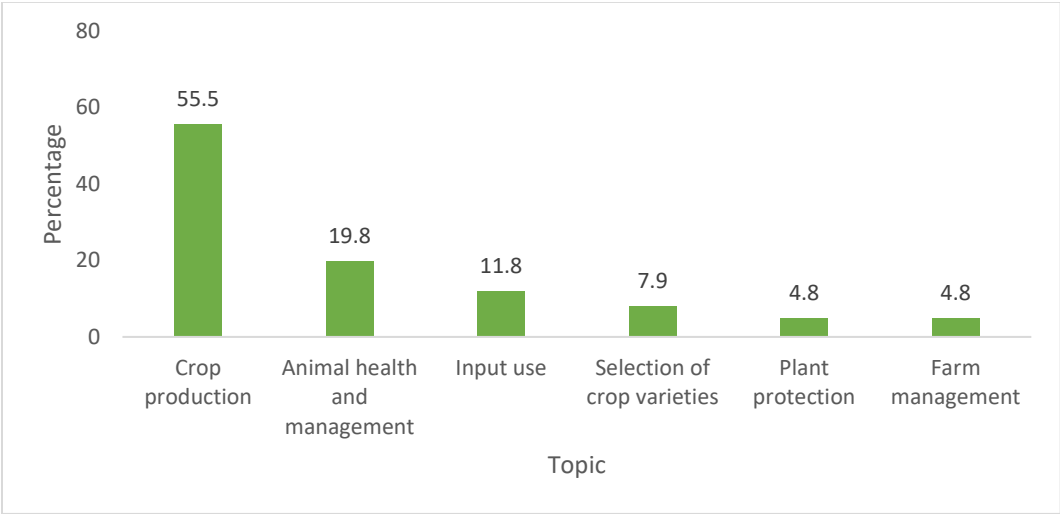
### 5.2.1: Agricultural extension services received by selected topics

Through access to extension services, farmers received diverse information covering crop and livestock production and management practices, inputs use, marketing, value addition and mechanization, among others. Figure 5:2 highlights the top six topics covered by the extension services, and the percentage of households that received training on each topic among all of the agricultural households that had access to extension services.

From the findings, of all agricultural households that accessed extension services, over half received extension advice on crop production (56 percent), 20 percent on animal health management and 12 percent on inputs use. For all other topics, extension advice was offered to less than 10 percent of all Ag HHs that accessed the services. A more granular analysis on the percentage distribution of agricultural

households that received agricultural services on each topic, and within the sub-regions and ZARDIs, is presented in Annex 5, Tables 5-3 and 5-4, respectively.

Figure 5.2. Percentage distribution of Agricultural Households that received agricultural extension services by selected topics

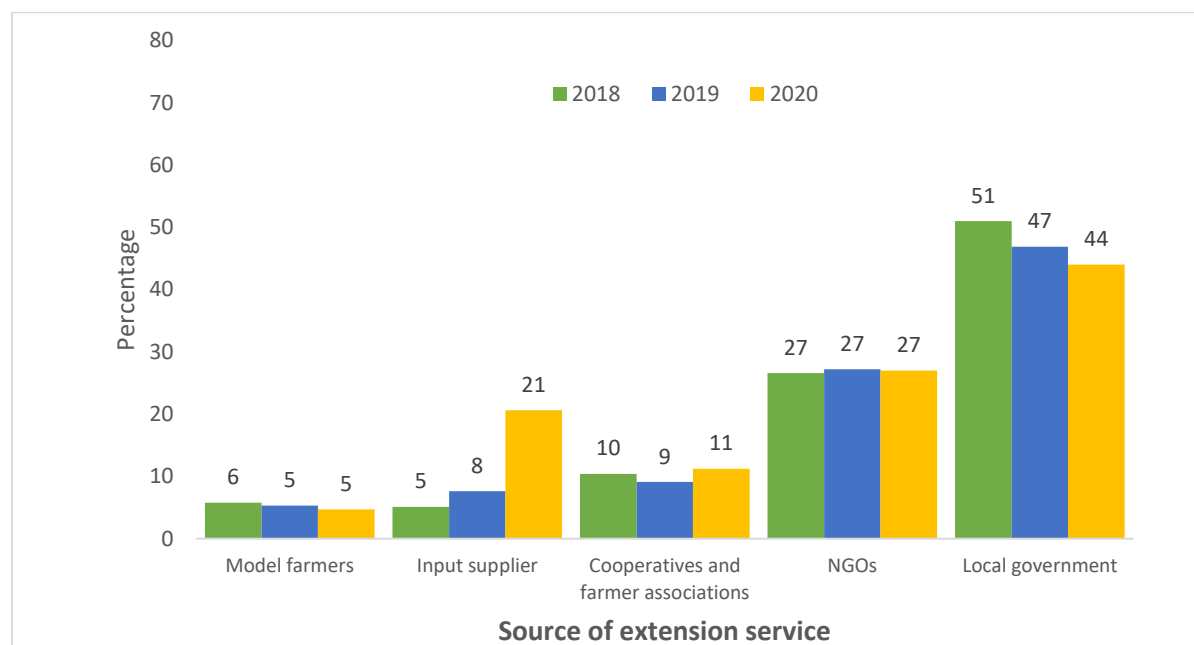


5.2.2: Source of agricultural extension services

Figure 5:3 shows the top five agricultural extension service providers and the percentage of households (inclusive Household Heads) that received agricultural extension advice from each provider, and across different survey years. A detailed analysis with an extended list of all service providers, categorized by sub-region and ZARDI, is presented in Annex 5, Table 5- 5 and Table 5-6.

In addition, Figure 5:3 shows government extension officers as the key source among the topmost sources of extension services and that across the three years the survey was conducted, over 40 percent of agricultural households that had access to extension services received advice from government agencies. Due to the important role of agricultural advisory and extension services in the improvement of agricultural production practices and food security, the government is often the main provider of extension services in most developing countries (Kidd et al., 2000 and Anderson and Feder, 2004), and especially to the farmers unable to afford private extension services.

Figure 5:3. Distribution of Agricultural Households that received agricultural extension services by source/service provider



Source: AAS 2018, 2019 and 2020

As depicted in Figure 5:3, Non-Governmental Organisations are an important source that benefitted slightly above a quarter of the agricultural households that had access to extension services. Whereas less than ten percent of agricultural households received services from all the other sources of extension advice (see Annex 5, Tables 5-5 and 5-6 for the percentage distribution of agricultural households that received advisory services by an extended list of service providers). The results underscore the importance of both the government and non-profit and private sectors (*including input suppliers, model farmers, large-scale farmers, commercial officers and cooperatives/farmer associations*) in the provision of agricultural advisory services, including extension. That is why there is the need to invest in both non-profit and private sectors in order to reach more farmers.

### 5.2.3: Payment for agricultural extension services

Figure 5:4 shows that among agricultural households that accessed agricultural extension services, on average, about two percent paid for the service, and this was also the case within the sub-regions. This finding indicates agricultural extension services are generally offered at no cost. While some farmers may pay for extension advice, it is likely to hinder cash-constrained households from accessing the service and deter adoption of better methods of farming and ways of living. See Figure 5:4 and Figure 5:5 for details.



Figure 5:4. Percentage of Agricultural Households that paid for agricultural extension services by sub-region

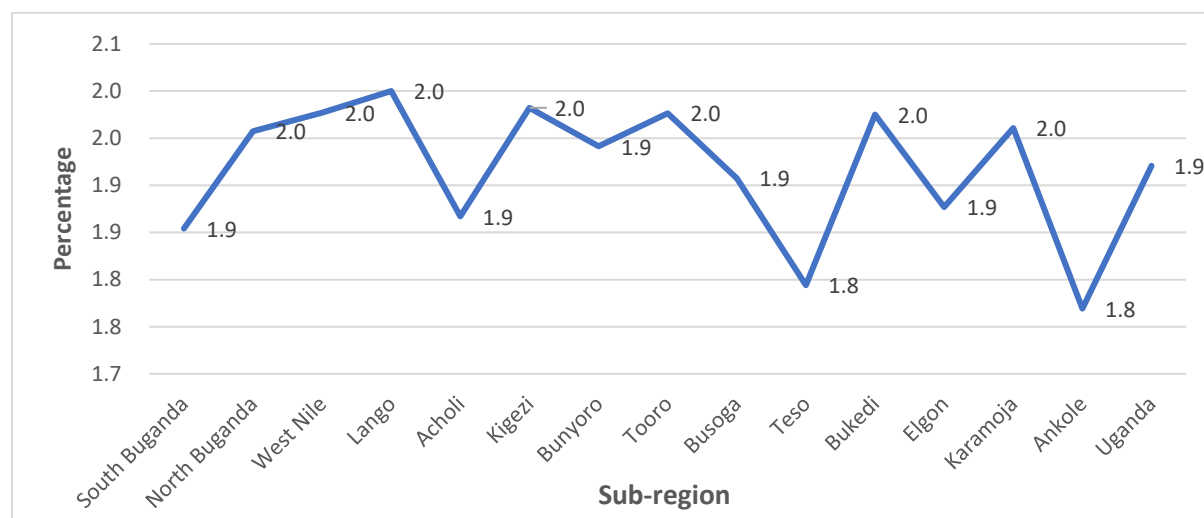
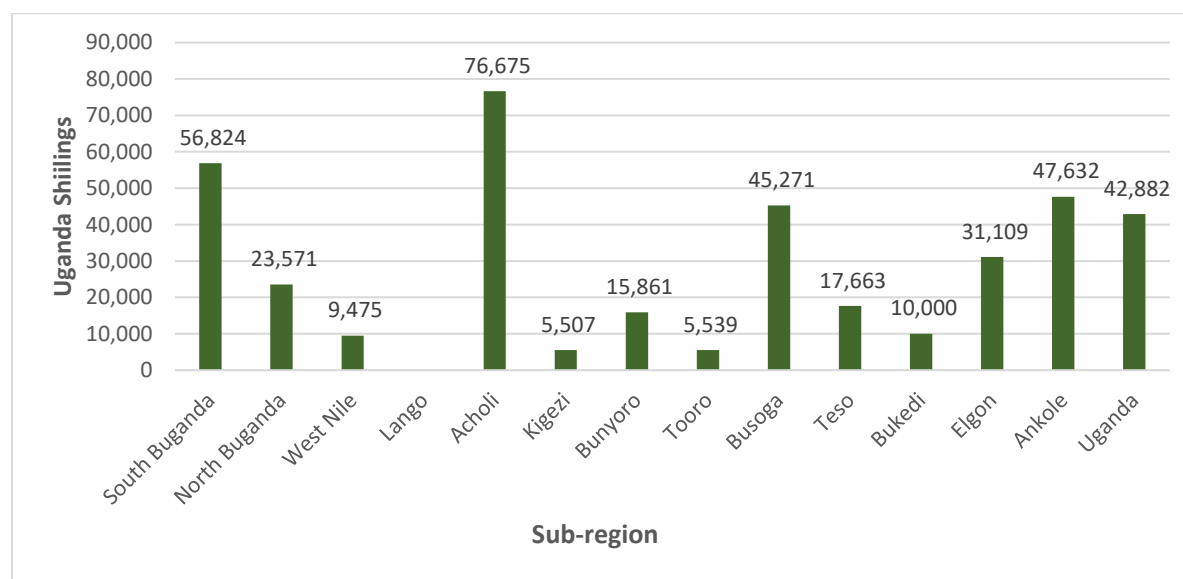


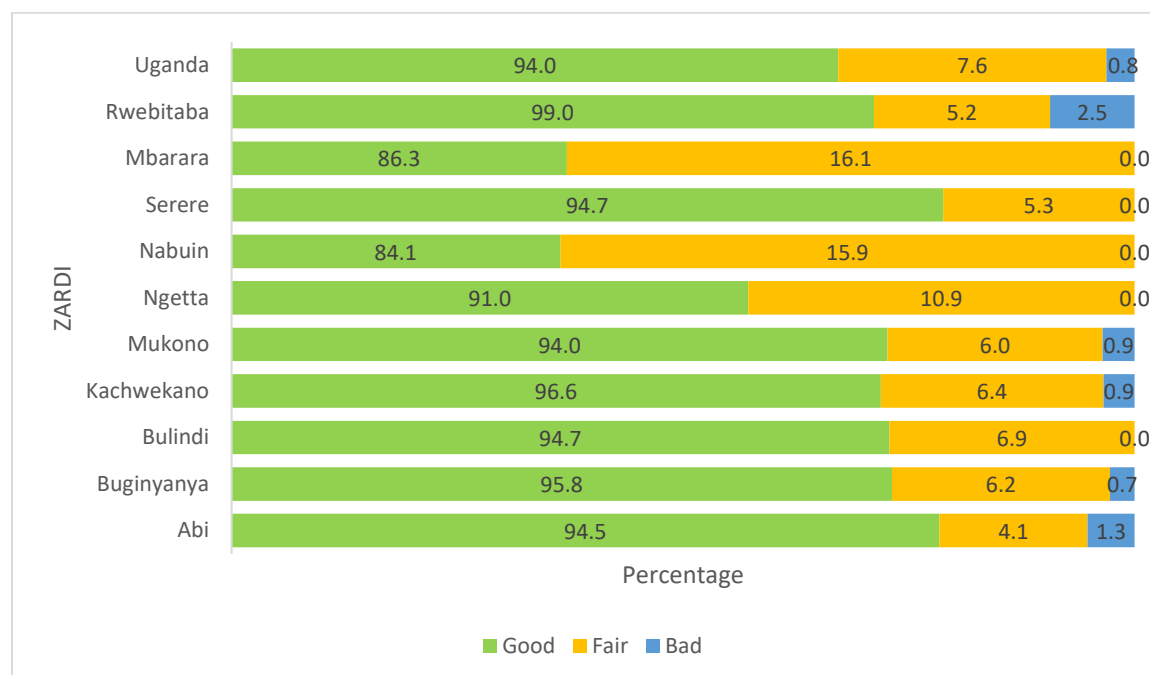
Figure 5:5. Average amount paid (UGX) for agricultural extension services by sub-region



#### 5.2.4: Level of satisfaction of agricultural extension service received

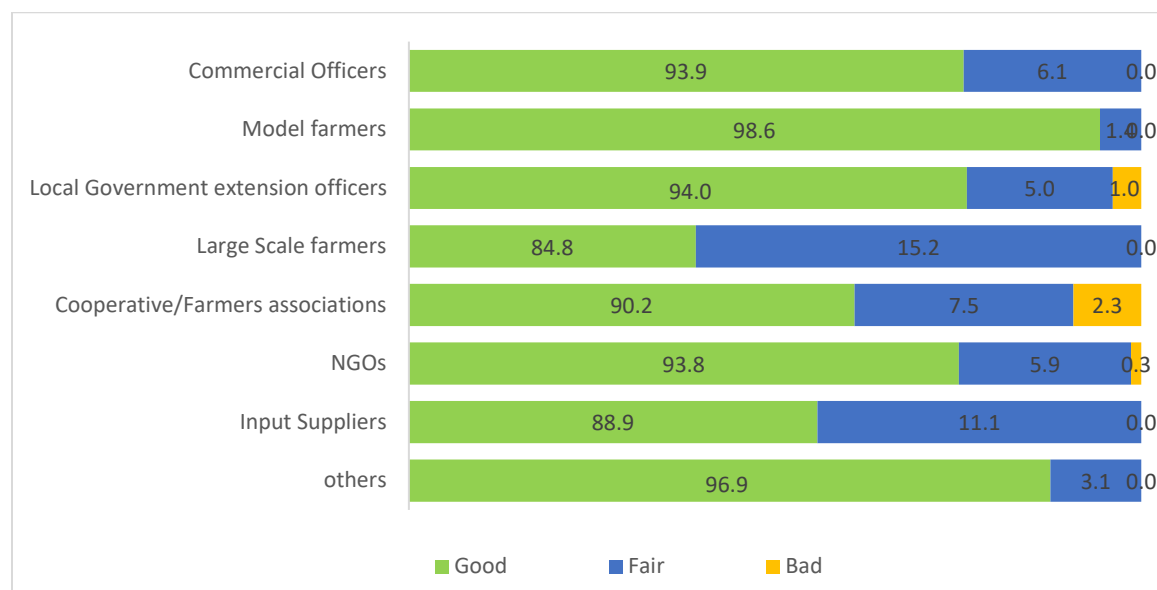
For the Annual Agricultural Survey 2020, beneficiaries of agricultural extension services were prompted to rank the quality of advisory services using a three-point scale: “good”, “bad” and “fair”. Across the sub-regions, extension services were largely ranked as “good”, thus indicating beneficiaries’ general contentment with the quality of services (see Figure 5:6).

Figure 5:6. Percentage distribution of Agricultural Households that received agricultural extension services by level of satisfaction



In Figure 5:7, we assess the beneficiaries' perception of the quality of agricultural extension services provided by each of the service providers. For all service providers, the quality of service is assessed as "good" by 85 percent or more of the households that used their services. The findings imply that despite a low access to agricultural extension services, those who have access receive good quality service from all service providers.

Figure 5:7. Percentage distribution of responses to quality of agricultural extension services by level of satisfaction and source

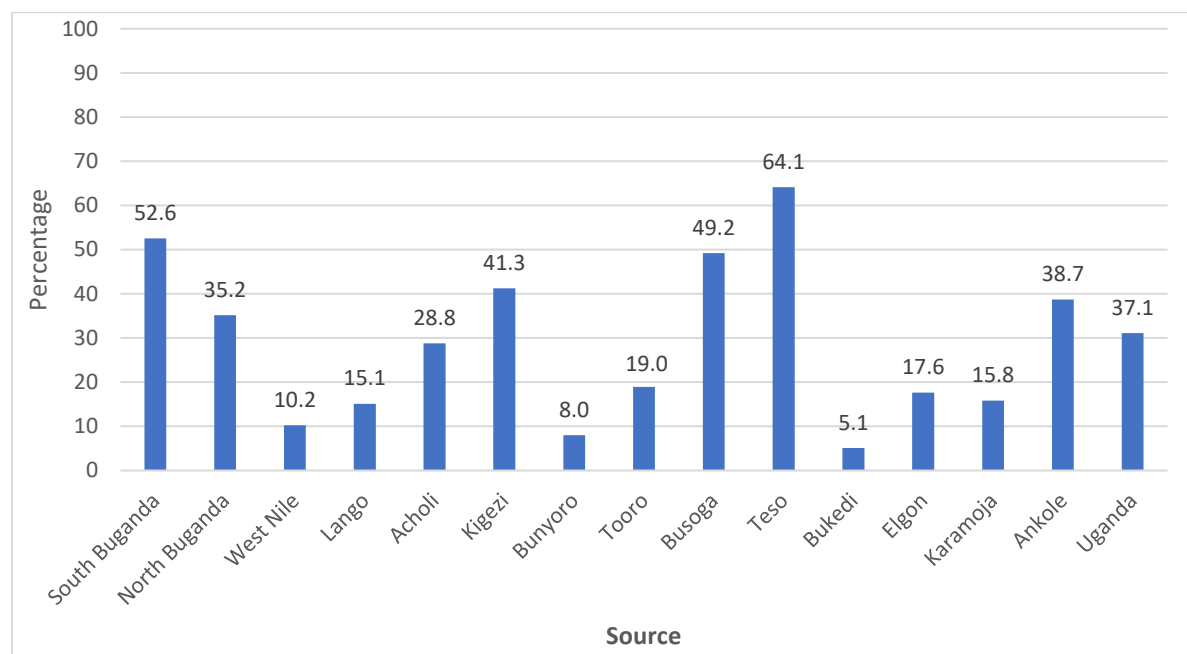


### 5.2.5: Request for agricultural services with regard to receipt of service

Figure 5:8 shows the percentage of agricultural households that sought extension services. Further, we present the average number of visits by someone from an extension provider over a one-year period (January to December of 2020) for households that had sought the services.

Results show that among agricultural households that accessed agricultural extension services, slightly over one-third (37 percent) made a request for the service. Within the sub-regions, the percentage ranges from eight percent in Bunyoro to 64 percent in Teso (see Figure 5:8).

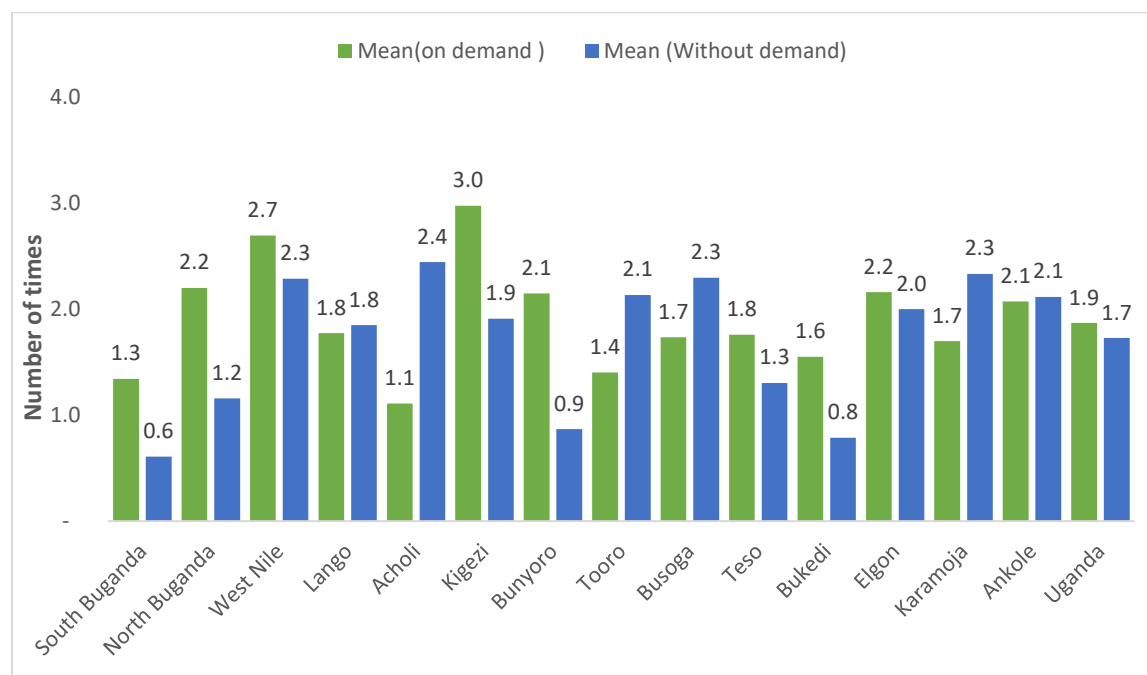
Figure 5:8. Percentage distribution of Agricultural Households that received agricultural extension services on request/demand



Note: Percentages computed for those that received extension services

A look at the average number of times an Ag HH obtained a service indicates that, on average, there were two visits for both the agricultural households that sought the service and those that had not (see Figure 5:9). The Kigezi and West Nile sub-regions had the highest number of times that an Ag HH received visits (about three times) in response to requests for an agricultural extension service. On average, South Buganda, Acholi and Tooro sub-regions received a service visit once upon request.

Figure 5:9. Average number of times an Agricultural Household received extension services with or without requesting (demanding)

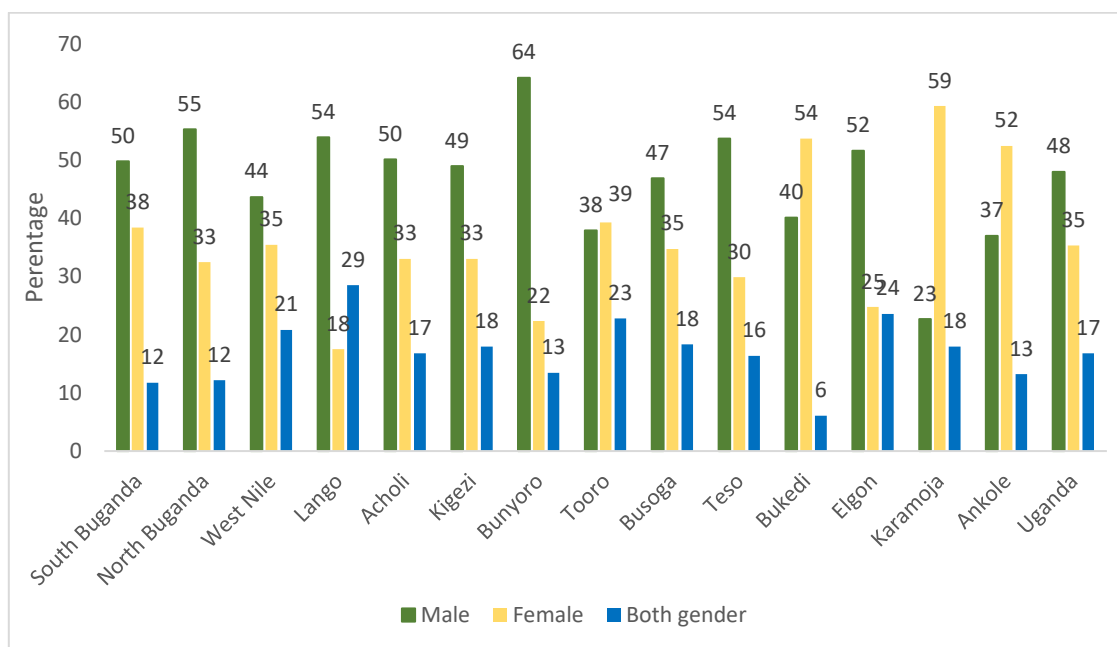


#### 5.2.6: Ag HHs that received extension services by gender of adult Household members

Figure 5:10 illustrates the percentage of agricultural households that had access to agricultural extension services by sub-region, and categorized by the gender of the adult recipients in those households.<sup>14</sup> The results show that, among all households that accessed extension services, male recipients of the service made up 48 percent while 35 percent were female recipients and 17 percent had both genders as recipients. The results imply a gender imbalance in the access of agricultural extension services, as in nearly half of the recipient households were male.

<sup>14</sup> Adult recipients refer to those aged 15 years and above.

Figure 5:10. Percentage distribution of Agricultural Households where adult members received extension services by gender and sub-region



Across the sub-regions, more of the agricultural households had only male recipients of the extension services with the exception of Bukedi, Karamoja and Ankole. In the latter three sub-regions, the recipients of agricultural extension services were only females in over half of the agricultural households.

## 6 AREA, PRODUCTION AND DISPOSITION OF MAJOR CROPS

### 6.1: Introduction

The Annual Agricultural Survey for the year 2020 collected information on crop area and production for the two seasons of the agricultural year, but collected crop disposition (use) in the second season. To facilitate crop area estimation, parcels and plots cultivated with crops were measured using GPS devices in order to determine their area. When crops are cultivated in “pure stand”, the crop areas correspond to the plot areas. When crops are mixed, the crop areas are estimated using the plot areas and the farmer-declared proportion of the plot occupied by the crops. In the AAS 2020, production is collected through the farmers’ declarations. Farmers report the harvests in different states and conditions and using local units of measurement. Such quantities are transformed in tonnes at the analysis stage using available conversion factors.

This chapter presents data on the major temporary and permanent crops. For each selected crop, the chapter presents seasonal and annual production, total crop area, yield and disposition (use) by ZARDI and sub-region.<sup>15</sup> For the seasonal crops, the annual crop areas are simply the sum of the seasonal values as the crops are planted every season. For the permanent crops and cassava, the annual areas are assumed to be equal to the second season areas. This is because these crops are not replanted at the onset of a new season.<sup>16</sup> The yield for seasonal crops is based on area harvested while that of permanent crops is based on area planted.<sup>17</sup>

Annex 6 provides further data on area planted, area harvested and production including the coefficients of variation (CVs). Because of the limited number of observations, some sub-national estimates have a CV that is higher than 40 percent, indicating high variability. The narrative below focuses on the values with coefficients of variation lower than 40, which are more reliable.

#### 6.1.1: Main crops

The graphs presented in this section show the percentage of agricultural households that grew a particular crop disaggregated by season and by type of crop. As in the previous agricultural year, maize, beans, sweet potatoes, cassava and banana-food remained the main crops cultivated in the agricultural year 2020, for both the first and second seasons (see Figure 6:1).

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<sup>15</sup> The disaggregation by sub-region aims to facilitate comparison with previous reports.

<sup>16</sup> Other common strategies, such as using the area of the first season or calculating the average of the areas for the two seasons would lead to similar results.

<sup>17</sup> The yield based on area harvested is the ratio between production (MT) and area (ha) calculated only on observations where production is available (not missing) and higher than zero. Thus, the Ag HHs that had not started the harvest at the time of the interview or whose harvest was destroyed, are not included in the calculation. The yield based on area planted includes all observations.

Figure 6:1. Percentage of Agricultural Households (Ag HHs) growing selected temporary crops in the first season of the years 2019 and 2020

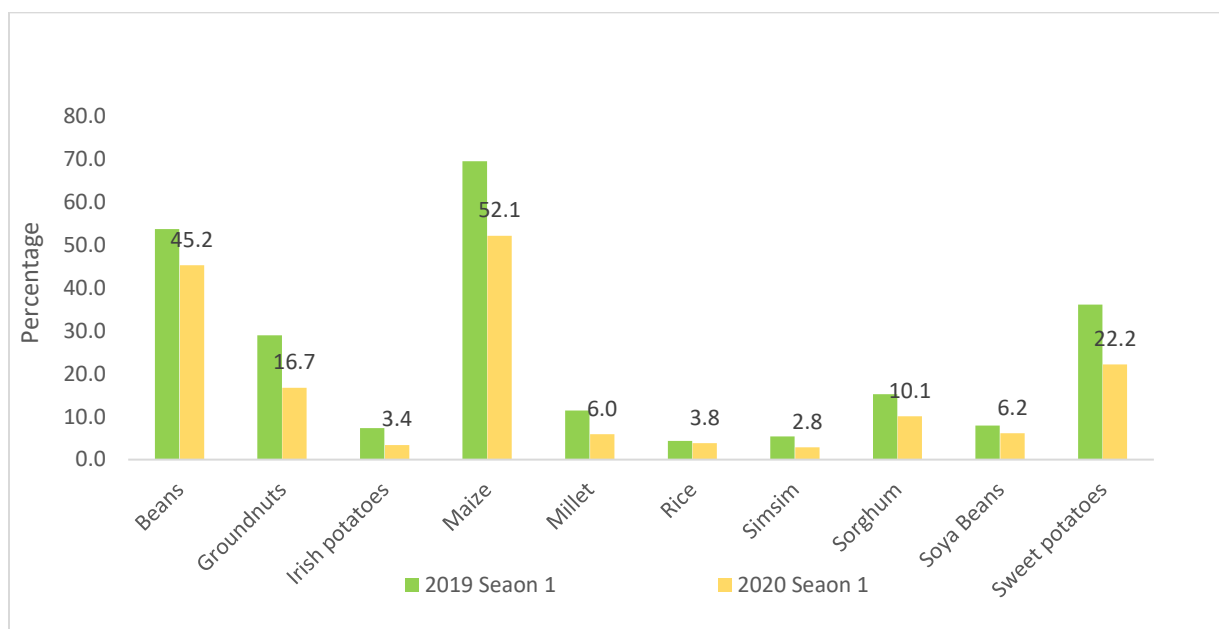


Figure 6:2. Percentage of Ag HHs growing selected temporary crops in the second seasons of 2019 and 2020

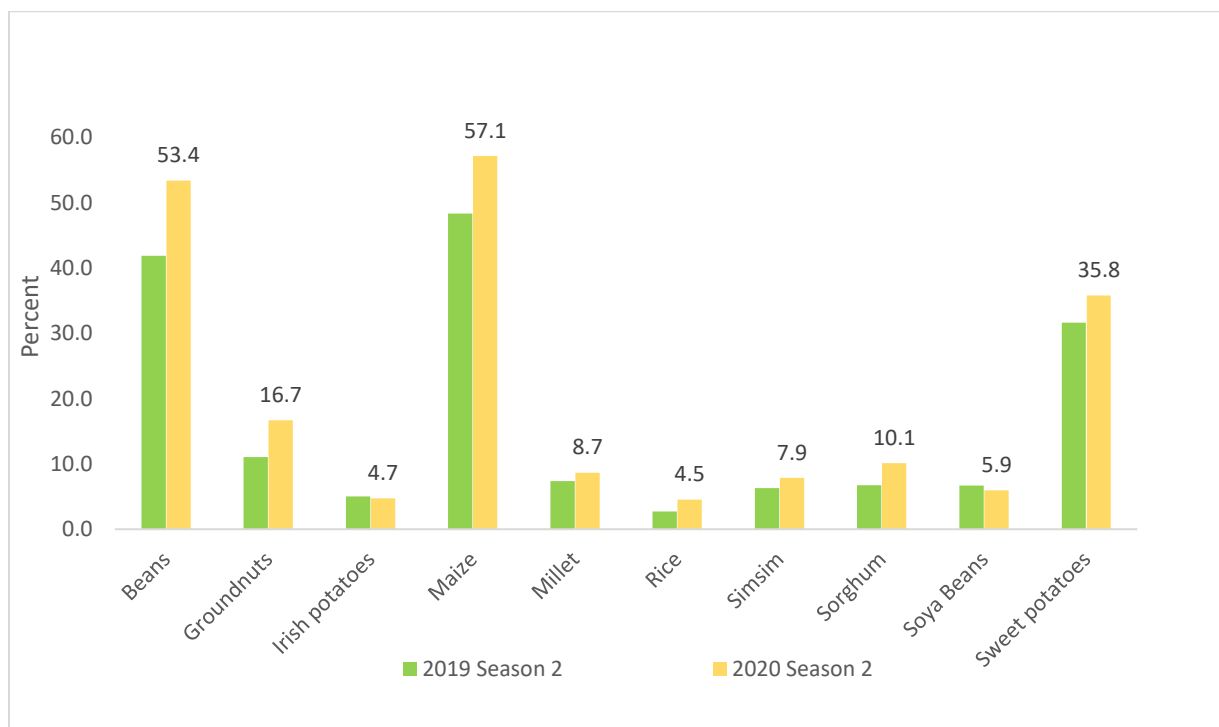




Figure 6:3. Percentage of Agricultural Households growing permanent crops in the first season of the years 2019 and 2020

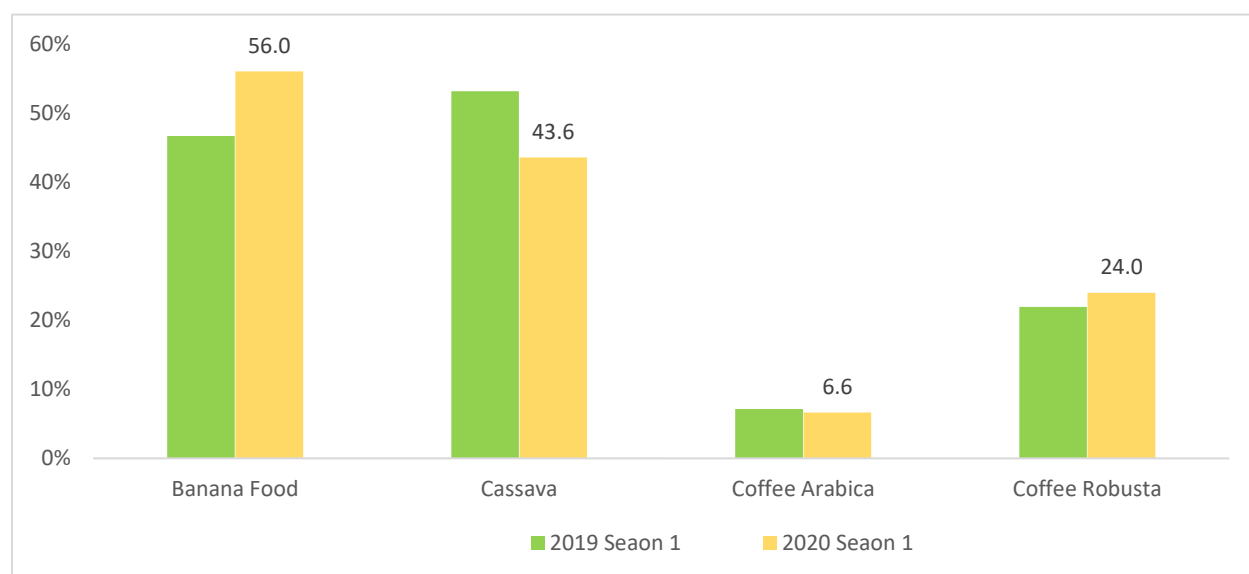
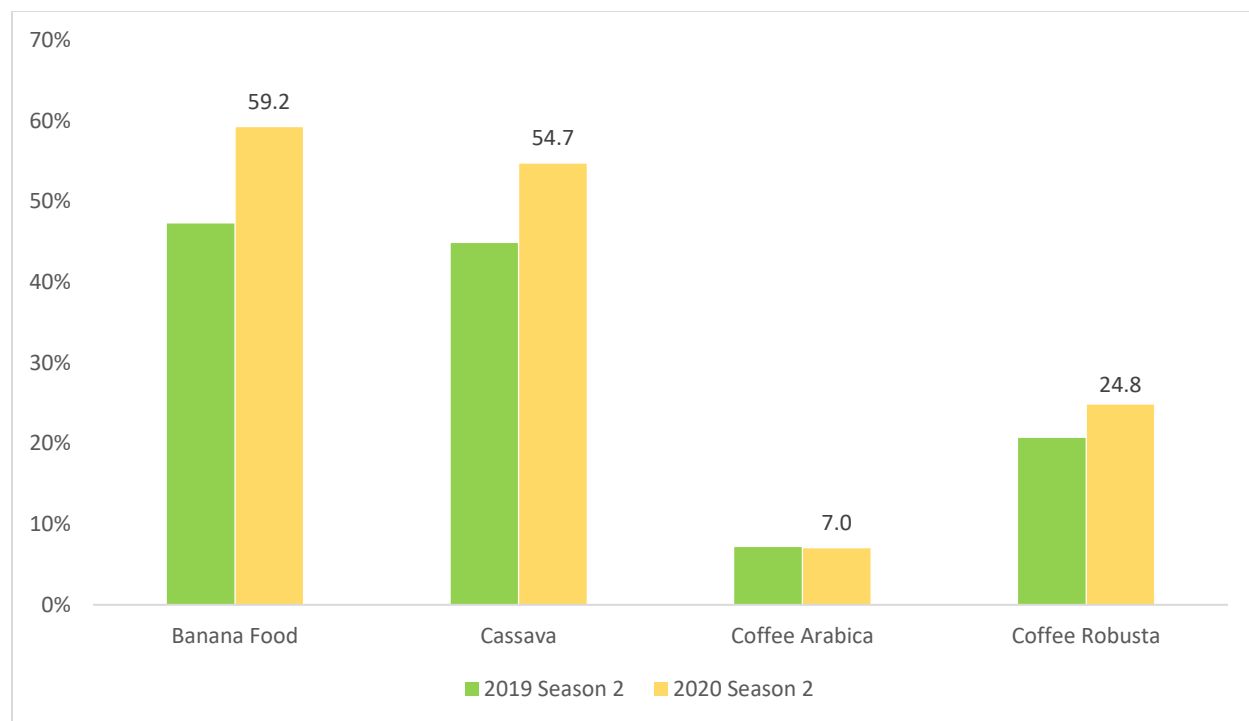


Figure 6:4. Percentage of Agricultural Households growing permanent crops in the second season of the years 2019 and 2020



## 6.2: Maize

Maize is one of the ten priority commodities identified in the National Development Plan III (NPA, 2020), because of its importance to food security and nutrition. Most small-scale farmers in Uganda grow maize either for their own consumption or to generate income. In recent years, maize and maize products have become increasingly important in the export market. Maize is also an industrial crop for the animal feed industry and has high potential for value addition to support the agro-processing industry.

The AAS 2020 results indicate 52 percent of Ag HHs cultivated maize during the first season and 57 percent in the second season. The total production of maize in Uganda in the agricultural year 2020 was estimated to be approximately 3.5 million metric tonnes (MT) from an estimated planted area of approximately 2.0 million hectares (ha). In the first season, a slightly higher production (approximately 1.9 million MT) was recorded compared to the second season (1.6 million MT). At national level, the annual yield was 22 MT/ha (see Annex 6, **Table 6-1**).

A look at the sub-regional level indicates North Buganda has the highest annual production at 849,000 MT, followed by Bunyoro (686,000 MT). The sub-regions with the lowest annual production are Karamoja (28,000 metric tonnes) and Kigezi (24,000 metric tonnes). Tooro and Ankole reported the highest annual yield of 3.6 metric tonnes per hectare and 3.5 MT/ha, respectively. Elgon followed with 2.7 MT/ha and the lowest yield was in Karamoja and Teso at 1.4 MT/ha. See Figure 6:5 and Annex 6, Table 6-1.

The ZARDI level indicates Mukono with the highest annual production at 1.14 million metric tonnes, followed by Bulindi (686,000 MT) and Buginyanya (604,000MT). The ZARDIs with the lowest annual production are Abi (60,000 MT) and Kachwekano (24,000 MT). Rwebitaba and Kachwekano reported the highest annual yield of 3.6 metric tonnes per hectare and 3.0 MT/ha, respectively. The lowest yield was in Abi and Serere at 1.5 MT/ha and 1.4 MT/ha, respectively. See Annex 6, Table 6-2.

The production trend shows a steady increase in maize production between the years 1999/2000 and 2018, a decrease in the year 2019 and then an increase between the years 2019 and 2020 of 750 MT, corresponding to 27.2 percent of the year 2019 production (Figure 6:7). The increase in production appears to be a result of increased planting and higher yield. Indeed, the area planted with maize increased in the year 2020 by eight percent compared to the previous year. The yield of the survey year 2020 was 2.2 MT/ha compared to 1.6 MT/ha in the year 2019 (see Annex 6, Table 6-1).

Finally, the data on use (disposition) of maize production reveals close to half of the maize produced was sold unprocessed (48 percent). This is lower than the year 2019 when 63 percent of the total maize harvest was sold unprocessed. Nonetheless, a great deal of maize was still in storage at the time of enumeration (31 percent). For details see Figure 6:8.

Figure 6:5. Maize area (ha), production (MT) and yield (MT/ha) by sub-region

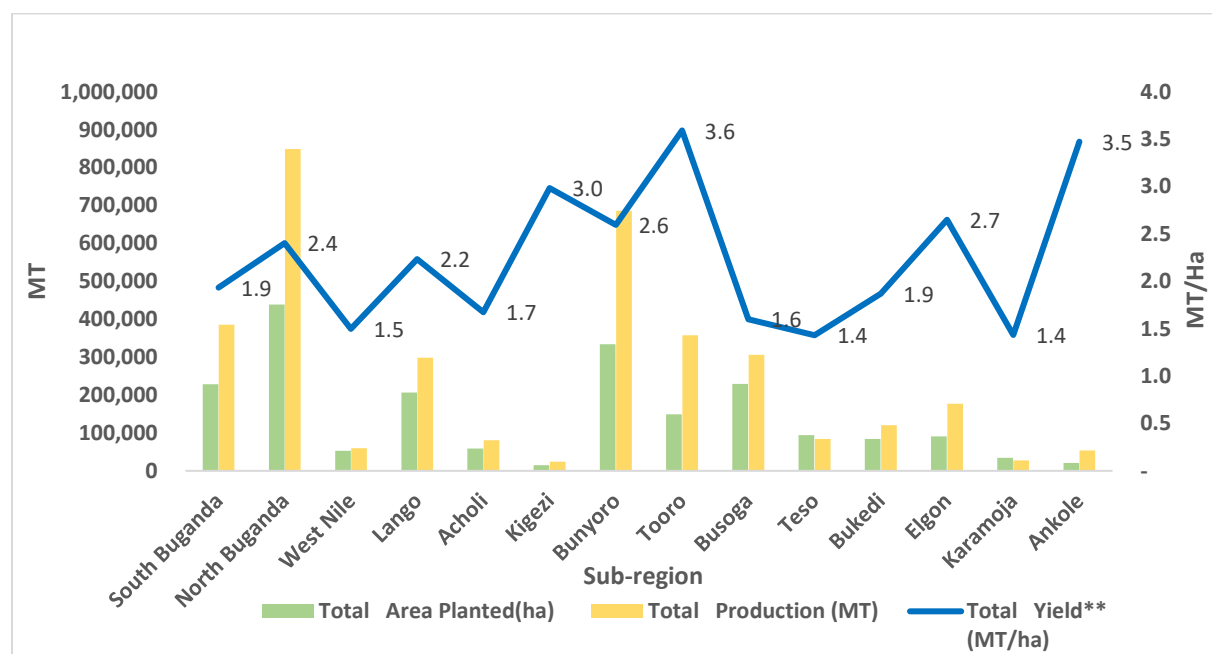


Figure 6:6. Maize area (Ha), production (MT) and yield (MT/ha) by ZARDI

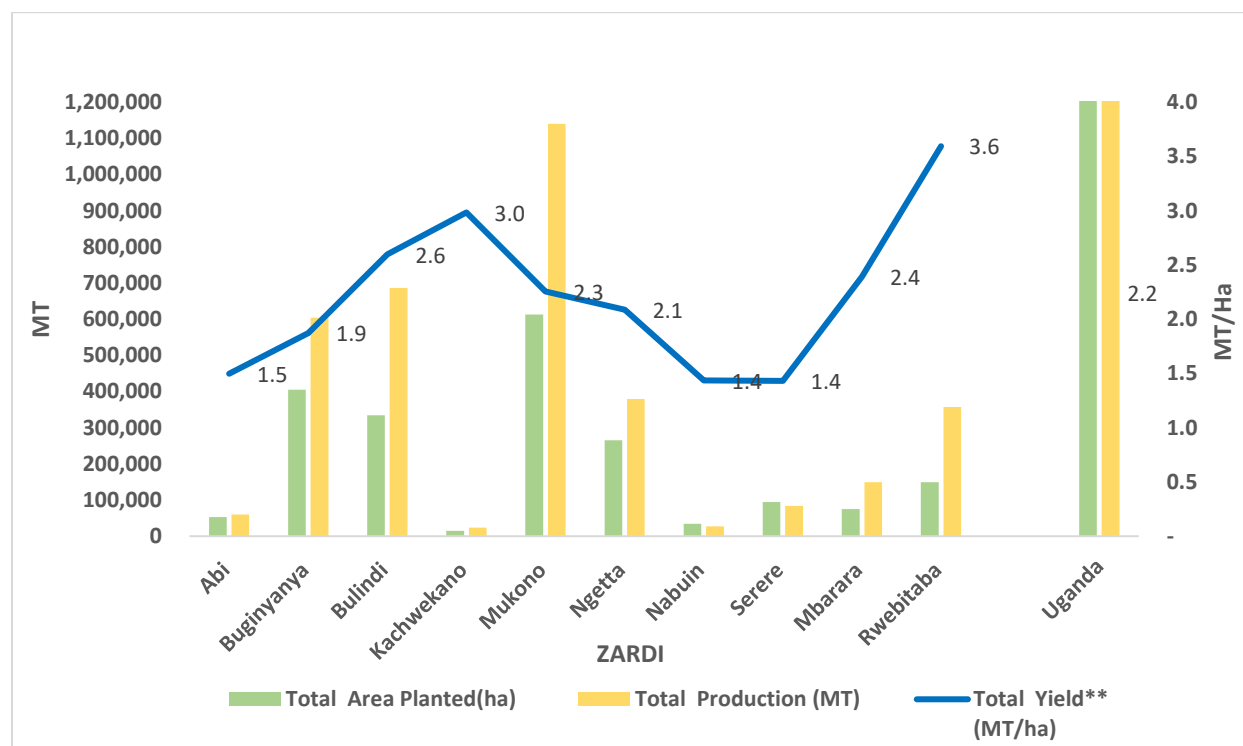


Figure 6:7. Maize production trend ('000 Metric Tonnes) for the years 1999/2000-2020

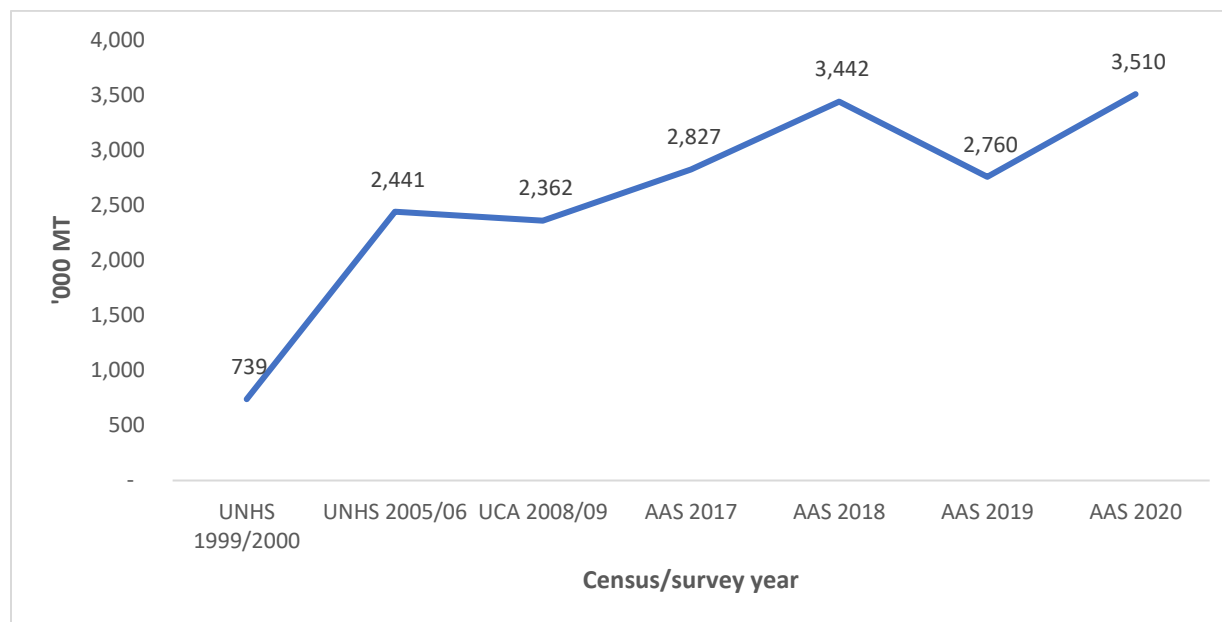
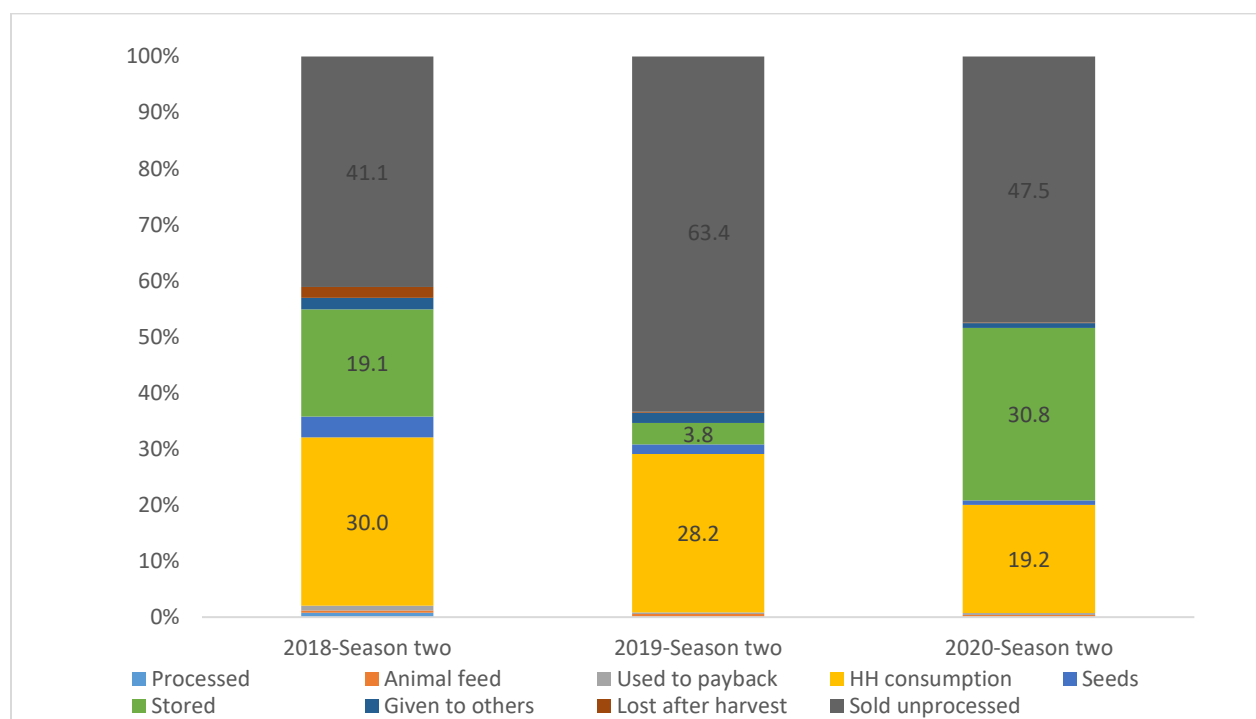


Figure 6:8. Distribution of maize production (2nd season) in the years 2018, 2019 and 2020 by use



### 6.3: Millet

The Annual Agricultural year 2020 results indicate six percent of Agricultural Households cultivated millet during the first season and nine percent in the second season. The total millet production in the agricultural year 2020 was estimated to be approximately 66,000 metric tonnes (MT) from an estimated plant area of approximately 200,000 hectares (ha). First and second seasons registered a similar amount of production, for instance 33,000 metric tonnes. At national level, the yield was 0.3 MT/ha in the first season and 0.7 MT/ha in the second season (**Annex 6, Tables 6- 3 and 6-4**).

The data collected at sub-regional level indicates Ankole had the highest annual millet production at 16,000 MT, followed by Acholi (12,000 MT). The sub-regions with the lowest annual production are West Nile (1,100 MT) and Bunyoro (580 MT). Tooro (1.0 MT/ha) and Kigezi (0.9 MT/ha) reported the highest annual yield, followed by Ankole (0.7 MT). The lowest annual yield was in Acholi, Lango and Teso (each with 0.3 MT/ha). See Figure 6:9 and **Annex 6, Table 6- 3**.

The ZARDI level indicates Ngetta with the highest annual production at 19,000 MT, followed by Mbarara (16,000 MT). The ZARDIs with the lowest annual production are Mukono (1,100 MT) and Bulindi (580 MT). Rwebitaba and Kachwekano reported the highest annual yields of 1.0 metric tonnes per hectare and 0.9 MT/ha, respectively. The lowest yields were in Serere and Ngetta at 0.3 MT/ha each (Annex 6, Table 6-4).

The production trend shows a steady decrease in millet production since the years 2008/2009. Millet production reduced from 73,000 MT in the year 2019 to 66,000 MT in the year 2020, corresponding to about ten percent of the year 2019 production (see Figure 6:11). The decrease in production appears to be a result of reduced planting since the annual national yield remained stable. In fact, the area planted with millet decreased by 13 percent in the year 2020 compared to the previous year. The annual national yield of survey year 2020 remained at 0.4 MT/ha (see Annex 6, Table 6-3).

Finally, the data on the use (disposition) of millet production reveals that at the time of enumeration, much crop of the second season was still stored (49 percent) while some had been used for own consumption (29 percent) or sold unprocessed (15 percent). See Figure 6:12.

Figure 6:9. Millet area (ha), production (MT) and yield (MT/ha), by sub-region

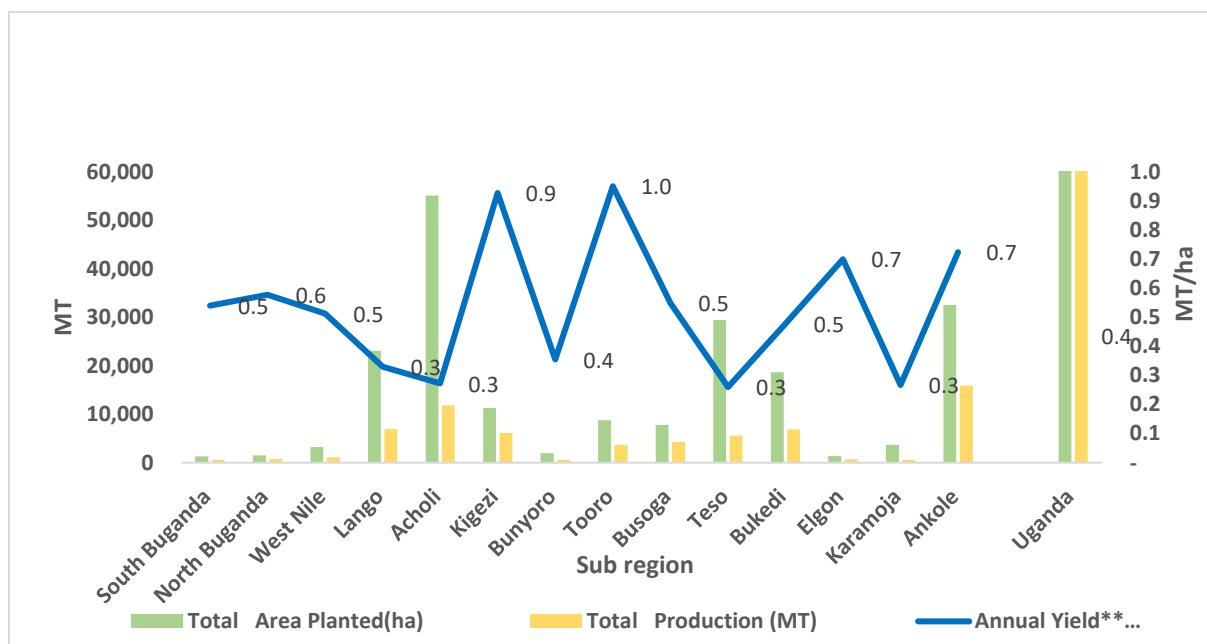


Figure 6:10. Millet area (ha), production (MT) and yield (MT/ha) by ZARDI

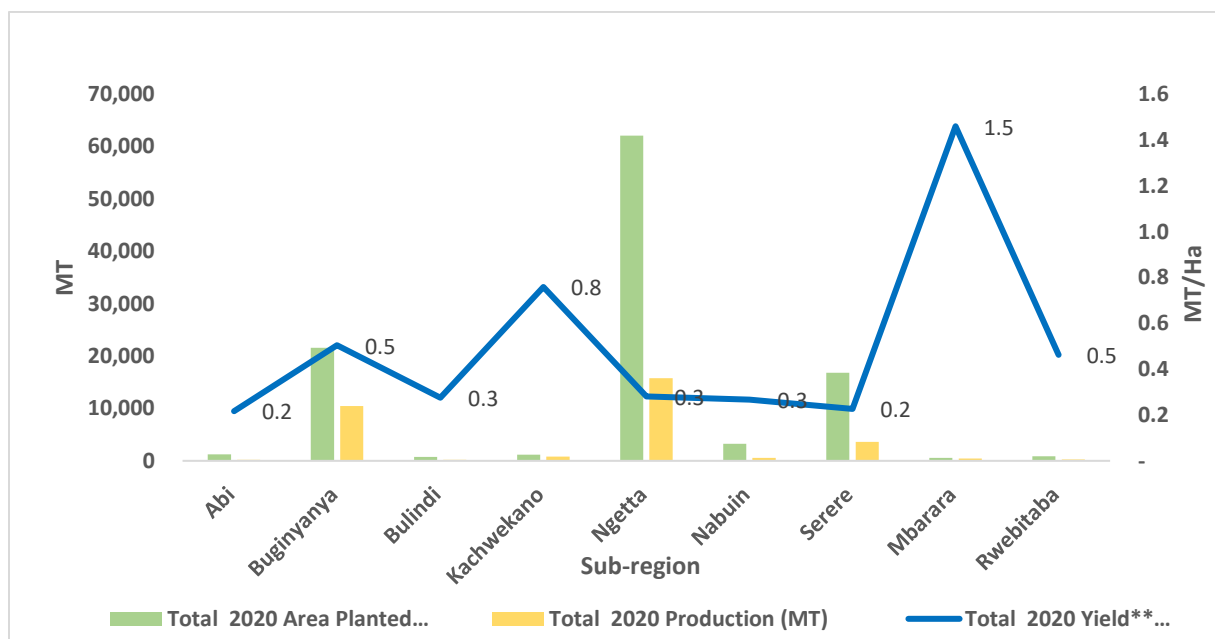


Figure 6:11. Millet production trend ('000 Metric Tonnes) in the years 1999/2000-2020

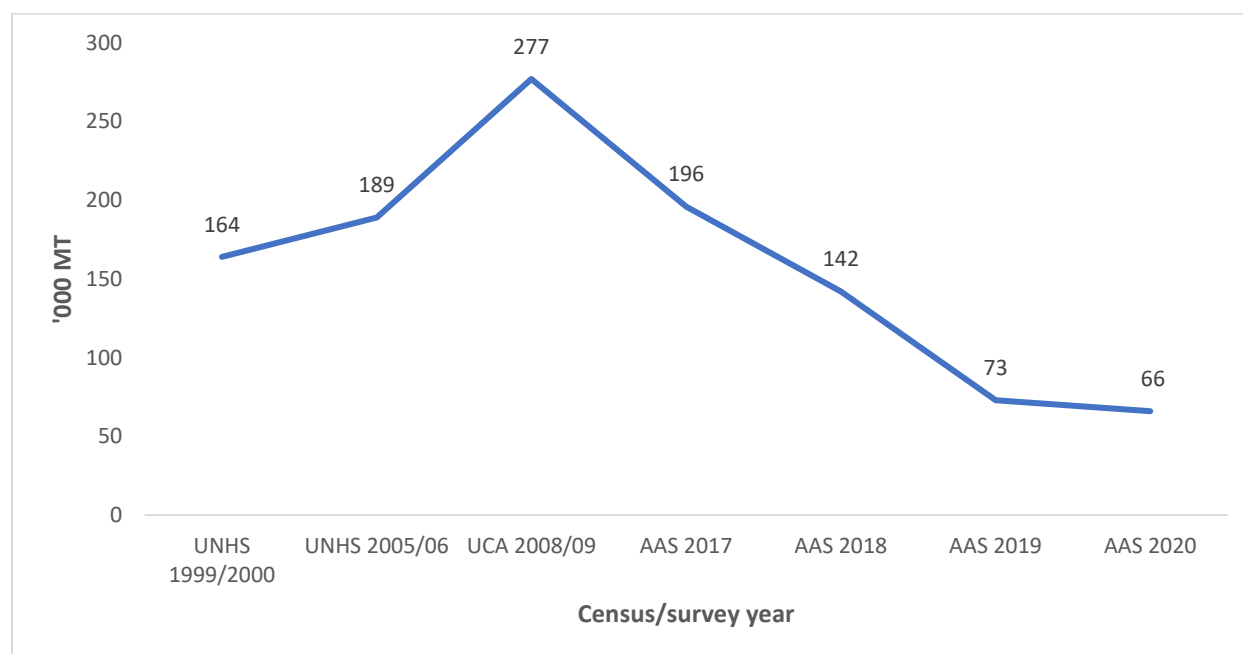
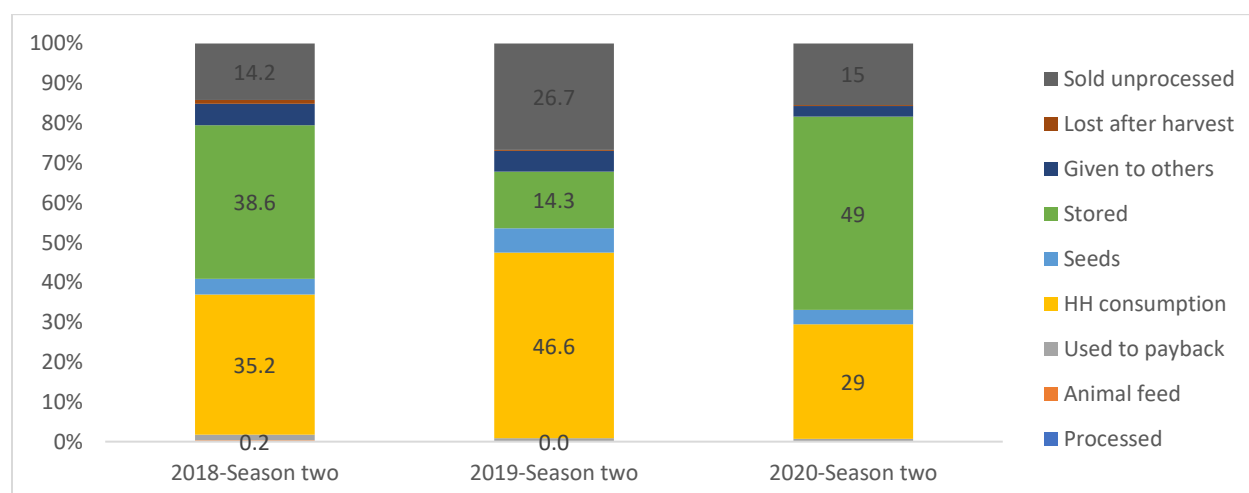


Figure 6:12. Distribution of millet production (2nd season) in the years 2018, 2019 and 2020 by use



## 6.4: Sorghum

Sorghum is a staple food that has increasingly become a source of income and a non-traditional export crop similar to maize. It is also used as a raw material in the brewing industry.

The Annual Agricultural Survey for the year 2020 results indicate ten percent of Agricultural Households cultivated sorghum during the first and second seasons. The total sorghum production in the 2020 agricultural year was estimated to be approximately 160,000 metric tonnes (MT) from an estimated plant area of approximately 374,000 hectares (ha). In the first season, a slightly lower production (approximately 55,000 MT) was recorded compared to the second season (105,000 MT). At national level, the yield was 0.7 metric tonnes per hectare in the first season and 1.1 MT/ha in the second season. See Annex 6, Table 6-5.

A look at the sub-regional level indicates Acholi had the highest annual production at 59,000 MT, followed by Teso (31,000 MT) and Kigezi (18,000 MT). The sub-regions with the lowest annual production were Ankole (5,900 MT) and Bukedi (4,000 MT). Lango (1.2 MT/ha) and West Nile (1.1 MT/ha) reported the highest annual yield, followed by Acholi (1.0 MT/ha); the lowest annual yield was 0.6 MT/ha, reported by Busoga, Teso, Bukedi and Karamoja. (Figure 6:13 and Annex 6, **Table 6-5**).

The ZARDI level indicates that Ngetta has the highest annual production, at 66,000 MT, followed by Serere (31,000 MT). The ZARDIs with the lowest annual production are Mbarara (6,500 MT) and Buginyanya (5,900 MT). Mukono (2.1MT/ha) and Ngetta, Mbarara, and Abi reported the highest annual yields of 1.1 MT/ha each; the lowest yields were in Buginyanya (0.7MT/ha) and Nabuin (0.6 MT/ha) (see Annex 6, Table 6- 5a).

The production trend shows fluctuations but with an overall decrease in sorghum production since the years 2008/2009. Sorghum production increased from 97,000 MT in the years 2019 to 160,000 MT in the year 2020, corresponding to about 65 percent increase (Figure 6:15). The increase in production appears to be a result of increased planting and yield. Actually, the area planted with sorghum increased by 15 percent in the year 2020 compared to that in the previous year. The annual national yield of the survey 2020 was 0.9 MT/ha compared to 0.6 MT/ha in the year 2019 (Annex 6, Table 6- 5).

Finally, the data on the use (disposition) of sorghum production reveals that, at the time of enumeration, much crop of the second season was still stored (59 percent) while some had been used for own consumption (26 percent) or sold unprocessed (12 percent). See Figure 6:16.



Figure 6:13. Sorghum area (ha), production (MT) and yield (MT/ha) by sub-region

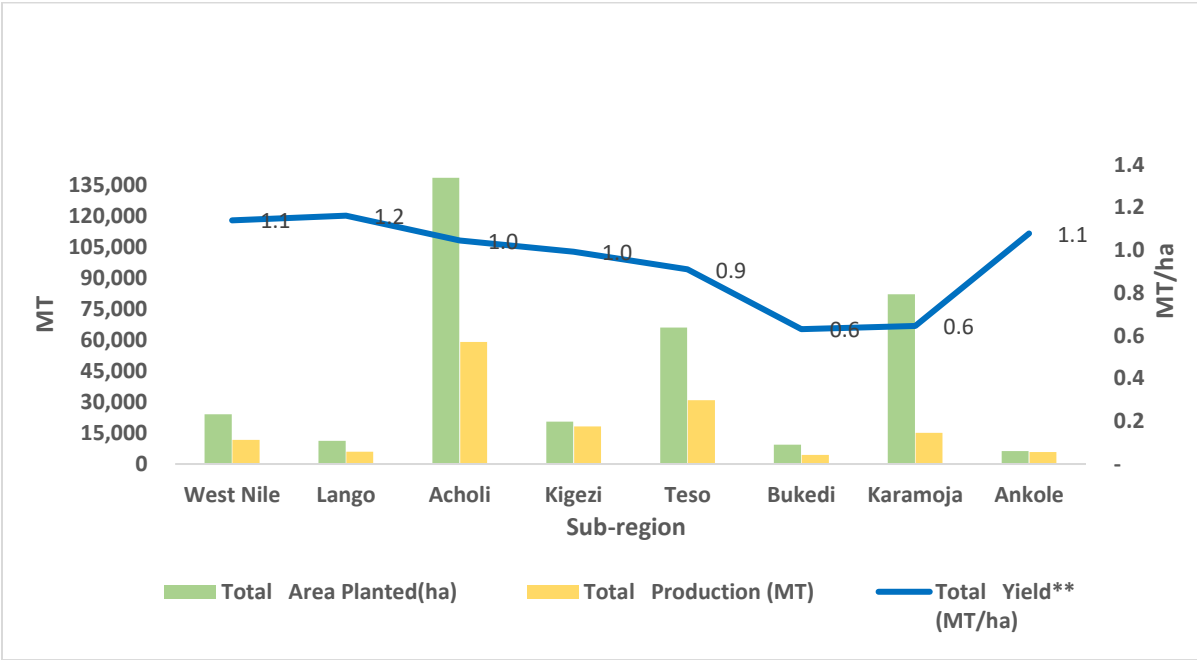


Figure 6:14. Sorghum area (ha), production (MT) and yield (MT/ha) by ZARDI

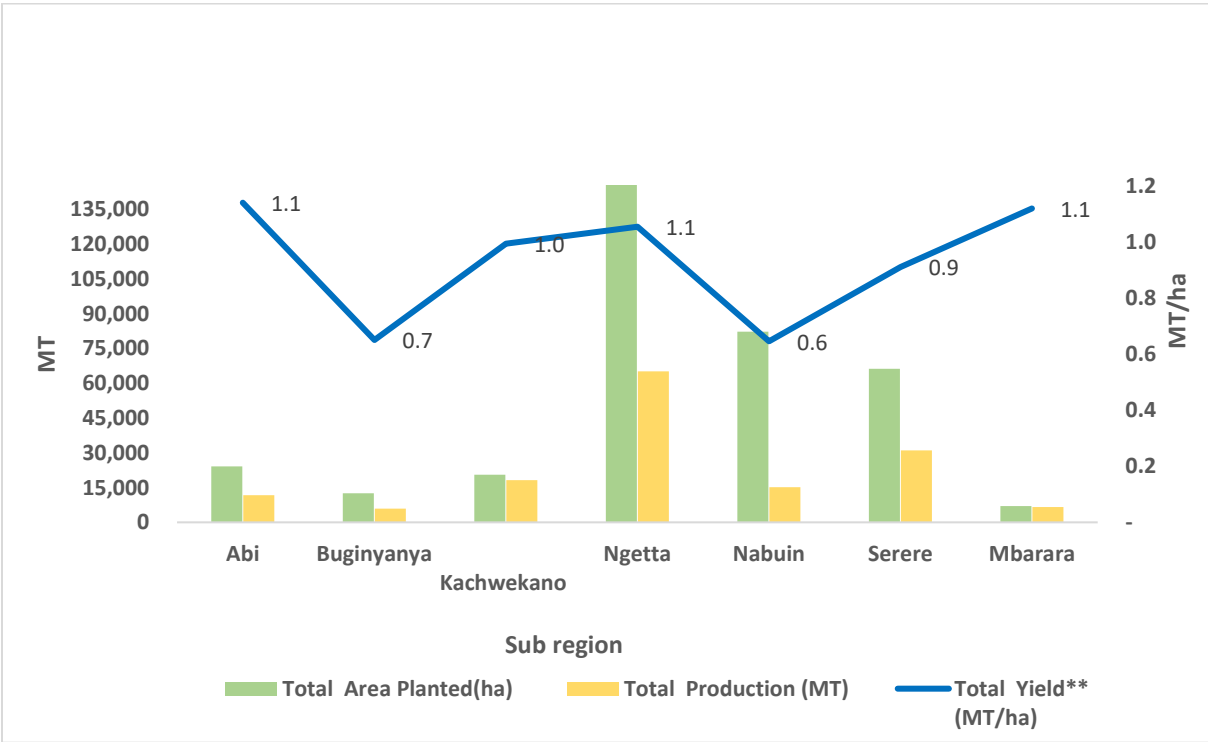


Figure 6:15. Sorghum production trend ('000 MT) in the years 1999/2000-2020

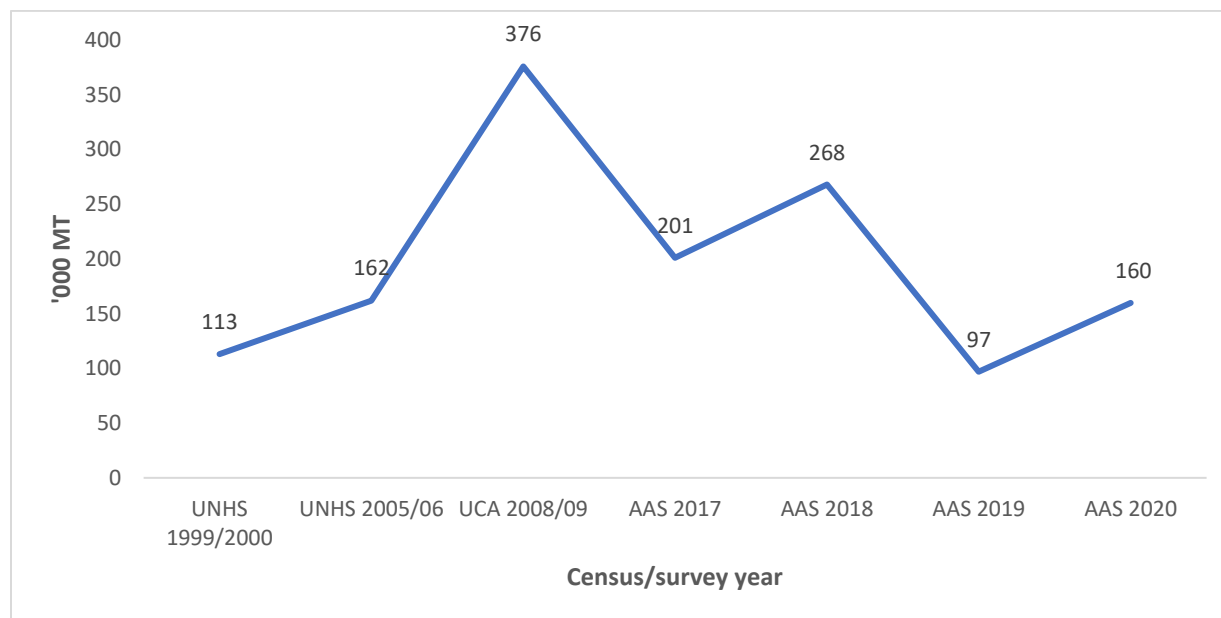
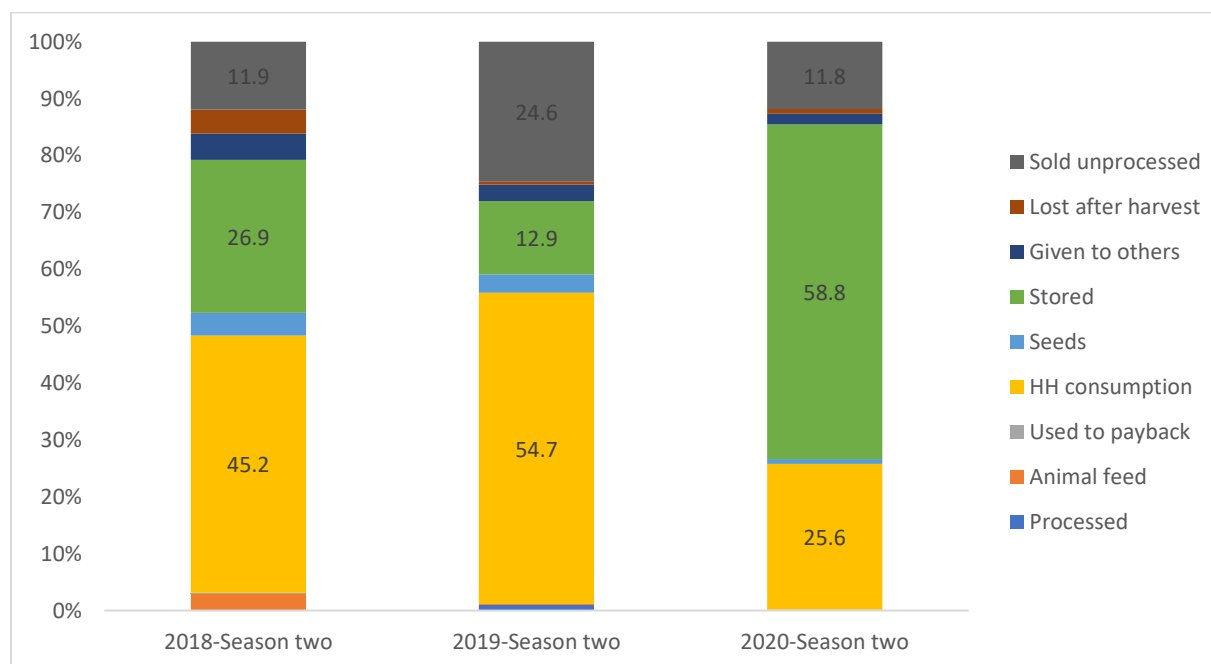


Figure 6:16. Distribution of sorghum production (2nd season) in in the years 2018, 2019 and 2020



## 6.5: Rice

Until recently, rice consumed in Uganda was mainly imported. However, nowadays farmers grow rice for both consumption and income. Two types of rice are grown in the country, paddy rice and upland rice. Paddy rice, which is more common than upland rice, requires wetlands to grow properly.

The Annual Agricultural Survey for the year 2020 results indicate four percent Agricultural Households cultivated rice during the first season and five percent in the second season. The total rice production in the agricultural year 2020 was estimated to be approximately 275,000 metric tonnes (MT) from an estimated plant area of approximately 221,000 hectares (ha). In the first season, a slightly higher production (approximately 156,000 MT) was recorded compared to the second season (119,000 MT). At national level, the yield was 1.5 MT/ha in the first and second seasons (Annex 6, Table 6-7).

The data collected at the sub-regional level indicates Busoga had the highest annual production at 59,000 MT, followed by Bukedi (52,000 MT). The sub-region with the lowest annual production was West Nile (8,400 MT). Busoga (1.7 MT/ha), followed by Bunyoro (1.6 MT/ha), reported the highest annual yields. The lowest annual yields were in Lango (1.3 MT/ha) and Teso (1.2 MT/ha). See Figure 6:17 and Annex 6, Table 6-7).

The ZARDI level data indicates Buginyanya with the highest annual production at 137,000 MT, followed by Serere (15,000 MT). The ZARDIs with the lowest annual production are Bulindi (13,500 MT) and Abi (8,400 MT). Bulindi and Buginyanya reported the highest annual yields of 1.6 MT/ha each. The lowest yield was in Mukono (0.9MT/ha). See Annex 6, Table 6-8.

The production trend shows a stable level of rice production since the year 2005. Rice production increased from 167,000 metric tonnes in the year 2019 to 275,000 MT in the year 2020, corresponding to about 65 percent of the year 2019 production (Figure 6:19). The increase in production appears to be a result of increased planting and an increase in the annual national yield. Indeed, the area planted with rice increased by 24 percent in the year 2020 compared to the previous year, and the annual national yield of the year 2020 was 1.5 MT/ha compared to 1.3 MT/ha in the year 2019 (Annex 6, Table 6-7).

Finally, the data on use (disposition) of rice production reveals that, at the time of enumeration, much crop of the second season was sold unprocessed (65 percent) while some had been stored (16 percent), and nine percent had been used for own consumption (Figure 6:20).

Figure 6:17. Rice area (ha), production (MT) and yield (MT/ha) by sub-region

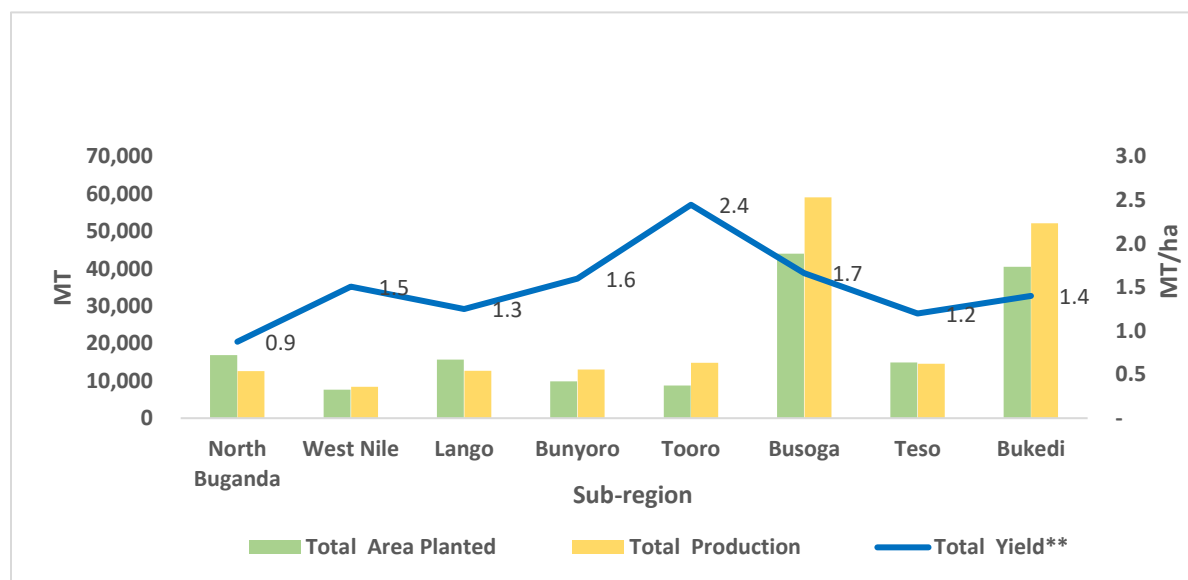


Figure 6:18. Rice area (ha), production (MT) and yield (MT/ha) by Zonal Agricultural Research and Development Institutes (ZARDIs)

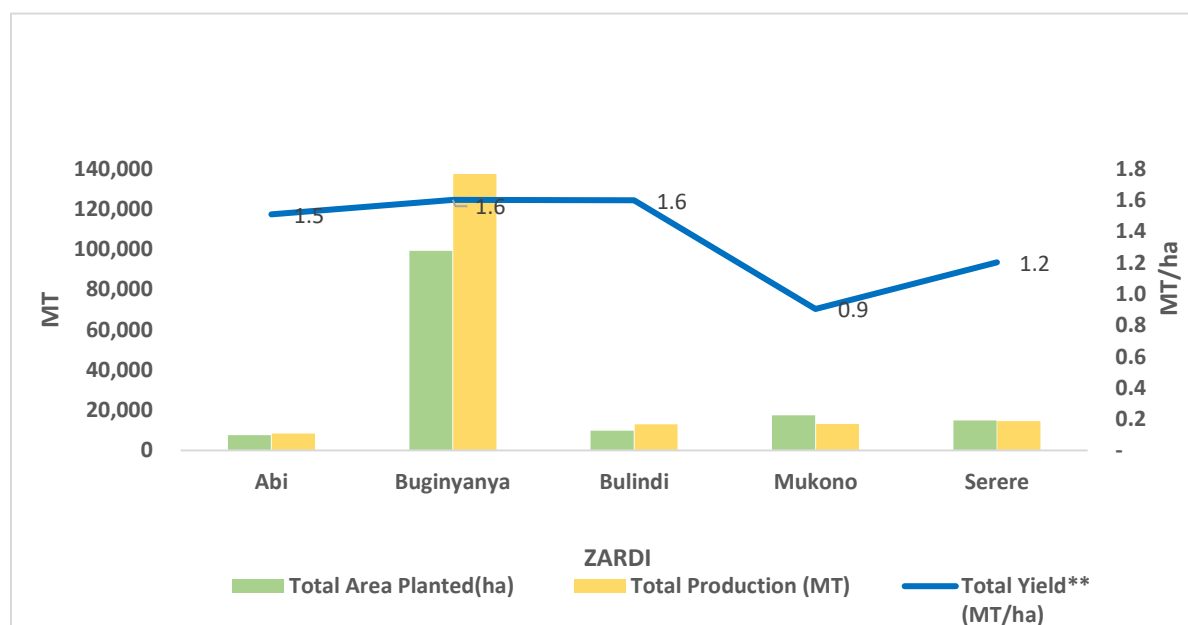


Figure 6:19. Rice production trend ('000 MT) in the years 2005/2006-2020

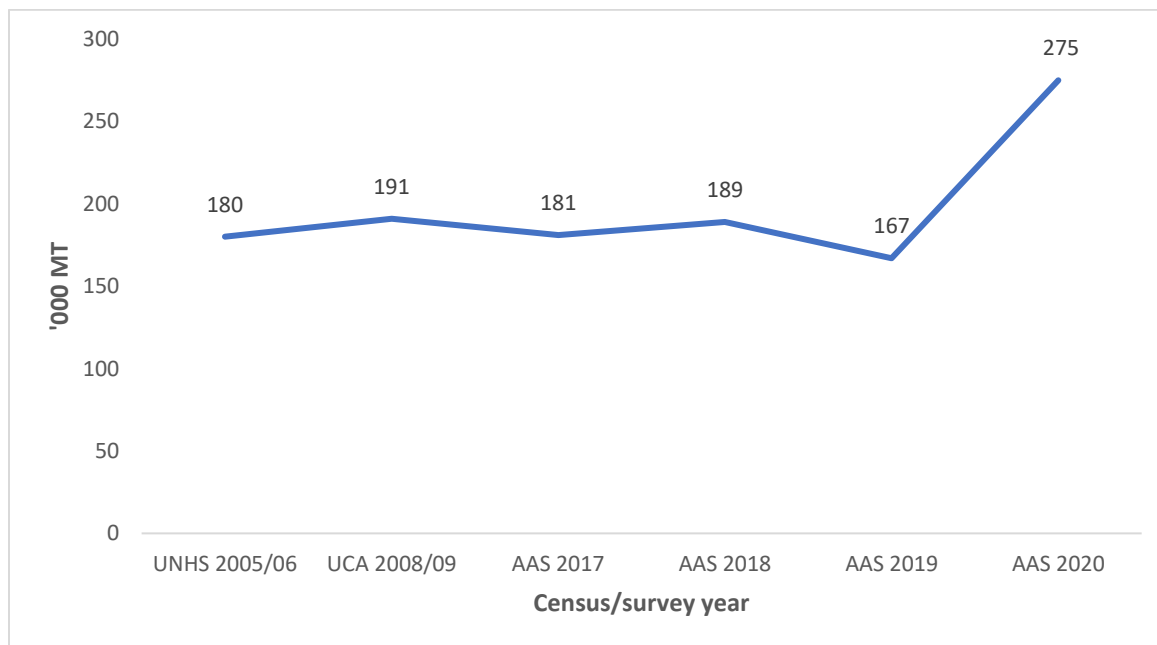
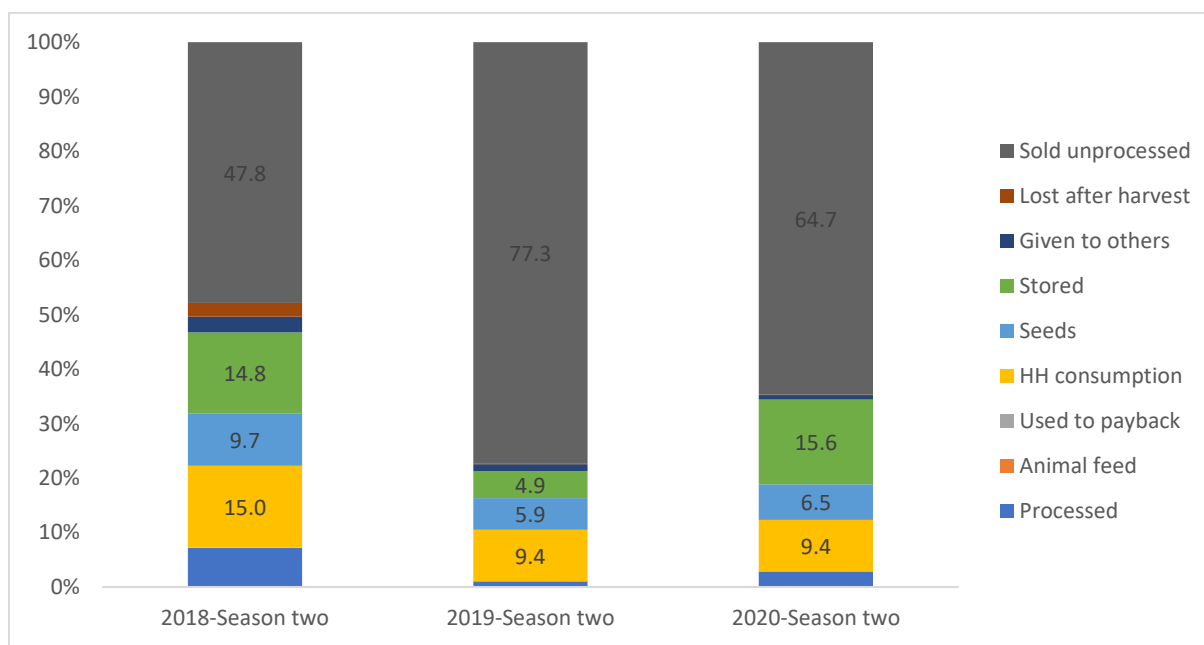


Figure 6:20. Distribution of rice production (2nd season) in the years 2018, 2019 and 2020



## 6.6: Beans

Beans are a major source of protein for most households in Uganda and are widely grown throughout the country. The year 2020 data shows 39 percent of Agricultural Households cultivated beans during the first season and 46 percent in the second season.

The Annual Agricultural Survey for the year 2020 results indicate 45 percent of Ag HHs cultivated beans during the first season and 53 percent in the second season. The total beans production in the agricultural year 2020 was estimated to be approximately 670,000 metric tonnes (MT) from an estimated plant area of approximately 1.1 million hectares (ha). In the first season, a slightly lower production (approximately 320,000 MT) was recorded compared to the second season (350,000 MT). At national level, the yield was 0.6 MT/ha in the first season and 1.1 MT/ha in the second season (**Annex 6, Table 6-9**).

A look at the sub-regional level indicates North Buganda had the highest annual production at 120,000 MT, followed by Bunyoro (111,000 MT). The sub-regions with the lowest annual production were Teso (7,100 MT) and Bukedi (6,100 MT). Bunyoro and Ankole reported the highest annual yield (1.0 MT/ha). The lowest annual yields were in Bukedi (0.6 MT/ha) and Teso (0.5 MT/ha). See Figure 6:21 and **Annex 6, Table 6-9**.

The data at the ZARDI level indicates Mukono had the highest annual production at 169,000 MT, followed by Mbarara (112,000 MT) and Bulindi (111,000 MT). The ZARDIs with the lowest annual production were Abi (12,100 MT) and Serere (7,100 MT). Bulindi (1.0 MT/ha), Mbarara and Kachwekano reported the highest annual yields (0.9 MT/ha). The lowest annual yields were in Ngetta (0.6 MT/ha) and Serere (0.5 MT/ha). See **Annex 6, Table 6-10**.

The production trend shows a decrease in beans production since the years 2008/2009, followed by an increase in the year 2020. Beans production increased by 53 percent to 670,000 MT in the year 2020 from 438,000 MT in the year 2019 (Figure 6:23). The increase in production appears to be a result of increased planting and a slight increase in the national yield. In fact, the area planted with beans increased by 31 percent in the year 2020 compared to the previous year, and the annual national yield of the year 2020 was 0.8 metric tonnes per hectare compared to 0.6 MT/ha in the year 2019. (**Annex 6, Table 6- 9**).

Finally, the data on the use (disposition) of beans production reveals most beans were sold unprocessed (41 percent). This is slightly lower than the year 2019 in which the second season proportion of beans harvest was sold unprocessed. Nonetheless, a large amount of beans were still in storage at the time of enumeration (31 percent). Furthermore, 27 percent had been consumed by the producing households and 19 percent of the second season production of the survey 2020 was set aside as seed for the following season (Figure 6:24).

Figure 6:21. Beans area (ha), production (MT) and yield (MT/ha) by sub-region

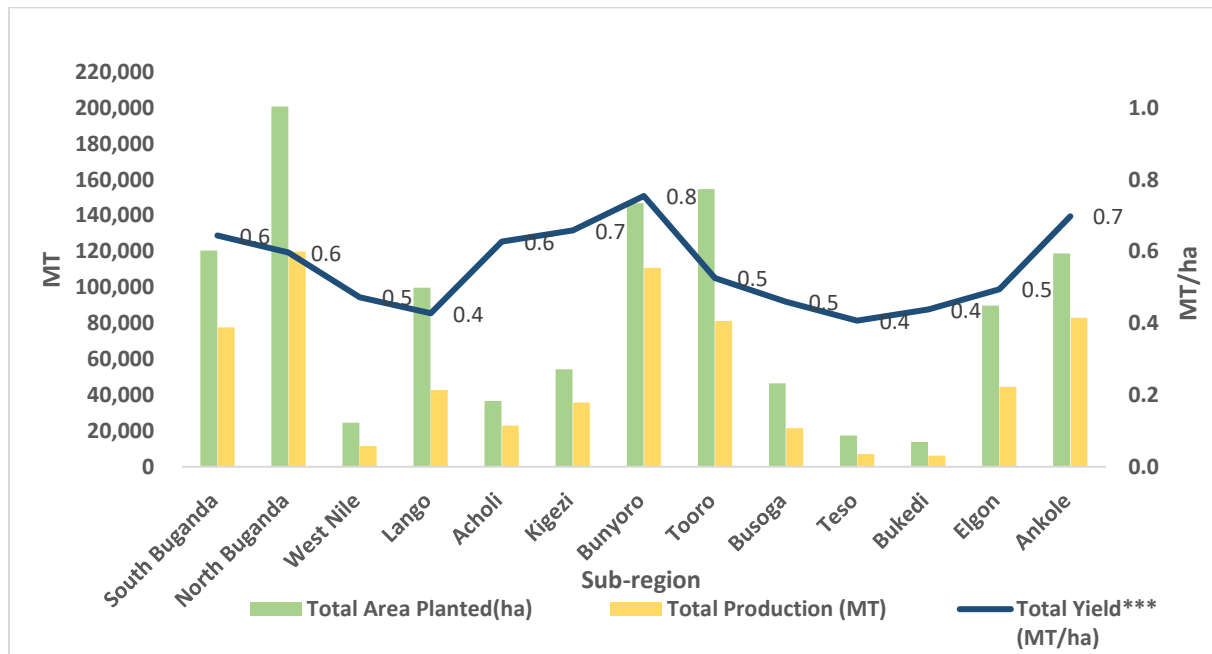


Figure 6:22. Beans area (ha), production (MT) and yield (MT/ha) by ZARDI

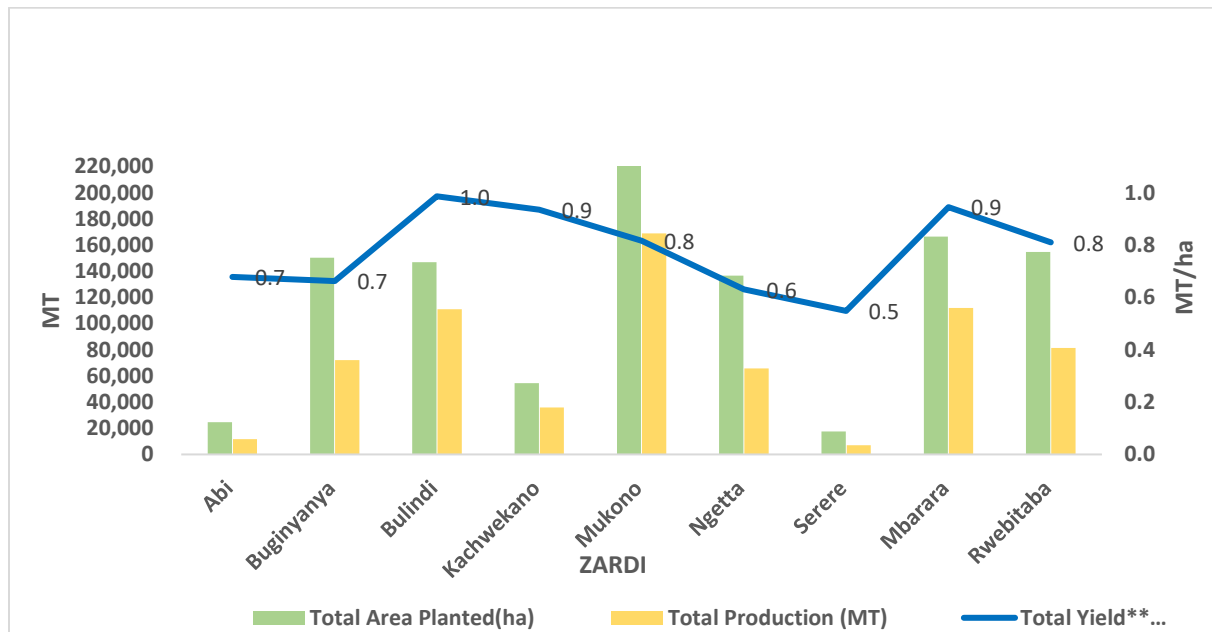


Figure 6:23. Beans production ('000 MT) in the years 1999/2000-2020

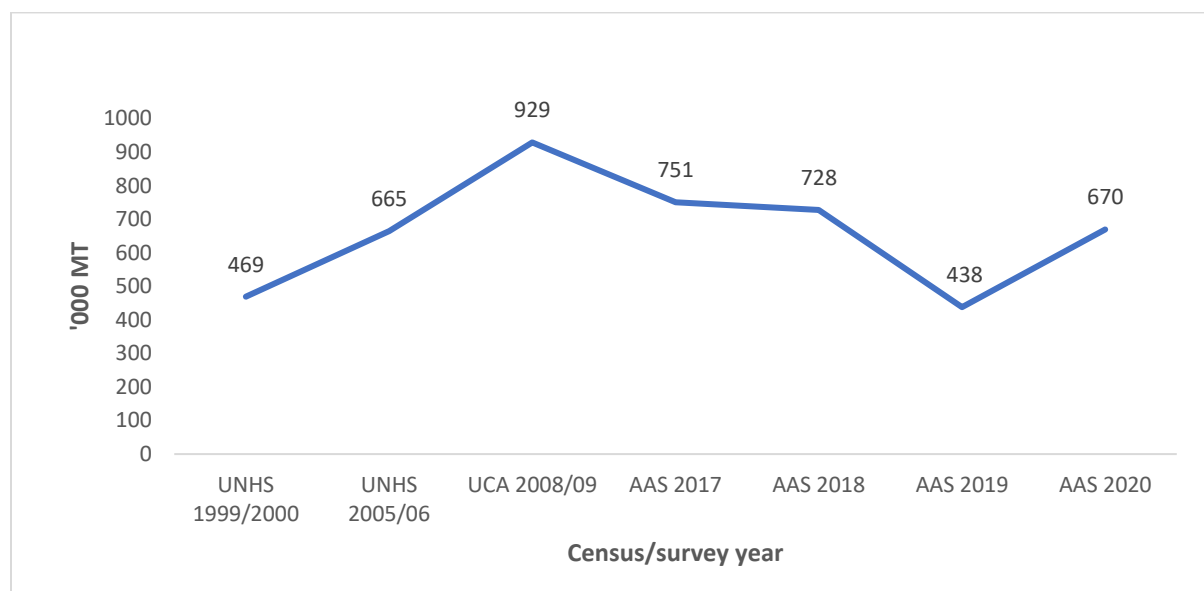
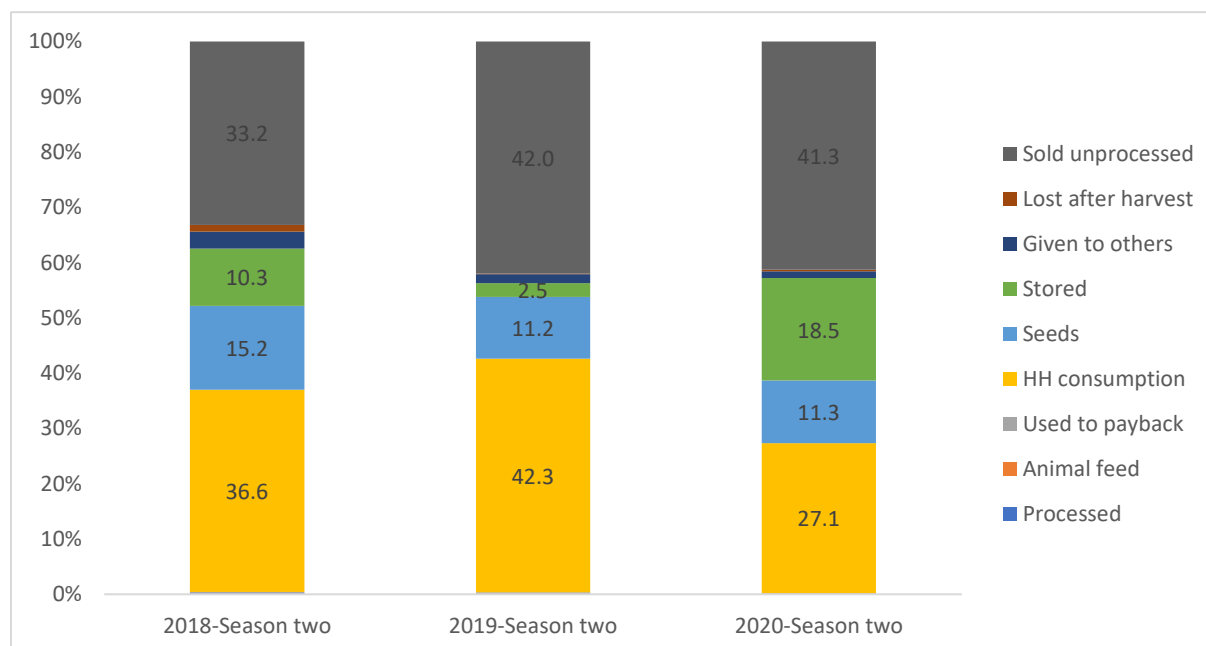


Figure 6:24. Distribution of beans production (2nd season) in the years 2018, 2019, and 2020 by use





## 6.7: Soya beans

Soya beans are a major source of protein and used in the production of oil. They are very useful as a cover crop to increase soil fertility. Information collected during the Annual Agricultural Survey for the year 2020 indicates six percent Agricultural Households cultivated soya beans during the first and second season.

The total production of soya beans in the agricultural year 2020 was estimated to be approximately 138,000 metric tonnes (MT) from an estimated plant area of approximately 225,000 hectares (ha). In the first season, a higher production (approximately 100,000 MT) was recorded compared to the second season (37,000 MT). At national level, the yield was 0.8 MT/ha (Annex 6, Table 6-11).

The sub-regional level data indicates Lango had the highest annual production at 89,000 MT, followed by Acholi at 22,000 MT. The sub-regions with the lowest annual production were Bunyoro (1,900 MT) and North Buganda (980 MT). Acholi (1.1 MT/ha) and Lango (0.8 MT/ha) reported the highest annual yields while North Buganda, Busoga, and Teso (all at 0.5 MT/ha) had the lowest annual yields (Figure 6:25 and **Annex 6, Table 6-11**).

The Zonal Agricultural Research and Development Institutes (ZARDIs) level data indicates Ngetta had the highest annual production at 111,000 MT, followed by Buginyanya at 16,000 MT. The ZARDIs with the lowest annual production were Abi (1,100 MT) and Mukono (980 MT). Ngetta (0.8 MT/ha), and Abi and Bulindi (0.7 MT/ha each) reported the highest annual yields while Buginyanya and Serere (both at 0.5 MT/ha) had the lowest (**Annex 6, Table 6-12**). The production trend shows a steady increase in the production of soya beans from the years 2005/2006 to 2008/2009, followed by a more than a threefold increase from the years 2008/2009 to 2017, with a steady increase until the survey year 2020. The increase in production appears to be a result of slight increases in both yield and area planted. The yield increased from 0.6 metric tonnes per hectare in the year 2019 to 0.8 MT/ha in the year 2020 while areas planted increased from 216,000 ha in the year 2019 to 225,000 ha in the year 2020 (corresponding to four percent). See Figure 6:27.

The data on the use (disposition) of soya beans, reveals most soya beans were sold unprocessed (78 percent). This was about the same proportion of soya beans harvested in the second season of the year 2019. Nonetheless, some soya beans (about 6.4 percent) were still in storage at the time of enumeration while 6.4 percent had been consumed by the producing households and another seven percent of the second season production of the survey year 2020 had been set aside as seed for the following season (Figure 6:28)

Figure 6:25. Soya beans area (ha), production (MT) and yield (MT/ha) by sub-region

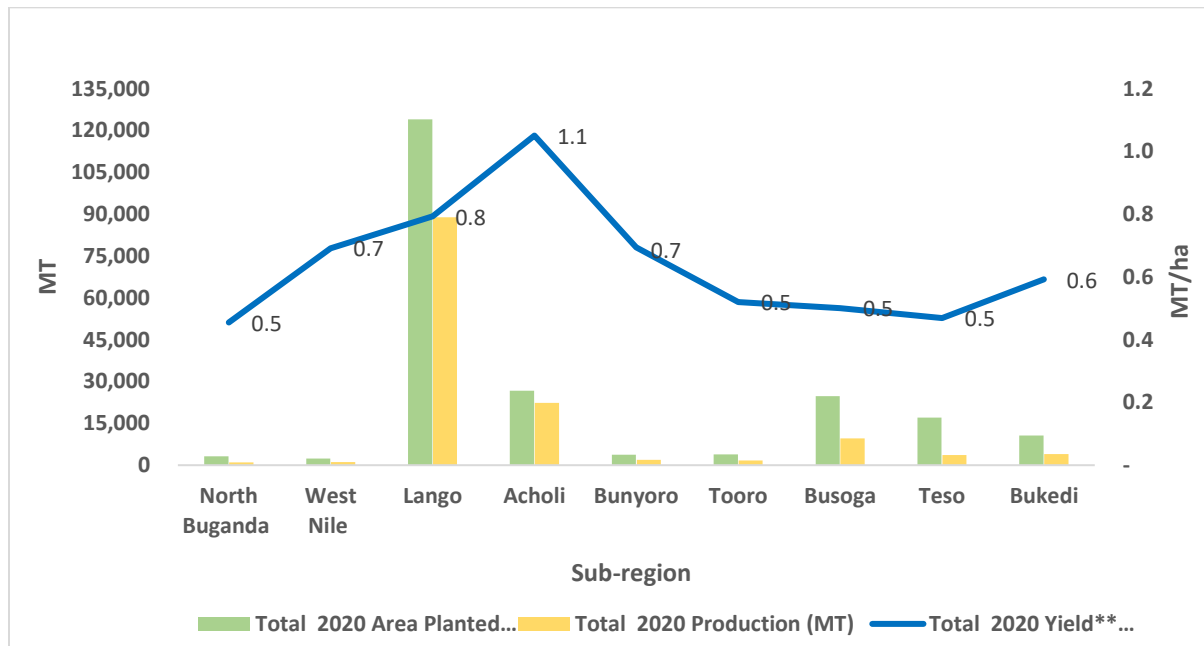


Figure 6:26. Soya beans area (ha), production (MT) and yield (MT/ha) by ZARDI

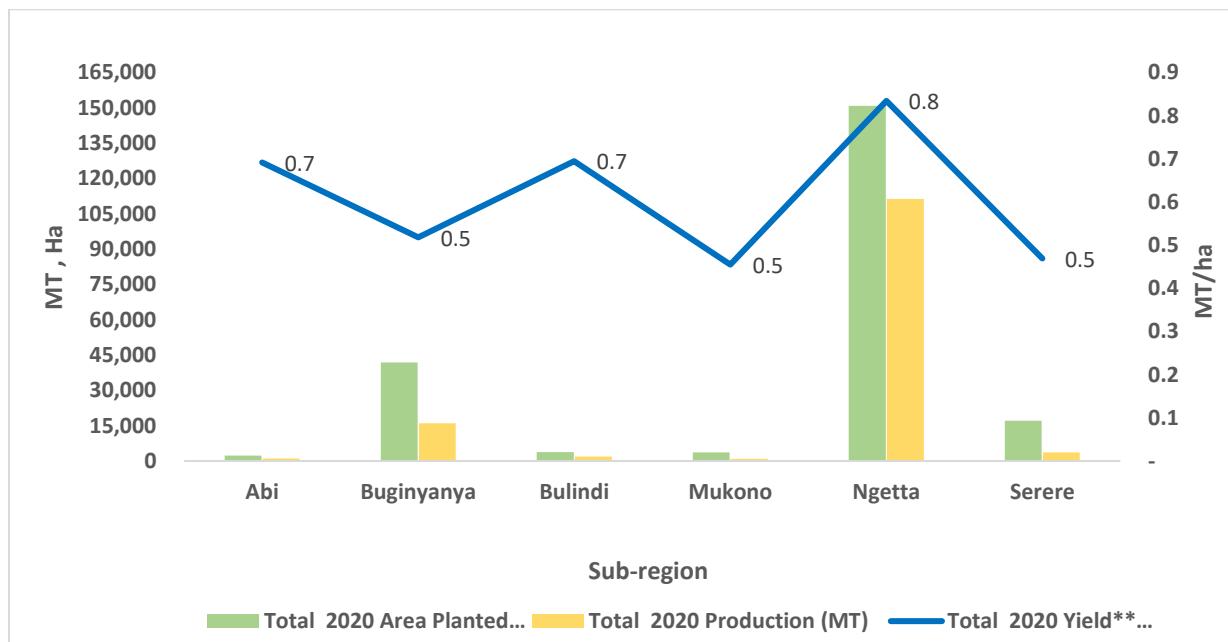


Figure 6:27. Soya bean production trend ('000 Metric Tonnes) in the years 2005/2006-2020

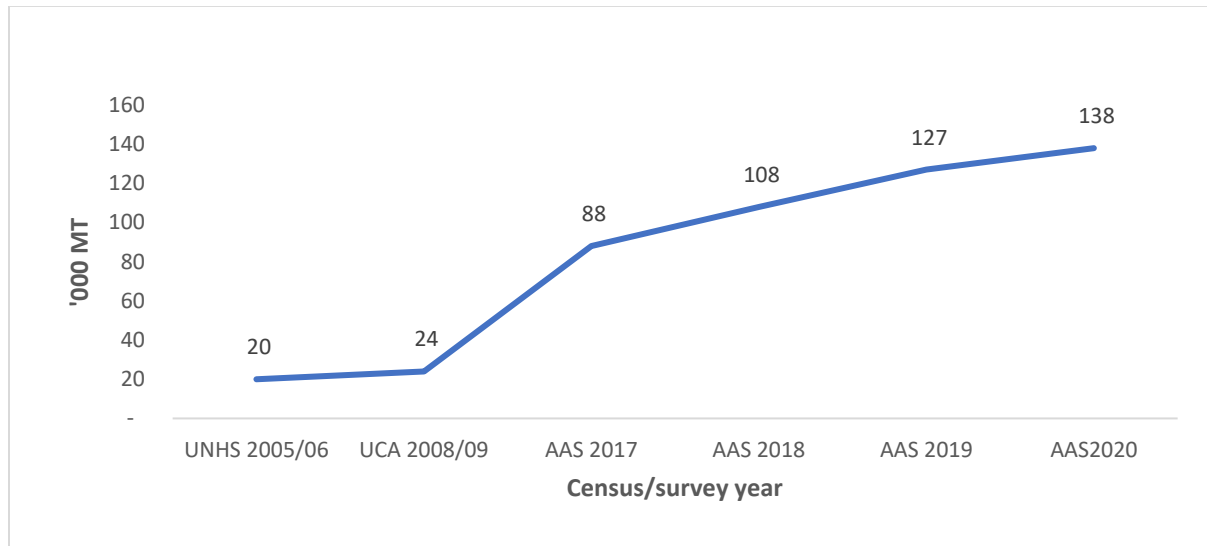
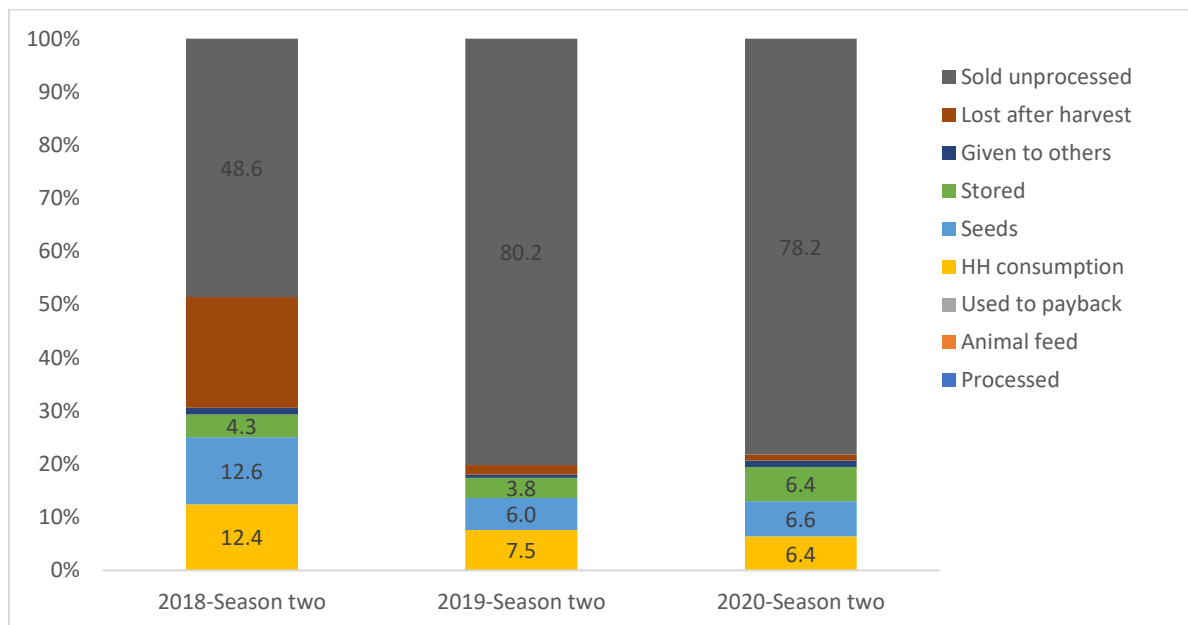


Figure 6:28. Distribution of soya bean production (2nd season) in the years 2018, 2019 and 2020, by use



## 6.8: Sweet potatoes

Sweet potatoes are widely grown across Uganda. The Annual Agricultural Survey for the year 2020 results indicate 22 percent of Agricultural Households cultivated sweet potatoes during the first season and 36 percent in the second season.

The total production of sweet potatoes in the agricultural year 2020 was estimated to be approximately 1.2 million metric tonnes (MT) from an estimated plant area of approximately 466,000 hectares (ha). In the first season, a lower production (approximately 443,000 MT) was recorded compared to the second season (764,000 MT). At national level, the yield was 3.4 MT/ha in the first season and 7.0 MT/ha in the second (Annex 6, **Table 6- 13**).

A look at the sub-regional level indicates Busoga (194,000 MT) with the highest sweet potato production, followed by North Buganda (187,000 MT). The sub-regions with the lowest annual production were Ankole (40,000 MT) and Tooro (39,000 MT). Acholi (12.2 MT/ha) and Lango (7.5 MT/ha) reported the highest annual yields. The lowest annual yields were in Busoga (3.7 MT/ha) and Elgon (3.4 MT/ha). See Figure 6:29 and Annex 6, **Table 6- 13**.

At the ZARDI level, Buginyanya (288,000 MT) reported the highest sweet potato production followed by Mukono (254,000 MT). The ZARDIs with the lowest annual production were Bulindi (41,000 MT) and Rwebitaba (39,000 MT). Ngetta (9.4 MT/ha) and Abi (8.3 MT/ha) reported the highest annual yields; the lowest annual yields were in Mukono (4.1 MT/ha) and Buginyanya (3.9 MT/ha). See Annex 6, **Table 6- 14**.

The production trend shows some fluctuation, but ultimately, a general decrease in sweet potato production since the year 2000 and an increase in the year 2020. Sweet potato production increased by 13 percent to 1.2 million MT in the year 2020 compared to 1.1 million MT in the year 2019 (Figure 6:31). The increase in production appears to be a result of an increase in the national yield and not the area planted. In fact, the area planted with sweet potatoes decreased from 504,000 ha in the year 2019 to 466,000 ha in the year 2020 while the annual national yield of the year 2020 was 5.0 metric tonnes per hectare and 2.8 MT/ha in the year 2019 (Annex 6, Table 6-13).

Finally, the data on the use (disposition) of sweet potato production reveals a large proportion of sweet potatoes cultivated were consumed by the producing households (78 percent). This was similar to the percentage consumed by the producing households in the second season of the year 2019. Some of the sweet potatoes were still in storage at the time of enumeration (about six percent) while nine percent had been sold unprocessed and seven percent of the second season production of the survey year 2020 was given to others (Figure 6:32).

Figure 6:29. Sweet potatoes area (ha), production (MT) and yield (MT/ha) by sub-region

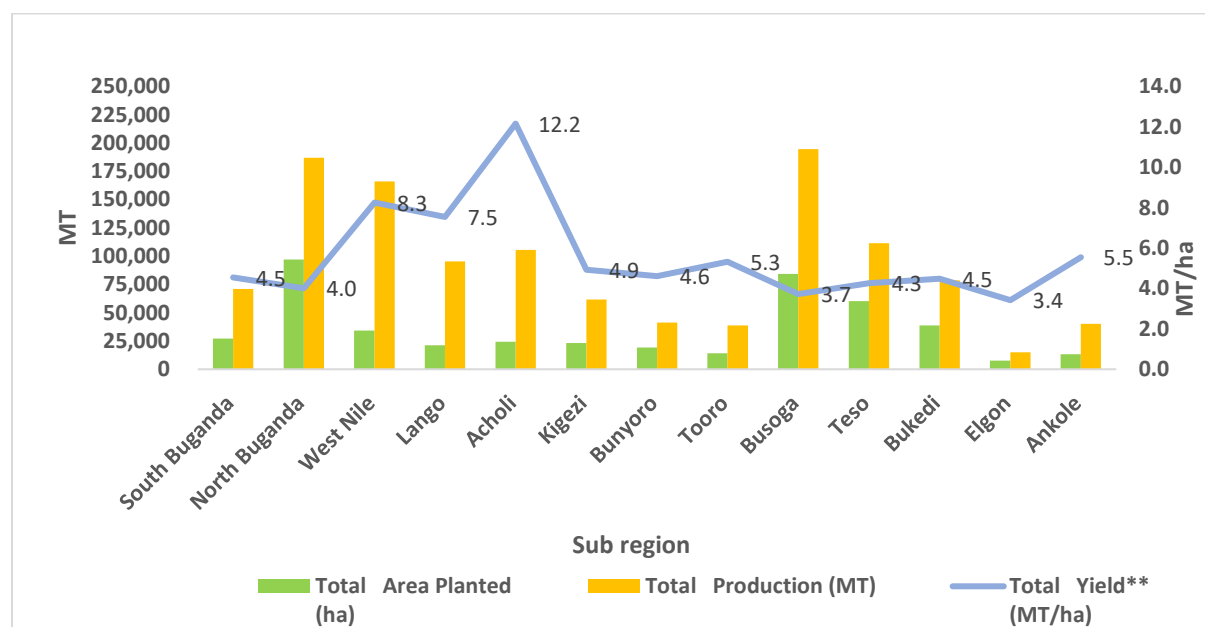


Figure 6:30. Sweet potatoes area (ha), production (MT) and yield (MT/ha) by ZARDI

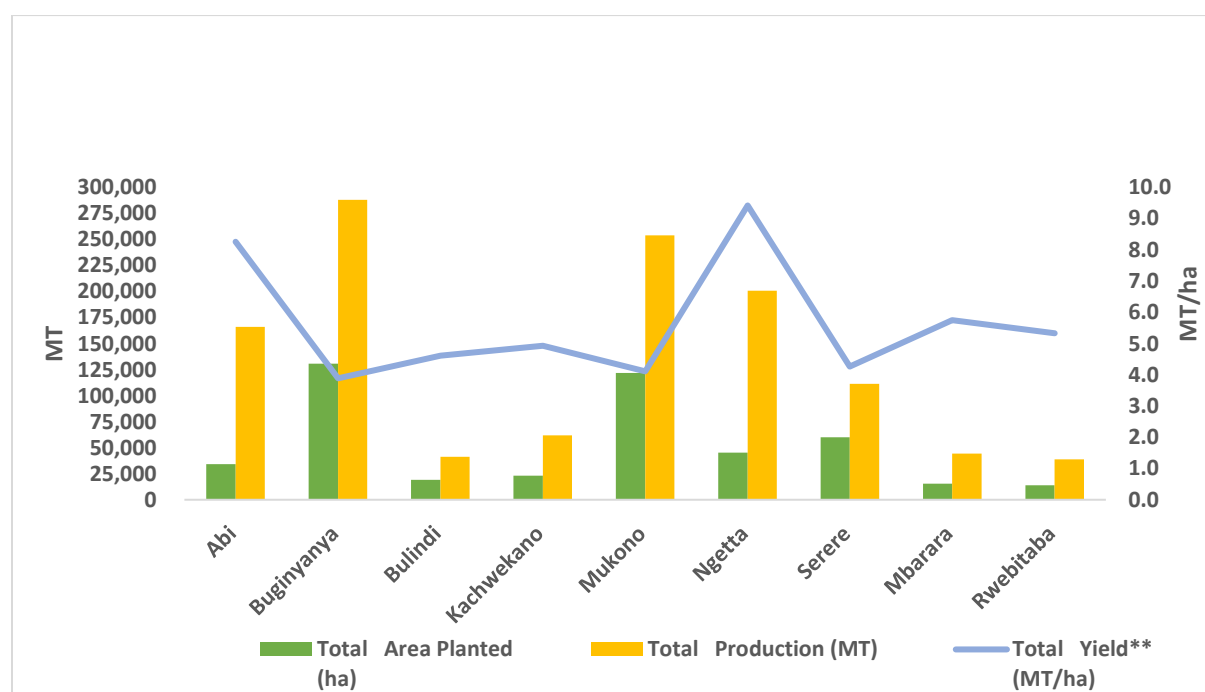


Figure 6:31. Sweet potato production trend ('000 Metric Tonnes) in the years 1999/2000-2020

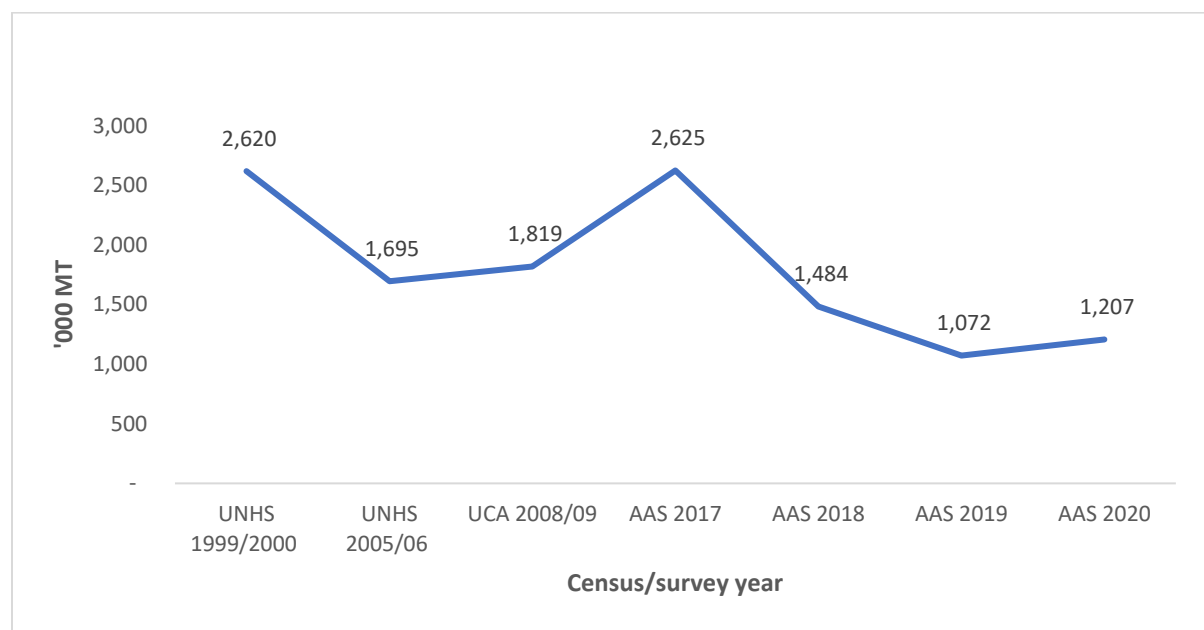
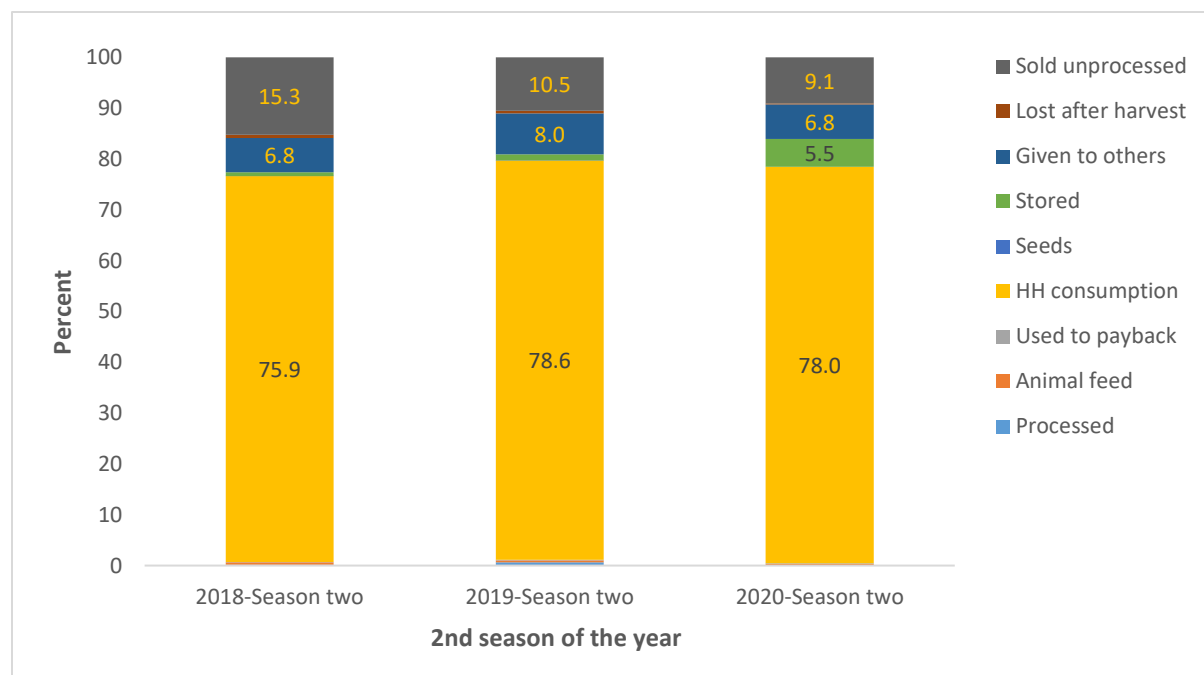


Figure 6:32. Distribution of sweet potato production (2nd season) in the years 2018, 2019 and 2020, by use



## 6.9: Irish potatoes

Traditionally, Irish potatoes were mainly grown in Western Uganda and in the Elgon area. Recently, many farmers in North Buganda started to grow Irish potatoes. The Annual Agricultural Survey year 2020 results indicate three percent of Agricultural Households cultivated Irish potatoes during the first season and five percent in the second season.

The total Irish potato production in the agricultural year 2020 was estimated to be approximately 224,000 metric tonnes (MT) from an estimated plant area of approximately 81,000 hectares (ha). In the first season, a slightly lower production (approximately 110,000 MT) was recorded compared to the second season (114,000 MT). At the national level, the yield was 3.4 MT/ha in first season and 5.4 MT/ha in second season (Annex 6, **Table 6-15**).

The sub-regional level data indicates Kigezi with the highest annual production at 65,000 MT, followed by Tooro (58,000 MT) and South Buganda (36,000 MT). The sub-regions with the lowest annual production were North Buganda (13,000 MT) and Ankole (10,000 MT). Kigezi reported the highest annual yield (6.4 MT/ha), followed by South Buganda (4.5 MT/ha) and North Buganda (4.2 MT/ha). The lowest annual yield was in Bunyoro (2.5 MT/ha). See Figure 6:33 and Annex 6, Table 6-15.

The Zonal Agricultural Research and Development Institutes (ZARDIs)'s results indicate Kachwekano with the highest annual production at 65,000 MT, followed by Rwebitaba (58,000 MT). The ZARDIs with the lowest annual production were Mukono (21,000 MT) and Bulindi (16,000 MT). Kachwekano reported the highest annual yield (6.4 MT/ha), followed by Mukono and Mbarara (each with 4.3 MT/ha). The lowest annual yield was in Bulindi (2.5 MT/ha). See Annex 6, Table 6-16.

The production trend shows a steady decrease in Irish potato production over the past two years. Irish potato production reduced from 261,000 MT in the year 2019 to 224,000 MT in the year 2020, corresponding to about 14 percent of the year 2019 production (Figure 6:35). The decrease in production appears to be a result of decreased planting. In fact, the area planted with Irish potatoes decreased by 17 percent in the year 2020 compared to the previous year. The annual national yield of the survey year 2020 was 4.2 MT/ha compared 3.0 MT/ha in the year 2019 (Annex 6, Table 6-15).

Finally, the data on use (disposition) of Irish potato production reveals that, at the time of enumeration, much crop of the second season had been sold unprocessed (47 percent) while some had been used for own consumption (25 percent) or set aside for seed (19 percent). See Figure 6:36).

Figure 6:33. Irish potatoes area (ha), production (MT) and yield (MT/ha) by sub-region

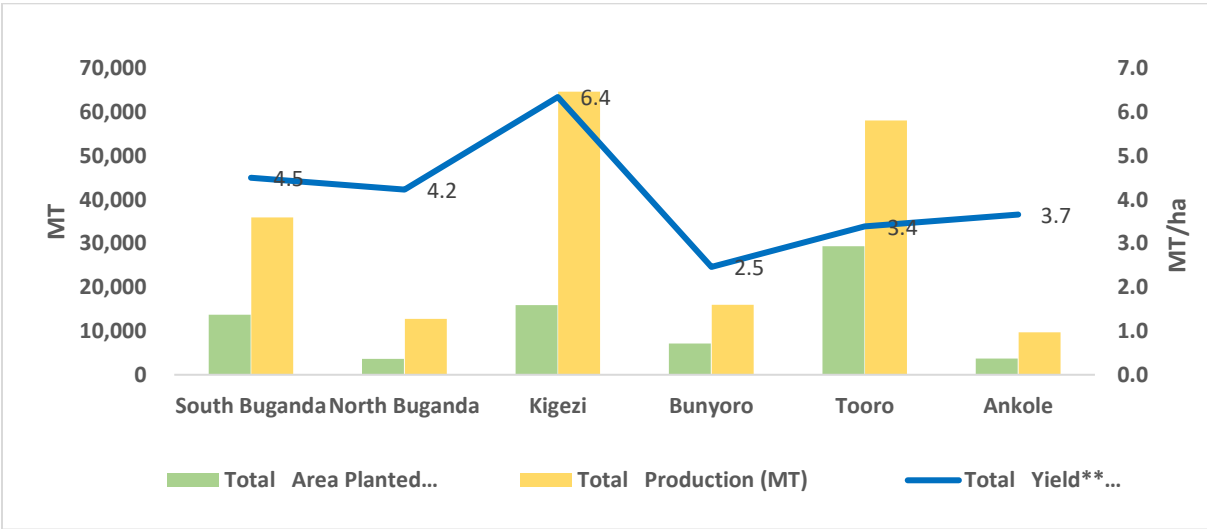


Figure 6:34. Irish potatoes area (ha), production (MT) and yield (MT/ha) by Zonal Agricultural Research and Development Institutes

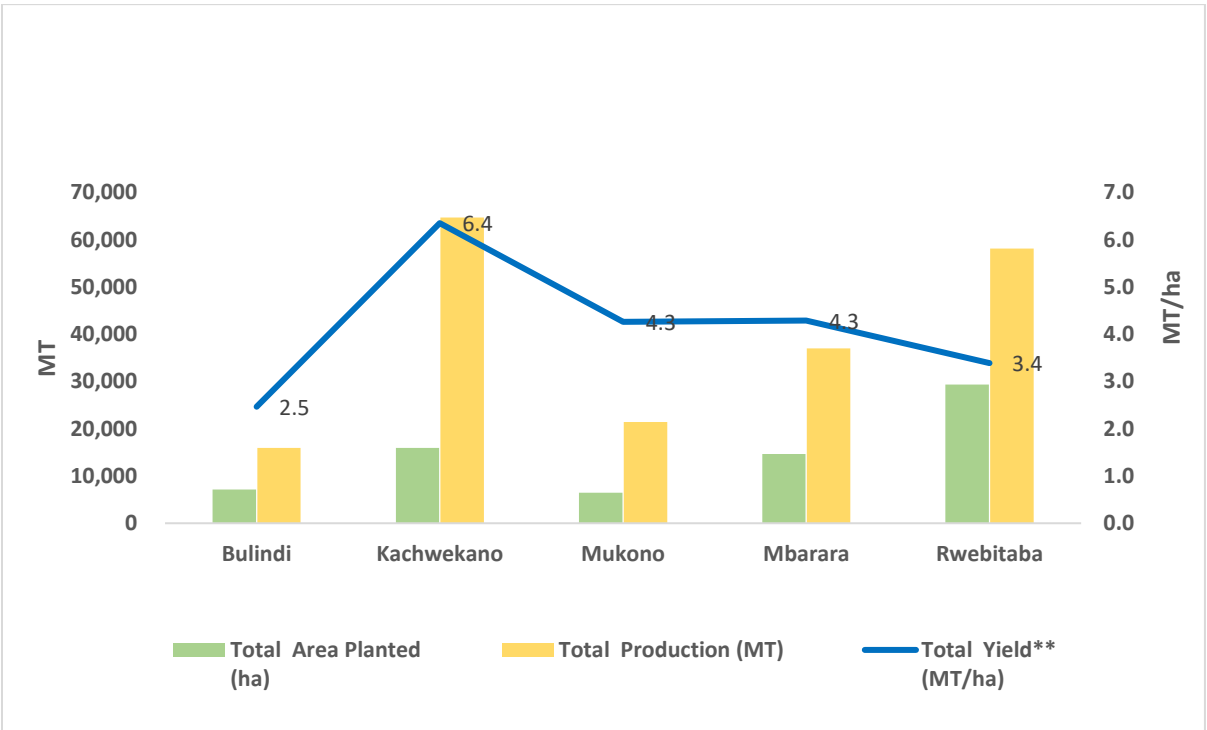




Figure 6:35. Irish potato production trend (‘000 MT) in the years 2005/06-2020

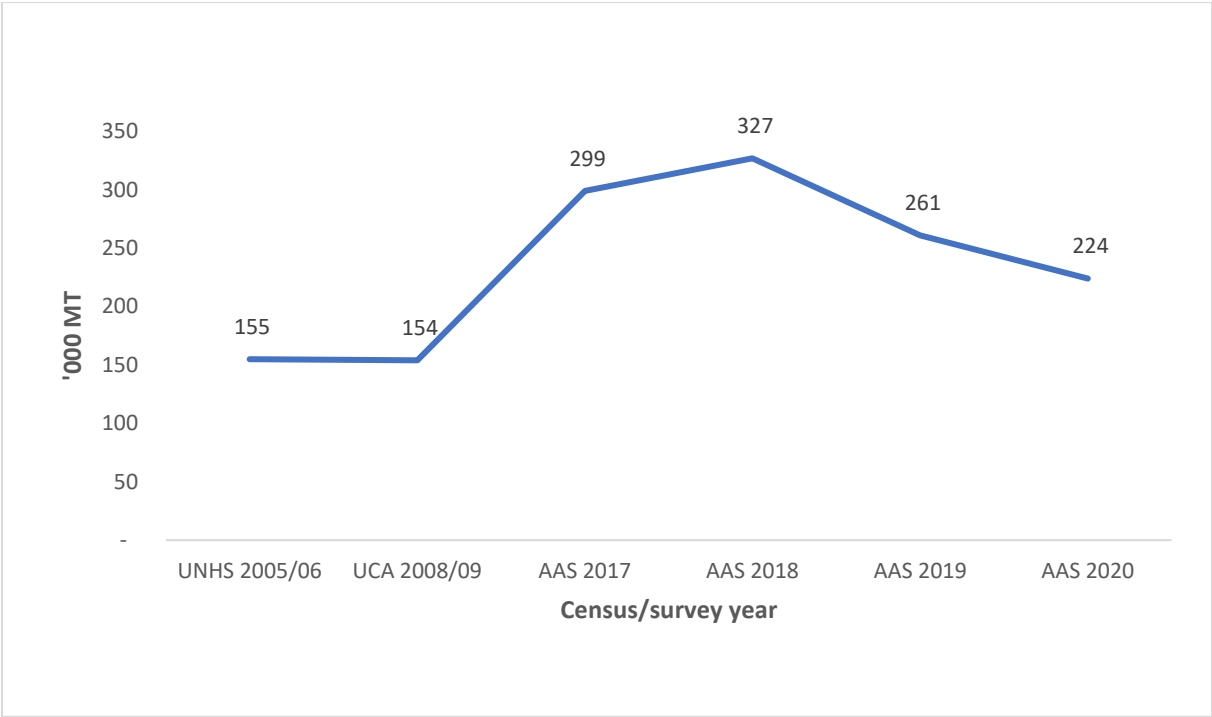
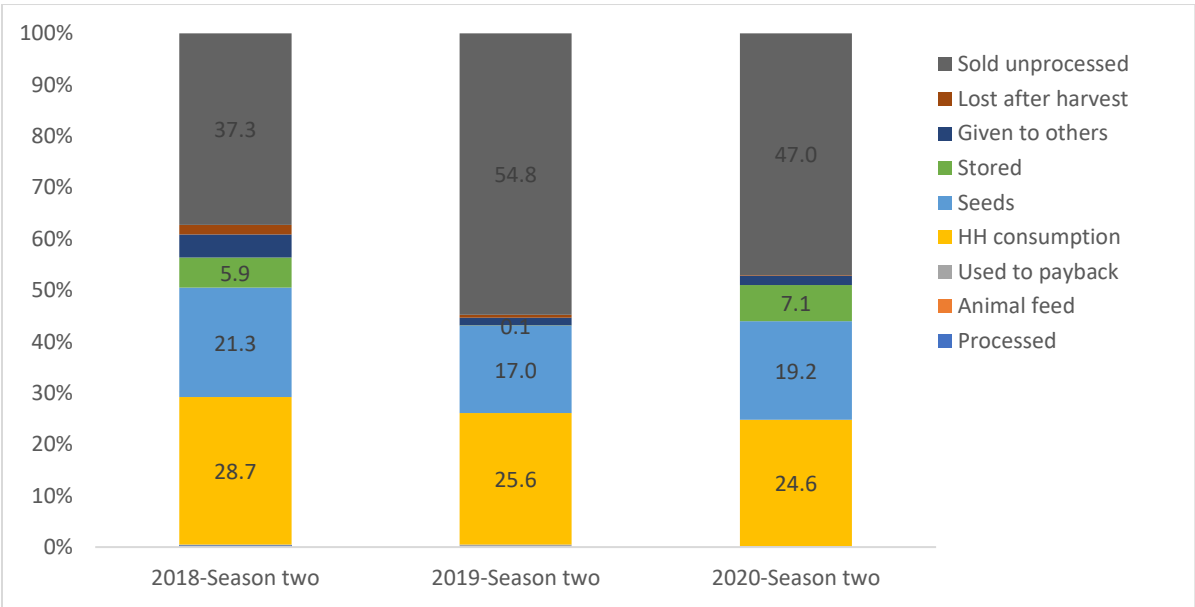


Figure 6:36. Distribution of Irish potato production (2nd season) in the years 2018, 2019 and 2020 by use



## 6.10: Simsim

Simsim, also known as sesame is mainly grown in the warmer areas of Northern Uganda. Under area-based and agri-business development, the cultivation of simsim has been prioritized in the Acholi sub-region. Simsim is useful in the manufacture of vegetable oil, and it is a source of both human food and animal feed.

The Annual Agricultural Survey for the year 2020 results indicate three percent Agricultural Households cultivated simsim during the first season and eight percent in the second season. The total simsim production in the agricultural year 2020 was estimated to be approximately 57,000 metric tonnes (MT) from an estimated plant area of approximately 243,000 hectares (ha). In the first season, a slightly lower production (approximately 18,000 MT) was recorded compared to the second season (39,000 MT). At national level, the yield was 0.3 MT/ha in the first and 0.4 MT/ha in the second seasons (Annex 6, Table 6-17).

A glance at the sub-regional level indicates Acholi with the highest annual production at 19,000 metric tonnes, followed by Lango (17,000 MT). The sub-region with the lowest annual production was Teso (4,800 MT). Teso sub-region reported the highest yield of simsim (0.5 MT/ha) while Acholi reported the lowest at 0.3 MT/ha (Figure 6:37 and Annex 6, Table 6-17).

The ZARDIs indicate Ngetta with the highest annual production at 36,000 MT, followed by Abi (8,600 MT). The ZARDIs with the lowest annual production were Serere (4,800 MT) and Buginyanya (860 MT). Serere ZARDI reported the highest yield of simsim (0.5 MT/ha) while Ngetta, Abi and Buginyanya reported the lowest annual yields of 0.4 MT/ha (Annex 6, Table 6-18).

The production trend shows a steady increase in simsim production since the year 2008/2009 with an increase in production from 44,000 MT in the year 2019 to 57,000 MT in the year 2020. This corresponds to an approximate 30 percent increase on the year 2019 production (Figure 6:39). The increase in production appears to be a result of increased planting. Indeed, the area planted with simsim increased by nine percent in the survey year 2020 compared to the previous year. The annual national yield of the year 2020 was 0.4 MT/ha compared to 0.3 MT/ha recorded in the year 2019 (Annex 6, Table 6-17).

Lastly, the data on use (disposition) of simsim production reveals that, at the time of enumeration, much crop harvested in the second season was in storage (39 percent) while some had been sold unprocessed (31 percent) or had been used for own consumption (21 percent). See Figure 6:40.

Figure 6:37. Simsim area (ha), production (MT) and yield (MT/ha) by sub-region

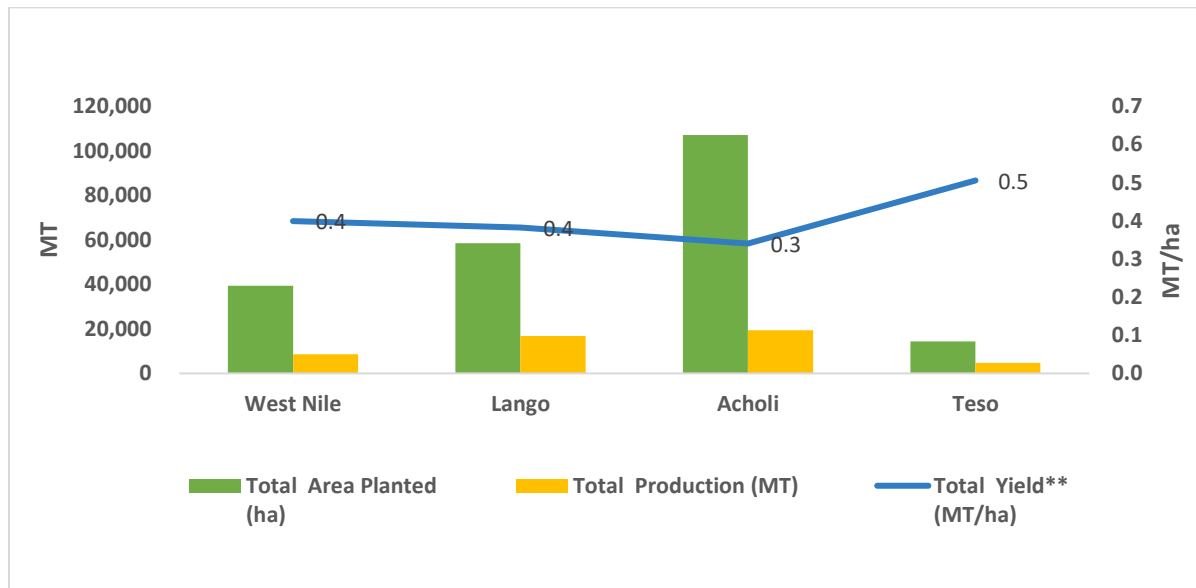


Figure 6:38. Simsim area (ha), production (MT) and yield (MT/ha) by ZARDI

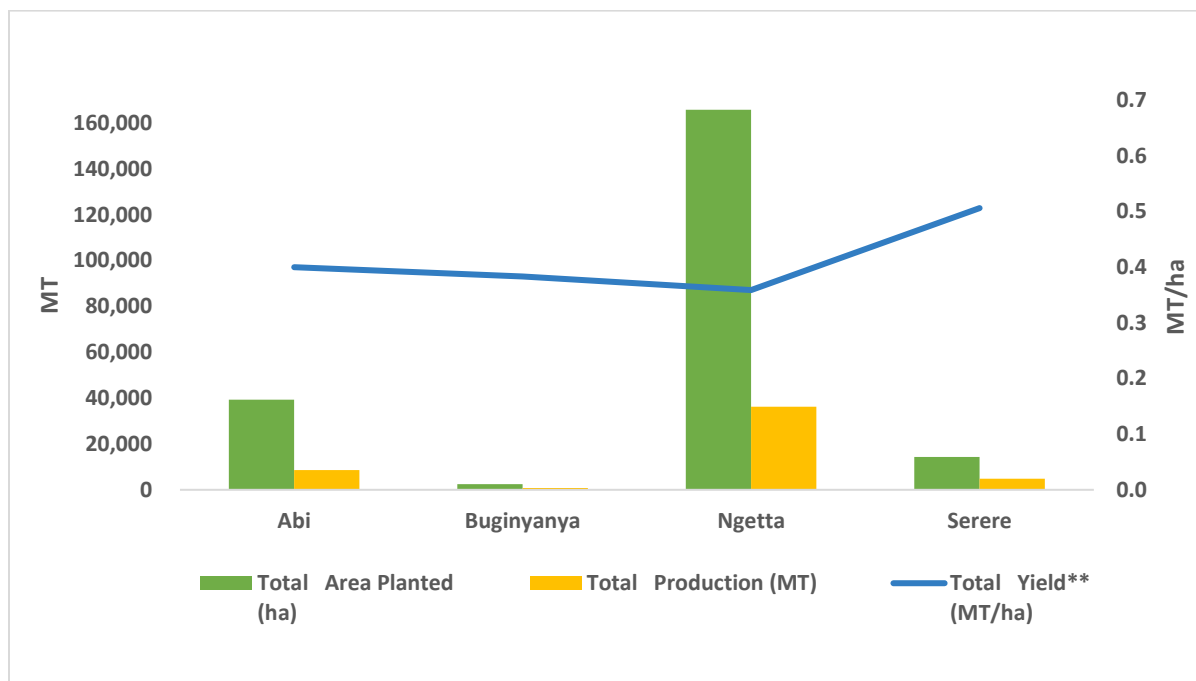


Figure 6:39. Simsim production trend ('000 MT) in the years 2005/2006-2020

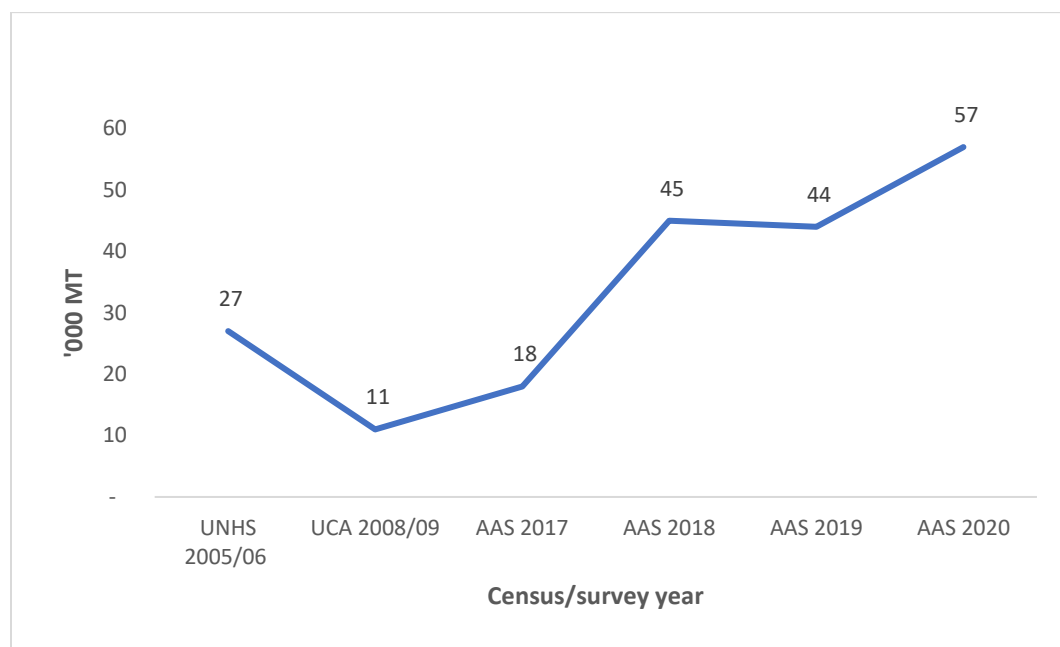
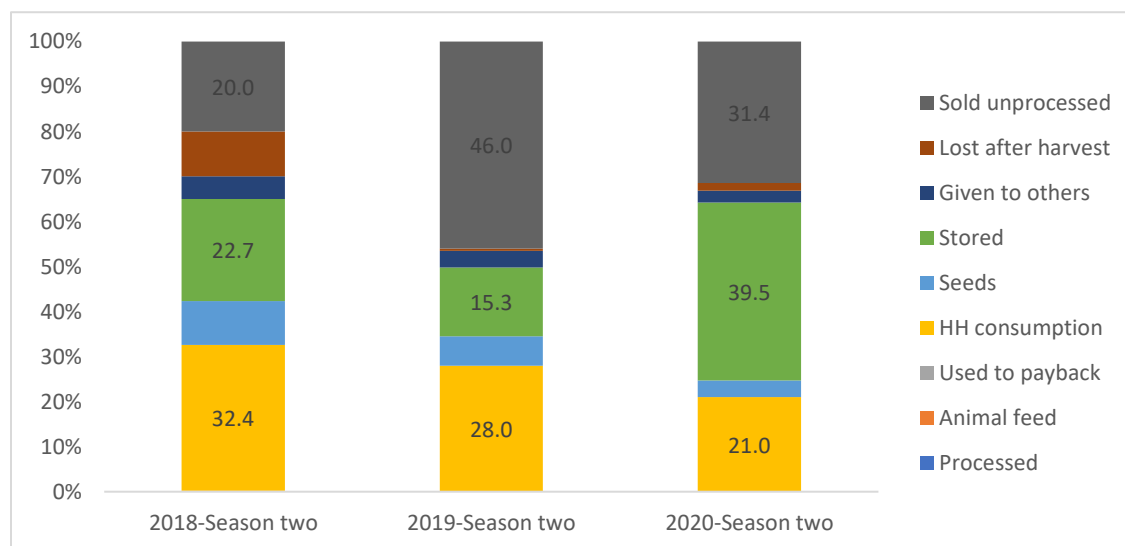


Figure 6:40. Distribution of simsim production (2nd season) in the years 2018, 2019 and 2020



## 6.11: Groundnuts

Groundnuts are commonly grown throughout Uganda. The Annual Agricultural Survey 2020 results show 17 percent Agricultural Households cultivated groundnuts during the first and second season.

The estimated groundnut production in the agricultural year 2020 was approximately 176,000 metric tonnes (MT) from an estimated plant area of about 458,000 hectares (ha). Production was approximately 108,000 MT in the first season and 68,000 MT in the second season. The national level yield was 0.4 MT/ha in the first season and 0.6 MT/ha in the second season (

Figure 6:41. and Annex 6, Table 6-19).

A look at the sub-regional level indicates Acholi with the highest annual production at 31,000 MT, followed by Teso (22,000 MT). The sub-regions with the lowest annual production were South Buganda (4,700 MT) and Elgon (2,100 MT). South Buganda (0.8 MT/ha) and Bunyoro (0.7 MT/ha) reported the highest annual yields. The lowest yields were in Teso and Lango at 0.4 MT/ha (

Figure 6:41 and Annex 6, **Table 6-19**).

Results from the ZARDIs show Ngetta with the highest annual production at 42,000 MT, followed by Serere (22,000 MT). The ZARDIs with the lowest annual production were Rwebitaba (10,000 MT) and Mbarara (9,000 MT). Bulindi (0.7 MT/ha) reported the highest annual yield. The lowest yields were in Mbarara (0.5 MT/ha) and Serere (0.4 MT/ha) (Annex 6, **Table 6-20**).

The production trend shows a steady increase in groundnut production between the years 1999/2000 and 2018, followed by a decrease in the year 2019 and an increase between the years 2019 and 2020, corresponding to a 32 percent increase in the year 2019 production data (Figure 6:43). The increase in production appears to be a result of increased planting and a higher yield. In fact, the area planted with groundnuts increased in the year 2020 by nine percent compared to the previous year. The yield of the year 2020 was 0.5 MT/ha compared to 0.4 MT/ha in the year 2019 (Annex 6, Table 6-19).

In conclusion, the data on use (disposition) of groundnut production reveals most groundnuts were in storage (36 percent) at the time of enumeration and 29 percent were sold unprocessed. This is lower than the year 2019 when 40 percent of the total groundnut harvest was sold unprocessed. Nonetheless, a significant amount of groundnuts were consumed by the producing households (19 percent). See Figure 6:44.

Figure 6:41. Groundnuts area (Ha), production (MT) and yield (MT/Ha)

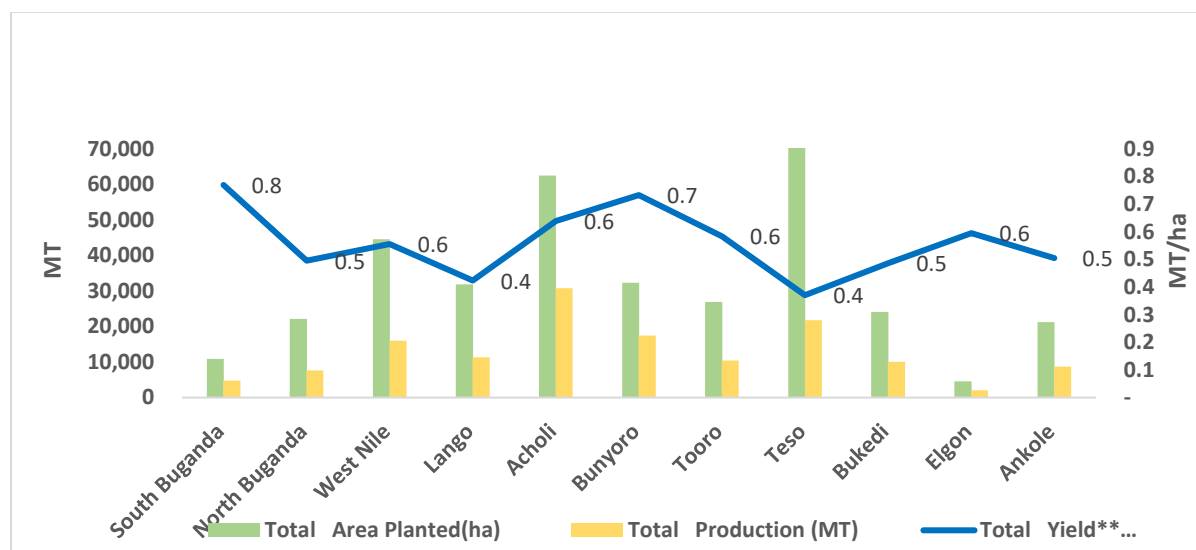


Figure 6:42. Groundnuts area (ha), production (MT) and yield (MT/Ha)

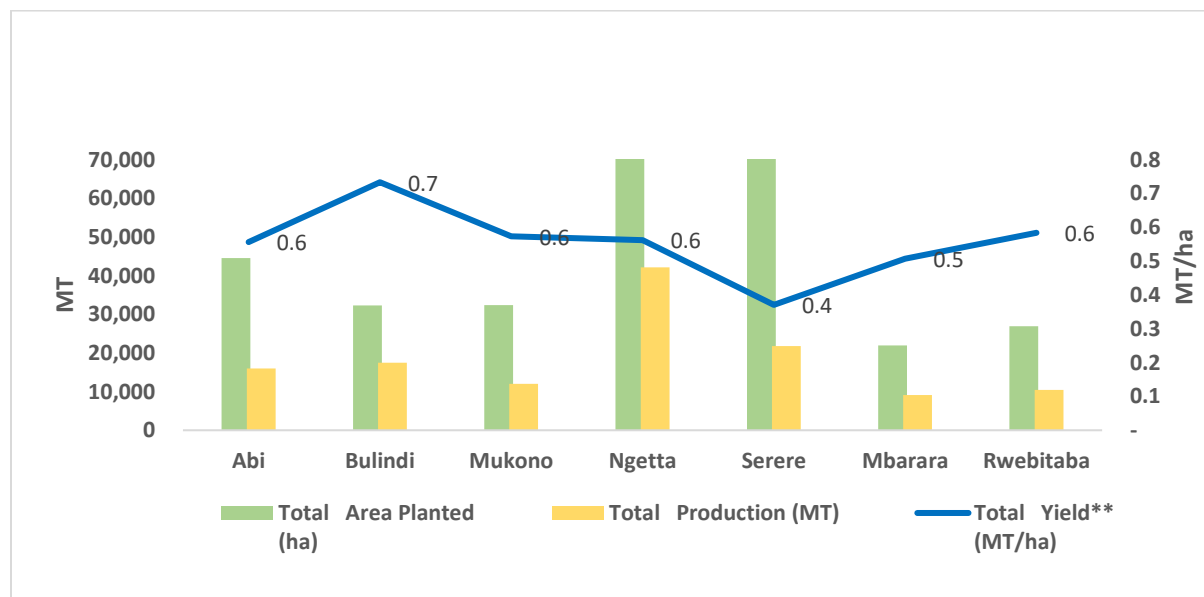


Figure 6:43. Groundnut production trend ('000MT) in the years 1999/2000-2020

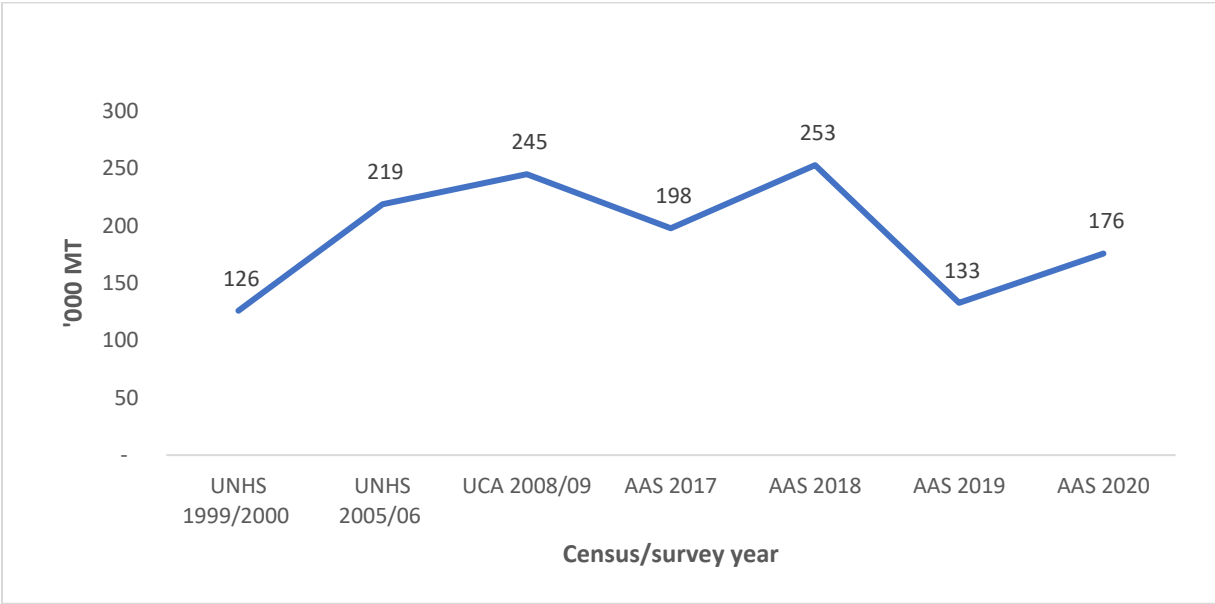
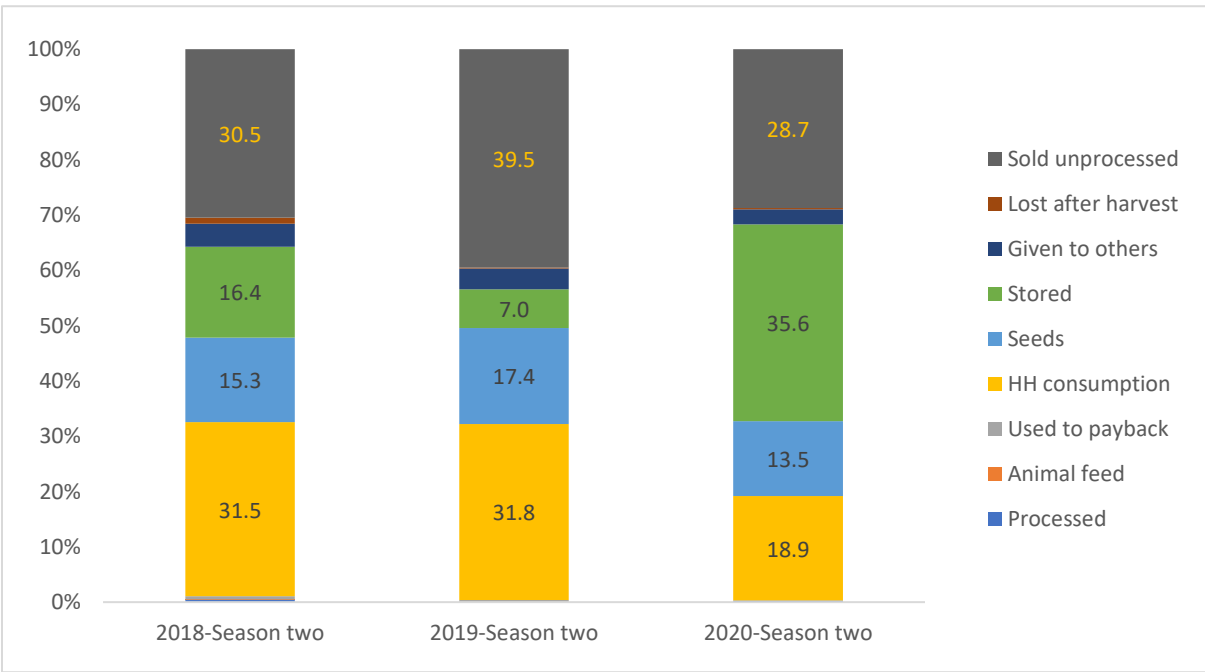


Figure 6:44. Distribution of groundnuts production (2nd season) in the years 2018, 2019 and 2020



## 6.12: Banana food

Banana food (matooke) is one of the main contributors to overall food production in Uganda. Matooke is a staple food that has increasingly become a source of income and an important non-traditional export crop.

The Annual Agricultural Survey for the year 2020 indicates approximately 56 percent of Agricultural Households cultivated banana-food during the first season and 59 percent in the second season. The total production of banana-food was estimated at approximately 11.1 million Metric Tonnes (MT) from an estimated plant area of approximately 722,000 ha.<sup>18</sup> Banana-food production was higher in the first season (approximately 6.1 million MT) compared to the second season (approximately 5.0 million MT). At national level, the banana-food yield was 15.4 MT/ha in the year 2020 (Figure 6:45 and Annex 6, Table 6-21).

The data collected at the sub-regional level shows Ankole with the highest annual production at 3.3 million MT, followed by South Buganda (2.2 million MT). The sub-regions with the lowest annual banana-food production were Lango (13,000 MT) and Acholi (11,000 MT). Ankole and Tooro reported the highest annual yields of 21 MT/ha and 17 MT/ha, respectively. The lowest yield was in Teso at (2.2 MT/ha). See Figure 6:45 and Annex 6, Table 6-23.

Data from the ZARDIs indicate that Mbarara with the highest annual production at 4.1 million MT, followed by Mukono (3.0 million MT). The ZARDIs with the lowest annual banana-food production were Serere (31,000 MT) and Ngetta (24,000 MT). Mbarara and Kachwekano reported the highest annual yields of 20.3 metric tonnes per hectare and 18.5 MT/ha, respectively. The lowest yield was in Serere at 2.2 MT/ha (Annex 6, **Table 6- 22**).

The production trend shows a steady increase in banana-food production from the years 2008/2009 to 2020. There was an increase in banana production in the year 2020 to 11.1 million MT, corresponding to 18 percent of the year 2019 production (Figure 6:47). The increase in production was apparently a result of increased planting. In fact, the area planted with banana-food increased in the year 2020 by 22 percent compared to the previous year. The yield of the year 2020 was 15.4 MT/ha compared to 17.1 MT/ha in the year 2019 (Annex 6, Table 6-21).

Lastly, the data on use (disposition) of banana production reveals most banana food was consumed by producing households while 24 percent was sold unprocessed. This is lower than the year 2019 figure when 32 percent of the total banana harvest was sold unprocessed (Figure 6:48).

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<sup>18</sup> Being a permanent crop, banana-food occupies almost the same area in both seasons.



Figure 6:45. Banana-food area (ha), production (MT) and yield (MT/ha) by sub-region

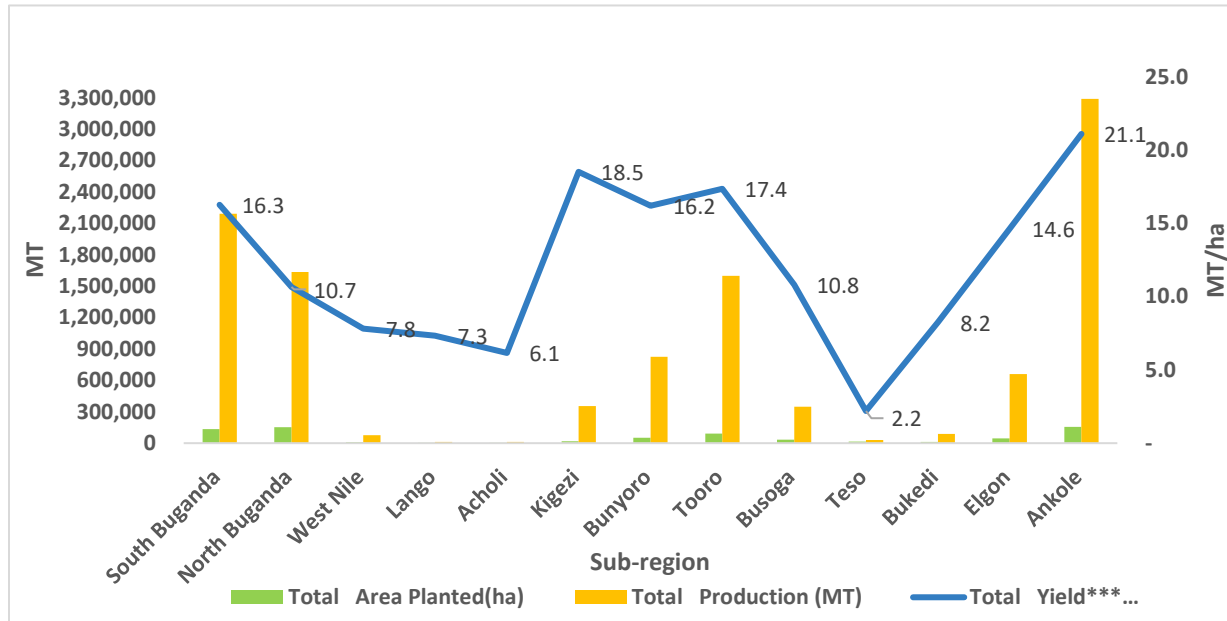


Figure 6:46. Banana-food area (ha), production (MT) and yield (MT/ha) by ZARDI

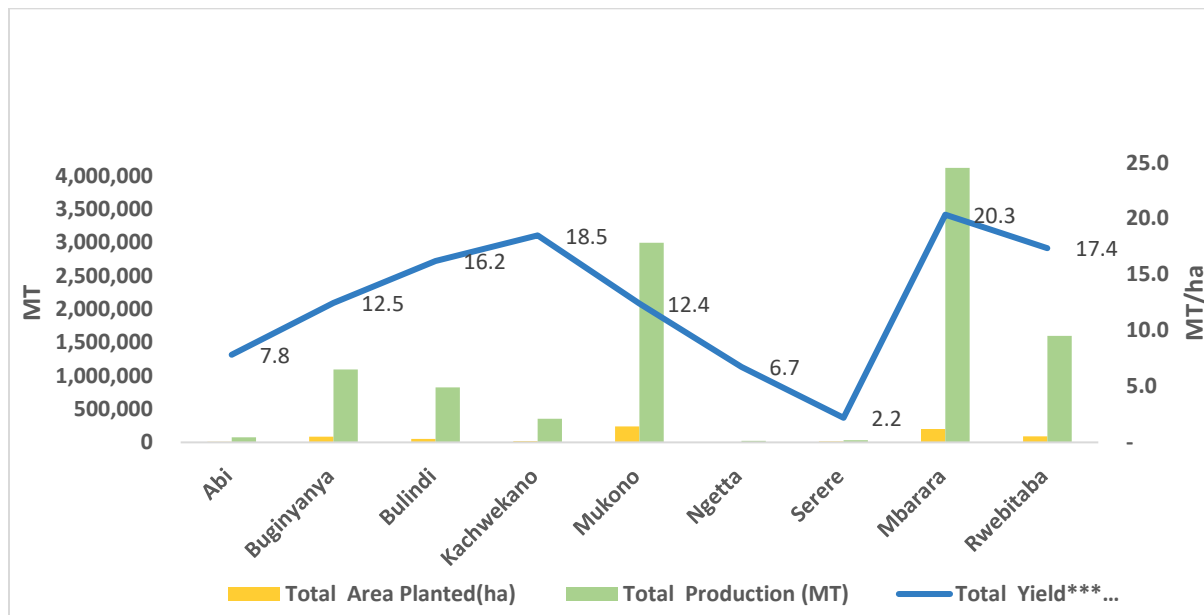


Figure 6:47. Banana food production trend ('000 MT) in the years 1999/2000-2020

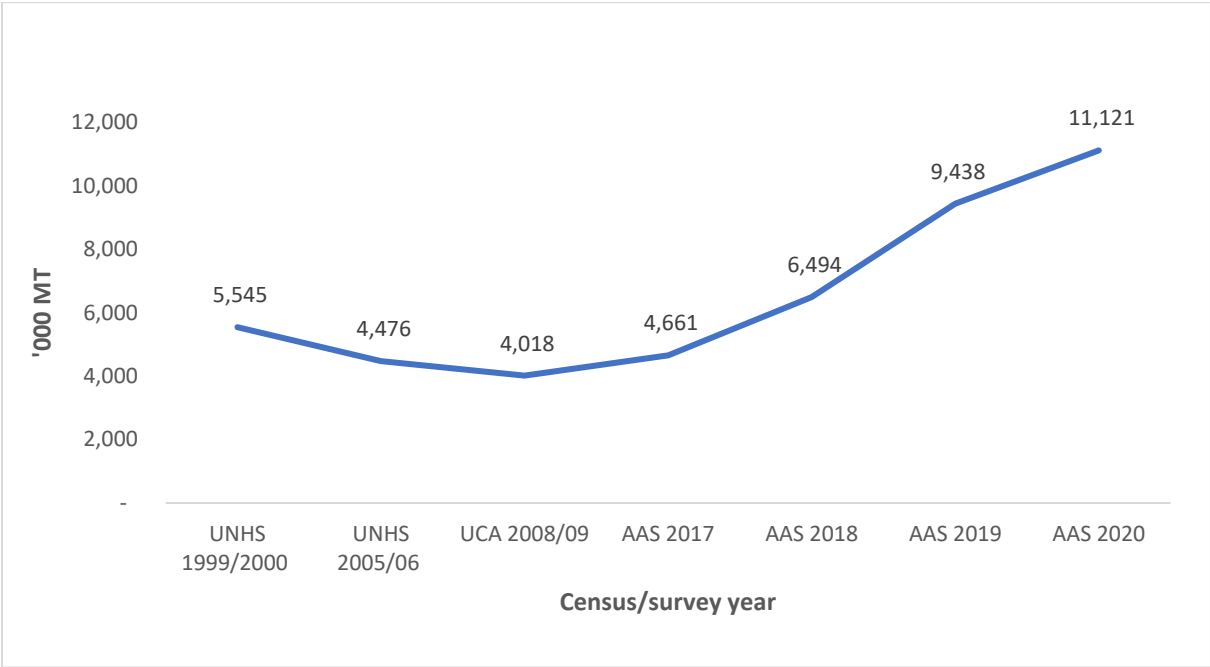
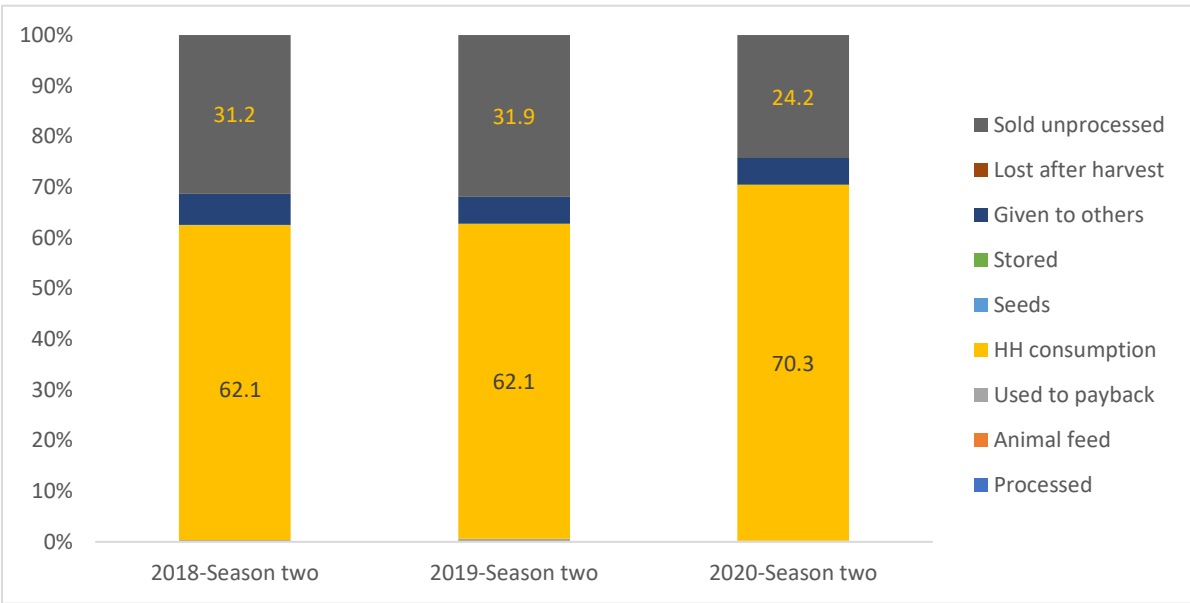


Figure 6:48. Distribution of banana-food production (2nd season) in the years 2018, 2019 and 2020



### 6.13: Cassava

Cassava is one of the ten commodities prioritized by the Government of Uganda (GoU) to foster agro-industrialisation. It can be produced massively, is drought resistant, has potential for multi-industrial uses and is key for food security. Once mature, cassava can stay underground for up to two years, which is an essential feature in mitigating adverse seasonal effects.<sup>19</sup> Cassava is widely grown across Uganda.

The Annual Agricultural Survey for the year 2020 indicates 44 percent Agricultural Households cultivated cassava during the first season and 55 percent during the second season. During the agricultural year 2020, cassava production was approximately 1.7 million Metric Tonnes from an estimated plant area of about 740,000 Ha. Production was much lower in the first season (approximately 601,000 MT) than in the second season (1.1 million MT). At national level, the annual yield of cassava was 2.3 MT/ha (Annex 6, Table 6-27).

At the sub-regional level, the highest annual production was reported in West Nile (268,000 MT), followed by Lango with about 246,000 MT while the lowest were Elgon (27,000 MT), Ankole (26,000) and Kigezi with 9,100 MT. The highest annual yields were reported in Ankole (7.1 MT/ha) and Kigezi (4.6 MT/ha). The lowest yields were in Tooro (1.3 MT/ha), Elgon, Teso and Bunyoro (the latter three were at 1.6 MT/ha). See Figure 6:49 and Annex 6, Table 6- 27.

As for the data collected at ZARDI level, the highest annual production was reported in Buginyanya (409,000 MT), followed by Ngetta with about 381,000 MT while the lowest were Rwebitaba (37,000 MT) and Kachwekano (9,100 MT). The highest annual yields were reported in Mbarara (10.5 MT/ha) and Kachwekano (4.6 MT/ha). The lowest yield was in Rwebitaba (1.3 MT/ha), Serere and Bulindi (both with 1.6 MT/ha). See Annex 6, Table 6-28).

The production trend, over time, shows cassava production fluctuates significantly. Between the years 1999/2000 and 2005/2006, it declined from 2.2 million MT to 1.7 million MT, rose to 2.9 million MT in the years 2008/2009, decreased to 1.9 million MT in the year 2017, more than doubled to 4.4 million MT in the year 2018 and then declined sharply to 1.7 MT in the survey 2020 (Figure 6:51 and Annex 6, Table 6-27).

Finally, the data on use (disposition) of cassava production indicates most cassava produced (67 percent) was consumed by producing households while 16 percent was sold unprocessed. This is lower than the 2009 figure when 28 percent of the total cassava harvest was sold unprocessed (Figure 6:52).

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<sup>19</sup> National Development Plan III, 2020

Figure 6:49. Cassava area (ha), production (MT) and yield (MT/ha) by sub-region

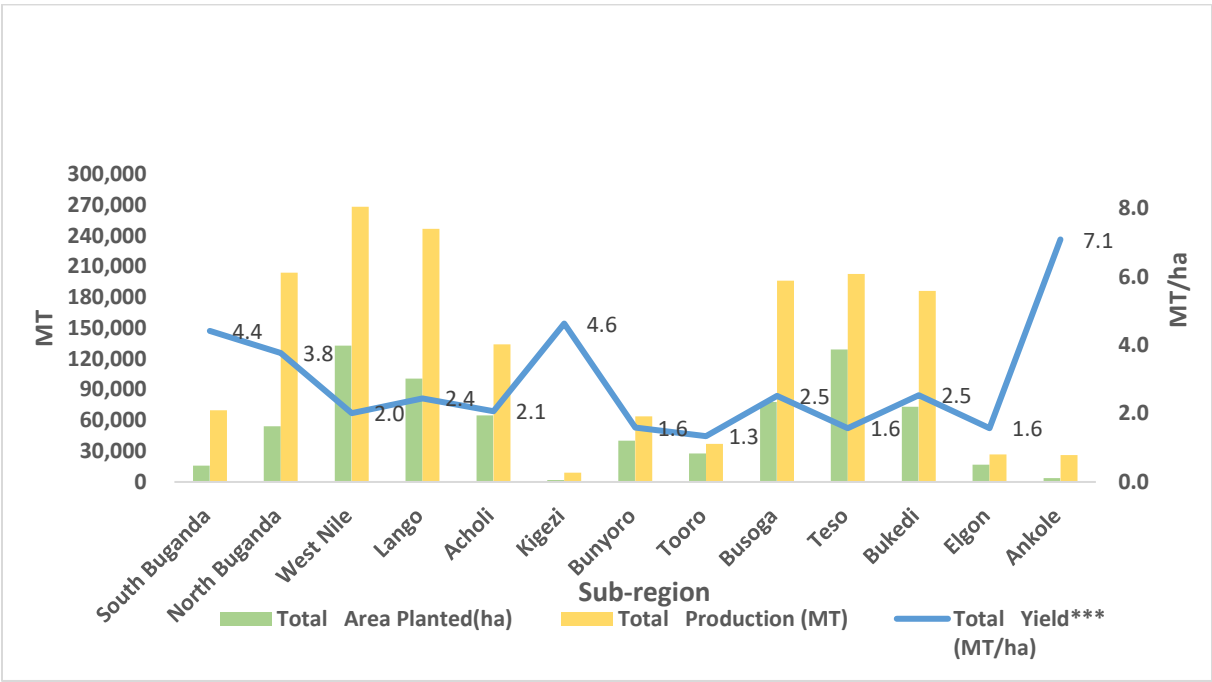


Figure 6:50. Cassava area (ha), production (MT) and yield (MT/ha) by ZARDI

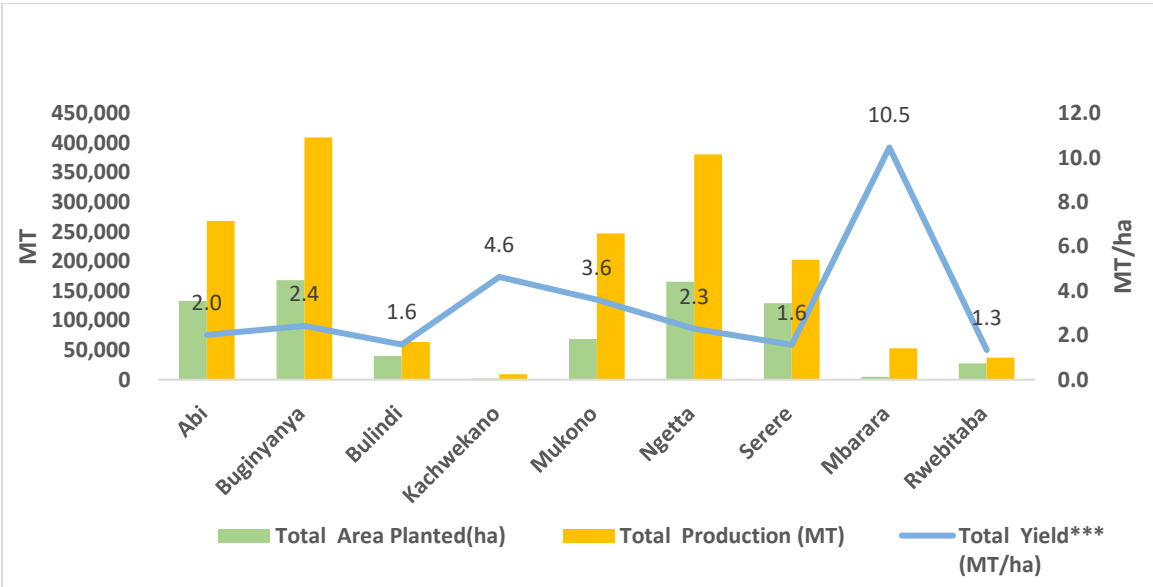


Figure 6:51. Cassava production trend ('000 MT) in the years 1999/2000-2020

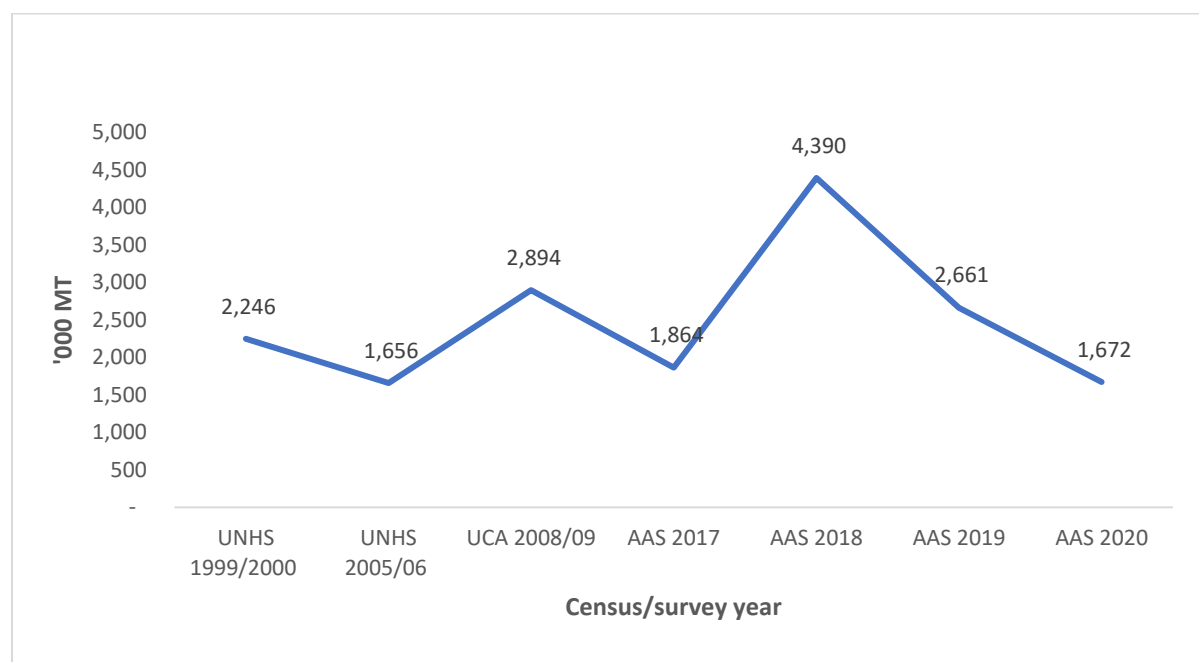
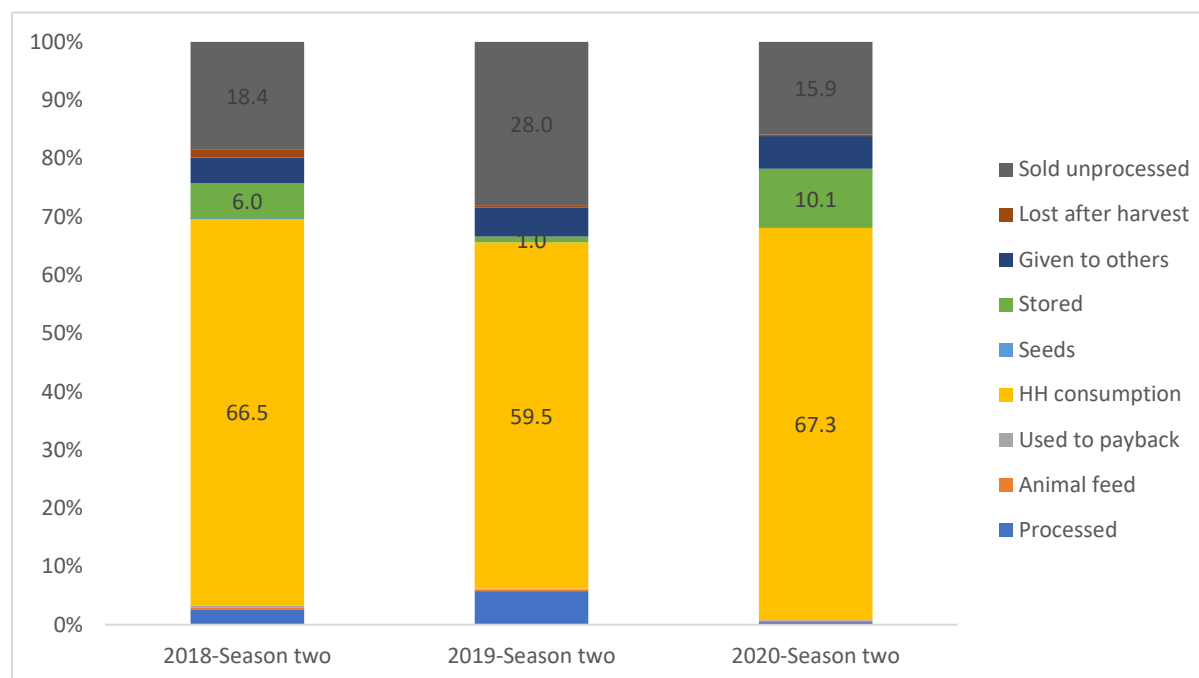


Figure 6:52. Distribution of cassava production (2nd season) in the years 2018, 2019 and 2020



## 6.14: Coffee robusta

Coffee (robusta and arabica) is a major agricultural export from Uganda. Coffee robusta is traditionally grown in the sub-regions of Buganda, Ankole, Tooro and Kigezi. The results of the Annual Agricultural Survey for the year 2020 indicate 24 percent Agricultural Households cultivated coffee robusta during the first season and 25 percent in the second season.

Coffee robusta production in the survey year 2020 totalled approximately 233,000 Metric Tonnes (MT) from an estimated plant area of about 369,000 hectares (ha). Production of coffee robusta production increased by 19 percent from 192,000 MT in the year 2019 (Annex 6, Table 6-29). A slightly higher production was reported in the first season (approximately 129,000 MT) compared to the second season (104,000 MT). At national level, the coffee robusta yield was 0.6 MT/ha (**Annex 6, Table 6-29**).

A glance at the sub-regional level data indicates South Buganda with the highest annual production at 95,000 MT, followed by North Buganda (64,000 MT) and Ankole (35,000 MT). The sub-regions with the lowest annual production were Kigezi (7,600 MT) and Tooro (5,400 MT). Kigezi (0.8 MT/ha) reported the highest annual yield, followed by South Buganda and Ankole (both 0.7 MT/ha) while the lowest annual yields were in North Buganda, Tooro and Busoga (each with 0.5 MT/ha) (Figure 6:53 and **Annex 6, Table 6-29**).

At the ZARDI level, results indicate Mukono with the highest annual production at 126,000 MT, followed by Mbarara (69,000 MT) and Ankole (35,000 MT). The ZARDIs with the lowest annual production were Kachwekano (7,600 MT) and Rwebitaba (5,400 MT). Kachwekano (0.8 MT/ha) and Mbarara (0.7 MT/ha) reported the highest annual yields, followed by Mukono (0.6 MT/ha). The lowest annual yields were in Buginyanya, Rwebitaba and Bulindi (each with 0.5 MT/ha) (**Annex 6, Table 6-30**).

Results from previous annual agricultural surveys indicate over 90 percent of the coffee produced by farmers is sold unprocessed. Therefore, no information was collected for the survey year 2020 on the disposition of coffee.

Figure 6:53. Coffee robusta area (ha), production (MT) and yield (MT/ha) by sub-region



Figure 6:54. Coffee Robusta area (ha), production (MT) and yield (MT/ha) by ZARDI



### 6.15: Coffee arabica

Coffee arabica is mainly grown in the highland areas of the sub-regions of Elgon, Rwenzori and Kigezi (Muhabura). In the agricultural year 2020, the Annual Agricultural Survey for the year 2020 indicates seven percent Agricultural Households cultivated coffee arabica in both seasons.

The total production of coffee arabica in Uganda in the agricultural year 2020 was estimated to be approximately 43,000 metric tonnes (MT) from an estimated plant area of approximately 88,000 hectares (ha). In the first season, a slightly higher production (approximately 22,000 MT) was recorded compared to the second season (21,000 MT). At national level, the annual yield was 0.5 MT/ha (**Annex 6, Table 6-31**).

A look at the sub-regional level indicates Tooro had the highest annual production at 24,000 MT, followed by Elgon (9,700 MT). The sub-region with the lowest annual production of coffee Arabia was Bunyoro (2,900 MT). Bunyoro reported the highest annual yield (0.6 MT/ha) while the lowest annual yield was in Elgon with 0.4 MT/ha (Figure 6:55 and **Annex 6, Table 6-31**).

The results from the ZARDI data indicate Rwebitaba with the highest annual production at 24,000 MT, followed by Buginyanya (11,000 MT). The ZARDI with the lowest annual production was Bulindi (2,900 MT). Bunyoro (0.6 MT/ha) reported the highest annual yield while the lowest annual yield was in Elgon with 0.4 metric tonne per hectare (**Annex 6, Table 6-32**).

Results from previous annual agricultural surveys indicate over 90 percent of the coffee produced by farmers is sold unprocessed. Therefore, for the AAS 2020, no information was collected on disposition of coffee.



Figure 6:55. Coffee arabica area (ha), production (MT) and yield (MT/ha) by sub-region

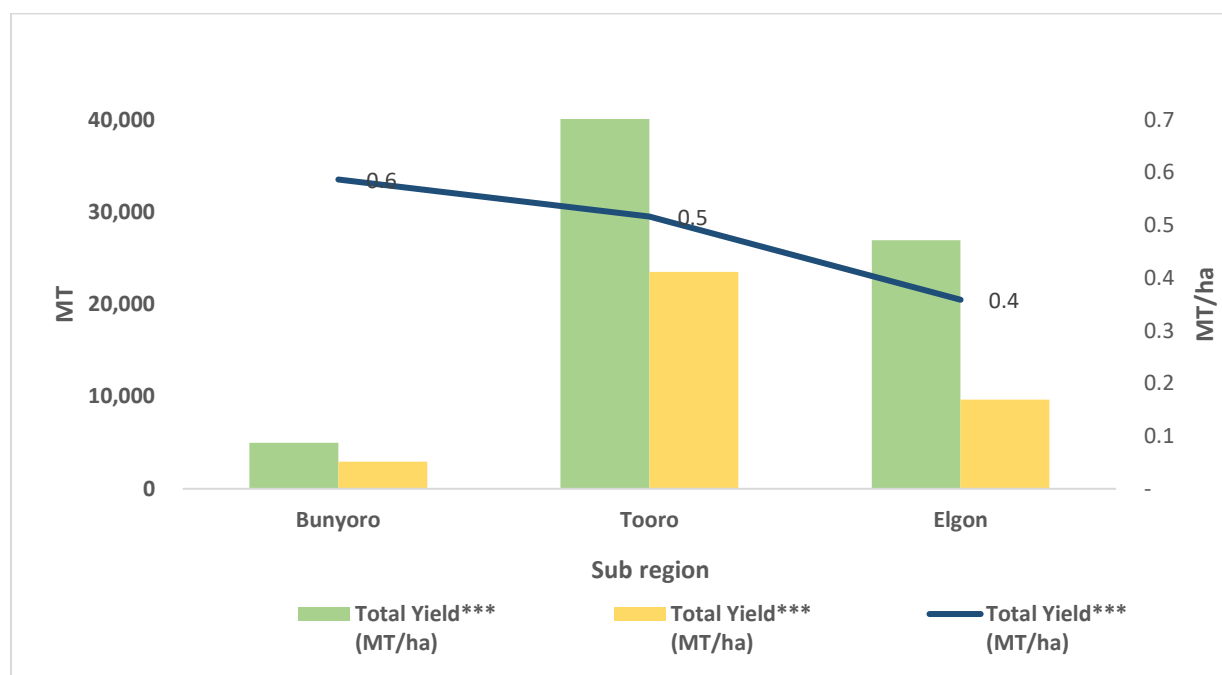
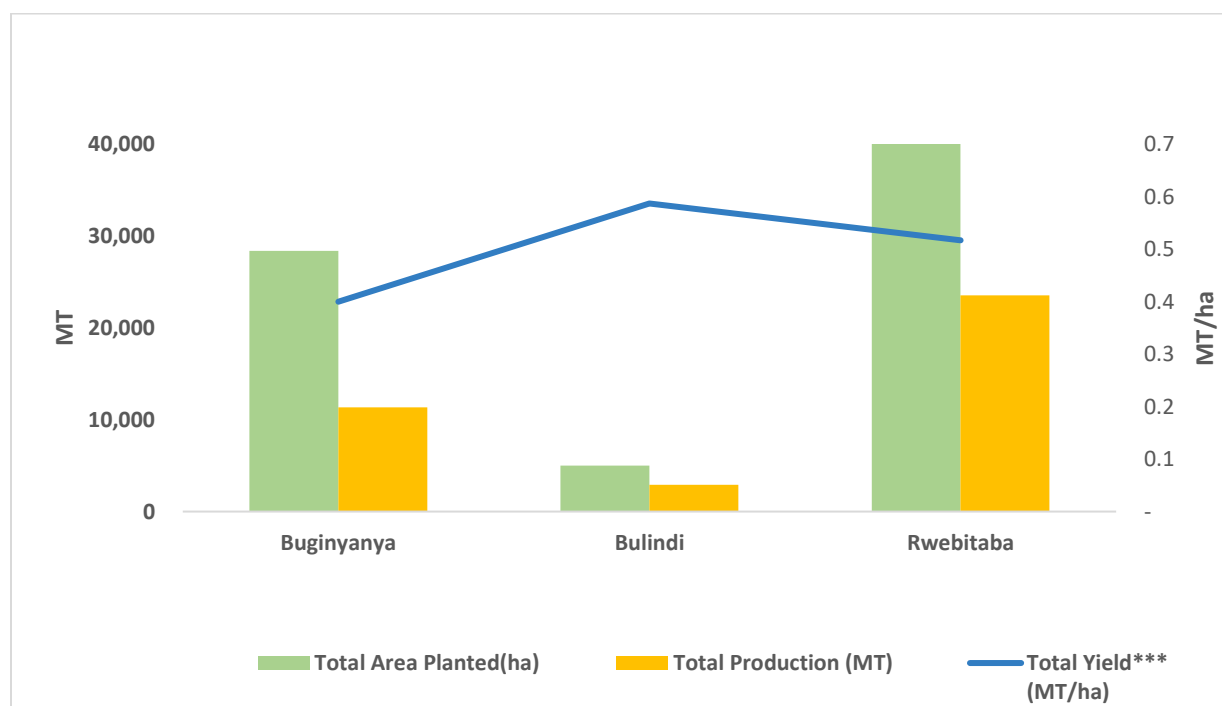


Figure 6:56. Coffee arabica area (ha), production (MT) and yield (MT/ha) by ZARDI





## Annexes

### Annex 1

#### Annex 1.

**Table 1-1: List of districts within the ZARDIs**

| Abi      | Buginyanya | Bulindi     | Kachwekano | Mukono       | Ngetta   | Nabuin        | Serere      | Mbarara    | Rwebitaba  |
|----------|------------|-------------|------------|--------------|----------|---------------|-------------|------------|------------|
| Adjumani | Bugiri     | Hoima       | Kabale     | Kalangala    | Apac     | Kotido        | Katakwi     | Rakai      | Bundibugyo |
| Arua     | Busia      | Kibaale     | Kisoro     | Kiboga       | Gulu     | Moroto        | Kumi        | Ssembabule | Kabarole   |
| Moyo     | Iganga     | Masindi     | Rukungiri  | Luwero       | Kitgum   | Nakapiripirit | Soroti      | Lyantonde  | Kasese     |
| Nebbi    | Jinja      | Buliisa     | Kanungu    | Masaka       | Lira     | Abim          | Kaberamaido | Bushenyi   | Kamwenge   |
| Yumbe    | Kamuli     | Kiryandongo | Rubanda    | Mpigi        | Pader    | Kaabong       | Amuria      | Mbarara    | Kyenjojo   |
| Koboko   | Kapchorwa  | Kagadi      |            | Mubende      | Amolatar | Amudat        | Bukedea     | Ntungamo   | Kyegegwa   |
| Maracha  | Mbale      | Kakumiro    |            | Mukono       | Amuru    | Napak         | Ngora       | Ibanda     |            |
| Zombo    | Pallisa    |             |            | Nakasongola  | Dokolo   |               | Serere      | Isingiro   |            |
|          | Tororo     |             |            | Kayunga      | Oyam     |               |             | Kiruhura   |            |
|          | Mayuge     |             |            | Wakiso       | Agago    |               |             | Buhweju    |            |
|          | Sironko    |             |            | Mityana      | Alebtong |               |             | Mitooma    |            |
|          | Budaka     |             |            | Nakaseke     | Kole     |               |             | Rubirizi   |            |
|          | Bududa     |             |            | Buikwe       | Lamwo    |               |             | Sheema     |            |
|          | Bukwo      |             |            | Bukomansimbi | Nwoya    |               |             |            |            |
|          | Butaleja   |             |            | Butambala    | Otuke    |               |             |            |            |
|          | Kaliro     |             |            | Buvuma       | Omoro    |               |             |            |            |
|          | Manafwa    |             |            | Gomba        |          |               |             |            |            |
|          | Namutumba  |             |            | Kalungu      |          |               |             |            |            |
|          | Bulambuli  |             |            | Kyankwanzi   |          |               |             |            |            |
|          | Buyende    |             |            | Lwengo       |          |               |             |            |            |
|          | Kibuku     |             |            |              |          |               |             |            |            |
|          | Kween      |             |            |              |          |               |             |            |            |
|          | Luuka      |             |            |              |          |               |             |            |            |



**Table 1-2: List of districts within the sub-regions**

| S. Buganda   | N. Buganda  | West Nile | Lango    | Acholi | Kigezi    | Bunyoro     | Tooro      | Busoga    | Teso        | Bukedi   | Elgon     | Karamoja      | Ankole   |
|--------------|-------------|-----------|----------|--------|-----------|-------------|------------|-----------|-------------|----------|-----------|---------------|----------|
| Kalangala    | Kiboga      | Adjumani  | Apac     | Gulu   | Kabale    | Hoima       | Bundibugyo | Bugiri    | Katakwi     | Busia    | Kapchorwa | Kotido        | Bushenyi |
| Masaka       | Luwero      | Arua      | Lira     | Kitgum | Kisoro    | Kibaale     | Kabarole   | Iganga    | Kumi        | Pallisa  | Mbale     | Moroto        | Mbarara  |
| Mpigi        | Mubende     | Moyo      | Amolatar | Pader  | Rukungiri | Masindi     | Kasese     | Jinja     | Soroti      | Tororo   | Sironko   | Nakapiripirit | Ntungamo |
| Rakai        | Mukono      | Nebbi     | Dokolo   | Amuru  | Kanungu   | Buliisa     | Kamwenge   | Kamuli    | Kaberamaido | Budaka   | Bududa    | Abim          | Ibanda   |
| Ssembabule   | Nakasongola | Yumbe     | Oyam     | Agago  | Mitooma   | Kiryandongo | Kyenjojo   | Mayuge    | Amuria      | Butaleja | Bukwo     | Kaabong       | Isingiro |
| Wakiso       | Kayunga     | Koboko    | Alebtong | Lamwo  | Rubirizi  | Kagadi      | Kyegegwa   | Kaliro    | Bukedea     | Kibuku   | Manafwa   | Amudat        | Kiruhura |
| Lyantonde    | Mityana     | Maracha   | Kole     | Nwoya  | Rubanda   | Kakumiro    |            | Namutumba | Ngora       |          | Bulambuli | Napak         | Buhweju  |
| Bukomansimbi | Nakaseke    | Zombo     | Otuke    | Omoro  |           |             |            | Buyende   | Serere      |          | Kween     |               | Sheema   |
| Butambala    | Buikwe      |           |          |        |           |             |            | Luuka     |             |          |           |               |          |
| Gomba        | Buvuma      |           |          |        |           |             |            | Namayingo |             |          |           |               |          |
| Kalungu      | Kyankwanzi  |           |          |        |           |             |            |           |             |          |           |               |          |
| Lwengo       |             |           |          |        |           |             |            |           |             |          |           |               |          |

Table 1-3: Response rate by visit and ZARDI\*

| <b>ZARDI</b>  | <b>Both visits</b> | <b>Post-planting<br/>only</b> | <b>Post-harvesting<br/>only</b> | <b>Complete<br/>non-response</b> | <b>Total</b> | <b>Response rate</b> |
|---------------|--------------------|-------------------------------|---------------------------------|----------------------------------|--------------|----------------------|
| Abi           | 488                | 19                            | 4                               | 17                               | 528          | 95.3                 |
| Buginyanya    | 1,166              | 92                            | 117                             | 137                              | 1,512        | 91.1                 |
| Bulindi       | 464                | 22                            | 22                              | 32                               | 540          | 93.3                 |
| Kachwekano    | 416                | 18                            | 21                              | 25                               | 480          | 99.0                 |
| Mukono        | 783                | 79                            | 51                              | 106                              | 1,019        | 90.6                 |
| Ngetta        | 781                | 16                            | 23                              | 44                               | 864          | 98.5                 |
| Nabuin        | 291                | 10                            | 26                              | 33                               | 360          | 100.0                |
| Serere        | 369                | 17                            | 20                              | 26                               | 432          | 96.1                 |
| Mbarara       | 698                | 34                            | 36                              | 72                               | 840          | 94.4                 |
| Rwebitaba     | 505                | 4                             | 5                               | 26                               | 540          | 97.2                 |
| <b>Uganda</b> | <b>5,961</b>       | <b>311</b>                    | <b>325</b>                      | <b>518</b>                       | <b>7,115</b> | <b>94.5</b>          |

Notes: \*Calculated from the post-planting and post-harvest data of the first season. The figures are un weighted.

Table 1-4: Response rate by visit and sub-region\*

| ZARDI         | Both visits  | Post-planting only | Post-harvesting only | Complete non-response | Total        | Response rate |
|---------------|--------------|--------------------|----------------------|-----------------------|--------------|---------------|
| South Buganda | 428          | 43                 | 28                   | 100                   | 599          | 83.3          |
| North Buganda | 553          | 15                 | 11                   | 21                    | 600          | 96.5          |
| West Nile     | 459          | 34                 | 10                   | 25                    | 528          | 95.3          |
| Lango         | 435          | 5                  | 3                    | 1                     | 444          | 99.8          |
| Acholi        | 377          | 12                 | 19                   | 12                    | 420          | 97.1          |
| Kigezi        | 453          | 14                 | 8                    | 5                     | 480          | 99.0          |
| Bunyoro       | 439          | 50                 | 15                   | 36                    | 540          | 93.3          |
| Tooro         | 522          | 3                  | 0                    | 15                    | 540          | 97.2          |
| Busoga        | 396          | 52                 | 29                   | 99                    | 576          | 82.8          |
| Teso          | 393          | 13                 | 9                    | 17                    | 432          | 96.1          |
| Bukedi        | 434          | 11                 | 11                   | 12                    | 468          | 97.4          |
| Elgon         | 414          | 15                 | 16                   | 23                    | 468          | 95.1          |
| Karamoja      | 353          | 2                  | 5                    | 0                     | 360          | 100.0         |
| Ankole        | 601          | 20                 | 17                   | 22                    | 660          | 96.7          |
| <b>Uganda</b> | <b>6,257</b> | <b>289</b>         | <b>181</b>           | <b>388</b>            | <b>7,115</b> | <b>94.5</b>   |

Notes: \*Calculated from the post-planting and post-harvest data of the first season. The figures are un weighted.

## Annex 2.

Table 2-1: Distribution of agricultural households by ZARDI \*

|               | 2020             |              | 2020             |              | 2020             |              | 2019             |
|---------------|------------------|--------------|------------------|--------------|------------------|--------------|------------------|
|               | First season     |              | Second season    |              | Ag. year         |              | Ag. year         |
|               | Number           | %            | Number           | %            | Number           | %            | Number           |
| Abi           | 486,641          | 7.1          | 517,545          | 7.3          | 517,545          | 7.2          | 505,252          |
| Buginyanya    | 1,491,347        | 21.9         | 1,575,308        | 22.2         | 1,589,452        | 22.1         | 1,492,213        |
| Bulindi       | 454,007          | 6.7          | 502,204          | 7.1          | 505,176          | 7.0          | 487,860          |
| Kachwekano    | 297,461          | 4.4          | 305,390          | 4.3          | 308,540          | 4.3          | 304,804          |
| Mukono        | 1,355,424        | 19.9         | 1,413,533        | 19.9         | 1,421,480        | 19.8         | 1,382,610        |
| Ngetta        | 753,832          | 11.1         | 782,196          | 11.0         | 783,022          | 10.9         | 763,278          |
| Nabuin        | 181,468          | 2.7          | 152,961          | 2.2          | 192,428          | 2.7          | 187,169          |
| Serere        | 364,232          | 5.3          | 379,790          | 5.3          | 379,790          | 5.3          | 363,324          |
| Mbarara       | 831,691          | 12.2         | 876,586          | 12.3         | 878,029          | 12.2         | 867,862          |
| Rwebitaba     | 596,940          | 8.8          | 605,182          | 8.5          | 606,480          | 8.4          | 582,410          |
| <b>Uganda</b> | <b>6,813,044</b> | <b>100.0</b> | <b>7,110,695</b> | <b>100.0</b> | <b>7,181,943</b> | <b>100.0</b> | <b>6,936,782</b> |

Note: \*Calculated on the post-planting and post-harvest data for each season



Table 2-2: Distribution of agricultural households, by sub-region\*

| Sub-region    | First season     |              | Second season    |              | Ag. year         |              |
|---------------|------------------|--------------|------------------|--------------|------------------|--------------|
|               | Total number     | %            | Total number     | %            | Total number     | %            |
| South Buganda | 787,814          | 11.6         | 845,564          | 11.9         | 848,590          | 11.8         |
| North Buganda | 804,882          | 11.8         | 823,596          | 11.6         | 829,960          | 11.6         |
| West Nile     | 486,641          | 7.1          | 517,545          | 7.3          | 517,545          | 7.2          |
| Lango         | 445,709          | 6.5          | 458,390          | 6.4          | 458,390          | 6.4          |
| Acholi        | 308,123          | 4.5          | 323,806          | 4.6          | 324,632          | 4.5          |
| Kigezi        | 297,461          | 4.4          | 305,390          | 4.3          | 308,540          | 4.3          |
| Bunyoro       | 454,007          | 6.7          | 502,204          | 7.1          | 505,176          | 7.0          |
| Tooro         | 596,940          | 8.8          | 605,182          | 8.5          | 606,480          | 8.4          |
| Busoga        | 731,025          | 10.7         | 790,640          | 11.1         | 794,024          | 11.1         |
| Teso          | 364,232          | 5.3          | 379,790          | 5.3          | 379,790          | 5.3          |
| Bukedi        | 379,637          | 5.6          | 393,920          | 5.5          | 393,920          | 5.5          |
| Elgon         | 380,685          | 5.6          | 390,748          | 5.5          | 401,508          | 5.6          |
| Karamoja      | 181,468          | 2.7          | 152,961          | 2.2          | 192,428          | 2.7          |
| Ankole        | 594,420          | 8.7          | 620,959          | 8.7          | 620,959          | 8.6          |
| <b>Uganda</b> | <b>6,813,044</b> | <b>100.0</b> | <b>7,110,695</b> | <b>100.0</b> | <b>7,181,943</b> | <b>100.0</b> |

Note: \* Calculated on the post-planting and post-harvest data for each season.

Table 2-3: Percentage distribution of Agricultural Households by sex of household head and ZARDI\*

| <b>Zardi</b>  | <b>Male-headed HHs</b> | <b>Female-headed HHs</b> | <b>Total</b> |
|---------------|------------------------|--------------------------|--------------|
| Abi           | 70.6                   | 29.4                     | 100.0        |
| Buginyanya    | 82.1                   | 17.9                     | 100.0        |
| Bulindi       | 83.7                   | 16.3                     | 100.0        |
| Kachwekano    | 81.4                   | 18.6                     | 100.0        |
| Mukono        | 73.5                   | 26.5                     | 100.0        |
| Ngetta        | 76.5                   | 23.5                     | 100.0        |
| Nabuin        | 65.2                   | 34.8                     | 100.0        |
| Serere        | 81.2                   | 18.8                     | 100.0        |
| Mbarara       | 74.4                   | 25.6                     | 100.0        |
| Rwebitaba     | 76.9                   | 23.1                     | 100.0        |
| <b>Uganda</b> | <b>77.1</b>            | <b>22.9</b>              | <b>100.0</b> |

Note: \* Obtained from the post-planting and post-harvest data of the first season

Table 2- 4: Percentage distribution of Ag HHs, by sex of household head and sub-region\*

| <b>Sub-region</b> | <b>Male-headed HHs</b> | <b>Female-headed HHs</b> | <b>Total</b> |
|-------------------|------------------------|--------------------------|--------------|
| South Buganda     | 71.5                   | 28.5                     | 100.0        |
| North Buganda     | 75.7                   | 24.3                     | 100.0        |
| West Nile         | 70.6                   | 29.4                     | 100.0        |
| Lango             | 75.6                   | 24.4                     | 100.0        |
| Acholi            | 77.8                   | 22.2                     | 100.0        |
| Kigezi            | 81.4                   | 18.6                     | 100.0        |
| Bunyoro           | 83.7                   | 16.3                     | 100.0        |
| Tooro             | 76.9                   | 23.1                     | 100.0        |
| Busoga            | 81.7                   | 18.3                     | 100.0        |
| Teso              | 81.2                   | 18.8                     | 100.0        |
| Bukedi            | 80.5                   | 19.5                     | 100.0        |
| Elgon             | 84.4                   | 15.6                     | 100.0        |
| Karamoja          | 65.2                   | 34.8                     | 100.0        |
| Ankole            | 74.5                   | 25.5                     | 100.0        |
| <b>Uganda</b>     | <b>77.1</b>            | <b>22.9</b>              | <b>100.0</b> |

Note: \*Obtained from the post-planting and post-harvest data of the first season

Table 2-5: Percentage distribution of literate Agricultural Household heads by sex and ZARDI\*

| <b>ZARDI</b>  | <b>Sex</b>    | <b>Literate</b>  | <b>Illiterate</b> | <b>Total</b>     | <b>% Literate</b> |
|---------------|---------------|------------------|-------------------|------------------|-------------------|
| Abi           | Male          | 288,058          | 55,720            | 343,778          | 83.8              |
|               | Female        | 48,295           | 94,569            | 142,863          | 33.8              |
|               | Total         | 336,353          | 150,289           | 486,641          | 69.1              |
| Buginyanya    | Male          | 895,922          | 324,476           | 1,220,398        | 73.4              |
|               | Female        | 92,935           | 174,588           | 267,523          | 34.7              |
|               | Total         | 988,857          | 499,063           | 1,487,921        | 66.5              |
| Bulindi       | Male          | 275,269          | 104,806           | 380,075          | 72.4              |
|               | Female        | 25,622           | 48,311            | 73,932           | 34.7              |
|               | Total         | 300,890          | 153,117           | 454,007          | 66.3              |
| Kachwekano    | Male          | 204,713          | 37,325            | 242,038          | 84.6              |
|               | Female        | 26,709           | 28,714            | 55,423           | 48.2              |
|               | Total         | 231,422          | 66,039            | 297,461          | 77.8              |
| Mukono        | Male          | 746,482          | 249,885           | 996,367          | 74.9              |
|               | Female        | 211,129          | 147,927           | 359,057          | 58.8              |
|               | Total         | 957,612          | 397,812           | 1,355,424        | 70.7              |
| Ngetta        | Male          | 500,129          | 76,699            | 576,828          | 86.7              |
|               | Female        | 71,187           | 105,817           | 177,003          | 40.2              |
|               | Total         | 571,316          | 182,516           | 753,832          | 75.8              |
| Nabuin        | Male          | 31,644           | 86,605            | 118,249          | 26.8              |
|               | Female        | 5,791            | 57,428            | 63,219           | 9.2               |
|               | Total         | 37,435           | 144,033           | 181,468          | 20.6              |
| Serere        | Male          | 217,296          | 78,325            | 295,621          | 73.5              |
|               | Female        | 23,044           | 45,566            | 68,611           | 33.6              |
|               | Total         | 240,340          | 123,892           | 364,232          | 66.0              |
| Mbarara       | Male          | 511,086          | 108,106           | 619,192          | 82.5              |
|               | Female        | 99,370           | 113,129           | 212,499          | 46.8              |
|               | Total         | 610,456          | 221,235           | 831,691          | 73.4              |
| Rwebitaba     | Male          | 344,836          | 114,271           | 459,107          | 75.1              |
|               | Female        | 67,761           | 70,073            | 137,833          | 49.2              |
|               | Total         | 412,597          | 184,344           | 596,940          | 69.1              |
| <b>Uganda</b> | <b>Male</b>   | <b>4,015,435</b> | <b>1,236,219</b>  | <b>5,251,654</b> | <b>76.5</b>       |
|               | <b>Female</b> | <b>671,843</b>   | <b>886,121</b>    | <b>1,557,964</b> | <b>43.1</b>       |
|               | <b>Total</b>  | <b>4,687,278</b> | <b>2,122,340</b>  | <b>6,809,618</b> | <b>68.8</b>       |

Note: \* Obtained from the post-planting and post-harvest data of the first season. Some Ag HH heads did not respond as to whether they could write or not.

Table 2-6: Percentage distribution of literate Agricultural Household heads by sex and sub-region\*

| Sub-region    | Sex    | Literate | Illiterate | Total   | % Literate |
|---------------|--------|----------|------------|---------|------------|
| South Buganda | Male   | 499,724  | 63,872     | 563,596 | 88.7       |
|               | Female | 152,609  | 71,609     | 224,219 | 68.1       |
|               | Total  | 652,333  | 135,481    | 787,814 | 82.8       |
| North Buganda | Male   | 394,719  | 214,369    | 609,088 | 64.8       |
|               | Female | 89,947   | 105,846    | 195,793 | 45.9       |
|               | Total  | 484,666  | 320,215    | 804,882 | 60.2       |
| West Nile     | Male   | 288,058  | 55,720     | 343,778 | 83.8       |
|               | Female | 48,295   | 94,569     | 142,863 | 33.8       |
|               | Total  | 336,353  | 150,289    | 486,641 | 69.1       |
| Lango         | Male   | 288,961  | 48,147     | 337,108 | 85.7       |
|               | Female | 46,890   | 61,711     | 108,601 | 43.2       |
|               | Total  | 335,851  | 109,858    | 445,709 | 75.4       |
| Acholi        | Male   | 211,168  | 28,552     | 239,720 | 88.1       |
|               | Female | 24,297   | 44,106     | 68,403  | 35.5       |
|               | Total  | 235,465  | 72,658     | 308,123 | 76.4       |
| Kigezi        | Male   | 204,713  | 37,325     | 242,038 | 84.6       |
|               | Female | 26,709   | 28,714     | 55,423  | 48.2       |
|               | Total  | 231,422  | 66,039     | 297,461 | 77.8       |
| Bunyoro       | Male   | 275,269  | 104,806    | 380,075 | 72.4       |
|               | Female | 25,622   | 48,311     | 73,932  | 34.7       |
|               | Total  | 300,890  | 153,117    | 454,007 | 66.3       |
| Tooro         | Male   | 344,836  | 114,271    | 459,107 | 75.1       |
|               | Female | 67,761   | 70,073     | 137,833 | 49.2       |
|               | Total  | 412,597  | 184,344    | 596,940 | 69.1       |
| Busoga        | Male   | 416,311  | 179,948    | 596,259 | 69.8       |
|               | Female | 50,177   | 83,561     | 133,738 | 37.5       |
|               | Total  | 466,488  | 263,509    | 729,997 | 63.9       |

| <b>Sub-region</b> | <b>Sex</b>    | <b>Literate</b>  | <b>Illiterate</b> | <b>Total</b>     | <b>% Literate</b> |
|-------------------|---------------|------------------|-------------------|------------------|-------------------|
| Teso              | Male          | 217,983          | 78,325            | 296,308          | 73.6              |
|                   | Female        | 23,044           | 45,566            | 68,611           | 33.6              |
|                   | Total         | 241,027          | 123,892           | 364,919          | 66.0              |
| Bukedi            | Male          | 217,949          | 87,473            | 305,422          | 71.4              |
|                   | Female        | 19,515           | 54,699            | 74,215           | 26.3              |
|                   | Total         | 237,464          | 142,172           | 379,637          | 62.6              |
| Elgon             | Male          | 261,662          | 57,055            | 318,716          | 82.1              |
|                   | Female        | 23,243           | 36,328            | 59,570           | 39.0              |
|                   | Total         | 284,904          | 93,382            | 378,287          | 75.3              |
| Karamoja          | Male          | 31,644           | 86,605            | 118,249          | 26.8              |
|                   | Female        | 5,791            | 57,428            | 63,219           | 9.2               |
|                   | Total         | 37,435           | 144,033           | 181,468          | 20.6              |
| Ankole            | Male          | 363,125          | 79,750            | 442,876          | 82.0              |
|                   | Female        | 67,943           | 83,601            | 151,544          | 44.8              |
|                   | Total         | 431,069          | 163,351           | 594,420          | 72.5              |
| <b>Uganda</b>     | <b>Male</b>   | <b>4,016,122</b> | <b>1,236,219</b>  | <b>5,252,341</b> | <b>76.5</b>       |
|                   | <b>Female</b> | <b>671,843</b>   | <b>886,121</b>    | <b>1,557,964</b> | <b>43.1</b>       |
|                   | <b>Total</b>  | <b>4,687,965</b> | <b>2,122,340</b>  | <b>6,810,305</b> | <b>68.8</b>       |

Note: \*Obtained from the post-planting (PP) and post-harvest (PH) data of the first season. Some Ag HH heads did not respond as to whether they could write or not.

Table 2-7: Percentage distribution of Agricultural Households by highest educational level, by sex and ZARDI\*

| ZARDI      |         | No Education |      | Primary   |      | Secondary + |      | Total     |       |
|------------|---------|--------------|------|-----------|------|-------------|------|-----------|-------|
|            |         | N            | %    | N         | %    | N           | %    | N         | %     |
| Abi        | Males   | 11,118       | 3.2  | 225,051   | 65.5 | 107,609     | 31.3 | 343,778   | 100.0 |
|            | Females | 52,047       | 36.4 | 70,425    | 49.3 | 20,391      | 14.3 | 142,863   | 100.0 |
|            | Total   | 63,165       | 13.0 | 295,476   | 60.7 | 128,000     | 26.3 | 486,641   | 100.0 |
| Buginyanya | Males   | 81,181       | 6.7  | 683,859   | 56.0 | 455,357     | 37.3 | 1,220,398 | 100.0 |
|            | Females | 67,840       | 25.4 | 172,296   | 64.4 | 27,387      | 10.2 | 267,523   | 100.0 |
|            | Total   | 149,021      | 10.0 | 856,156   | 57.5 | 482,744     | 32.4 | 1,487,921 | 100.0 |
| Bulindi    | Males   | 35,082       | 9.2  | 248,726   | 65.4 | 96,267      | 25.3 | 380,075   | 100.0 |
|            | Females | 28,784       | 38.9 | 39,504    | 53.4 | 5,645       | 7.6  | 73,932    | 100.0 |
|            | Total   | 63,865       | 14.1 | 288,230   | 63.5 | 101,912     | 22.4 | 454,007   | 100.0 |
| Kachwekano | Males   | 27,245       | 11.3 | 137,162   | 56.7 | 77,631      | 32.1 | 242,038   | 100.0 |
|            | Females | 26,073       | 47.0 | 24,934    | 45.0 | 4,417       | 8.0  | 55,423    | 100.0 |
|            | Total   | 53,317       | 17.9 | 162,096   | 54.5 | 82,048      | 27.6 | 297,461   | 100.0 |
| Mukono     | Males   | 86,591       | 8.7  | 520,355   | 52.2 | 389,421     | 39.1 | 996,367   | 100.0 |
|            | Females | 80,390       | 22.4 | 203,037   | 56.5 | 75,629      | 21.1 | 359,057   | 100.0 |
|            | Total   | 166,981      | 12.3 | 723,392   | 53.4 | 465,051     | 34.3 | 1,355,424 | 100.0 |
| Ngetta     | Males   | 24,854       | 4.3  | 333,677   | 57.8 | 218,298     | 37.8 | 576,828   | 100.0 |
|            | Females | 61,114       | 34.5 | 97,012    | 54.8 | 18,878      | 10.7 | 177,003   | 100.0 |
|            | Total   | 85,967       | 11.4 | 430,688   | 57.1 | 237,176     | 31.5 | 753,832   | 100.0 |
| Nabuin     | Males   | 82,886       | 70.1 | 18,542    | 15.7 | 16,821      | 14.2 | 118,249   | 100.0 |
|            | Females | 53,200       | 84.2 | 7,183     | 11.4 | 2,836       | 4.5  | 63,219    | 100.0 |
|            | Total   | 136,086      | 75.0 | 25,725    | 14.2 | 19,658      | 10.8 | 181,468   | 100.0 |
| Serere     | Males   | 20,201       | 6.8  | 171,434   | 58.0 | 103,985     | 35.2 | 295,621   | 100.0 |
|            | Females | 21,571       | 31.4 | 38,395    | 56.0 | 8,644       | 12.6 | 68,611    | 100.0 |
|            | Total   | 41,773       | 11.5 | 209,829   | 57.6 | 112,630     | 30.9 | 364,232   | 100.0 |
| Mbarara    | Males   | 64,121       | 10.4 | 399,481   | 64.5 | 155,590     | 25.1 | 619,192   | 100.0 |
|            | Females | 97,455       | 45.9 | 88,013    | 41.4 | 27,030      | 12.7 | 212,499   | 100.0 |
|            | Total   | 161,577      | 19.4 | 487,494   | 58.6 | 182,620     | 22.0 | 831,691   | 100.0 |
| Rwebitaba  | Males   | 61,712       | 13.4 | 253,620   | 55.2 | 143,775     | 31.3 | 459,107   | 100.0 |
|            | Females | 50,040       | 36.3 | 69,377    | 50.3 | 18,415      | 13.4 | 137,833   | 100.0 |
|            | Total   | 111,752      | 18.7 | 322,997   | 54.1 | 162,191     | 27.2 | 596,940   | 100.0 |
| Uganda     | Males   | 494,991      | 9.4  | 2,991,907 | 57.0 | 1,764,756   | 33.6 | 5,251,654 | 100.0 |
|            | Females | 538,514      | 34.6 | 810,176   | 52.0 | 209,274     | 13.4 | 1,557,964 | 100.0 |
|            | Total   | 1,033,505    | 15.2 | 3,802,084 | 55.8 | 1,974,029   | 29.0 | 6,809,618 | 100.0 |

Notes: \* Obtained from the PP and PH of the first season - Some household heads did not respond as to their highest education level.

Table 2-8: Percentage distribution of Ag HH heads by highest educational level, sex and sub-region\*

| Sub-region    | Sex     | No Education |      | Primary |      | Secondary + |      | Total   |       |
|---------------|---------|--------------|------|---------|------|-------------|------|---------|-------|
|               |         | N            | %    | N       | %    | N           | %    | N       | %     |
| South Buganda | Males   | 28,710       | 5.1  | 319,244 | 56.6 | 215,641     | 38.3 | 563,596 | 100.0 |
|               | Females | 46,158       | 20.6 | 127,849 | 57.0 | 50,212      | 22.4 | 224,219 | 100.0 |
|               | Total   | 74,869       | 9.5  | 447,092 | 56.8 | 265,853     | 33.7 | 787,814 | 100.0 |
| North Buganda | Males   | 69,095       | 11.3 | 313,391 | 51.5 | 226,603     | 37.2 | 609,088 | 100.0 |
|               | Females | 51,969       | 26.5 | 108,747 | 55.5 | 35,078      | 17.9 | 195,793 | 100.0 |
|               | Total   | 121,063      | 15.0 | 422,138 | 52.4 | 261,681     | 32.5 | 804,882 | 100.0 |
| West Nile     | Males   | 11,118       | 3.2  | 225,051 | 65.5 | 107,609     | 31.3 | 343,778 | 100.0 |
|               | Females | 52,047       | 36.4 | 70,425  | 49.3 | 20,391      | 14.3 | 142,863 | 100.0 |
|               | Total   | 63,165       | 13.0 | 295,476 | 60.7 | 128,000     | 26.3 | 486,641 | 100.0 |
| Lango         | Males   | 10,947       | 3.2  | 216,456 | 64.2 | 109,706     | 32.5 | 337,108 | 100.0 |
|               | Females | 31,311       | 28.8 | 64,375  | 59.3 | 12,914      | 11.9 | 108,601 | 100.0 |
|               | Total   | 42,258       | 9.5  | 280,831 | 63.0 | 122,620     | 27.5 | 445,709 | 100.0 |
| Acholi        | Males   | 13,907       | 5.8  | 117,220 | 48.9 | 108,593     | 45.3 | 239,720 | 100.0 |
|               | Females | 29,802       | 43.6 | 32,637  | 47.7 | 5,963       | 8.7  | 68,403  | 100.0 |
|               | Total   | 43,709       | 14.2 | 149,857 | 48.6 | 114,556     | 37.2 | 308,123 | 100.0 |
| Kigezi        | Males   | 27,245       | 11.3 | 137,162 | 56.7 | 77,631      | 32.1 | 242,038 | 100.0 |
|               | Females | 26,073       | 47.0 | 24,934  | 45.0 | 4,417       | 8.0  | 55,423  | 100.0 |
|               | Total   | 53,317       | 17.9 | 162,096 | 54.5 | 82,048      | 27.6 | 297,461 | 100.0 |
| Bunyoro       | Males   | 35,082       | 9.2  | 248,726 | 65.4 | 96,267      | 25.3 | 380,075 | 100.0 |
|               | Females | 28,784       | 38.9 | 39,504  | 53.4 | 5,645       | 7.6  | 73,932  | 100.0 |
|               | Total   | 63,865       | 14.1 | 288,230 | 63.5 | 101,912     | 22.4 | 454,007 | 100.0 |
| Tooro         | Males   | 61,712       | 13.4 | 253,620 | 55.2 | 143,775     | 31.3 | 459,107 | 100.0 |
|               | Females | 50,040       | 36.3 | 69,377  | 50.3 | 18,415      | 13.4 | 137,833 | 100.0 |
|               | Total   | 111,752      | 18.7 | 322,997 | 54.1 | 162,191     | 27.2 | 596,940 | 100.0 |
| Busoga        | Males   | 57,754       | 9.7  | 319,042 | 53.5 | 219,463     | 36.8 | 596,259 | 100.0 |
|               | Females | 34,972       | 26.1 | 82,204  | 61.5 | 16,563      | 12.4 | 133,738 | 100.0 |
|               | Total   | 92,726       | 12.7 | 401,246 | 55.0 | 236,025     | 32.3 | 729,997 | 100.0 |
| Teso          | Males   | 20,201       | 6.8  | 171,434 | 57.9 | 104,672     | 35.3 | 296,308 | 100.0 |
|               | Females | 21,571       | 31.4 | 38,395  | 56.0 | 8,644       | 12.6 | 68,611  | 100.0 |
|               | Total   | 41,773       | 11.4 | 209,829 | 57.5 | 113,317     | 31.1 | 364,919 | 100.0 |
| Bukedi        | Males   | 9,587        | 3.1  | 181,574 | 59.5 | 114,261     | 37.4 | 305,422 | 100.0 |
|               | Females | 18,828       | 25.4 | 52,729  | 71.0 | 2,657       | 3.6  | 74,215  | 100.0 |
|               | Total   | 28,415       | 7.5  | 234,303 | 61.7 | 116,918     | 30.8 | 379,637 | 100.0 |
| Elgon         | Males   | 13,840       | 4.3  | 183,243 | 57.5 | 121,634     | 38.2 | 318,716 | 100.0 |
|               | Females | 14,040       | 23.6 | 37,363  | 62.7 | 8,167       | 13.7 | 59,570  | 100.0 |



| Sub-region | Sex     | No Education |      | Primary   |      | Secondary + |      | Total     |       |
|------------|---------|--------------|------|-----------|------|-------------|------|-----------|-------|
|            |         | N            | %    | N         | %    | N           | %    | N         | %     |
| Karamoja   | Total   | 27,880       | 7.4  | 220,606   | 58.3 | 129,801     | 34.3 | 378,287   | 100.0 |
|            | Males   | 82,886       | 70.1 | 18,542    | 15.7 | 16,821      | 14.2 | 118,249   | 100.0 |
|            | Females | 53,200       | 84.2 | 7,183     | 11.4 | 2,836       | 4.5  | 63,219    | 100.0 |
| Ankole     | Total   | 136,086      | 75.0 | 25,725    | 14.2 | 19,658      | 10.8 | 181,468   | 100.0 |
|            | Males   | 52,908       | 11.9 | 287,201   | 64.8 | 102,767     | 23.2 | 442,876   | 100.0 |
|            | Females | 79,718       | 52.6 | 54,455    | 35.9 | 17,370      | 11.5 | 151,544   | 100.0 |
|            | Total   | 132,626      | 22.3 | 341,656   | 57.5 | 120,137     | 20.2 | 594,420   | 100.0 |
| Uganda     | Males   | 494,991      | 9.4  | 2,991,907 | 57.0 | 1,764,756   | 33.6 | 5,251,654 | 100.0 |
|            | Females | 538,514      | 34.6 | 810,176   | 52.0 | 209,274     | 13.4 | 1,557,964 | 100.0 |
|            | Total   | 1,033,505    | 15.2 | 3,802,084 | 55.8 | 1,974,029   | 29.0 | 6,809,618 | 100.0 |

Notes: \* Obtained from the PP and PH of the first season. Some household heads did not respond as to their highest education level.

Table 2-9: Percentage distribution of Agricultural Household heads by age, sex and ZARDI\*

| ZARDI      | Sex     | 0-24 years old |     | 25-34 years old |      | 35-44 years old |      | 45-64 years old |      | 65 years + |      | Total     |       |
|------------|---------|----------------|-----|-----------------|------|-----------------|------|-----------------|------|------------|------|-----------|-------|
|            |         | N              | %   | N               | %    | N               | %    | N               | %    | N          | %    | N         | %     |
| Abi        | Males   | 24,808         | 7.2 | 92,862          | 27.0 | 81,657          | 23.8 | 107,562         | 31.3 | 36,889     | 10.7 | 343,778   | 100.0 |
|            | Females | 2,056          | 1.4 | 16,331          | 11.4 | 20,948          | 14.7 | 62,314          | 43.6 | 41,215     | 28.8 | 142,863   | 100.0 |
|            | Total   | 26,864         | 5.5 | 109,193         | 22.4 | 102,604         | 21.1 | 169,876         | 34.9 | 78,104     | 16.0 | 486,641   | 100.0 |
| Buginyanya | Males   | 81,645         | 6.7 | 285,685         | 23.3 | 308,590         | 25.2 | 421,031         | 34.4 | 126,872    | 10.4 | 1,223,824 | 100.0 |
|            | Females | 3,574          | 1.3 | 18,098          | 6.8  | 47,741          | 17.8 | 101,993         | 38.1 | 96,117     | 35.9 | 267,523   | 100.0 |
|            | Total   | 85,219         | 5.7 | 303,784         | 20.4 | 356,331         | 23.9 | 523,024         | 35.1 | 222,989    | 15.0 | 1,491,347 | 100.0 |
| Bulindi    | Males   | 37,387         | 9.8 | 91,309          | 24.0 | 90,846          | 23.9 | 127,758         | 33.6 | 32,775     | 8.6  | 380,075   | 100.0 |
|            | Females | 0              | 0.0 | 10,546          | 14.3 | 19,443          | 26.3 | 33,241          | 45.0 | 10,702     | 14.5 | 73,932    | 100.0 |
|            | Total   | 37,387         | 8.2 | 101,856         | 22.4 | 110,289         | 24.3 | 160,998         | 35.5 | 43,477     | 9.6  | 454,007   | 100.0 |
| Kachwekano | Males   | 5,211          | 2.2 | 59,423          | 24.6 | 76,862          | 31.8 | 68,542          | 28.3 | 32,001     | 13.2 | 242,038   | 100.0 |
|            | Females | 0              | 0.0 | 5,514           | 9.9  | 4,040           | 7.3  | 20,550          | 37.1 | 25,320     | 45.7 | 55,423    | 100.0 |
|            | Total   | 5,211          | 1.8 | 64,936          | 21.8 | 80,901          | 27.2 | 89,092          | 30.0 | 57,321     | 19.3 | 297,461   | 100.0 |
| Mukono     | Males   | 27,682         | 2.8 | 187,384         | 18.8 | 247,386         | 24.8 | 437,243         | 43.9 | 96,672     | 9.7  | 996,367   | 100.0 |
|            | Females | 2,995          | 0.8 | 5,156           | 1.4  | 61,486          | 17.1 | 157,545         | 43.9 | 131,874    | 36.7 | 359,057   | 100.0 |
|            | Total   | 30,677         | 2.3 | 192,540         | 14.2 | 308,872         | 22.8 | 594,788         | 43.9 | 228,546    | 16.9 | 1,355,424 | 100.0 |
| Ngetta     | Males   | 33,430         | 5.8 | 157,437         | 27.3 | 144,398         | 25.0 | 179,067         | 31.0 | 62,495     | 10.8 | 576,828   | 100.0 |
|            | Females | 2,157          | 1.2 | 18,192          | 10.3 | 37,652          | 21.3 | 72,848          | 41.2 | 46,154     | 26.1 | 177,003   | 100.0 |
|            | Total   | 35,588         | 4.7 | 175,629         | 23.3 | 182,050         | 24.1 | 251,916         | 33.4 | 108,649    | 14.4 | 753,832   | 100.0 |
| Nabuin     | Males   | 9,130          | 7.7 | 31,431          | 26.6 | 30,633          | 25.9 | 29,108          | 24.6 | 17,946     | 15.2 | 118,249   | 100.0 |
|            | Females | 3,140          | 5.0 | 9,568           | 15.1 | 11,244          | 17.8 | 23,024          | 36.4 | 16,243     | 25.7 | 63,219    | 100.0 |
|            | Total   | 12,270         | 6.8 | 40,999          | 22.6 | 41,877          | 23.1 | 52,132          | 28.7 | 34,190     | 18.8 | 181,468   | 100.0 |
| Serere     | Males   | 5,431          | 1.8 | 74,998          | 25.4 | 85,679          | 29.0 | 99,984          | 33.8 | 29,530     | 10.0 | 295,621   | 100.0 |
|            | Females | 0              | 0.0 | 2,331           | 3.4  | 9,260           | 13.5 | 40,915          | 59.6 | 16,105     | 23.5 | 68,611    | 100.0 |
|            | Total   | 5,431          | 1.5 | 77,328          | 21.2 | 94,939          | 26.1 | 140,899         | 38.7 | 45,635     | 12.5 | 364,232   | 100.0 |
| Mbarara    | Males   | 20,340         | 3.3 | 125,115         | 20.2 | 171,706         | 27.7 | 216,597         | 35.0 | 85,435     | 13.8 | 619,192   | 100.0 |
|            | Females | 2,302          | 1.1 | 18,257          | 8.6  | 29,957          | 14.1 | 83,838          | 39.5 | 78,144     | 36.8 | 212,499   | 100.0 |
|            | Total   | 22,642         | 2.7 | 143,372         | 17.2 | 201,663         | 24.2 | 300,435         | 36.1 | 163,579    | 19.7 | 831,691   | 100.0 |
| Rwebitaba  | Males   | 16,871         | 3.7 | 113,775         | 24.8 | 120,463         | 26.2 | 171,279         | 37.3 | 36,719     | 8.0  | 459,107   | 100.0 |
|            | Females | 2,114          | 1.5 | 7,747           | 5.6  | 24,537          | 17.8 | 60,244          | 43.7 | 43,192     | 31.3 | 137,833   | 100.0 |
|            | Total   | 18,984         | 3.2 | 121,521         | 20.4 | 145,000         | 24.3 | 231,524         | 38.8 | 79,911     | 13.4 | 596,940   | 100.0 |
| Uganda     | Males   | 261,934        | 5.0 | 1,219,419       | 23.2 | 1,358,220       | 25.8 | 1,858,171       | 35.4 | 557,336    | 10.6 | 5,255,080 | 100.0 |
|            | Females | 18,338         | 1.2 | 111,739         | 7.2  | 266,307         | 17.1 | 656,513         | 42.1 | 505,066    | 32.4 | 1,557,964 | 100.0 |
|            | Total   | 280,272        | 4.1 | 1,331,158       | 19.5 | 1,624,528       | 23.8 | 2,514,684       | 36.9 | 1,062,402  | 15.6 | 6,813,044 | 100.0 |

Note: \*Obtained from the PP and PH of the first season

Table 2-10: Percentage distribution of Agricultural Household heads by age, sex and sub-region\*

| Sub-region    | Sex     | 0-24 years |     | 25-34 years |      | 35-44 years |      | 45-64 years |      | 65 years + |      | Total   |       |
|---------------|---------|------------|-----|-------------|------|-------------|------|-------------|------|------------|------|---------|-------|
|               |         | N          | %   | N           | %    | N           | %    | N           | %    | N          | %    | N       | %     |
| South Buganda | Males   | 11,132     | 2.0 | 99,512      | 17.7 | 175,847     | 31.2 | 205,505     | 36.5 | 71,600     | 12.7 | 563,596 | 100.0 |
|               | Females | 1,373      | 0.6 | 3,905       | 1.7  | 42,770      | 19.1 | 104,308     | 46.5 | 71,863     | 32.1 | 224,219 | 100.0 |
|               | Total   | 12,504     | 1.6 | 103,417     | 13.1 | 218,616     | 27.7 | 309,813     | 39.3 | 143,463    | 18.2 | 787,814 | 100.0 |
| North Buganda | Males   | 26,033     | 4.3 | 128,724     | 21.1 | 126,103     | 20.7 | 278,918     | 45.8 | 49,311     | 8.1  | 609,088 | 100.0 |
|               | Females | 1,622      | 0.8 | 4,421       | 2.3  | 29,451      | 15.0 | 86,991      | 44.4 | 73,308     | 37.4 | 195,793 | 100.0 |
|               | Total   | 27,656     | 3.4 | 133,145     | 16.5 | 155,554     | 19.3 | 365,909     | 45.5 | 122,619    | 15.2 | 804,882 | 100.0 |
| West Nile     | Males   | 24,808     | 7.2 | 92,862      | 27.0 | 81,657      | 23.8 | 107,562     | 31.3 | 36,889     | 10.7 | 343,778 | 100.0 |
|               | Females | 2,056      | 1.4 | 16,331      | 11.4 | 20,948      | 14.7 | 62,314      | 43.6 | 41,215     | 28.8 | 142,863 | 100.0 |
|               | Total   | 26,864     | 5.5 | 109,193     | 22.4 | 102,604     | 21.1 | 169,876     | 34.9 | 78,104     | 16.0 | 486,641 | 100.0 |
| Lango         | Males   | 24,531     | 7.3 | 85,201      | 25.3 | 92,292      | 27.4 | 97,597      | 29.0 | 37,487     | 11.1 | 337,108 | 100.0 |
|               | Females | 1,422      | 1.3 | 15,353      | 14.1 | 26,496      | 24.4 | 36,272      | 33.4 | 29,057     | 26.8 | 108,601 | 100.0 |
|               | Total   | 25,953     | 5.8 | 100,554     | 22.6 | 118,788     | 26.7 | 133,869     | 30.0 | 66,544     | 14.9 | 445,709 | 100.0 |
| Acholi        | Males   | 8,899      | 3.7 | 72,236      | 30.1 | 52,106      | 21.7 | 81,470      | 34.0 | 25,009     | 10.4 | 239,720 | 100.0 |
|               | Females | 735        | 1.1 | 2,839       | 4.1  | 11,156      | 16.3 | 36,576      | 53.5 | 17,097     | 25.0 | 68,403  | 100.0 |
|               | Total   | 9,634      | 3.1 | 75,075      | 24.4 | 63,262      | 20.5 | 118,047     | 38.3 | 42,105     | 13.7 | 308,123 | 100.0 |
| Kigezi        | Males   | 5,211      | 2.2 | 59,423      | 24.6 | 76,862      | 31.8 | 68,542      | 28.3 | 32,001     | 13.2 | 242,038 | 100.0 |
|               | Females | 0          | 0.0 | 5,514       | 9.9  | 4,040       | 7.3  | 20,550      | 37.1 | 25,320     | 45.7 | 55,423  | 100.0 |
|               | Total   | 5,211      | 1.8 | 64,936      | 21.8 | 80,901      | 27.2 | 89,092      | 30.0 | 57,321     | 19.3 | 297,461 | 100.0 |
| Bunyoro       | Males   | 37,387     | 9.8 | 91,309      | 24.0 | 90,846      | 23.9 | 127,758     | 33.6 | 32,775     | 8.6  | 380,075 | 100.0 |
|               | Females | 0          | 0.0 | 10,546      | 14.3 | 19,443      | 26.3 | 33,241      | 45.0 | 10,702     | 14.5 | 73,932  | 100.0 |
|               | Total   | 37,387     | 8.2 | 101,856     | 22.4 | 110,289     | 24.3 | 160,998     | 35.5 | 43,477     | 9.6  | 454,007 | 100.0 |
| Tooro         | Males   | 16,871     | 3.7 | 113,775     | 24.8 | 120,463     | 26.2 | 171,279     | 37.3 | 36,719     | 8.0  | 459,107 | 100.0 |
|               | Females | 2,114      | 1.5 | 7,747       | 5.6  | 24,537      | 17.8 | 60,244      | 43.7 | 43,192     | 31.3 | 137,833 | 100.0 |
|               | Total   | 18,984     | 3.2 | 121,521     | 20.4 | 145,000     | 24.3 | 231,524     | 38.8 | 79,911     | 13.4 | 596,940 | 100.0 |
| Busoga        | Males   | 39,337     | 6.6 | 148,203     | 24.8 | 155,983     | 26.1 | 196,815     | 33.0 | 56,949     | 9.5  | 597,287 | 100.0 |
|               | Females | 2,380      | 1.8 | 7,235       | 5.4  | 30,425      | 22.8 | 55,429      | 41.4 | 38,268     | 28.6 | 133,738 | 100.0 |
|               | Total   | 41,717     | 5.7 | 155,439     | 21.3 | 186,409     | 25.5 | 252,244     | 34.5 | 95,217     | 13.0 | 731,025 | 100.0 |
| Teso          | Males   | 5,431      | 1.8 | 74,998      | 25.3 | 85,679      | 28.9 | 100,670     | 34.0 | 29,530     | 10.0 | 296,308 | 100.0 |
|               | Females | 0          | 0.0 | 2,331       | 3.4  | 9,260       | 13.5 | 40,915      | 59.6 | 16,105     | 23.5 | 68,611  | 100.0 |
|               | Total   | 5,431      | 1.5 | 77,328      | 21.2 | 94,939      | 26.0 | 141,586     | 38.8 | 45,635     | 12.5 | 364,919 | 100.0 |
| Bukedi        | Males   | 17,807     | 5.8 | 81,176      | 26.6 | 73,601      | 24.1 | 100,500     | 32.9 | 32,338     | 10.6 | 305,422 | 100.0 |
|               | Females | 1,194      | 1.6 | 4,260       | 5.7  | 11,704      | 15.8 | 25,180      | 33.9 | 31,876     | 43.0 | 74,215  | 100.0 |
|               | Total   | 19,001     | 5.0 | 85,436      | 22.5 | 85,305      | 22.5 | 125,680     | 33.1 | 64,214     | 16.9 | 379,637 | 100.0 |
| Elgon         | Males   | 24,501     | 7.6 | 56,306      | 17.5 | 79,006      | 24.6 | 123,716     | 38.5 | 37,586     | 11.7 | 321,115 | 100.0 |
|               | Females | 0          | 0.0 | 6,603       | 11.1 | 5,612       | 9.4  | 21,384      | 35.9 | 25,972     | 43.6 | 59,570  | 100.0 |
|               | Total   | 24,501     | 6.4 | 62,909      | 16.5 | 84,617      | 22.2 | 145,100     | 38.1 | 63,558     | 16.7 | 380,685 | 100.0 |

| Sub-region | Sex     | 0-24 years |     | 25-34 years |      | 35-44 years |      | 45-64 years |      | 65 years + |      | Total     |       |
|------------|---------|------------|-----|-------------|------|-------------|------|-------------|------|------------|------|-----------|-------|
|            |         | N          | %   | N           | %    | N           | %    | N           | %    | N          | %    | N         | %     |
| Karamoja   | Males   | 9,130      | 7.7 | 31,431      | 26.6 | 30,633      | 25.9 | 29,108      | 24.6 | 17,946     | 15.2 | 118,249   | 100.0 |
|            | Females | 3,140      | 5.0 | 9,568       | 15.1 | 11,244      | 17.8 | 23,024      | 36.4 | 16,243     | 25.7 | 63,219    | 100.0 |
|            | Total   | 12,270     | 6.8 | 40,999      | 22.6 | 41,877      | 23.1 | 52,132      | 28.7 | 34,190     | 18.8 | 181,468   | 100.0 |
| Ankole     | Males   | 10,857     | 2.5 | 84,263      | 19.0 | 117,143     | 26.5 | 169,417     | 38.3 | 61,195     | 13.8 | 442,876   | 100.0 |
|            | Females | 2,302      | 1.5 | 15,088      | 10.0 | 19,222      | 12.7 | 50,084      | 33.0 | 64,847     | 42.8 | 151,544   | 100.0 |
|            | Total   | 13,160     | 2.2 | 99,351      | 16.7 | 136,365     | 22.9 | 219,502     | 36.9 | 126,042    | 21.2 | 594,420   | 100.0 |
| Uganda     | Males   | 261,934    | 5.0 | 1,219,419   | 23.2 | 1,358,220   | 25.8 | 1,858,171   | 35.4 | 557,336    | 10.6 | 5,255,080 | 100.0 |
|            | Females | 18,338     | 1.2 | 111,739     | 7.2  | 266,307     | 17.1 | 656,513     | 42.1 | 505,066    | 32.4 | 1,557,964 | 100.0 |
|            | Total   | 280,272    | 4.1 | 1,331,158   | 19.5 | 1,624,528   | 23.8 | 2,514,684   | 36.9 | 1,062,402  | 15.6 | 6,813,044 | 100.0 |

Note: \*Obtained from the PP and PH of the first season

Table 2-11: Dependency rate by ZARDI\*

| ZARDI         | Individuals aged 0-14 or 65+ | Individuals aged 15-64 |                   | Dependency  |             | Total population  |
|---------------|------------------------------|------------------------|-------------------|-------------|-------------|-------------------|
|               | Number                       | %                      | Number            | %           | %           |                   |
| Abi           | 1,447,638                    | 47.8                   | 1,579,580         | 52.2        | 91.6        | 3,027,218         |
| Buginyanya    | 4,367,057                    | 49.4                   | 4,465,787         | 50.6        | 97.8        | 8,832,844         |
| Bulindi       | 1,318,577                    | 47.5                   | 1,459,073         | 52.5        | 90.4        | 2,777,650         |
| Kachwekano    | 752,184                      | 46.2                   | 874,401           | 53.8        | 86.0        | 1,626,586         |
| Mukono        | 3,922,670                    | 49.4                   | 4,013,486         | 50.6        | 97.7        | 7,936,156         |
| Ngetta        | 2,001,668                    | 46.5                   | 2,306,248         | 53.5        | 86.8        | 4,307,916         |
| Nabuin        | 514,020                      | 56.6                   | 394,529           | 43.4        | 130.3       | 908,549           |
| Mbarara       | 1,186,129                    | 45.8                   | 1,403,152         | 54.2        | 84.5        | 2,589,281         |
| Rwebitaba     | 2,258,979                    | 47.3                   | 2,512,625         | 52.7        | 89.9        | 4,771,605         |
| Serere        | 1,577,942                    | 46.8                   | 1,793,824         | 53.2        | 88.0        | 3,371,767         |
| <b>Uganda</b> | <b>19,347,826</b>            | <b>48.2</b>            | <b>20,805,775</b> | <b>51.8</b> | <b>93.0</b> | <b>40,153,601</b> |

Note: \*Obtained from the PP and PH of the first season.

Table 2-12: Dependency rate by sub-region\*

| Sub-region    | Individuals aged 0-14 or 65+ | Individuals aged 15-64 |                   | Dependency rate |             | Total population  |
|---------------|------------------------------|------------------------|-------------------|-----------------|-------------|-------------------|
|               | Number                       | %                      | Number            | %               | %           |                   |
| South Buganda | 2,261,299                    | 49.5                   | 2,311,379         | 50.5            | 97.8        | 4,572,678         |
| North Buganda | 2,337,911                    | 49.6                   | 2,379,175         | 50.4            | 98.3        | 4,717,086         |
| West Nile     | 1,447,638                    | 47.8                   | 1,579,580         | 52.2            | 91.6        | 3,027,218         |
| Lango         | 1,075,841                    | 46.0                   | 1,261,587         | 54.0            | 85.3        | 2,337,428         |
| Acholi        | 925,827                      | 47.0                   | 1,044,661         | 53.0            | 88.6        | 1,970,488         |
| Kigezi        | 752,184                      | 46.2                   | 874,401           | 53.8            | 86.0        | 1,626,586         |
| Bunyoro       | 1,318,577                    | 47.5                   | 1,459,073         | 52.5            | 90.4        | 2,777,650         |
| Tooro         | 1,577,942                    | 46.8                   | 1,793,824         | 53.2            | 88.0        | 3,371,767         |
| Busoga        | 2,185,887                    | 50.5                   | 2,143,164         | 49.5            | 102.0       | 4,329,051         |
| Teso          | 1,188,876                    | 45.8                   | 1,407,272         | 54.2            | 84.5        | 2,596,149         |
| Bukedi        | 1,145,027                    | 50.0                   | 1,143,994         | 50.0            | 100.1       | 2,289,022         |
| Elgon         | 1,036,143                    | 46.8                   | 1,178,629         | 53.2            | 87.9        | 2,214,772         |
| Karamoja      | 511,390                      | 56.5                   | 393,477           | 43.5            | 130.0       | 904,867           |
| Ankole        | 1,583,283                    | 46.3                   | 1,835,559         | 53.7            | 86.3        | 3,418,841         |
| <b>Uganda</b> | <b>19,347,826</b>            | <b>48.2</b>            | <b>20,805,775</b> | <b>51.8</b>     | <b>93.0</b> | <b>40,153,601</b> |

Note: \*Obtained from the PP and PH of the first season

Table 2-13: Percentage distribution of Agricultural Household heads by sex, main economic activity and ZARDI\*

| ZARDI         | Male headed           |                           |              | Female headed         |                           |              | All heads             |                           |              |
|---------------|-----------------------|---------------------------|--------------|-----------------------|---------------------------|--------------|-----------------------|---------------------------|--------------|
|               | Mainly in agriculture | Mainly in non-agriculture | Total        | Mainly in agriculture | Mainly in non-agriculture | Total        | Mainly in agriculture | Mainly in non-agriculture | Total        |
| Abi           | 87.6                  | 12.4                      | 100.0        | 96.0                  | 4.0                       | 100.0        | 90.1                  | 9.9                       | 100.0        |
| Buginyanya    | 65.1                  | 34.9                      | 100.0        | 86.0                  | 14.0                      | 100.0        | 68.9                  | 31.1                      | 100.0        |
| Bulindi       | 80.1                  | 19.9                      | 100.0        | 87.8                  | 12.2                      | 100.0        | 81.4                  | 18.6                      | 100.0        |
| Kachwekano    | 63.7                  | 36.3                      | 100.0        | 87.4                  | 12.6                      | 100.0        | 68.1                  | 31.9                      | 100.0        |
| Mukono        | 62.2                  | 37.8                      | 100.0        | 77.8                  | 22.2                      | 100.0        | 66.4                  | 33.6                      | 100.0        |
| Ngetta        | 79.6                  | 20.4                      | 100.0        | 89.0                  | 11.0                      | 100.0        | 81.8                  | 18.2                      | 100.0        |
| Nabuin        | 82.5                  | 17.5                      | 100.0        | 94.2                  | 5.8                       | 100.0        | 86.6                  | 13.4                      | 100.0        |
| Serere        | 91.6                  | 8.4                       | 100.0        | 95.3                  | 4.7                       | 100.0        | 92.3                  | 7.7                       | 100.0        |
| Mbarara       | 68.8                  | 31.2                      | 100.0        | 85.3                  | 14.7                      | 100.0        | 73.0                  | 27.0                      | 100.0        |
| Rwebitaba     | 84.4                  | 15.6                      | 100.0        | 92.5                  | 7.5                       | 100.0        | 86.3                  | 13.7                      | 100.0        |
| <b>Uganda</b> | <b>72.6</b>           | <b>27.4</b>               | <b>100.0</b> | <b>86.7</b>           | <b>13.3</b>               | <b>100.0</b> | <b>75.9</b>           | <b>24.1</b>               | <b>100.0</b> |

Note: \*This table is extracted from the first season PP and PH data sets.

Table 2-14: Percentage distribution of Agricultural Household heads by sex, main economic activity and sub-region\*

| Sub-region    | Male headed           |                           |              | Female headed         |                           |              | All heads             |                           |              |
|---------------|-----------------------|---------------------------|--------------|-----------------------|---------------------------|--------------|-----------------------|---------------------------|--------------|
|               | Mainly in agriculture | Mainly in non-agriculture | Total        | Mainly in agriculture | Mainly in non-agriculture | Total        | Mainly in agriculture | Mainly in non-agriculture | Total        |
| South Buganda | 51.9                  | 48.1                      | 100.0        | 70.8                  | 29.2                      | 100.0        | 57.3                  | 42.7                      | 100.0        |
| North Buganda | 70.9                  | 29.1                      | 100.0        | 86.9                  | 13.1                      | 100.0        | 74.8                  | 25.2                      | 100.0        |
| West Nile     | 87.6                  | 12.4                      | 100.0        | 96.0                  | 4.0                       | 100.0        | 90.1                  | 9.9                       | 100.0        |
| Lango         | 79.1                  | 20.9                      | 100.0        | 91.4                  | 8.6                       | 100.0        | 82.1                  | 17.9                      | 100.0        |
| Acholi        | 80.4                  | 19.6                      | 100.0        | 85.1                  | 14.9                      | 100.0        | 81.4                  | 18.6                      | 100.0        |
| Kigezi        | 63.7                  | 36.3                      | 100.0        | 87.4                  | 12.6                      | 100.0        | 68.1                  | 31.9                      | 100.0        |
| Bunyoro       | 80.1                  | 19.9                      | 100.0        | 87.8                  | 12.2                      | 100.0        | 81.4                  | 18.6                      | 100.0        |
| Tooro         | 84.4                  | 15.6                      | 100.0        | 92.5                  | 7.5                       | 100.0        | 86.3                  | 13.7                      | 100.0        |
| Busoga        | 63.5                  | 36.5                      | 100.0        | 83.3                  | 16.7                      | 100.0        | 67.1                  | 32.9                      | 100.0        |
| Teso          | 91.6                  | 8.4                       | 100.0        | 95.3                  | 4.7                       | 100.0        | 92.3                  | 7.7                       | 100.0        |
| Bukedi        | 65.6                  | 34.4                      | 100.0        | 86.9                  | 13.1                      | 100.0        | 69.8                  | 30.2                      | 100.0        |
| Elgon         | 67.7                  | 32.3                      | 100.0        | 90.9                  | 9.1                       | 100.0        | 71.3                  | 28.7                      | 100.0        |
| Karamoja      | 82.5                  | 17.5                      | 100.0        | 94.2                  | 5.8                       | 100.0        | 86.6                  | 13.4                      | 100.0        |
| Ankole        | 72.5                  | 27.5                      | 100.0        | 87.1                  | 12.9                      | 100.0        | 76.2                  | 23.8                      | 100.0        |
| <b>Uganda</b> | <b>72.6</b>           | <b>27.4</b>               | <b>100.0</b> | <b>86.7</b>           | <b>13.3</b>               | <b>100.0</b> | <b>75.9</b>           | <b>24.1</b>               | <b>100.0</b> |

Note: \*This table is extracted from the first season PP and PH data sets.



Table 2-15: Percentage distribution of Agricultural Household heads by employment status, sex and ZARDI\*

| ZARDI         | Sex            | Own account<br>worker | Employer   | Salaried<br>worker | Task<br>worker | Unpaid family<br>member | Trainee/<br>volunteer | Member of a<br>cooperative | Total        |
|---------------|----------------|-----------------------|------------|--------------------|----------------|-------------------------|-----------------------|----------------------------|--------------|
| Abi           | Males          | 90.0                  | 0.2        | 6.1                | 2.2            | 1.5                     | 0.0                   | 0.0                        | 100.0        |
|               | Females        | 96.7                  | 0.0        | 1.6                | 0.0            | 1.6                     | 0.0                   | 0.0                        | 100.0        |
|               | Total          | 92.0                  | 0.1        | 4.8                | 1.5            | 1.5                     | 0.0                   | 0.0                        | 100.0        |
| Buginyanya    | Males          | 79.4                  | 0.1        | 9.9                | 6.7            | 3.7                     | 0.2                   | 0.0                        | 100.0        |
|               | Females        | 93.1                  | 0.0        | 2.1                | 0.0            | 4.8                     | 0.0                   | 0.0                        | 100.0        |
|               | Total          | 81.9                  | 0.1        | 8.5                | 5.5            | 3.9                     | 0.1                   | 0.0                        | 100.0        |
| Bulindi       | Males          | 90.1                  | 1.5        | 6.3                | 2.1            | 0.0                     | 0.0                   | 0.0                        | 100.0        |
|               | Females        | 94.0                  | 3.7        | 2.2                | 0.0            | 0.0                     | 0.0                   | 0.0                        | 100.0        |
|               | Total          | 90.8                  | 1.8        | 5.6                | 1.8            | 0.0                     | 0.0                   | 0.0                        | 100.0        |
| Kachwekano    | Males          | 63.1                  | 5.5        | 14.8               | 16.3           | 0.3                     | 0.0                   | 0.0                        | 100.0        |
|               | Females        | 93.9                  | 1.2        | 1.9                | 0.5            | 2.5                     | 0.0                   | 0.0                        | 100.0        |
|               | Total          | 68.7                  | 4.7        | 12.5               | 13.4           | 0.7                     | 0.0                   | 0.0                        | 100.0        |
| Mukono        | Males          | 87.0                  | 0.5        | 8.0                | 4.3            | 0.1                     | 0.0                   | 0.1                        | 100.0        |
|               | Females        | 97.9                  | 0.4        | 1.7                | 0.0            | 0.0                     | 0.0                   | 0.0                        | 100.0        |
|               | Total          | 89.7                  | 0.5        | 6.4                | 3.2            | 0.1                     | 0.0                   | 0.1                        | 100.0        |
| Ngetta        | Males          | 86.2                  | 0.0        | 8.1                | 2.5            | 3.2                     | 0.0                   | 0.0                        | 100.0        |
|               | Females        | 91.1                  | 0.0        | 0.6                | 1.0            | 7.3                     | 0.0                   | 0.0                        | 100.0        |
|               | Total          | 87.3                  | 0.0        | 6.3                | 2.1            | 4.2                     | 0.0                   | 0.0                        | 100.0        |
| Nabuin        | Males          | 94.9                  | 0.0        | 3.0                | 1.7            | 0.5                     | 0.0                   | 0.0                        | 100.0        |
|               | Females        | 96.8                  | 0.0        | 1.7                | 0.0            | 1.6                     | 0.0                   | 0.0                        | 100.0        |
|               | Total          | 95.6                  | 0.0        | 2.5                | 1.1            | 0.8                     | 0.0                   | 0.0                        | 100.0        |
| Serere        | Males          | 92.5                  | 0.0        | 5.8                | 0.6            | 1.1                     | 0.0                   | 0.0                        | 100.0        |
|               | Females        | 96.7                  | 0.0        | 3.3                | 0.0            | 0.0                     | 0.0                   | 0.0                        | 100.0        |
|               | Total          | 93.3                  | 0.0        | 5.3                | 0.5            | 0.9                     | 0.0                   | 0.0                        | 100.0        |
| Mbarara       | Males          | 76.7                  | 2.7        | 7.8                | 12.9           | 0.0                     | 0.0                   | 0.0                        | 100.0        |
|               | Females        | 93.1                  | 0.0        | 4.1                | 2.9            | 0.0                     | 0.0                   | 0.0                        | 100.0        |
|               | Total          | 80.8                  | 2.0        | 6.9                | 10.4           | 0.0                     | 0.0                   | 0.0                        | 100.0        |
| Rwebitaba     | Males          | 88.3                  | 3.2        | 6.0                | 2.5            | 0.0                     | 0.0                   | 0.0                        | 100.0        |
|               | Females        | 95.8                  | 1.4        | 2.8                | 0.0            | 0.0                     | 0.0                   | 0.0                        | 100.0        |
|               | Total          | 90.0                  | 2.8        | 5.3                | 2.0            | 0.0                     | 0.0                   | 0.0                        | 100.0        |
|               | <b>Males</b>   | <b>83.9</b>           | <b>1.1</b> | <b>8.1</b>         | <b>5.5</b>     | <b>1.4</b>              | <b>0.0</b>            | <b>0.0</b>                 | <b>100.0</b> |
|               | <b>Females</b> | <b>94.9</b>           | <b>0.4</b> | <b>2.2</b>         | <b>0.5</b>     | <b>2.0</b>              | <b>0.0</b>            | <b>0.0</b>                 | <b>100.0</b> |
|               | <b>Total</b>   | <b>86.4</b>           | <b>0.9</b> | <b>6.7</b>         | <b>4.4</b>     | <b>1.5</b>              | <b>0.0</b>            | <b>0.0</b>                 | <b>100.0</b> |
| <b>Uganda</b> |                |                       |            |                    |                |                         |                       |                            |              |

Notes: \*Table extracted from the PP first season data set.

Table 2-16: Percentage distribution of Agricultural Household heads by employment status, sex and sub-region\*

| Sub-region    | Sex     | Own account worker | Employer | Salaried worker | Task worker | Unpaid family member | Trainee/volunteer | Member of a cooperative | Total |
|---------------|---------|--------------------|----------|-----------------|-------------|----------------------|-------------------|-------------------------|-------|
| South Buganda | Males   | 84.0               | 3.0      | 5.6             | 6.9         | 0.2                  | 0.0               | 0.2                     | 100.0 |
|               | Females | 97.4               | 0.0      | 2.2             | 0.4         | 0.0                  | 0.0               | 0.0                     | 100.0 |
|               | Total   | 87.7               | 2.2      | 4.7             | 5.1         | 0.2                  | 0.0               | 0.2                     | 100.0 |
| North Buganda | Males   | 88.4               | 0.6      | 8.8             | 2.2         | 0.0                  | 0.0               | 0.0                     | 100.0 |
|               | Females | 97.2               | 0.8      | 2.0             | 0.0         | 0.0                  | 0.0               | 0.0                     | 100.0 |
|               | Total   | 90.4               | 0.6      | 7.3             | 1.7         | 0.0                  | 0.0               | 0.0                     | 100.0 |
| West Nile     | Males   | 90.0               | 0.2      | 6.1             | 2.2         | 1.5                  | 0.0               | 0.0                     | 100.0 |
|               | Females | 96.7               | 0.0      | 1.6             | 0.0         | 1.6                  | 0.0               | 0.0                     | 100.0 |
|               | Total   | 92.0               | 0.1      | 4.8             | 1.5         | 1.5                  | 0.0               | 0.0                     | 100.0 |
| Lango         | Males   | 84.3               | 0.0      | 8.5             | 1.7         | 5.5                  | 0.0               | 0.0                     | 100.0 |
|               | Females | 85.5               | 0.0      | 1.0             | 1.6         | 11.9                 | 0.0               | 0.0                     | 100.0 |
|               | Total   | 84.6               | 0.0      | 6.7             | 1.7         | 7.0                  | 0.0               | 0.0                     | 100.0 |
| Achoi         | Males   | 88.9               | 0.0      | 7.5             | 3.6         | 0.0                  | 0.0               | 0.0                     | 100.0 |
|               | Females | 100.0              | 0.0      | 0.0             | 0.0         | 0.0                  | 0.0               | 0.0                     | 100.0 |
|               | Total   | 91.4               | 0.0      | 5.8             | 2.8         | 0.0                  | 0.0               | 0.0                     | 100.0 |
| Kigezi        | Males   | 63.1               | 5.5      | 14.8            | 16.3        | 0.3                  | 0.0               | 0.0                     | 100.0 |
|               | Females | 93.9               | 1.2      | 1.9             | 0.5         | 2.5                  | 0.0               | 0.0                     | 100.0 |
|               | Total   | 68.7               | 4.7      | 12.5            | 13.4        | 0.7                  | 0.0               | 0.0                     | 100.0 |
| Bunyoro       | Males   | 90.1               | 1.5      | 6.3             | 2.1         | 0.0                  | 0.0               | 0.0                     | 100.0 |
|               | Females | 94.0               | 3.7      | 2.2             | 0.0         | 0.0                  | 0.0               | 0.0                     | 100.0 |
|               | Total   | 90.8               | 1.8      | 5.6             | 1.8         | 0.0                  | 0.0               | 0.0                     | 100.0 |
| Tooro         | Males   | 88.3               | 3.2      | 6.0             | 2.5         | 0.0                  | 0.0               | 0.0                     | 100.0 |
|               | Females | 95.8               | 1.4      | 2.8             | 0.0         | 0.0                  | 0.0               | 0.0                     | 100.0 |
|               | Total   | 90.0               | 2.8      | 5.3             | 2.0         | 0.0                  | 0.0               | 0.0                     | 100.0 |
| Busoga        | Males   | 84.9               | 0.0      | 9.5             | 5.2         | 0.0                  | 0.4               | 0.0                     | 100.0 |
|               | Females | 97.7               | 0.0      | 2.3             | 0.0         | 0.0                  | 0.0               | 0.0                     | 100.0 |
|               | Total   | 87.2               | 0.0      | 8.2             | 4.3         | 0.0                  | 0.3               | 0.0                     | 100.0 |
| Teso          | Males   | 92.5               | 0.0      | 5.7             | 0.6         | 1.1                  | 0.0               | 0.0                     | 100.0 |
|               | Females | 96.7               | 0.0      | 3.3             | 0.0         | 0.0                  | 0.0               | 0.0                     | 100.0 |
|               | Total   | 93.3               | 0.0      | 5.3             | 0.5         | 0.9                  | 0.0               | 0.0                     | 100.0 |
| Bukedi        | Males   | 79.8               | 0.3      | 12.1            | 7.7         | 0.0                  | 0.0               | 0.0                     | 100.0 |
|               | Females | 100.0              | 0.0      | 0.0             | 0.0         | 0.0                  | 0.0               | 0.0                     | 100.0 |
|               | Total   | 83.7               | 0.3      | 9.8             | 6.3         | 0.0                  | 0.0               | 0.0                     | 100.0 |
| Elgon         | Males   | 68.8               | 0.0      | 8.4             | 8.7         | 14.1                 | 0.0               | 0.0                     | 100.0 |
|               | Females | 74.6               | 0.0      | 4.1             | 0.0         | 21.3                 | 0.0               | 0.0                     | 100.0 |
|               | Total   | 69.7               | 0.0      | 7.7             | 7.3         | 15.2                 | 0.0               | 0.0                     | 100.0 |

| Sub-region | Sex            | Own account worker | Employer   | Salaried worker | Task worker | Unpaid family member | Trainee/volunteer | Member of a cooperative | Total        |
|------------|----------------|--------------------|------------|-----------------|-------------|----------------------|-------------------|-------------------------|--------------|
| Karamoja   | Males          | 94.9               | 0.0        | 3.0             | 1.7         | 0.5                  | 0.0               | 0.0                     | 100.0        |
|            | Females        | 96.8               | 0.0        | 1.7             | 0.0         | 1.6                  | 0.0               | 0.0                     | 100.0        |
|            | Total          | 95.6               | 0.0        | 2.5             | 1.1         | 0.8                  | 0.0               | 0.0                     | 100.0        |
| Ankole     | Males          | 74.4               | 0.2        | 9.7             | 15.7        | 0.0                  | 0.0               | 0.0                     | 100.0        |
|            | Females        | 92.7               | 0.0        | 3.8             | 3.5         | 0.0                  | 0.0               | 0.0                     | 100.0        |
|            | Total          | 78.9               | 0.2        | 8.3             | 12.7        | 0.0                  | 0.0               | 0.0                     | 100.0        |
| Uganda     | <b>Males</b>   | <b>83.9</b>        | <b>1.1</b> | <b>8.1</b>      | <b>5.5</b>  | <b>1.4</b>           | <b>0.0</b>        | <b>0.0</b>              | <b>100.0</b> |
|            | <b>Females</b> | <b>94.9</b>        | <b>0.4</b> | <b>2.2</b>      | <b>0.5</b>  | <b>2.0</b>           | <b>0.0</b>        | <b>0.0</b>              | <b>100.0</b> |
|            | <b>Total</b>   | <b>86.4</b>        | <b>0.9</b> | <b>6.7</b>      | <b>4.4</b>  | <b>1.5</b>           | <b>0.0</b>        | <b>0.0</b>              | <b>100.0</b> |

Notes: \*Table extracted from the PP first season data set

## Annex 3.

### Note:

All the tables in this Annex were extracted from data collected in the second season of the agricultural year 2020 and, therefore, refer to the second season.

Table 3-1: Number of parcels and average parcel size (Hectare) by ZARDI \*

| ZARDI         | Average number of parcels |             |             |             | Total number of parcels |                |                   |                   | Average parcel size |             |             |             |
|---------------|---------------------------|-------------|-------------|-------------|-------------------------|----------------|-------------------|-------------------|---------------------|-------------|-------------|-------------|
|               | Mean                      | SE**        | Lower 95    | Upper 95    | Total                   | SE**           | Lower 95          | Upper 95          | Mean                | SE**        | Lower 95    | Upper 95    |
| Abi           | 2.61                      | 0.09        | 2.43        | 2.79        | 1,334,970               | 83,476         | 1,171,012         | 1,498,928         | 0.56                | 0.08        | 0.41        | 0.71        |
| Buginyanya    | 1.93                      | 0.04        | 1.85        | 2.00        | 2,864,577               | 124,354        | 2,620,330         | 3,108,824         | 0.37                | 0.02        | 0.34        | 0.40        |
| Bulindi       | 1.87                      | 0.05        | 1.77        | 1.97        | 862,533                 | 64,241         | 736,355           | 988,710           | 0.78                | 0.07        | 0.65        | 0.91        |
| Kachwekano    | 2.78                      | 0.10        | 2.57        | 2.98        | 838,597                 | 48,544         | 743,251           | 933,943           | 0.19                | 0.03        | 0.13        | 0.25        |
| Mukono        | 1.81                      | 0.04        | 1.73        | 1.89        | 2,448,466               | 144,837        | 2,163,987         | 2,732,945         | 0.68                | 0.07        | 0.55        | 0.81        |
| Ngetta        | 2.47                      | 0.06        | 2.35        | 2.58        | 1,881,733               | 100,408        | 1,684,519         | 2,078,948         | 1.02                | 0.11        | 0.81        | 1.23        |
| Nabuin        | 1.02                      | 0.01        | 0.99        | 1.04        | 87,179                  | 10,337         | 66,876            | 107,482           | 0.58                | 0.39        | -0.19       | 1.35        |
| Serere        | 1.58                      | 0.05        | 1.49        | 1.67        | 590,025                 | 33,197         | 524,822           | 655,229           | 1.17                | 0.19        | 0.81        | 1.54        |
| Mbarara       | 2.13                      | 0.07        | 2.00        | 2.25        | 1,784,787               | 108,719        | 1,571,248         | 1,998,325         | 0.52                | 0.08        | 0.36        | 0.68        |
| Rwebitaba     | 1.86                      | 0.06        | 1.74        | 1.98        | 1,122,543               | 74,289         | 976,630           | 1,268,457         | 0.43                | 0.02        | 0.39        | 0.48        |
| <b>Uganda</b> | <b>2.04</b>               | <b>0.02</b> | <b>2.00</b> | <b>2.07</b> | <b>13,815,410</b>       | <b>254,079</b> | <b>13,500,000</b> | <b>14,500,000</b> | <b>0.61</b>         | <b>0.03</b> | <b>0.56</b> | <b>0.66</b> |

Notes: \* The Table is extracted from the PP and PH second season data set. \*\* Standard error

Table 3-2: Number of parcels and average parcel size (Hectare) by sub-region \*

| Sub-region    | Average number of parcels |             |             |             | Total number of parcels |                |                   |                   | Average parcel size |             |             |             |
|---------------|---------------------------|-------------|-------------|-------------|-------------------------|----------------|-------------------|-------------------|---------------------|-------------|-------------|-------------|
|               | Mean                      | SE**        | Lower<br>95 | Upper<br>95 | Total                   | SE**           | Lower<br>95       | Upper<br>95       | Mean                | SE**        | Lower<br>95 | Upper<br>95 |
| S. Buganda    | 1.61                      | 0.05        | 1.50        | 1.71        | 1,276,486               | 69,814         | 1,139,362         | 1,413,610         | 0.53                | 0.06        | 0.42        | 0.64        |
| N. Buganda    | 1.94                      | 0.05        | 1.85        | 2.04        | 1,554,906               | 100,642        | 1,357,232         | 1,752,580         | 0.77                | 0.10        | 0.58        | 0.96        |
| West Nile     | 2.61                      | 0.09        | 2.43        | 2.79        | 1,334,970               | 83,476         | 1,171,012         | 1,498,928         | 0.56                | 0.08        | 0.41        | 0.71        |
| Lango         | 1.96                      | 0.07        | 1.83        | 2.09        | 889,662                 | 49,184         | 793,058           | 986,266           | 0.67                | 0.06        | 0.56        | 0.78        |
| Acholi        | 3.21                      | 0.09        | 3.03        | 3.39        | 992,071                 | 87,537         | 820,137           | 1,164,005         | 1.33                | 0.19        | 0.97        | 1.70        |
| Kigezi        | 2.78                      | 0.10        | 2.57        | 2.98        | 838,597                 | 48,544         | 743,251           | 933,943           | 0.19                | 0.03        | 0.13        | 0.25        |
| Bunyoro       | 1.87                      | 0.05        | 1.77        | 1.97        | 862,533                 | 64,241         | 736,355           | 988,710           | 0.78                | 0.07        | 0.65        | 0.91        |
| Tooro         | 1.86                      | 0.06        | 1.74        | 1.98        | 1,122,543               | 74,289         | 976,630           | 1,268,457         | 0.43                | 0.02        | 0.39        | 0.48        |
| Busoga        | 1.74                      | 0.04        | 1.67        | 1.81        | 1,268,999               | 90,487         | 1,091,272         | 1,446,727         | 0.47                | 0.03        | 0.41        | 0.52        |
| Teso          | 1.58                      | 0.05        | 1.49        | 1.67        | 590,025                 | 33,197         | 524,822           | 655,229           | 1.17                | 0.19        | 0.81        | 1.54        |
| Bukedi        | 1.91                      | 0.05        | 1.80        | 2.02        | 733,085                 | 43,733         | 647,188           | 818,983           | 0.33                | 0.02        | 0.29        | 0.36        |
| Elgon         | 2.31                      | 0.14        | 2.04        | 2.58        | 862,492                 | 73,235         | 718,649           | 1,006,336         | 0.26                | 0.02        | 0.22        | 0.30        |
| Karamoja      | 1.02                      | 0.01        | 0.99        | 1.04        | 87,179                  | 10,337         | 66,876            | 107,482           | 0.58                | 0.39        | -0.19       | 1.35        |
| Ankole        | 2.34                      | 0.06        | 2.23        | 2.45        | 1,401,861               | 61,876         | 1,280,327         | 1,523,395         | 0.51                | 0.10        | 0.32        | 0.71        |
| <b>Uganda</b> | <b>2.04</b>               | <b>0.02</b> | <b>2.00</b> | <b>2.07</b> | <b>13,815,410</b>       | <b>254,079</b> | <b>13,500,000</b> | <b>14,500,000</b> | <b>0.61</b>         | <b>0.03</b> | <b>0.56</b> | <b>0.66</b> |

Note: \* The Table is extracted from the PP and PH second season data set. \*\* Standard error

Table 3-3: Number of plots and average plot size (ha) \*

| ZARDI         | Average number of plots per parcel |             |             |             | Total number of plots |                |                   |                   | Average plot size |             |            |            |
|---------------|------------------------------------|-------------|-------------|-------------|-----------------------|----------------|-------------------|-------------------|-------------------|-------------|------------|------------|
|               | Mean                               | SE**        | Lower 95    | Upper 95    | Total                 | SE***          | Lower 95          | Upper 95          | Mean              | SE***       | Lower 95   | Upper 95   |
| Abi           | 2                                  | 0.06        | 1.88        | 2.13        | 2,488,037             | 118,838        | 2,254,630         | 2,721,445         | 0.27              | 0.02        | 0.23       | 0.32       |
| Buginyanya    | 1.78                               | 0.04        | 1.71        | 1.85        | 5,002,529             | 187,857        | 4,633,562         | 5,371,497         | 0.37              | 0.02        | 0.34       | 0.41       |
| Bulindi       | 2.93                               | 0.11        | 2.71        | 3.16        | 2,294,658             | 163,646        | 1,973,244         | 2,616,072         | 0.85              | 0.08        | 0.69       | 1.01       |
| Kachwekano    | 1.65                               | 0.04        | 1.56        | 1.73        | 1,388,001             | 85,346         | 1,220,374         | 1,555,627         | 0.15              | 0.01        | 0.12       | 0.18       |
| Mukono        | 2.07                               | 0.06        | 1.96        | 2.18        | 4,900,780             | 273,993        | 4,362,634         | 5,438,926         | 0.58              | 0.03        | 0.51       | 0.65       |
| Ngetta        | 2.51                               | 0.07        | 2.37        | 2.64        | 4,625,260             | 208,271        | 4,216,199         | 5,034,321         | 0.96              | 0.07        | 0.84       | 1.09       |
| Nabuin        | 1.26                               | 0.04        | 1.18        | 1.35        | 481,024               | 43,747         | 395,102           | 566,946           | 0.51              | 0.03        | 0.45       | 0.56       |
| Serere        | 3.43                               | 0.14        | 3.16        | 3.7         | 2,240,104             | 103,537        | 2,036,749         | 2,443,460         | 0.74              | 0.06        | 0.63       | 0.85       |
| Mbarara       | 1.86                               | 0.04        | 1.78        | 1.94        | 3,533,047             | 232,665        | 3,076,074         | 3,990,020         | 0.65              | 0.16        | 0.34       | 0.96       |
| Rwebitaba     | 2.3                                | 0.09        | 2.12        | 2.49        | 2,584,316             | 165,224        | 2,259,802         | 2,908,831         | 0.39              | 0.02        | 0.35       | 0.43       |
| <b>Uganda</b> | <b>2.12</b>                        | <b>0.02</b> | <b>2.08</b> | <b>2.16</b> | <b>29,537,757</b>     | <b>486,102</b> | <b>28,600,000</b> | <b>30,500,000</b> | <b>0.55</b>       | <b>0.03</b> | <b>0.5</b> | <b>0.6</b> |

Notes: \* The Table extracted from the PP and PH second season data set. \*\* Standard error

Table 3-4: Percentage distribution of Agricultural Household by number of parcels and ZARDI\*

| <b>ZARDI</b>  | <b>2 parcels or less</b> | <b>3 to 4 parcels</b> | <b>5 or more parcels</b> | <b>Total</b> |
|---------------|--------------------------|-----------------------|--------------------------|--------------|
| Abi           | 57.4                     | 34.1                  | 8.6                      | 100.0        |
| Buginyanya    | 76.0                     | 21.7                  | 2.3                      | 100.0        |
| Bulindi       | 81.8                     | 17.4                  | 0.9                      | 100.0        |
| Kachwekano    | 45.3                     | 45.7                  | 9.0                      | 100.0        |
| Mukono        | 79.5                     | 19.2                  | 1.4                      | 100.0        |
| Ngetta        | 57.0                     | 34.6                  | 8.4                      | 100.0        |
| Nabuin        | 99.4                     | 0.6                   | 0.0                      | 100.0        |
| Serere        | 90.4                     | 9.4                   | 0.3                      | 100.0        |
| Mbarara       | 67.3                     | 27.6                  | 5.1                      | 100.0        |
| Rwebitaba     | 80.4                     | 19.2                  | 0.4                      | 100.0        |
| <b>Uganda</b> | <b>71.5</b>              | <b>24.7</b>           | <b>3.9</b>               | <b>100.0</b> |

Note: \* Calculated from the post-planting and post-harvest data of second season

Table 3-5: Percentage distribution of Agricultural Household by number of parcels and sub-region\*

| Sub-region    | 2 parcels or less | 3 to 4 parcels | 5 or more parcels | Total        |
|---------------|-------------------|----------------|-------------------|--------------|
| South Buganda | 84.6              | 14.5           | 0.9               | 100.0        |
| North Buganda | 75.8              | 22.6           | 1.6               | 100.0        |
| West Nile     | 57.4              | 34.1           | 8.6               | 100.0        |
| Lango         | 76.8              | 21.4           | 1.8               | 100.0        |
| Acholi        | 34.3              | 49.7           | 16.0              | 100.0        |
| Kigezi        | 45.3              | 45.7           | 9.0               | 100.0        |
| Bunyoro       | 81.8              | 17.4           | 0.9               | 100.0        |
| Tooro         | 80.4              | 19.2           | 0.4               | 100.0        |
| Busoga        | 86.3              | 13.3           | 0.5               | 100.0        |
| Teso          | 90.4              | 9.4            | 0.3               | 100.0        |
| Bukedi        | 78.1              | 20.7           | 1.1               | 100.0        |
| Elgon         | 63.1              | 31.4           | 5.5               | 100.0        |
| Karamoja      | 99.4              | 0.6            | 0.0               | 100.0        |
| Ankole        | 64.0              | 29.9           | 6.1               | 100.0        |
| <b>Uganda</b> | <b>71.5</b>       | <b>24.7</b>    | <b>3.9</b>        | <b>100.0</b> |

Note: \* Calculated from the post-planting and post-harvest data of second season



Table 3- 6: Percentage distribution of Agricultural Households by number of plots and ZARDI\*

| ZARDI         | Number of plots per parcel |              |                 | Total        |
|---------------|----------------------------|--------------|-----------------|--------------|
|               | 1 or 2 plots               | 3 to 5 plots | 6 or more plots |              |
| Abi           | 68.4                       | 26.9         | 4.7             | 100.0        |
| Buginyanya    | 79.4                       | 19.8         | 0.8             | 100.0        |
| Bulindi       | 63.7                       | 29.6         | 6.7             | 100.0        |
| Kachwekano    | 78.9                       | 19.5         | 1.7             | 100.0        |
| Mukono        | 76.1                       | 21.8         | 2.1             | 100.0        |
| Ngetta        | 64.9                       | 31.7         | 3.4             | 100.0        |
| Nabuin        | 96.8                       | 3.3          | 0.0             | 100.0        |
| Serere        | 42.4                       | 37.0         | 20.6            | 100.0        |
| Mbarara       | 81.3                       | 17.1         | 1.7             | 100.0        |
| Rwebitaba     | 67.0                       | 30.0         | 3.0             | 100.0        |
| <b>Uganda</b> | <b>72.5</b>                | <b>24.1</b>  | <b>3.3</b>      | <b>100.0</b> |

Note: \*Calculated from the post-planting and post-harvest data of second season

Table 3-7: Percentage distribution of Ag HHs, by number of plots and sub-region\*

| Sub-region    | Number of plots per parcel |              |                 |               |
|---------------|----------------------------|--------------|-----------------|---------------|
|               | 1 or 2 plots               | 3 to 5 plots | 6 or more plots | Total         |
| South Buganda | 84.1                       | 14.9         | 1.0             | 100.00        |
| North Buganda | 71.5                       | 25.7         | 2.8             | 100.00        |
| West Nile     | 68.4                       | 26.9         | 4.7             | 100.00        |
| Lango         | 59.7                       | 37.6         | 2.6             | 100.00        |
| Acholi        | 69.6                       | 26.3         | 4.1             | 100.00        |
| Kigezi        | 78.9                       | 19.5         | 1.7             | 100.00        |
| Bunyoro       | 63.7                       | 29.6         | 6.7             | 100.00        |
| Tooro         | 67.0                       | 30.0         | 3.0             | 100.00        |
| Busoga        | 74.3                       | 24.4         | 1.3             | 100.00        |
| Teso          | 42.4                       | 37.0         | 20.6            | 100.00        |
| Bukedi        | 74.1                       | 25.4         | 0.5             | 100.00        |
| Elgon         | 91.5                       | 8.2          | 0.3             | 100.00        |
| Karamoja      | 96.8                       | 3.3          | 0.0             | 100.00        |
| Ankole        | 80.6                       | 17.7         | 1.7             | 100.00        |
| <b>Uganda</b> | <b>72.5</b>                | <b>24.1</b>  | <b>3.3</b>      | <b>100.00</b> |

Note: \*Calculated from the post-planting and post-harvest data of second season

Table 3-8: Total area by use and ZARDI \*

| ZARDI         | Holding size |                  | Agricultural area |                  | Planted area |                  |
|---------------|--------------|------------------|-------------------|------------------|--------------|------------------|
|               | Average      | Total            | Average           | Total            | Average      | Total            |
| Abi           | 1.46         | 745,427          | 1.14              | 565,762          | 0.71         | 351,171          |
| Buginyanya    | 0.71         | 1,055,390        | 0.62              | 912,071          | 0.60         | 887,757          |
| Bulindi       | 1.46         | 670,780          | 1.26              | 582,671          | 1.12         | 515,699          |
| Kachwekano    | 0.53         | 159,921          | 0.42              | 125,741          | 0.38         | 114,044          |
| Mukono        | 1.23         | 1,665,566        | 1.04              | 1,403,049        | 0.84         | 1,139,068        |
| Ngetta        | 2.52         | 1,921,483        | 1.98              | 1,486,013        | 1.14         | 852,270          |
| Nabuin        | 0.59         | 50,675           | 0.90              | 7,604            | 0.90         | 7,604            |
| Serere        | 1.86         | 692,084          | 1.24              | 460,654          | 1.05         | 388,777          |
| Mbarara       | 1.11         | 933,425          | 0.98              | 821,196          | 0.60         | 500,997          |
| Rwebitaba     | 0.81         | 488,269          | 0.74              | 445,020          | 0.72         | 433,705          |
| <b>Uganda</b> | <b>1.24</b>  | <b>8,383,019</b> | <b>1.02</b>       | <b>6,809,781</b> | <b>0.78</b>  | <b>5,191,093</b> |

Note: \* Calculated from the post-planting and post-harvest data of second season.

Table 3-9: Percentage distribution of Agricultural Households by size of the holding and ZARDI\*

| ZARDI         | Size classes |             |             |             | Total        |
|---------------|--------------|-------------|-------------|-------------|--------------|
|               | <0.5 ha      | 0.5-1 ha    | 1-2 ha      | Over 2 ha   |              |
| Abi           | 35.1         | 32.2        | 18.2        | 14.5        | 100.0        |
| Buginyanya    | 53.0         | 27.0        | 15.4        | 4.6         | 100.0        |
| Bulindi       | 28.5         | 26.4        | 25.8        | 19.3        | 100.0        |
| Kachwekano    | 68.9         | 21.7        | 7.5         | 1.9         | 100.0        |
| Mukono        | 38.8         | 24.7        | 22.5        | 14.0        | 100.0        |
| Ngetta        | 11.1         | 21.8        | 29.8        | 37.3        | 100.0        |
| Nabuin        | 93.0         | 1.9         | 3.2         | 1.9         | 100.0        |
| Serere        | 11.6         | 29.6        | 42.0        | 16.8        | 100.0        |
| Mbarara       | 50.9         | 25.9        | 14.3        | 8.9         | 100.0        |
| Rwebitaba     | 38.4         | 35.3        | 20.5        | 5.8         | 100.0        |
| <b>Uganda</b> | <b>40.3</b>  | <b>26.1</b> | <b>20.4</b> | <b>13.2</b> | <b>100.0</b> |

Note: \*Calculated from the post-planting and post-harvest data of second season

Table 3-10: Percentage distribution of Agricultural Households by size of the holding and sub-region\*

| Sub-region    | Size classes |             |             |             | Total        |
|---------------|--------------|-------------|-------------|-------------|--------------|
|               | <0.5 ha      | 0.5-1 ha    | 1-2 ha      | Over 2 ha   |              |
| South Buganda | 52.3         | 25.1        | 14.5        | 8.1         | 100.0        |
| North Buganda | 30.5         | 23.7        | 27.8        | 18.0        | 100.0        |
| West Nile     | 35.1         | 32.2        | 18.2        | 14.5        | 100.0        |
| Lango         | 16.9         | 33.9        | 34.4        | 14.8        | 100.0        |
| Acholi        | 4.5          | 7.9         | 24.6        | 63.1        | 100.0        |
| Kigezi        | 68.9         | 21.7        | 7.5         | 1.9         | 100.0        |
| Bunyoro       | 28.5         | 26.4        | 25.8        | 19.3        | 100.0        |
| Tooro         | 38.4         | 35.3        | 20.5        | 5.8         | 100.0        |
| Busoga        | 45.5         | 27.5        | 19.2        | 7.8         | 100.0        |
| Teso          | 11.6         | 29.6        | 42.0        | 16.8        | 100.0        |
| Bukedi        | 56.7         | 26.2        | 14.1        | 3.0         | 100.0        |
| Elgon         | 56.8         | 27.3        | 12.7        | 3.1         | 100.0        |
| Karamoja      | 93.0         | 1.9         | 3.2         | 1.9         | 100.0        |
| Ankole        | 51.2         | 26.8        | 13.5        | 8.5         | 100.0        |
| <b>Uganda</b> | <b>40.3</b>  | <b>26.1</b> | <b>20.4</b> | <b>13.2</b> | <b>100.0</b> |

Note: \* Calculated from the post-planting and post-harvest data of first season

## Annex 4.

Table 4-1: Percentage distribution of crop plots by sex of the plot manager and ZARDI

| ZARDI         | <u>First season</u> |                          |                            | <u>Second season</u> |                          |                            |
|---------------|---------------------|--------------------------|----------------------------|----------------------|--------------------------|----------------------------|
|               | Number of plots     | % plots managed by males | % plots managed by females | Number of plots      | % plots managed by males | % plots managed by females |
| Abi           | 1,340,825           | 64.7                     | 35.3                       | 2,137,858            | 63.9                     | 36.1                       |
| Buginyanya    | 3,919,476           | 50.8                     | 49.2                       | 4,167,120            | 52.5                     | 47.5                       |
| Bulindi       | 1,283,411           | 67.8                     | 32.2                       | 1,669,776            | 69.6                     | 30.4                       |
| Kachwekano    | 908,280             | 38.6                     | 61.4                       | 1,199,883            | 37.8                     | 62.2                       |
| Mukono        | 3,251,134           | 56.2                     | 43.8                       | 3,841,844            | 57.3                     | 42.7                       |
| Ngetta        | 2,556,749           | 60.8                     | 39.2                       | 2,848,456            | 63.6                     | 36.4                       |
| Nabuin        | 306,820             | 33.3                     | 66.7                       | 13,720               | 74.1                     | 25.9                       |
| Serere        | 1,185,955           | 77.0                     | 23.0                       | 1,450,240            | 77.6                     | 22.4                       |
| Mbarara       | 2,017,231           | 41.4                     | 58.6                       | 2,499,581            | 43.5                     | 56.5                       |
| Rwebitaba     | 1,573,912           | 56.9                     | 43.1                       | 2,017,163            | 58.5                     | 41.5                       |
| <b>Uganda</b> | <b>18,343,793</b>   | <b>55.7</b>              | <b>44.3</b>                | <b>21,845,640</b>    | <b>57.6</b>              | <b>42.4</b>                |

Table 4-2: Percentage distribution of crop plots by sex of the plot manager and sub-region

| Sub-region    | <u>First season</u> |                          |                            | <u>Second season</u> |                          |                            |
|---------------|---------------------|--------------------------|----------------------------|----------------------|--------------------------|----------------------------|
|               | number of plots     | % plots managed by males | % plots managed by females | number of plots      | % plots managed by males | % plots managed by females |
| South Buganda | 1,545,357           | 53.4                     | 46.6                       | 1,768,514            | 57.6                     | 42.4                       |
| North Buganda | 2,184,781           | 57.4                     | 42.6                       | 2,635,135            | 57.8                     | 42.2                       |
| West Nile     | 1,340,825           | 64.7                     | 35.3                       | 2,137,858            | 63.9                     | 36.1                       |
| Lango         | 1,387,572           | 59.6                     | 40.4                       | 1,545,205            | 64.3                     | 35.7                       |
| Acholi        | 1,169,177           | 62.2                     | 37.8                       | 1,303,251            | 62.8                     | 37.2                       |
| Kigezi        | 908,280             | 38.6                     | 61.4                       | 1,199,883            | 37.8                     | 62.2                       |
| Bunyoro       | 1,283,411           | 67.8                     | 32.2                       | 1,669,776            | 69.6                     | 30.4                       |
| Tooro         | 1,573,912           | 56.9                     | 43.1                       | 2,017,163            | 58.5                     | 41.5                       |
| Busoga        | 1,900,040           | 43.7                     | 56.3                       | 2,058,410            | 46.5                     | 53.5                       |
| Teso          | 1,188,015           | 77.1                     | 22.9                       | 1,453,674            | 77.7                     | 22.3                       |
| Bukedi        | 1,013,086           | 46.9                     | 53.1                       | 1,115,105            | 47.3                     | 52.7                       |
| Elgon         | 1,006,350           | 68.2                     | 31.8                       | 993,604              | 71.0                     | 29.0                       |
| Karamoja      | 305,768             | 33.4                     | 66.6                       | 13,720               | 74.1                     | 25.9                       |
| Ankole        | 1,538,227           | 38.0                     | 62.0                       | 1,937,776            | 38.5                     | 61.5                       |
| <b>Uganda</b> | <b>18,344,802</b>   | <b>55.7</b>              | <b>44.3</b>                | <b>21,849,074</b>    | <b>57.6</b>              | <b>42.4</b>                |

Table 4- 3: Percentage and average plot area by cropping system and ZARDI

| ZARDI         | <u>First season</u> |             |             |            |            | <u>Second season</u> |             |             |            |            |
|---------------|---------------------|-------------|-------------|------------|------------|----------------------|-------------|-------------|------------|------------|
|               | number of plots     | % pure      | % mixed     | area pure  | area mixed | number of plots      | % pure      | % mixed     | area pure  | area mixed |
| Abi           | 1,340,825           | 69.0        | 31.0        | 0.4        | 0.4        | 2,137,858            | 78.5        | 21.5        | 0.4        | 0.4        |
| Buginyanya    | 3,919,476           | 56.0        | 44.0        | 0.6        | 0.5        | 4,167,120            | 58.9        | 41.1        | 0.5        | 0.5        |
| Bulindi       | 1,283,411           | 66.6        | 33.4        | 0.8        | 0.6        | 1,669,776            | 61.3        | 38.7        | 0.9        | 0.6        |
| Kachwekano    | 908,280             | 74.5        | 25.5        | 0.3        | 0.4        | 1,199,883            | 69.6        | 30.4        | 0.2        | 0.3        |
| Mukono        | 3,251,134           | 51.7        | 48.3        | 0.8        | 0.8        | 3,841,844            | 48.4        | 51.6        | 0.7        | 0.8        |
| Ngetta        | 2,556,749           | 76.9        | 23.1        | 0.8        | 0.8        | 2,848,456            | 80.9        | 19.1        | 0.7        | 0.8        |
| Nabuin        | 306,820             | 80.7        | 19.3        | 1.1        | 1.5        | 13,720               | 68.0        | 32.0        | 1.2        | 1.8        |
| Serere        | 1,185,955           | 78.4        | 21.6        | 0.6        | 0.6        | 1,450,240            | 73.1        | 26.9        | 0.7        | 0.6        |
| Mbarara       | 2,017,231           | 57.1        | 42.9        | 0.5        | 0.6        | 2,499,581            | 49.6        | 50.4        | 0.4        | 0.6        |
| Rwebitaba     | 1,573,912           | 57.5        | 42.5        | 0.6        | 0.6        | 2,017,163            | 57.0        | 43.0        | 0.5        | 0.6        |
| <b>Uganda</b> | <b>18,343,793</b>   | <b>62.9</b> | <b>37.1</b> | <b>0.6</b> | <b>0.6</b> | <b>21,845,640</b>    | <b>62.3</b> | <b>37.7</b> | <b>0.6</b> | <b>0.6</b> |



Table 4-4: Percentage and average plot area by cropping system and by ZARDI

| Sub-region    | <u>First season</u> |             |             |            |            | <u>Second season</u> |             |             |            |            |
|---------------|---------------------|-------------|-------------|------------|------------|----------------------|-------------|-------------|------------|------------|
|               | number of plots     | % pure      | % mixed     | area pure  | area mixed | number of plots      | % pure      | % mixed     | area pure  | area mixed |
| South Buganda | 1,545,357           | 54.9        | 45.1        | 0.7        | 0.8        | 1,768,514            | 48.5        | 51.5        | 0.7        | 0.7        |
| North Buganda | 2,184,781           | 50.3        | 49.7        | 0.8        | 0.8        | 2,635,135            | 47.5        | 52.5        | 0.7        | 0.8        |
| West Nile     | 1,340,825           | 69.0        | 31.0        | 0.4        | 0.4        | 2,137,858            | 78.5        | 21.5        | 0.4        | 0.4        |
| Lango         | 1,387,572           | 90.0        | 10.0        | 0.8        | 0.8        | 1,545,205            | 85.1        | 14.9        | 0.7        | 0.7        |
| Acholi        | 1,169,177           | 61.4        | 38.6        | 0.7        | 0.9        | 1,303,251            | 75.9        | 24.1        | 0.7        | 0.9        |
| Kigezi        | 908,280             | 74.5        | 25.5        | 0.3        | 0.4        | 1,199,883            | 69.6        | 30.4        | 0.2        | 0.3        |
| Bunyoro       | 1,283,411           | 66.6        | 33.4        | 0.8        | 0.6        | 1,669,776            | 61.3        | 38.7        | 0.9        | 0.6        |
| Tooro         | 1,573,912           | 57.5        | 42.5        | 0.6        | 0.6        | 2,017,163            | 57.0        | 43.0        | 0.5        | 0.6        |
| Busoga        | 1,900,040           | 63.8        | 36.2        | 0.6        | 0.5        | 2,058,410            | 59.8        | 40.2        | 0.6        | 0.6        |
| Teso          | 1,188,015           | 78.4        | 21.6        | 0.6        | 0.6        | 1,453,674            | 73.2        | 26.8        | 0.7        | 0.6        |
| Bukedi        | 1,013,086           | 65.9        | 34.1        | 0.5        | 0.6        | 1,115,105            | 67.6        | 32.4        | 0.5        | 0.5        |
| Elgon         | 1,006,350           | 31.4        | 68.6        | 0.6        | 0.5        | 993,604              | 47.3        | 52.7        | 0.5        | 0.5        |
| Karamoja      | 305,768             | 80.8        | 19.2        | 1.1        | 1.5        | 13,720               | 68.0        | 32.0        | 1.2        | 1.8        |
| Ankole        | 1,538,227           | 57.7        | 42.3        | 0.4        | 0.5        | 1,937,776            | 51.2        | 48.8        | 0.3        | 0.5        |
| <b>Uganda</b> | <b>18,344,802</b>   | <b>62.9</b> | <b>37.1</b> | <b>0.6</b> | <b>0.6</b> | <b>21,849,074</b>    | <b>62.3</b> | <b>37.7</b> | <b>0.6</b> | <b>0.6</b> |

Table 4-5: Comparison of percentage of cropped plots under different cropping systems across survey years, seasons and by ZARDI

Table 4-6: Total plot areas in acres by cropping system and Zonal Agricultural Research and Development Institutes

| ZARDI         | Pure        |             |             |             | Mixed       |             |             |             |
|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|               | Season 1    |             | Season 2    |             | Season 1    |             | Season 2    |             |
|               | 2019        | 2020        | 2019        | 2020        | 2019        | 2020        | 2019        | 2020        |
| Abi           | 57.5        | 69.0        | 85.0        | 78.5        | 42.5        | 31.0        | 15.1        | 21.5        |
| Buginyanya    | 51.0        | 56.0        | 65.0        | 58.9        | 49.0        | 44.0        | 35.0        | 41.1        |
| Bulindi       | 54.4        | 66.6        | 65.1        | 61.3        | 45.6        | 33.4        | 34.9        | 38.7        |
| Kachwekano    | 82.2        | 74.5        | 76.1        | 69.6        | 17.8        | 25.5        | 23.9        | 30.4        |
| Mukono        | 52.0        | 51.7        | 52.4        | 48.4        | 48.0        | 48.3        | 47.6        | 51.6        |
| Ngetta        | 68.0        | 76.9        | 86.3        | 80.9        | 32.0        | 23.1        | 13.7        | 19.1        |
| Nabuin        | 63.6        | 80.7        | 86.1        | 68.0        | 36.4        | 19.3        | 13.9        | 32.0        |
| Serere        | 51.6        | 78.4        | 81.5        | 73.1        | 48.4        | 21.6        | 18.5        | 26.9        |
| Mbarara       | 49.7        | 57.1        | 46.0        | 49.6        | 50.3        | 42.9        | 54.0        | 50.4        |
| Rwebitaba     | 56.2        | 57.5        | 55.3        | 57.0        | 43.8        | 42.5        | 44.7        | 43.0        |
| <b>Uganda</b> | <b>56.4</b> | <b>62.9</b> | <b>64.9</b> | <b>62.3</b> | <b>43.6</b> | <b>37.1</b> | <b>35.1</b> | <b>37.7</b> |

| ZARDI      | <u>First season</u> |           | <u>Second season</u> |           | <u>Total</u> |               |
|------------|---------------------|-----------|----------------------|-----------|--------------|---------------|
|            | pure                | mixed     | pure                 | mixed     | First season | Second season |
| Abi        | 390,086             | 174,249   | 684,193              | 183,567   | 564,335      | 867,760       |
| Buginyanya | 1,283,532           | 938,452   | 1,289,895            | 903,798   | 2,221,984    | 2,193,693     |
| Bulindi    | 679,460             | 250,447   | 873,101              | 401,218   | 929,906      | 1,274,319     |
| Kachwekano | 191,686             | 91,996    | 176,259              | 105,550   | 283,682      | 281,809       |
| Mukono     | 1,275,696           | 1,250,789 | 1,286,572            | 1,528,122 | 2,526,485    | 2,814,694     |

|               |                  |                  |                  |                  |                   |                   |
|---------------|------------------|------------------|------------------|------------------|-------------------|-------------------|
| Ngetta        | 1,515,624        | 496,728          | 1,653,538        | 452,464          | 2,012,353         | 2,106,002         |
| Nabuin        | 260,103          | 86,258           | 11,006           | 7,785            | 346,361           | 18,791            |
| Serere        | 526,615          | 157,273          | 709,216          | 251,472          | 683,888           | 960,688           |
| Mbarara       | 578,186          | 540,812          | 508,526          | 729,463          | 1,118,997         | 1,237,989         |
| Rwebitaba     | 504,311          | 429,347          | 542,259          | 529,447          | 933,657           | 1,071,706         |
| <b>Uganda</b> | <b>7,205,298</b> | <b>4,416,351</b> | <b>7,734,564</b> | <b>5,092,886</b> | <b>11,621,649</b> | <b>12,827,450</b> |

Table 4-7: Total plot areas in acres by cropping system and sub-region

| Sub-region    | <u>First season</u> |                  | <u>Second season</u> |                  | <u>Total</u>      |                   |
|---------------|---------------------|------------------|----------------------|------------------|-------------------|-------------------|
|               | pure                | mixed            | pure                 | mixed            | First season      | Second season     |
| South Buganda | 630,989             | 553,400          | 580,483              | 661,949          | 1,184,389         | 1,242,432         |
| North Buganda | 843,094             | 883,519          | 868,729              | 1,107,476        | 1,726,614         | 1,976,205         |
| West Nile     | 390,156             | 174,281          | 684,229              | 183,573          | 564,437           | 867,803           |
| Lango         | 1,037,060           | 108,793          | 931,266              | 165,851          | 1,145,852         | 1,097,117         |
| Acholi        | 478,907             | 388,050          | 722,381              | 286,641          | 866,958           | 1,009,022         |
| Kigezi        | 191,711             | 92,012           | 176,270              | 105,554          | 283,723           | 281,824           |
| Bunyoro       | 679,615             | 250,499          | 873,143              | 401,228          | 930,113           | 1,274,371         |
| Tooro         | 504,414             | 429,439          | 542,312              | 529,483          | 933,853           | 1,071,795         |
| Busoga        | 749,937             | 360,541          | 731,410              | 481,560          | 1,110,478         | 1,212,970         |
| Teso          | 529,717             | 157,307          | 713,730              | 252,183          | 687,023           | 965,913           |
| Bukedi        | 346,019             | 213,386          | 344,621              | 176,987          | 559,405           | 521,608           |
| Elgon         | 187,844             | 364,715          | 214,006              | 245,329          | 552,559           | 459,335           |
| Karamoja      | 259,704             | 85,364           | 11,006               | 7,785            | 345,068           | 18,791            |
| Ankole        | 380,200             | 355,083          | 346,036              | 488,260          | 735,282           | 834,296           |
| <b>Uganda</b> | <b>7,205,298</b>    | <b>4,416,351</b> | <b>7,734,564</b>     | <b>5,092,886</b> | <b>11,621,649</b> | <b>12,827,450</b> |

Table 4-8: Median quantity of seeds applied per acre (kg/acre) by type of crop and Zonal Agricultural Research and Development Institutes (ZARDI)

| ZARDI         | First season |             |            |            |             |             |             |            | Second season |             |            |             |             |             |             |            |
|---------------|--------------|-------------|------------|------------|-------------|-------------|-------------|------------|---------------|-------------|------------|-------------|-------------|-------------|-------------|------------|
|               | Maize        | Rice        | Sorghum    | Millet     | Soya beans  | Beans       | Groundnuts  | Simsim     | Maize         | Rice        | Sorghum    | Millet      | Soya beans  | Beans       | Groundnuts  | Simsim     |
| Abi           | 9.7          | 33.3        | 18.9       | <          | <           | 40.0        | 28.3        | 8.8        | 10.5          | 26.1        | 19.2       | 4.0         | 25.3        | 40.4        | 30.1        | 5.3        |
| Buginyanya    | 12.9         | 24.0        | 6.1        | 8.1        | 16.7        | 32.4        | 28.3        | 5.1        | 13.9          | 27.4        | 7.3        | 6.5         | 19.0        | 32.8        | 32.1        | 7.1        |
| Bulindi       | 13.1         | <           | <          | 1.0        | 20.0        | 33.3        | 33.3        | 4.5        | 13.3          | 57.5        | 10.9       | 4.0         | 25.3        | 37.0        | 36.6        | <          |
| Kachwekano    | 16.7         | 80.0        | 13.5       | <          | <           | 40.0        | 30.0        | -          | 22.0          | 100.0       | 26.2       | 22.2        | <           | 55.0        | 39.0        | -          |
| Mukono        | 13.3         | 50.0        | <          | <          | <           | 32.4        | 28.3        | <          | 14.8          | 56.8        | <          | 8.3         | 29.4        | 40.0        | 35.0        | <          |
| Ngetta        | 9.2          | 17.8        | 10.2       | 8.6        | 25.0        | 20.0        | 22.5        | 4.0        | 9.2           | 23.8        | 10.3       | 23.8        | 25.3        | 30.6        | 27.8        | 4.8        |
| Nabuin        | 10.0         | <           | 7.7        | 10.0       | <           | 30.0        | 20.0        | 3.8        | <             | -           | <          | <           | -           | -           | <           | -          |
| Serere        | 9.4          | 16.2        | 7.5        | 2.0        | 19.5        | 31.0        | 22.2        | 5.4        | 10.0          | 16.2        | 6.1        | 3.7         | 20.0        | 32.4        | 28.3        | 5.1        |
| Mbarara       | 16.7         | -           | 10.8       | <          | <           | 36.5        | 27.7        | -          | 20.8          | -           | 15.2       | 17.9        | <           | 49.4        | 40.0        | -          |
| Rwebitaba     | 14.3         | <           | 15.3       | <          | <           | 32.4        | 27.0        | 2.8        | 16.9          | 34.2        | 16.9       | 13.5        | 18.4        | 41.7        | 29.5        | <          |
| <b>Uganda</b> | <b>12.0</b>  | <b>21.0</b> | <b>9.7</b> | <b>6.7</b> | <b>20.3</b> | <b>32.4</b> | <b>28.3</b> | <b>4.6</b> | <b>13.9</b>   | <b>28.5</b> | <b>9.0</b> | <b>13.9</b> | <b>25.3</b> | <b>40.4</b> | <b>32.1</b> | <b>5.1</b> |
| <b>NARO</b>   | <b>10.0</b>  | <b>30.0</b> | <b>6.0</b> | <b>4.0</b> | <b>25.0</b> | <b>32.0</b> | <b>28.0</b> | <b>5.0</b> | <b>10.0</b>   | <b>30.0</b> | <b>6.0</b> | <b>4.0</b>  | <b>25.0</b> | <b>32.0</b> | <b>28.0</b> | <b>5.0</b> |

Notes: -No sampled units under this category &lt;Insufficient number of sampled units under this category

Table 4-9: Median quantity of seeds applied per acre (kg/acre) by type of crop and sub-region

|               | <u>First season</u> |             |             |            |             |             |             |            | <u>Second season</u> |             |            |             |             |             |             |            |
|---------------|---------------------|-------------|-------------|------------|-------------|-------------|-------------|------------|----------------------|-------------|------------|-------------|-------------|-------------|-------------|------------|
|               | Maize               | Rice        | Sorghum     | Millet     | Soya beans  | Beans       | Groundnuts  | Simsim     | Maize                | Rice        | Sorghum    | Millet      | Soya beans  | Beans       | Groundnuts  | Simsim     |
| <b>ZARDI</b>  |                     |             |             |            |             |             |             |            |                      |             |            |             |             |             |             |            |
| South Buganda | 11.7                | 100.0       | 3.3         | 20.0       | 12.0        | 33.3        | 33.3        |            | 15.2                 |             | -          | 10.1        | 8.2         | 43.5        | 45.5        |            |
| North Buganda | 20.0                | 40.0        | 4.0         | 6.3        | 50.0        | 41.7        | 28.3        | 4.0        | 26.4                 | 56.8        | 9.0        | 8.3         | 35.8        | 52.6        | 33.3        | 9.7        |
| West Nile     | 10.1                | 33.3        | 20.4        | 19.0       | 33.3        | 40.8        | 30.0        | 10.0       | 13.3                 | 26.1        | 17.7       | 4.0         | 25.3        | 40.0        | 39.4        | 6.7        |
| Lango         | 10.0                | 16.2        | 14.0        | 7.6        | 25.3        | 16.0        | 23.1        | 4.5        | 10.9                 | 33.5        | 18.0       | 36.5        | 25.7        | 32.4        | 27.2        | 5.1        |
| Acholi        | 10.1                | 18.8        | 13.6        | 10.0       | 27.0        | 25.8        | 26.3        | 5.0        | 10.1                 | 19.6        | -          | 5.7         | 25.3        | 32.4        | 32.3        | 5.1        |
| Kigezi        | 18.8                | 125.0       | 18.0        | 16.0       | 16.7        | 42.5        | 32.0        |            | 31.3                 | 136.4       | 23.3       | 25.0        | 57.4        | 89.7        | 43.8        |            |
| Bunyoro       | 17.1                | 60.0        | 18.0        | 1.0        | 16.7        | 40.0        | 33.3        | 5.0        | 21.9                 | 57.5        | 6.9        | 4.0         | 25.3        | 44.0        | 38.5        | 7.8        |
| Tooro         | 16.0                | 16.2        | 10.8        | 20.0       | 12.5        | 38.8        | 27.0        | 3.2        | 22.2                 | 34.5        | 16.9       | 12.7        | 18.4        | 54.7        | 33.3        | 6.7        |
| Busoga        | 16.7                | 24.0        | 3.4         | 8.9        | 20.0        | 28.6        | 30.0        | 5.0        | 16.7                 | 27.4        | 6.1        | 6.5         | 22.5        | 27.8        | 32.8        | 6.0        |
| Teso          | 10.1                | 16.2        | 7.6         | 2.0        | 19.5        | 32.4        | 28.3        | 6.0        | 11.4                 | 16.2        | 7.3        | 4.0         | 20.0        | 32.4        | 28.3        | 5.1        |
| Bukedi        | 16.0                | 21.0        | 6.1         | 10.0       | 16.7        | 30.0        | 28.3        | 5.1        | 19.0                 | 27.4        | 7.2        | 14.3        | 18.7        | 32.4        | 30.6        | 7.1        |
| Elgon         | 20.0                | 32.0        | -           | 8.0        | 20.0        | 66.7        | 28.3        | 10.0       | 13.3                 | 45.5        | 5.7        | 8.3         | 25.5        | 57.0        | 34.7        | 5.1        |
| Karamoja      | 10.0                | 30.0        | 8.0         | 10.0       | 26.7        | 30.0        | 20.0        | 3.3        | 10.7                 | <           | 6.1        | 3.3         | <           | <           | 12.5        |            |
| Ankole        | 22.0                | <           | 14.4        | 12.0       | 19.2        | 40.0        | 28.3        |            | 29.6                 | <           | 19.3       | 20.0        | 41.7        | 70.1        | 43.1        |            |
| <b>Uganda</b> | <b>15.0</b>         | <b>22.1</b> | <b>10.7</b> | <b>7.7</b> | <b>22.5</b> | <b>35.7</b> | <b>28.3</b> | <b>5.0</b> | <b>18.9</b>          | <b>33.7</b> | <b>7.5</b> | <b>13.9</b> | <b>25.3</b> | <b>50.0</b> | <b>34.2</b> | <b>5.5</b> |
| <b>NARO</b>   | <b>10.0</b>         | <b>30.0</b> | <b>6.0</b>  | <b>4.0</b> | <b>25.0</b> | <b>32.0</b> | <b>28.0</b> | <b>5.0</b> | <b>10.0</b>          | <b>30.0</b> | <b>6.0</b> | <b>4.0</b>  | <b>25.0</b> | <b>32.0</b> | <b>28.0</b> | <b>5.0</b> |

Notes: -No sampled units under this category <Insufficient number of sampled units under this category

Table 5-1: Percentage distribution of Agricultural Households that received extension (advisory) services by sub-region

| Sub-region    | Ag HHs           | Percent     |
|---------------|------------------|-------------|
| South Buganda | 809,442          | 12.3        |
| North Buganda | 811,345          | 16.9        |
| West Nile     | 488,210          | 14.4        |
| Lango         | 452,744          | 8.4         |
| Acholi        | 316,540          | 22.5        |
| Kigezi        | 299,018          | 24.4        |
| Bunyoro       | 455,717          | 15.4        |
| Tooro         | 604,154          | 17.3        |
| Busoga        | 698,411          | 20.0        |
| Teso          | 369,542          | 4.1         |
| Bukedi        | 385,598          | 9.4         |
| Elgon         | 386,704          | 11.9        |
| Karamoja      | 197,790          | 9.4         |
| Ankole        | 609,267          | 10.9        |
| <b>Uganda</b> | <b>6,884,483</b> | <b>14.3</b> |

Note: Denominator – all Ag HHs that responded



Table 5-2: Percentage distribution of Agricultural Households that received extension (advisory) services by ZARDI

| <b>ZARDI</b>  | <b>Ag HHs</b>    | <b>Percent</b> |
|---------------|------------------|----------------|
| Abi           | 488,210          | 14.4           |
| Buginyanya    | 1,470,713        | 15.1           |
| Bulindi       | 455,717          | 15.4           |
| Kachwekano    | 299,018          | 24.4           |
| Mukono        | 1,365,531        | 15.4           |
| Ngetta        | 769,285          | 14.2           |
| Nabuin        | 197,790          | 9.4            |
| Serere        | 369,542          | 4.1            |
| Mbarara       | 865,736          | 10.9           |
| Rwebitaba     | 604,154          | 17.3           |
| <b>Uganda</b> | <b>6,885,695</b> | <b>14.3</b>    |

Table 5-2a: Percentage distribution of Agricultural Households that received extension (advisory) services in selected years by ZARDI

| ZARDI         | Survey Year |            |             |
|---------------|-------------|------------|-------------|
|               | 2018        | 2019       | 2020        |
| Abi           | 12.8        | 4.2        | 14.4        |
| Buginyanya    | 13.5        | 5.8        | 15.1        |
| Bulindi       | 9.2         | 6.5        | 15.4        |
| Kachwekano    | 17.0        | 5.4        | 24.4        |
| Mukono        | 12.7        | 4.5        | 15.4        |
| Ngetta        | 13.6        | 8.7        | 14.2        |
| Nabuin        | 7.0         | 0.4        | 9.4         |
| Serere        | 4.5         | 1.4        | 4.1         |
| Mbarara       | 13.3        | 3.3        | 10.9        |
| Rwebitaba     | 13.0        | 4.5        | 17.3        |
| <b>Uganda</b> | <b>11.7</b> | <b>5.0</b> | <b>14.3</b> |

Table 5-3: Percentage distribution of Agricultural Households that received extension (advisory) services, by topic of advice and sub region

| Sub-region    | Crop production | PH loss mgt | Farm mgt   | Selection of crop varieties | Input use   | Farm mechanization | Animal health mgt | Plant protection | Environmental conservation | Marketing  | Diary mgt  | Value addition/ processing | Did not receive any training | Other      |
|---------------|-----------------|-------------|------------|-----------------------------|-------------|--------------------|-------------------|------------------|----------------------------|------------|------------|----------------------------|------------------------------|------------|
| South Buganda | 25.4            | 1.9         | 9.9        | 10.3                        | 39.3        | 0.0                | 28.6              | 0.0              | 0.0                        | 1.1        | 0.0        | 0.0                        | 0.0                          | 0.0        |
| North Buganda | 57.1            | 1.5         | 1.1        | 5.9                         | 9.9         | 1.0                | 12.0              | 13.9             | 1.4                        | 0.9        | 0.0        | 0.0                        | 0.0                          | 0.0        |
| West Nile     | 84.2            | 0.0         | 4.9        | 1.0                         | 0.0         | 0.0                | 7.6               | 2.3              | 0.0                        | 0.0        | 0.0        | 0.0                        | 0.0                          | 0.0        |
| Lango         | 46.0            | 0.0         | 2.3        | 30.3                        | 14.1        | 2.4                | 4.8               | 0.0              | 2.9                        | 0.0        | 0.0        | 0.0                        | 0.0                          | 0.0        |
| Acholi        | 47.3            | 0.4         | 1.3        | 14.4                        | 2.1         | 0.4                | 17.4              | 1.1              | 3.7                        | 3.0        | 0.0        | 0.7                        | 2.0                          | 20.0       |
| Kigezi        | 53.8            | 0.0         | 0.4        | 2.3                         | 22.4        | 0.0                | 31.2              | 0.7              | 0.7                        | 0.5        | 0.0        | 0.0                        | 0.0                          | 1.0        |
| Bunyoro       | 61.2            | 4.4         | 14.7       | 6.7                         | 6.5         | 2.7                | 9.7               | 1.9              | 1.5                        | 3.3        | 1.6        | 0.0                        | 0.0                          | 0.0        |
| Tooro         | 65.9            | 3.1         | 5.6        | 9.1                         | 21.2        | 1.8                | 7.7               | 1.9              | 0.0                        | 2.5        | 0.0        | 0.0                        | 0.0                          | 1.1        |
| Busoga        | 67.1            | 1.3         | 4.6        | 5.0                         | 3.5         | 0.0                | 32.8              | 8.1              | 0.0                        | 4.6        | 0.0        | 2.0                        | 0.0                          | 1.3        |
| Teso          | 28.9            | 0.0         | 0.0        | 0.0                         | 0.0         | 0.0                | 63.3              | 0.0              | 0.0                        | 7.2        | 0.0        | 15.0                       | 0.0                          | 0.0        |
| Bukedi        | 57.1            | 2.3         | 9.7        | 26.3                        | 0.0         | 0.0                | 0.0               | 2.1              | 5.0                        | 0.0        | 0.0        | 0.0                        | 0.0                          | 0.0        |
| Elgon         | 62.8            | 0.0         | 6.2        | 0.0                         | 0.0         | 0.0                | 28.2              | 3.0              | 1.8                        | 3.1        | 0.0        | 0.0                        | 0.0                          | 0.0        |
| Karamoja      | 76.5            | 0.0         | 6.3        | 9.7                         | 0.0         | 0.0                | 4.3               | 0.0              | 3.2                        | 0.0        | 0.0        | 0.0                        | 0.0                          | 0.0        |
| Ankole        | 31.7            | 2.9         | 0.0        | 5.2                         | 14.3        | 0.0                | 37.0              | 13.7             | 0.0                        | 0.0        | 0.0        | 0.0                        | 0.0                          | 0.0        |
| <b>Uganda</b> | <b>55.6</b>     | <b>1.5</b>  | <b>4.8</b> | <b>7.9</b>                  | <b>11.9</b> | <b>0.6</b>         | <b>19.9</b>       | <b>4.9</b>       | <b>1.1</b>                 | <b>1.9</b> | <b>0.1</b> | <b>0.6</b>                 | <b>0.1</b>                   | <b>1.8</b> |

Note: Denominator is Ag HHs that received advisory services. Mgt – management

Table 5-4: Percentage distribution of Agricultural Households that received extension (advisory) services by topic of advice and ZARDI

| ZARDI         | Ag HHs         | Crop production | PH loss mgt | farm mgt   | selection of crop varieties | Input use   | Farm mechanizat | Animal health mgt | Plant protection | Environmental conservation | Marketing  | Diary mgt  | Value addition processing |
|---------------|----------------|-----------------|-------------|------------|-----------------------------|-------------|-----------------|-------------------|------------------|----------------------------|------------|------------|---------------------------|
| Abi           | 70,492         | 84.2            | 0.0         | 4.9        | 1.0                         | 0.0         | 0.0             | 7.6               | 2.3              | 0.0                        | 0.0        | 0.0        | 0.0                       |
| Buginyanya    | 221,705        | 64.6            | 1.2         | 5.8        | 7.4                         | 2.2         | 0.0             | 26.5              | 6.1              | 1.2                        | 3.6        | 0.0        | 1.2                       |
| Bulindi       | 70,300         | 61.2            | 4.4         | 14.7       | 6.7                         | 6.5         | 2.7             | 9.7               | 1.9              | 1.5                        | 3.3        | 1.6        | 0.0                       |
| Kachwekano    | 72,854         | 53.8            | 0.0         | 0.4        | 2.3                         | 22.4        | 0.0             | 31.2              | 0.7              | 0.7                        | 0.5        | 0.0        | 0.0                       |
| Mukono        | 209,950        | 46.4            | 2.4         | 4.0        | 6.7                         | 21.4        | 0.7             | 16.5              | 9.1              | 0.9                        | 1.1        | 0.0        | 0.0                       |
| Ngetta        | 109,370        | 46.8            | 0.3         | 1.7        | 19.9                        | 6.3         | 1.1             | 13.0              | 0.7              | 3.5                        | 2.0        | 0.0        | 0.5                       |
| Nabuin        | 18,609         | 76.5            | 0.0         | 6.3        | 9.7                         | 0.0         | 0.0             | 4.3               | 0.0              | 3.2                        | 0.0        | 0.0        | 0.0                       |
| Serere        | 15,313         | 28.9            | 0.0         | 0.0        | 0.0                         | 0.0         | 0.0             | 63.3              | 0.0              | 0.0                        | 7.2        | 0.0        | 15.0                      |
| Mbarara       | 94,377         | 29.0            | 2.0         | 3.1        | 8.2                         | 18.3        | 0.0             | 37.0              | 9.7              | 0.0                        | 0.0        | 0.0        | 0.0                       |
| Rwebitaba     | 104,279        | 65.9            | 3.1         | 5.6        | 9.1                         | 21.2        | 1.8             | 7.7               | 1.9              | 0.0                        | 2.5        | 0.0        | 0.0                       |
| <b>Uganda</b> | <b>987,250</b> | <b>55.5</b>     | <b>1.6</b>  | <b>4.8</b> | <b>7.9</b>                  | <b>11.8</b> | <b>0.6</b>      | <b>19.8</b>       | <b>4.8</b>       | <b>1.1</b>                 | <b>1.9</b> | <b>0.1</b> | <b>0.6</b>                |

Notes: Denominator is Ag HHs that received advisory services. Mgmt – management

Table 5-5: Percentage distribution of Agricultural Households that received extension (advisory) services by type of service provider and sub-region

| Sub-region    | Ag HHs         | Input suppliers | NGOs        | Cooperatives/<br>farmer associations | Large-scale farmers | Government extension officers | Model farmers | Commercial officers | Others     |
|---------------|----------------|-----------------|-------------|--------------------------------------|---------------------|-------------------------------|---------------|---------------------|------------|
| South Buganda | 99,199         | 43.3            | 7.2         | 13.0                                 | 11.2                | 34.6                          | 7.5           | 1.1                 | 0.0        |
| North Buganda | 137,202        | 7.5             | 18.7        | 3.4                                  | 6.7                 | 65.4                          | 2.7           | 0.0                 | 2.6        |
| West Nile     | 70,492         | 1.7             | 42.1        | 3.2                                  | 0.0                 | 53.8                          | 0.0           | 1.8                 | 0.0        |
| Lango         | 37,992         | 49.2            | 26.3        | 2.3                                  | 0.0                 | 22.4                          | 4.3           | 2.3                 | 0.0        |
| Acholi        | 71,378         | 18.7            | 52.1        | 10.6                                 | 0.0                 | 16.4                          | 2.9           | 12.5                | 1.1        |
| Kigezi        | 72,854         | 33.0            | 15.0        | 21.5                                 | 8.8                 | 28.0                          | 3.6           | 5.6                 | 0.7        |
| Bunyoro       | 70,300         | 8.3             | 32.6        | 20.7                                 | 4.7                 | 43.4                          | 2.7           | 0.0                 | 4.6        |
| Tooro         | 104,279        | 16.4            | 25.5        | 21.4                                 | 4.1                 | 50.7                          | 6.3           | 9.1                 | 0.0        |
| Busoga        | 139,354        | 22.1            | 37.1        | 8.6                                  | 10.3                | 45.8                          | 10.3          | 4.3                 | 6.5        |
| Teso          | 15,313         | 51.3            | 30.5        | 21.0                                 | 0.0                 | 4.4                           | 0.0           | 7.2                 | 0.0        |
| Bukedi        | 36,282         | 0.0             | 34.7        | 7.2                                  | 0.0                 | 58.1                          | 2.4           | 0.0                 | 0.0        |
| Elgon         | 46,070         | 12.5            | 3.4         | 5.9                                  | 0.0                 | 77.6                          | 3.8           | 1.7                 | 0.0        |
| Karamoja      | 18,609         | 2.0             | 84.8        | 0.0                                  | 1.9                 | 11.4                          | 3.2           | 0.0                 | 0.0        |
| Ankole        | 66,714         | 37.2            | 15.5        | 13.5                                 | 2.9                 | 36.1                          | 4.4           | 0.0                 | 0.0        |
| <b>Uganda</b> | <b>986,038</b> | <b>20.6</b>     | <b>27.1</b> | <b>11.2</b>                          | <b>5.2</b>          | <b>44.0</b>                   | <b>4.7</b>    | <b>3.4</b>          | <b>1.7</b> |

Table 5-6: Percentage distribution of Agricultural Households that received extension (advisory) services by type of service provider and ZARDI

|               | <b>Ag HHs</b>  | <b>Input<br/>suppliers</b> | <b>NGOs</b> | <b>Cooperatives/<br/>farmer<br/>associations</b> | <b>Large-<br/>scale<br/>farmers</b> | <b>Government<br/>extension<br/>officers</b> | <b>Model<br/>farmers</b> | <b>Commercial<br/>officers</b> | <b>Others</b> |
|---------------|----------------|----------------------------|-------------|--|-------------------------------------|--|--------------------------|--------------------------------|---------------|
| Abi           | 70,492         | 1.7                        | 42.1        | 3.2  | 0.0                                 | 53.8   | 0.0                      | 1.8                            | 0.0           |
| Buginyanya    | 221,705        | 16.5                       | 29.7        | 7.8  | 6.4                                 | 54.4   | 7.6                      | 3.0                            | 4.1           |
| Bulindi       | 70,300         | 8.3                        | 32.6        | 20.7   | 4.7                                 | 43.4   | 2.7                      | 0.0                            | 4.6           |
| Kachwekano    | 72,854         | 33.0                       | 15.0        | 21.5   | 8.8                                 | 28.0   | 3.6                      | 5.6                            | 0.7           |
| Mukono        | 209,950        | 20.7                       | 15.0        | 7.7  | 9.0                                 | 52.5   | 3.6                      | 0.5                            | 1.7           |
| Ngetta        | 109,370        | 29.3                       | 43.1        | 7.8  | 0.0                                 | 18.5   | 3.4                      | 9.0                            | 0.7           |
| Nabuin        | 18,609         | 2.0                        | 84.8        | 0.0  | 1.9                                 | 11.4   | 3.2                      | 0.0                            | 0.0           |
| Serere        | 15,313         | 51.3                       | 30.5        | 21.0   | 0.0                                 | 4.4  | 0.0                      | 7.2                            | 0.0           |
| Mbarara       | 94,377         | 36.7                       | 12.4        | 11.1   | 3.5                                 | 41.6   | 6.9                      | 0.0                            | 0.0           |
| Rwebitaba     | 104,279        | 16.4                       | 25.5        | 21.4   | 4.1                                 | 50.7   | 6.3                      | 9.1                            | 0.0           |
| <b>Uganda</b> | <b>987,250</b> | <b>20.6</b>                | <b>27.0</b> | <b>11.2</b>                                      | <b>5.1</b>                          | <b>44.0</b>                                  | <b>4.7</b>               | <b>3.4</b>                     | <b>1.7</b>    |

Table 5-7 Percentage of Agricultural Households that paid for the extension (advisory) services

| <b>Sub-region</b> | <b>Ag HHS</b>  | <b>Percent</b> | <b>Mean (amount paid UGX)</b> |
|-------------------|----------------|----------------|-------------------------------|
| South Buganda     | 99,199         | 1.9            | 56,824                        |
| North Buganda     | 137,202        | 2.0            | 23,571                        |
| West Nile         | 70,492         | 2.0            | 9,475                         |
| Lango             | 37,992         | 2.0            |                               |
| Acholi            | 71,378         | 1.9            | 76,675                        |
| Kigezi            | 72,854         | 2.0            | 5,507                         |
| Bunyoro           | 70,300         | 1.9            | 15,861                        |
| Tooro             | 104,279        | 2.0            | 5,539                         |
| Busoga            | 139,354        | 1.9            | 45,271                        |
| Teso              | 15,313         | 1.8            | 17,663                        |
| Bukedi            | 36,282         | 2.0            | 10,000                        |
| Elgon             | 46,070         | 1.9            | 31,109                        |
| Karamoja          | 18,609         | 2.0            | 2                             |
| Ankole            | 66,714         | 1.8            | 47,632                        |
| <b>Uganda</b>     | <b>986,038</b> | <b>1.9</b>     | <b>42,882</b>                 |

Table 5-8 Percentage of Agricultural Households that paid for the extension (advisory) services

| <b>ZARDI</b>  | <b>Ag HHS</b>  | <b>Percent</b> |
|---------------|----------------|----------------|
| Abi           | 70,492         | 2.0            |
| Buginyanya    | 221,705        | 1.9            |
| Bulindi       | 70,300         | 1.9            |
| Kachwekano    | 72,854         | 2.0            |
| Mukono        | 209,950        | 1.9            |
| Ngetta        | 109,370        | 1.9            |
| Nabuin        | 18,609         | 2.0            |
| Serere        | 15,313         | 1.8            |
| Mbarara       | 94,377         | 1.8            |
| Rwebitaba     | 104,279        | 2.0            |
| <b>Uganda</b> | <b>987,250</b> | <b>1.9</b>     |



Table 5-9: Percent distribution of Agricultural Households that received extension (advisory) services by level of satisfaction

| <b>ZARDI</b>  | <b>Ag HHs</b>  | <b>Good</b> | <b>Fair</b> | <b>Bad</b> |
|---------------|----------------|-------------|-------------|------------|
| Abi           | 70,492         | 94.5        | 4.1         | 1.3        |
| Buginyanya    | 221,705        | 95.8        | 6.2         | 0.7        |
| Bulindi       | 70,300         | 94.7        | 6.9         | 0.0        |
| Kachwekano    | 72,854         | 96.6        | 6.4         | 0.9        |
| Mukono        | 209,950        | 94.0        | 6.0         | 0.9        |
| Ngetta        | 109,370        | 91.0        | 10.9        | 0.0        |
| Nabuin        | 18,609         | 84.1        | 15.9        | 0.0        |
| Serere        | 15,313         | 94.7        | 5.3         | 0.0        |
| Mbarara       | 94,377         | 86.3        | 16.1        | 0.0        |
| Rwebitaba     | 104,279        | 99.0        | 5.2         | 2.5        |
| <b>Uganda</b> | <b>987,250</b> | <b>94.0</b> | <b>7.6</b>  | <b>0.8</b> |

Table 5-10: Percentage distribution of responses to quality of advisory services by level of satisfaction and source

| Extension service source            | Ag HHs  | Good | Fair | Bad |
|-------------------------------------|---------|------|------|-----|
| Input suppliers                     | 203,131 | 88.9 | 11.1 | 0.0 |
| NGOs                                | 266,788 | 93.8 | 5.9  | 0.3 |
| Cooperative/farmers associations    | 110,422 | 90.2 | 7.5  | 2.3 |
| Large-scale farmers                 | 50,834  | 84.8 | 15.2 | 0.0 |
| Local Government extension officers | 434,838 | 94.0 | 5.0  | 1.0 |
| Model farmers                       | 46,379  | 98.6 | 1.4  | 0.0 |
| Commercial officers                 | 33,558  | 93.9 | 6.1  | 0.0 |
| Others                              | 17,108  | 96.9 | 3.1  | 0.0 |

Table 5-11: Percentage distribution of Agricultural Households that received advisory services by method to acquire the advice

| Sub-region    | Ag HHs receiving service upon explicit request |             | Average number of visits |                  |                |                       |
|---------------|--|-------------|--------------------------|------------------|----------------|-----------------------|
|               | Ag HHs   | Percent     | Ag HHs                   | Mean (on demand) | Ag HHs         | Mean (without demand) |
| South Buganda | 99,199   | 52.6        | 52,133                   | 1.3              | 47,066         | 0.6                   |
| North Buganda | 137,202  | 35.2        | 48,268                   | 2.2              | 88,935         | 1.2                   |
| West Nile     | 70,492   | 10.2        | 7,217                    | 2.7              | 63,275         | 2.3                   |
| Lango         | 37,992   | 15.1        | 5,731                    | 1.8              | 32,262         | 1.8                   |
| Acholi        | 71,378   | 28.8        | 20,565                   | 1.1              | 50,813         | 2.4                   |
| Kigezi        | 72,854   | 41.3        | 30,068                   | 3.0              | 42,786         | 1.9                   |
| Bunyoro       | 70,300   | 8.0         | 5,627                    | 2.1              | 64,674         | 0.9                   |
| Tooro         | 104,279  | 19.0        | 19,768                   | 1.4              | 84,511         | 2.1                   |
| Busoga        | 139,354  | 49.2        | 68,626                   | 1.7              | 70,728         | 2.3                   |
| Teso          | 15,313   | 64.1        | 9,818                    | 1.8              | 5,495          | 1.3                   |
| Bukedi        | 36,282   | 5.1         | 1,848                    | 1.6              | 34,434         | 0.8                   |
| Elgon         | 46,070   | 17.6        | 8,107                    | 2.2              | 37,963         | 2.0                   |
| Karamoja      | 18,609   | 15.8        | 2,947                    | 1.7              | 15,662         | 2.3                   |
| Ankole        | 66,714   | 38.7        | 25,801                   | 2.1              | 40,913         | 2.1                   |
| <b>Uganda</b> | <b>986,038</b>                                 | <b>31.1</b> | <b>306,520</b>           | <b>1.9</b>       | <b>679,518</b> | <b>1.7</b>            |

Table 5-12 Percentage distribution of Ag HHs that received advisory services by method to acquire the advice

| <b>ZARDI</b>  | <b>Ag HHs receiving service upon explicit request</b> |                | <b>Average number of visits</b> |                               |                |                                 |
|---------------|---|----------------|---------------------------------|-------------------------------|----------------|---------------------------------|
|               | <b>Ag HHs</b>   | <b>Percent</b> | <b>Ag HHs</b>                   | <b>Upon explicit request)</b> | <b>Ag HHs</b>  | <b>Without explicit request</b> |
| Abi           | 70,492  | 10.2           | 7,217                           | 2.7                           | 63,275         | 2.3                             |
| Buginyanya    | 221,705   | 35.4           | 78,580                          | 1.8                           | 143,126        | 1.9                             |
| Bulindi       | 70,300  | 8.0            | 5,627                           | 2.1                           | 64,674         | 0.9                             |
| Kachwekano    | 72,854  | 41.3           | 30,068                          | 3.0                           | 42,786         | 1.9                             |
| Mukono        | 209,950   | 42.1           | 88,415                          | 1.8                           | 121,534        | 1.1                             |
| Ngetta        | 109,370   | 24.0           | 26,296                          | 1.3                           | 83,075         | 2.2                             |
| Nabuin        | 18,609  | 15.8           | 2,947                           | 1.7                           | 15,662         | 2.3                             |
| Serere        | 15,313  | 64.1           | 9,818                           | 1.8                           | 5,495          | 1.3                             |
| Mbarara       | 94,377  | 40.0           | 37,786                          | 1.9                           | 56,591         | 1.6                             |
| Rwebitaba     | 104,279   | 19.0           | 19,768                          | 1.4                           | 84,511         | 2.1                             |
| <b>Uganda</b> | <b>987,250</b>  | <b>31.0</b>    | <b>306,520</b>                  | <b>1.9</b>                    | <b>680,730</b> | <b>1.7</b>                      |

Table 5-13: Percentage distribution of adult Household members that received advisory services by sex and sub-region

| <b>Sub-region</b> | <b>Ag HHs</b>  | <b>Male</b> | <b>Female</b> | <b>Both genders</b> |
|-------------------|----------------|-------------|---------------|---------------------|
| South Buganda     | 99,199         | 50          | 38            | 12                  |
| North Buganda     | 137,202        | 55          | 33            | 12                  |
| West Nile         | 70,492         | 44          | 35            | 21                  |
| Lango             | 37,992         | 54          | 18            | 29                  |
| Acholi            | 71,378         | 50          | 33            | 17                  |
| Kigezi            | 72,854         | 49          | 33            | 18                  |
| Bunyoro           | 70,300         | 64          | 22            | 13                  |
| Tooro             | 104,279        | 38          | 39            | 23                  |
| Busoga            | 139,354        | 47          | 35            | 18                  |
| Teso              | 15,313         | 54          | 30            | 16                  |
| Bukedi            | 36,282         | 40          | 54            | 6                   |
| Elgon             | 46,070         | 52          | 25            | 24                  |
| Karamoja          | 18,609         | 23          | 59            | 18                  |
| Ankole            | 66,714         | 37          | 52            | 13                  |
| <b>Uganda</b>     | <b>986,038</b> | <b>48</b>   | <b>35</b>     | <b>17</b>           |

Table 5-14: Percentage distribution of adult household members that received advisory services by sex and ZARDI

| <b>ZARDI</b>  | <b>Ag HHs</b>  | <b>Male</b> | <b>Female</b> | <b>Both gender</b> |
|---------------|----------------|-------------|---------------|--------------------|
| Abi           | 70,492         | 44          | 35            | 21                 |
| Buginyanya    | 221,705        | 47          | 36            | 17                 |
| Bulindi       | 70,300         | 64          | 22            | 13                 |
| Kachwekano    | 72,854         | 49          | 33            | 18                 |
| Mukono        | 208,738        | 56          | 32            | 12                 |
| Ngetta        | 109,370        | 51          | 28            | 21                 |
| Nabuin        | 18,609         | 23          | 59            | 18                 |
| Serere        | 15,313         | 54          | 30            | 16                 |
| Mbarara       | 94,377         | 35          | 54            | 13                 |
| Rwebitaba     | 104,279        | 38          | 39            | 23                 |
| <b>Uganda</b> | <b>986,038</b> | <b>48</b>   | <b>35</b>     | <b>17</b>          |

## Annex 5.

Table 6-1: Maize area, production and yields by sub-region

| Sub-region    | First season     |                 |                  |            |            | Second season  |                 |                  |            |            | Total            |                  |                  |            |            |
|---------------|------------------|-----------------|------------------|------------|------------|----------------|-----------------|------------------|------------|------------|------------------|------------------|------------------|------------|------------|
|               | Area planted     | Area harvested* | Production       | Yield**    | Yield***   | Area planted   | Area harvested* | Production       | Yield**    | Yield***   | Area planted     | Area harvested*  | Production       | Yield**    | Yield***   |
|               | (ha)             | (ha)            | (MT)             | (MT/ha)    | (MT/ha)    | (ha)           | (ha)            | (MT)             | (MT/ha)    | (MT/ha)    | (ha)             | (ha)             | (MT)             | (MT/ha)    | (MT/ha)    |
| South Buganda | 125,557          | 115,469         | 191,530          | 1.7        | 1.5        | 102,767        | 83,934          | 194,276          | 2.3        | 1.9        | 228,324          | 199,402          | 385,806          | 1.9        | 1.7        |
| North Buganda | 215,227          | 192,546         | 417,710          | 2.2        | 1.9        | 223,404        | 160,692         | 431,736          | 2.7        | 1.9        | 438,631          | 353,237          | 849,446          | 2.4        | 1.9        |
| West Nile     | 39,240           | 33,132          | 41,948           | 1.3        | 1.1        | 13,264         | 6,748           | 17,794           | 2.6        | 1.3        | 52,504           | 39,881           | 59,743           | 1.5        | 1.1        |
| Lango         | 69,185           | 67,265          | 103,058          | 1.5        | 1.5        | 137,032        | 66,295          | 195,502          | 2.9        | 1.4        | 206,217          | 133,560          | 298,560          | 2.2        | 1.4        |
| Acholi        | 47,942           | 41,733          | 67,894           | 1.6        | 1.4        | 10,697         | 6,349           | 12,647           | 2.0        | 1.2        | 58,639           | 48,082           | 80,541           | 1.7        | 1.4        |
| Kigezi        | 5,229            | 4,389           | 7,369            | 1.7        | 1.4        | 9,893          | 3,582           | 16,406           | 4.6        | 1.7        | 15,121           | 7,971            | 23,774           | 3.0        | 1.6        |
| Bunyoro       | 175,979          | 170,452         | 399,311          | 2.3        | 2.3        | 157,769        | 93,772          | 286,465          | 3.1        | 1.8        | 333,749          | 264,224          | 685,776          | 2.6        | 2.1        |
| Tooro         | 64,066           | 53,605          | 161,020          | 3.0        | 2.5        | 85,373         | 45,902          | 196,466          | 4.3        | 2.3        | 149,440          | 99,507           | 357,487          | 3.6        | 2.4        |
| Busoga        | 124,579          | 117,553         | 178,943          | 1.5        | 1.4        | 104,779        | 73,939          | 127,450          | 1.7        | 1.2        | 229,357          | 191,492          | 306,394          | 1.6        | 1.3        |
| Teso          | 43,329           | 38,173          | 52,369           | 1.4        | 1.2        | 50,806         | 20,599          | 31,726           | 1.5        | 0.6        | 94,134           | 58,772           | 84,095           | 1.4        | 0.9        |
| Bukedi        | 46,005           | 44,579          | 68,965           | 1.5        | 1.5        | 38,307         | 19,856          | 51,511           | 2.6        | 1.3        | 84,313           | 64,436           | 120,476          | 1.9        | 1.4        |
| Elgon         | 77,029           | 61,935          | 160,513          | 2.6        | 2.1        | 13,875         | 4,763           | 16,305           | 3.4        | 1.2        | 90,904           | 66,698           | 176,818          | 2.7        | 1.9        |
| Karamoja      | 28,988           | 18,613          | 22,663           | 1.2        | 0.8        | 5,237          | 699             | 5,061            | 7.2        | 1.0        | 34,226           | 19,312           | 27,724           | 1.4        | 0.8        |
| Ankole        | 8,774            | 8,025           | 18,387           | 2.3        | 2.1        | 11,986         | 7,469           | 35,452           | 4.7        | 3.0        | 20,760           | 15,494           | 53,839           | 3.5        | 2.6        |
| <b>Uganda</b> | <b>1,071,129</b> | <b>967,469</b>  | <b>1,891,681</b> | <b>2.0</b> | <b>1.8</b> | <b>965,188</b> | <b>594,598</b>  | <b>1,618,798</b> | <b>2.7</b> | <b>1.7</b> | <b>2,036,318</b> | <b>1,562,067</b> | <b>3,510,479</b> | <b>2.2</b> | <b>1.7</b> |

Notes: \*The total area harvested is the total area planted, calculated on those observations whose production is available (not missing) and higher than zero. \*\*Ratio between production (MT) and area harvested (Ha).

Table 6-1a: Coefficients of variation (CVs) for maize area and production by sub-region

| <i>Sub-region</i>    | <i>First season</i>    |                          |                      | <i>Second season</i>   |                          |                      | <i>Total</i>           |                          |                      |
|----------------------|------------------------|--------------------------|----------------------|------------------------|--------------------------|----------------------|------------------------|--------------------------|----------------------|
|                      | <i>CV area planted</i> | <i>CV area harvested</i> | <i>CV production</i> | <i>CV area planted</i> | <i>CV area harvested</i> | <i>CV production</i> | <i>CV area planted</i> | <i>CV area harvested</i> | <i>CV production</i> |
| <i>South Buganda</i> | 22.2                   | 23.0                     | 18.3                 | 19.1                   | 22.7                     | 21.7                 | 16.5                   | 17.6                     | 16.4                 |
| <i>North Buganda</i> | 14.4                   | 14.6                     | 15.1                 | 13.0                   | 14.2                     | 15.4                 | 13.3                   | 14.0                     | 14.7                 |
| <i>West Nile</i>     | 13.4                   | 14.6                     | 15.9                 | 17.8                   | 22.1                     | 19.4                 | 11.6                   | 13.4                     | 13.9                 |
| <i>Lango</i>         | 15.1                   | 14.9                     | 15.1                 | 11.7                   | 14.0                     | 14.8                 | 12.0                   | 13.1                     | 13.8                 |
| <i>Acholi</i>        | 16.6                   | 17.5                     | 20.0                 | 18.4                   | 19.4                     | 21.5                 | 13.3                   | 15.4                     | 17.0                 |
| <i>Kigezi</i>        | 25.8                   | 28.0                     | 32.1                 | 23.0                   | 18.7                     | 25.9                 | 20.8                   | 21.9                     | 23.2                 |
| <i>Bunyoro</i>       | 15.3                   | 15.3                     | 15.5                 | 14.9                   | 18.2                     | 17.1                 | 14.8                   | 15.2                     | 15.2                 |
| <i>Tooro</i>         | 26.1                   | 23.9                     | 25.7                 | 21.2                   | 29.6                     | 23.0                 | 22.7                   | 25.2                     | 23.5                 |
| <i>Busoga</i>        | 11.4                   | 12.3                     | 11.3                 | 11.2                   | 12.9                     | 13.1                 | 10.6                   | 11.7                     | 10.8                 |
| <i>Teso</i>          | 16.3                   | 12.5                     | 17.7                 | 13.9                   | 14.3                     | 18.6                 | 13.4                   | 11.4                     | 16.7                 |
| <i>Bukedi</i>        | 9.9                    | 9.8                      | 11.4                 | 10.5                   | 12.6                     | 12.6                 | 9.1                    | 9.0                      | 10.6                 |
| <i>Elgon</i>         | 17.7                   | 17.6                     | 21.8                 | 28.2                   | 22.7                     | 31.4                 | 16.3                   | 16.8                     | 20.8                 |
| <i>Karamoja</i>      | 18.9                   | 24.1                     | 27.3                 | 93.5                   | 63.3                     | 95.8                 | 22.7                   | 24.4                     | 32.2                 |
| <i>Ankole</i>        | 19.0                   | 20.5                     | 20.1                 | 13.2                   | 15.8                     | 16.5                 | 14.6                   | 17.3                     | 16.7                 |
| <b><i>Uganda</i></b> | <b>5.5</b>             | <b>5.6</b>               | <b>6</b>             | <b>5.3</b>             | <b>6.6</b>               | <b>6.7</b>           | <b>5.0</b>             | <b>5.4</b>               | <b>5.9</b>           |



Table 6-2: Maize area, production and yields by ZARDI

| ZARDI         | First season 2020 |                       |                  |                 |                  | Second season 2020 |                       |                  |                 |                  | Total 2020        |                       |                  |                 |                  |
|---------------|-------------------|-----------------------|------------------|-----------------|------------------|--------------------|-----------------------|------------------|-----------------|------------------|-------------------|-----------------------|------------------|-----------------|------------------|
|               | Area Planted (Ha) | Area Harvested * (Ha) | Production (MT)  | Yield** (MT/Ha) | Yield*** (MT/Ha) | Area Planted (Ha)  | Area Harvested * (Ha) | Production (MT)  | Yield** (MT/Ha) | Yield*** (MT/Ha) | Area Planted (Ha) | Area Harvested * (Ha) | Production (MT)  | Yield** (MT/Ha) | Yield*** (MT/Ha) |
| Abi           | 39,240            | 33,132                | 41,948           | 1.3             | 1.1              | 13,264             | 6,748                 | 17,794           | 2.6             | 1.3              | 52,504            | 39,881                | 59,743           | 1.5             | 1.1              |
| Buginyanya    | 247,613           | 224,080               | 408,422          | 1.8             | 1.6              | 156,960            | 98,558                | 195,266          | 2.0             | 1.2              | 404,573           | 322,626               | 603,688          | 1.9             | 1.5              |
| Bulindi       | 175,979           | 170,787               | 399,311          | 2.3             | 2.3              | 157,769            | 93,772                | 286,465          | 3.1             | 1.8              | 333,749           | 264,224               | 685,776          | 2.6             | 2.1              |
| Kachwekano    | 5,229             | 4,492                 | 7,369            | 1.6             | 1.4              | 9,893              | 3,582                 | 16,406           | 4.6             | 1.7              | 15,121            | 7,971                 | 23,774           | 3.0             | 1.6              |
| Mukono        | 313,936           | 283,448               | 566,976          | 2.0             | 1.8              | 298,871            | 222,184               | 572,777          | 2.6             | 1.9              | 612,807           | 505,633               | 1,139,753        | 2.3             | 1.9              |
| Ngetta        | 117,127           | 108,997               | 170,952          | 1.6             | 1.5              | 147,729            | 72,644                | 208,149          | 2.9             | 1.4              | 264,856           | 181,641               | 379,101          | 2.1             | 1.4              |
| Nabuin        | 28,988            | 18,613                | 22,663           | 1.2             | 0.8              | 5,237              | 699                   | 5,061            | 7.2             | 1.0              | 34,226            | 19,312                | 27,724           | 1.4             | 0.8              |
| Serere        | 43,329            | 38,173                | 52,369           | 1.4             | 1.2              | 50,806             | 20,599                | 31,726           | 1.5             | 0.6              | 94,134            | 58,772                | 84,095           | 1.4             | 0.9              |
| Mbarara       | 35,622            | 32,737                | 60,651           | 1.9             | 1.7              | 39,286             | 29,910                | 88,688           | 3.0             | 2.3              | 74,907            | 62,501                | 149,339          | 2.4             | 2.0              |
| Rwebitaba     | 64,066            | 53,605                | 161,020          | 3.0             | 2.5              | 85,373             | 45,902                | 196,466          | 4.3             | 2.3              | 149,440           | 99,507                | 357,487          | 3.6             | 2.4              |
| <b>Uganda</b> | <b>1,071,129</b>  | <b>968,064</b>        | <b>1,891,681</b> | <b>2.0</b>      | <b>1.8</b>       | <b>965,188</b>     | <b>594,598</b>        | <b>1,618,798</b> | <b>2.7</b>      | <b>1.7</b>       | <b>2,036,318</b>  | <b>1,562,067</b>      | <b>3,510,479</b> | <b>2.2</b>      | <b>1.7</b>       |

Notes: \*The total area harvested is the total area planted, calculated on those observations whose production is available (not missing) and higher than zero. \*\*Ratio between production (MT) and area harvested (Ha).

Table 6-2a: Coefficients of variation (CVs) for maize area and production by ZARDI

| <i>ZARDI</i>         | <i>First season</i>    |                          |                      | <i>Second season</i>   |                          |                      | <i>Total</i>           |                          |                      |
|----------------------|------------------------|--------------------------|----------------------|------------------------|--------------------------|----------------------|------------------------|--------------------------|----------------------|
|                      | <i>CV area planted</i> | <i>CV area harvested</i> | <i>CV production</i> | <i>CV area planted</i> | <i>CV area harvested</i> | <i>CV production</i> | <i>CV area planted</i> | <i>CV area harvested</i> | <i>CV production</i> |
| <i>Abi</i>           | 13.4                   | 14.6                     | 15.9                 | 17.8                   | 22.1                     | 19.4                 | 17.8                   | 22.1                     | 19.4                 |
| <i>Buginyanya</i>    | 8.2                    | 8.3                      | 10.1                 | 8.3                    | 10.0                     | 9.5                  | 8.3                    | 10.0                     | 9.5                  |
| <i>Bulindi</i>       | 15.3                   | 15.3                     | 15.5                 | 14.9                   | 18.2                     | 17.1                 | 14.9                   | 18.2                     | 17.1                 |
| <i>Kachwekano</i>    | 25.8                   | 28.0                     | 32.1                 | 23.0                   | 18.7                     | 25.9                 | 23.0                   | 18.7                     | 25.9                 |
| <i>Mukono</i>        | 13.5                   | 13.8                     | 12.9                 | 11.7                   | 13.2                     | 13.7                 | 11.7                   | 13.2                     | 13.7                 |
| <i>Ngetta</i>        | 11.2                   | 11.4                     | 12.1                 | 11.0                   | 12.8                     | 13.9                 | 11.0                   | 12.8                     | 13.9                 |
| <i>Nabuin</i>        | 18.9                   | 24.1                     | 27.3                 | 93.5                   | 63.3                     | 95.8                 | 93.5                   | 63.3                     | 95.8                 |
| <i>Serere</i>        | 16.3                   | 12.5                     | 17.7                 | 13.9                   | 14.3                     | 18.6                 | 13.9                   | 14.3                     | 18.6                 |
| <i>Mbarara</i>       | 22.0                   | 23.0                     | 20.2                 | 24.4                   | 29.4                     | 21.6                 | 24.4                   | 29.4                     | 21.6                 |
| <i>Rwebitaba</i>     | 26.1                   | 23.9                     | 25.7                 | 21.2                   | 29.6                     | 23.0                 | 21.2                   | 29.6                     | 23.0                 |
| <b><i>Uganda</i></b> | <b>5.5</b>             | <b>5.6</b>               | <b>6.0</b>           | <b>5.3</b>             | <b>6.6</b>               | <b>6.7</b>           | <b>5.0</b>             | <b>5.4</b>               | <b>5.9</b>           |

Table 6-3: Millet area, production and yield by sub-region

| Sub-region    | First season   |                 |               |            |            | Second season |                 |               |            |            | Total          |                 |               |            |            |
|---------------|----------------|-----------------|---------------|------------|------------|---------------|-----------------|---------------|------------|------------|----------------|-----------------|---------------|------------|------------|
|               | Area planted   | Area harvested* | Production    | Yield**    | Yield***   | Area planted  | Area harvested* | Production    | Yield**    | Yield***   | Area planted   | Area harvested* | Production    | Yield**    | Yield***   |
|               | (ha)           | (ha)            | (MT)          | (MT/ha)    | (MT/ha)    | (ha)          | (ha)            | (MT)          | (MT/ha)    | (MT/ha)    | (ha)           | (ha)            | (MT)          | (MT/ha)    | (MT/ha)    |
| South Buganda | 669            | 669             | 293           | 0.4        | 0.4        | 616           | 377             | 272           | 0.7        | 0.4        | 1,285          | 1,045           | 565           | 0.5        | 0.4        |
| North Buganda | 928            | 928             | 458           | 0.5        | 0.5        | 610           | 417             | 320           | 0.8        | 0.5        | 1,539          | 1,345           | 778           | 0.6        | 0.5        |
| West Nile     | 1,235          | 848             | 184           | 0.2        | 0.1        | 1,999         | 1,357           | 947           | 0.7        | 0.5        | 3,234          | 2,205           | 1,131         | 0.5        | 0.3        |
| Lango         | 17,721         | 17,721          | 5,752         | 0.3        | 0.3        | 5,409         | 3,266           | 1,173         | 0.4        | 0.2        | 23,130         | 20,986          | 6,925         | 0.3        | 0.3        |
| Acholi        | 44,338         | 38,493          | 10,016        | 0.3        | 0.2        | 10,846        | 4,685           | 1,773         | 0.4        | 0.2        | 55,184         | 43,179          | 11,789        | 0.3        | 0.2        |
| Kigezi        | 1,188          | 1,047           | 794           | 0.8        | 0.7        | 10,105        | 5,543           | 5,322         | 1.0        | 0.5        | 11,293         | 6,590           | 6,115         | 0.9        | 0.5        |
| Bunyoro       | 739            | 739             | 203           | 0.3        | 0.3        | 1,244         | 900             | 379           | 0.4        | 0.3        | 1,983          | 1,639           | 583           | 0.4        | 0.3        |
| Tooro         | 865            | 619             | 287           | 0.5        | 0.3        | 7,929         | 3,244           | 3,388         | 1.0        | 0.4        | 8,794          | 3,862           | 3,675         | 1.0        | 0.4        |
| Busoga        | 5,803          | 5,779           | 3,798         | 0.7        | 0.7        | 2,006         | 2,006           | 475           | 0.2        | 0.2        | 7,809          | 7,785           | 4,274         | 0.5        | 0.5        |
| Teso          | 16,812         | 15,884          | 3,600         | 0.2        | 0.2        | 12,665        | 5,618           | 1,998         | 0.4        | 0.2        | 29,478         | 21,502          | 5,598         | 0.3        | 0.2        |
| Bukedi        | 14,471         | 13,922          | 5,947         | 0.4        | 0.4        | 4,212         | 455             | 928           | 2.0        | 0.2        | 18,682         | 14,377          | 6,876         | 0.5        | 0.4        |
| Elgon         | 1,320          | 1,072           | 735           | 0.7        | 0.6        | 83            | 0               | 16            |            | 0.2        | 1,403          | 1,072           | 751           | 0.7        | 0.5        |
| Karamoja      | 3,241          | 2,047           | 546           | 0.3        | 0.2        | 436           | 34              | 12            | 0.3        | 0.0        | 3,677          | 2,081           | 558           | 0.3        | 0.2        |
| Ankole        | 449            | 201             | 257           | 1.3        | 0.6        | 32,134        | 21,740          | 15,638        | 0.7        | 0.5        | 32,583         | 21,941          | 15,895        | 0.7        | 0.5        |
| <b>Uganda</b> | <b>109,778</b> | <b>99,969</b>   | <b>32,871</b> | <b>0.3</b> | <b>0.3</b> | <b>90,294</b> | <b>49,641</b>   | <b>32,640</b> | <b>0.7</b> | <b>0.4</b> | <b>200,072</b> | <b>149,610</b>  | <b>65,511</b> | <b>0.4</b> | <b>0.3</b> |

Notes: \*The total area harvested is the total area planted, calculated on those observations whose production is available (not missing) and higher than zero, between production (MT) and area harvested (Ha). (CV– Caution). Coefficient of variation is higher than 40 percent -No sample unit under this category.

Table 6- 3a: Coefficients of variation (CVs) for millet area and production by sub-region

| <i>Sub-region</i>    | <i>First Season</i>         |                               |                            | <i>Second Season</i>        |                               |                          | <i>Total</i>               |                              |                          |
|----------------------|-----------------------------|-------------------------------|----------------------------|-----------------------------|-------------------------------|--------------------------|----------------------------|------------------------------|--------------------------|
|                      | <i>CV area<br/>plant-ed</i> | <i>CV area<br/>Harve-sted</i> | <i>CV produ-<br/>ction</i> | <i>CV area<br/>plant-ed</i> | <i>CV area<br/>Harve-sted</i> | <i>CV<br/>production</i> | <i>CV area<br/>planted</i> | <i>CV area<br/>harvested</i> | <i>CV<br/>production</i> |
| <i>South Buganda</i> | 68.9                        | 68.9                          | 66.4                       | 54.0                        | 63.4                          | 58.4                     | 47.3                       | 54.3                         | 44.0                     |
| <i>North Buganda</i> | 51.1                        | 51.1                          | 58.4                       | 51.9                        | 61.0                          | 71.2                     | 44.3                       | 47.3                         | 50.9                     |
| <i>West Nile</i>     | 44.7                        | 48.8                          | 53.3                       | 39.0                        | 36.8                          | 40.5                     | 36.2                       | 30.7                         | 34.8                     |
| <i>Lango</i>         | 26.3                        | 26.3                          | 24.9                       | 35.1                        | 49.1                          | 44.9                     | 22.0                       | 23.9                         | 24.3                     |
| <i>Acholi</i>        | 18.9                        | 19.2                          | 20.2                       | 39.3                        | 44.6                          | 42.4                     | 17.7                       | 19.2                         | 19.3                     |
| <i>Kigezi</i>        | 35.9                        | 34.7                          | 44.2                       | 25.4                        | 20.4                          | 26.5                     | 23.4                       | 19.5                         | 23.9                     |
| <i>Bunyoro</i>       | 58.5                        | 58.5                          | 63.0                       | 35.1                        | 43.9                          | 42.0                     | 37.6                       | 44.5                         | 38.0                     |
| <i>Tooro</i>         | 45.3                        | 47.4                          | 40.9                       | 31.7                        | 26.0                          | 33.6                     | 30.0                       | 26.5                         | 32.0                     |
| <i>Busoga</i>        | 90.6                        | 91.0                          | 96.2                       | 46.4                        | 46.4                          | 59.1                     | 70.6                       | 70.8                         | 86.0                     |
| <i>Teso</i>          | 17.2                        | 16.7                          | 18.4                       | 22.9                        | 27.0                          | 24.2                     | 16.4                       | 16.0                         | 16.7                     |
| <i>Bukedi</i>        | 19.3                        | 19.6                          | 25.6                       | 66.3                        | 74.7                          | 60.6                     | 22.7                       | 20.2                         | 25.9                     |
| <i>Elgon</i>         | 47.4                        | 45.3                          | 45.5                       | 100.0                       |                               | 100.0                    | 45.6                       | 45.3                         | 44.5                     |
| <i>Karamoja</i>      | 45.0                        | 60.6                          | 50.2                       | 75.1                        | 100.0                         | 72.4                     | 47.5                       | 61.1                         | 50.1                     |
| <i>Ankole</i>        | 41.4                        | 60.1                          | 58.0                       | 11.9                        | 13.7                          | 12.1                     | 11.8                       | 13.5                         | 11.8                     |
| <b><i>Uganda</i></b> | <b>10.8</b>                 | <b>11.0</b>                   | <b>14.5</b>                | <b>9.1</b>                  | <b>9.4</b>                    | <b>9.0</b>               | <b>7.6</b>                 | <b>8.4</b>                   | <b>9.0</b>               |

Table 6- 4: Millet area, production and yields by ZARDI

| ZARDI         | First season      |                      |                 |                 |                  | Second season     |                      |                 |                 |                  | Total             |                      |                 |                 |                  |
|---------------|-------------------|----------------------|-----------------|-----------------|------------------|-------------------|----------------------|-----------------|-----------------|------------------|-------------------|----------------------|-----------------|-----------------|------------------|
|               | Area planted (ha) | Area harvested* (ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) | Area planted (ha) | Area harvested* (ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) | Area planted (ha) | Area harvested* (ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) |
| Abi           | 1,235             | 848                  | 184             | 0.2             | 0.1              | 1,999             | 1,357                | 947             | 0.7             | 0.5              | 3,234             | 2,205                | 1,131           | 0.5             | 0.3              |
| Buginyanya    | 21,594            | 20,773               | 10,481          | 0.5             | 0.5              | 6,300             | 2,461                | 1,419           | 0.6             | 0.2              | 27,894            | 23,234               | 11,900          | 0.5             | 0.4              |
| Bulindi       | 739               | 739                  | 203             | 0.3             | 0.3              | 1,244             | 900                  | 379             | 0.4             | 0.3              | 1,983             | 1,639                | 583             | 0.4             | 0.3              |
| Kachwekano    | 1,188             | 1,047                | 794             | 0.8             | 0.7              | 10,105            | 5,543                | 5,322           | 1.0             | 0.5              | 11,293            | 6,590                | 6,115           | 0.9             | 0.5              |
| Mukono        | 1,509             | 1,509                | 587             | 0.4             | 0.4              | 1,058             | 625                  | 506             | 0.8             | 0.5              | 2,567             | 2,134                | 1,093           | 0.5             | 0.4              |
| Ngetta        | 62,058            | 56,214               | 15,768          | 0.3             | 0.3              | 16,255            | 7,951                | 2,946           | 0.4             | 0.2              | 78,313            | 64,165               | 18,714          | 0.3             | 0.2              |
| Nabuin        | 3,241             | 2,047                | 546             | 0.3             | 0.2              | 436               | 34                   | 12              | 0.3             | 0.0              | 3,677             | 2,081                | 558             | 0.3             | 0.2              |
| Serere        | 16,812            | 15,884               | 3,600           | 0.2             | 0.2              | 12,665            | 5,618                | 1,998           | 0.4             | 0.2              | 29,478            | 21,502               | 5,598           | 0.3             | 0.2              |
| Mbarara       | 536               | 288                  | 422             | 1.5             | 0.8              | 32,303            | 21,909               | 15,723          | 0.7             | 0.5              | 32,839            | 22,197               | 16,145          | 0.7             | 0.5              |
| Rwebitaba     | 865               | 619                  | 287             | 0.5             | 0.3              | 7,929             | 3,244                | 3,388           | 1.0             | 0.4              | 8,794             | 3,862                | 3,675           | 1.0             | 0.4              |
| <b>Uganda</b> | <b>109,778</b>    | <b>99,969</b>        | <b>32,871</b>   | <b>0.3</b>      | <b>0.3</b>       | <b>90,294</b>     | <b>49,641</b>        | <b>32,640</b>   | <b>0.7</b>      | <b>0.4</b>       | <b>200,072</b>    | <b>149,610</b>       | <b>65,511</b>   | <b>0.4</b>      | <b>0.3</b>       |

Notes: \*The total area harvested is the total area planted, calculated on those observations whose production is available (not missing) and higher than zero. \*\*Ratio between production (MT) and area harvested (ha) \*\*\*Ratio between production (MT) and area planted (ha)

Table 6-4a: Coefficients of variation (CVs) for millet area and production by ZARDI

| <i>ZARDI</i>         | <i>First season</i>     |                                |                            | <i>Second season</i>    |                                |                      | <i>Total</i>           |                          |                      |
|----------------------|-------------------------|--------------------------------|----------------------------|-------------------------|--------------------------------|----------------------|------------------------|--------------------------|----------------------|
|                      | <i>CV area plant-ed</i> | <i>CV area harve-<br/>sted</i> | <i>CV product-<br/>ion</i> | <i>CV area plant-ed</i> | <i>CV area harve-<br/>sted</i> | <i>CV production</i> | <i>CV area planted</i> | <i>CV area harvested</i> | <i>CV production</i> |
| <i>Abi</i>           | 44.7                    | 48.8                           | 53.3                       | 39.0                    | 36.8                           | 40.5                 | 36.2                   | 30.7                     | 34.8                 |
| <i>Buginyanya</i>    | 27.7                    | 28.6                           | 37.9                       | 46.8                    | 40.3                           | 44.3                 | 25.0                   | 26.9                     | 34.4                 |
| <i>Bulindi</i>       | 58.5                    | 58.5                           | 63.0                       | 35.1                    | 43.9                           | 42.0                 | 37.6                   | 44.5                     | 38.0                 |
| <i>Kachwekano</i>    | 35.9                    | 34.7                           | 44.2                       | 25.4                    | 20.4                           | 26.5                 | 23.4                   | 19.5                     | 23.9                 |
| <i>Mukono</i>        | 43.5                    | 43.5                           | 49.2                       | 42.2                    | 52.6                           | 53.6                 | 35.3                   | 39.6                     | 40.1                 |
| <i>Ngetta</i>        | 15.5                    | 15.5                           | 15.8                       | 28.7                    | 33.1                           | 31.2                 | 14.1                   | 15.1                     | 15.1                 |
| <i>Nabuin</i>        | 45.0                    | 60.6                           | 50.2                       | 75.1                    | 100.0                          | 72.4                 | 47.5                   | 61.1                     | 50.1                 |
| <i>Serere</i>        | 17.2                    | 16.7                           | 18.4                       | 22.9                    | 27.0                           | 24.2                 | 16.4                   | 16.0                     | 16.7                 |
| <i>Mbarara</i>       | 38.3                    | 51.7                           | 52.7                       | 11.9                    | 13.6                           | 12.0                 | 11.7                   | 13.4                     | 11.7                 |
| <i>Rwebitaba</i>     | 45.3                    | 47.4                           | 40.9                       | 31.7                    | 26.0                           | 33.6                 | 30.0                   | 26.5                     | 32.0                 |
| <b><i>Uganda</i></b> | <b>10.8</b>             | <b>11.0</b>                    | <b>14.5</b>                | <b>9.1</b>              | <b>9.4</b>                     | <b>9.0</b>           | <b>7.6</b>             | <b>8.4</b>               | <b>9.0</b>           |

Table 6-5: Sorghum area, production and yields by sub-region

| Sub-region    | First season      |                      |                 |                 |                  | Second season     |                      |                 |                 |                  | Total             |                      |                 |                 |                  |
|---------------|-------------------|----------------------|-----------------|-----------------|------------------|-------------------|----------------------|-----------------|-----------------|------------------|-------------------|----------------------|-----------------|-----------------|------------------|
|               | Area planted (ha) | Area harvested* (ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) | Area Planted (ha) | Area harvested* (ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) | Area planted (ha) | Area harvested* (ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) |
| South Buganda | 270               | 270                  | 145             | 0.5             | 0.5              | 469               | 155                  | 556             | 3.6             | 1.2              | 739               | 425                  | 701             | 1.6             | 0.9              |
| North Buganda | 118               | 118                  | 12              | 0.1             | 0.1              | 891               | 138                  | 535             | 3.9             | 0.6              | 1,008             | 256                  | 546             | 2.1             | 0.5              |
| West Nile     | 6,041             | 1,439                | 563             | 0.4             | 0.1              | 18,127            | 8,867                | 11,192          | 1.3             | 0.6              | 24,169            | 10,306               | 11,755          | 1.1             | 0.5              |
| Lango         | 4,163             | 3,178                | 1,716           | 0.5             | 0.4              | 7,060             | 2,015                | 4,319           | 2.1             | 0.6              | 11,223            | 5,193                | 6,034           | 1.2             | 0.5              |
| Acholi        | 53,701            | 1,269                | 906             | 0.7             | 0.0              | 84,985            | 55,248               | 58,170          | 1.1             | 0.7              | 138,685           | 56,517               | 59,076          | 1.0             | 0.4              |
| Kigezi        | 19,728            | 17,838               | 17,773          | 1.0             | 0.9              | 778               | 507                  | 458             | 0.9             | 0.6              | 20,505            | 18,345               | 18,231          | 1.0             | 0.9              |
| Bunyoro       | 1,912             | 1,227                | 1,703           | 1.4             | 0.9              | 3,964             | 2,104                | 1,877           | 0.9             | 0.5              | 5,876             | 3,331                | 3,580           | 1.1             | 0.6              |
| Tooro         | 1,774             | 1,493                | 890             | 0.6             | 0.5              | 2,640             | 541                  | 1,059           | 2.0             | 0.4              | 4,414             | 2,034                | 1,949           | 1.0             | 0.4              |
| Busoga        | 629               | 528                  | 319             | 0.6             | 0.5              | 1,823             | 1,375                | 902             | 0.7             | 0.5              | 2,452             | 1,904                | 1,221           | 0.6             | 0.5              |
| Teso          | 17,266            | 15,738               | 10,134          | 0.6             | 0.6              | 48,938            | 18,249               | 20,827          | 1.1             | 0.4              | 66,204            | 33,986               | 30,961          | 0.9             | 0.5              |
| Bukedi        | 7,424             | 6,076                | 3,594           | 0.6             | 0.5              | 1,923             | 964                  | 849             | 0.9             | 0.4              | 9,347             | 7,041                | 4,443           | 0.6             | 0.5              |
| Elgon         | 296               | 63                   | 149             | 2.4             | 0.5              | 466               | 16                   | 53              | 3.3             | 0.1              | 762               | 79                   | 202             | 2.6             | 0.3              |
| Karamoja      | 81,925            | 23,314               | 14,800          | 0.6             | 0.2              | 285               | 142                  | 352             | 2.5             | 1.2              | 82,210            | 23,456               | 15,152          | 0.6             | 0.2              |
| Ankole        | 3,843             | 3,484                | 2,302           | 0.7             | 0.6              | 2,459             | 1,965                | 3,573           | 1.8             | 1.5              | 6,302             | 5,449                | 5,875           | 1.1             | 0.9              |
| <b>Uganda</b> | <b>199,089</b>    | <b>76,036</b>        | <b>55,006</b>   | <b>0.7</b>      | <b>0.3</b>       | <b>174,807</b>    | <b>92,286</b>        | <b>104,720</b>  | <b>1.1</b>      | <b>0.6</b>       | <b>373,897</b>    | <b>168,322</b>       | <b>159,726</b>  | <b>0.9</b>      | <b>0.4</b>       |

Notes: \*The total area harvested is the total area planted, calculated on those observations whose production is available (not missing) and higher than zero. \*\*Ratio between production (MT) and area harvested (Ha). (CV– Caution). Coefficient of variation higher than 40 percent. -No sample unit under this category

Table 6-5a: Coefficients of variation (CVs) for sorghum area and production and yields by sub-region

| <i>Sub-region</i>    | <i>First season</i>    |                          |                      | <i>Second season</i>   |                          |                      | <i>Total</i>           |                          |                      |
|----------------------|------------------------|--------------------------|----------------------|------------------------|--------------------------|----------------------|------------------------|--------------------------|----------------------|
|                      | <i>CV area planted</i> | <i>CV area harvested</i> | <i>CV production</i> | <i>CV area planted</i> | <i>CV area harvested</i> | <i>CV production</i> | <i>CV area planted</i> | <i>CV area harvested</i> | <i>CV production</i> |
| <i>South Buganda</i> | 100.0                  | 100.0                    | 100.0                | 57.1                   | 100.0                    | 58.1                 | 66.2                   | 72.6                     | 62.8                 |
| <i>North Buganda</i> | 100.0                  | 100.0                    | 100.0                | 71.4                   | 100.0                    | 71.4                 | 63.8                   | 70.2                     | 69.9                 |
| <i>West Nile</i>     | 22.6                   | 47.3                     | 36.1                 | 23.6                   | 29.2                     | 25.8                 | 22.3                   | 30.9                     | 25.8                 |
| <i>Lango</i>         | 41.0                   | 42.2                     | 35.3                 | 29.1                   | 59.3                     | 28.6                 | 25.9                   | 34.2                     | 23.6                 |
| <i>Acholi</i>        | 16.2                   | 47.5                     | 32.3                 | 16.7                   | 20.3                     | 20.0                 | 16.0                   | 20.0                     | 19.8                 |
| <i>Kigezi</i>        | 17.8                   | 17.9                     | 20.2                 | 30.5                   | 31.7                     | 31.5                 | 16.9                   | 17.2                     | 19.5                 |
| <i>Bunyoro</i>       | 65.4                   | 92.4                     | 97.8                 | 57.6                   | 62.3                     | 52.2                 | 51.4                   | 51.8                     | 53.0                 |
| <i>Tooro</i>         | 56.0                   | 65.8                     | 64.4                 | 60.8                   | 73.8                     | 60.8                 | 58.2                   | 67.2                     | 61.9                 |
| <i>Busoga</i>        | 57.8                   | 66.8                     | 63.3                 | 51.4                   | 53.1                     | 50.3                 | 47.9                   | 50.9                     | 50.9                 |
| <i>Teso</i>          | 25.3                   | 25.6                     | 22.3                 | 12.9                   | 15.0                     | 14.4                 | 12.3                   | 14.2                     | 13.4                 |
| <i>Bukedi</i>        | 22.9                   | 22.8                     | 28.3                 | 35.9                   | 53.8                     | 37.8                 | 21.9                   | 23.9                     | 28.1                 |
| <i>Elgon</i>         | 81.0                   | 100.0                    | 76.8                 | 85.1                   | 100.0                    | 69.9                 | 60.7                   | 81.6                     | 63.0                 |
| <i>Karamoja</i>      | 16.8                   | 17.7                     | 18.0                 | 60.9                   | 97.9                     | 58.9                 | 16.7                   | 17.5                     | 17.3                 |
| <i>Ankole</i>        | 31.5                   | 34.1                     | 38.1                 | 38.4                   | 45.4                     | 41.1                 | 32.5                   | 36.4                     | 35.7                 |
| <b><i>Uganda</i></b> | <b>8.8</b>             | <b>9.5</b>               | <b>10.0</b>          | <b>9.5</b>             | <b>13.1</b>              | <b>12.0</b>          | <b>7.7</b>             | <b>8.5</b>               | <b>8.8</b>           |



Table 6- 6: Sorghum area, production and yields by ZARDI

| ZARDI         | First season      |                      |                 |                 |                  | Second season     |                      |                 |                 |                  | Total             |                      |                 |                 |                  |
|---------------|-------------------|----------------------|-----------------|-----------------|------------------|-------------------|----------------------|-----------------|-----------------|------------------|-------------------|----------------------|-----------------|-----------------|------------------|
|               | Area planted (ha) | Area harvested* (ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) | Area planted (ha) | Area harvested* (ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) | Area planted (ha) | Area harvested* (ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) |
| Abi           | 6,041             | 1,439                | 563             | 0.4             | 0.1              | 18,127            | 8,867                | 11,192          | 1.3             | 0.6              | 24,169            | 10,306               | 11,755          | 1.1             | 0.5              |
| Buginyanya    | 8,349             | 6,668                | 4,062           | 0.6             | 0.5              | 4,212             | 2,356                | 1,804           | 0.8             | 0.4              | 12,561            | 9,023                | 5,866           | 0.7             | 0.5              |
| Bulindi       | 1,912             | 1,227                | 1,703           | 1.4             | 0.9              | 3,964             | 2,104                | 1,877           | 0.9             | 0.5              | 5,876             | 3,331                | 3,580           | 1.1             | 0.6              |
| Kachwekano    | 19,728            | 17,838               | 17,773          | 1.0             | 0.9              | 778               | 507                  | 458             | 0.9             | 0.6              | 20,505            | 18,345               | 18,231          | 1.0             | 0.9              |
| Mukono        | 118               | 118                  | 12              | 0.1             | 0.1              | 891               | 138                  | 535             | 3.9             | 0.6              | 1,008             | 256                  | 546             | 2.1             | 0.5              |
| Ngetta        | 57,864            | 4,447                | 2,621           | 0.6             | 0.0              | 92,045            | 57,263               | 62,489          | 1.1             | 0.7              | 149,909           | 61,710               | 65,110          | 1.1             | 0.4              |
| Nabuin        | 81,925            | 23,314               | 14,800          | 0.6             | 0.2              | 285               | 142                  | 352             | 2.5             | 1.2              | 82,210            | 23,456               | 15,152          | 0.6             | 0.2              |
| Serere        | 17,266            | 15,738               | 10,134          | 0.6             | 0.6              | 48,938            | 18,249               | 20,827          | 1.1             | 0.4              | 66,204            | 33,986               | 30,961          | 0.9             | 0.5              |
| Mbarara       | 4,113             | 3,755                | 2,447           | 0.7             | 0.6              | 2,928             | 2,120                | 4,128           | 1.9             | 1.4              | 7,041             | 5,874                | 6,575           | 1.1             | 0.9              |
| Rwebitaba     | 1,774             | 1,493                | 890             | 0.6             | 0.5              | 2,640             | 541                  | 1,059           | 2.0             | 0.4              | 4,414             | 2,034                | 1,949           | 1.0             | 0.4              |
| <b>Uganda</b> | <b>199,089</b>    | <b>76,036</b>        | <b>55,006</b>   | <b>0.7</b>      | <b>0.3</b>       | <b>174,807</b>    | <b>92,286</b>        | <b>104,720</b>  | <b>1.1</b>      | <b>0.6</b>       | <b>373,897</b>    | <b>168,322</b>       | <b>159,726</b>  | <b>0.9</b>      | <b>0.4</b>       |

Notes: \*The total area harvested is the total area planted calculated on those observations whose production is available (not missing) and higher than zero. \*\*Ratio between production (MT) and area harvested (ha). \*\*\*Ratio between production (MT) and area planted (ha)

Table 6-6a: Coefficients of variation (CVs) for sorghum area and production by ZARDI

| <i>ZARDI</i>         | <i>First season</i>        |                              |                          | <i>Second season</i>       |                              |                          | <i>Total</i>               |                              |                          |
|----------------------|----------------------------|------------------------------|--------------------------|----------------------------|------------------------------|--------------------------|----------------------------|------------------------------|--------------------------|
|                      | <i>CV area<br/>planted</i> | <i>CV area<br/>harvested</i> | <i>CV<br/>production</i> | <i>CV area<br/>planted</i> | <i>CV area<br/>harvested</i> | <i>CV<br/>production</i> | <i>CV area<br/>planted</i> | <i>CV area<br/>harvested</i> | <i>CV<br/>production</i> |
| <i>Abi</i>           | 22.6                       | 47.3                         | 36.1                     | 23.6                       | 29.2                         | 25.8                     | 22.3                       | 30.9                         | 25.8                     |
| <i>Buginyanya</i>    | 21.0                       | 21.4                         | 25.7                     | 29.2                       | 38.0                         | 30.9                     | 19.1                       | 21.6                         | 23.8                     |
| <i>Bulindi</i>       | 65.4                       | 92.4                         | 97.8                     | 57.6                       | 62.3                         | 52.2                     | 51.4                       | 51.8                         | 53.0                     |
| <i>Kachwekano</i>    | 17.8                       | 17.9                         | 20.2                     | 30.5                       | 31.7                         | 31.5                     | 16.9                       | 17.2                         | 19.5                     |
| <i>Mukono</i>        | 100.0                      | 100.0                        | 100.0                    | 71.4                       | 100.0                        | 71.4                     | 63.8                       | 70.2                         | 69.9                     |
| <i>Ngetta</i>        | 15.3                       | 33.0                         | 25.6                     | 15.5                       | 19.7                         | 18.8                     | 14.9                       | 18.6                         | 18.1                     |
| <i>Nabuin</i>        | 16.8                       | 17.7                         | 18.0                     | 60.9                       | 97.9                         | 58.9                     | 16.7                       | 17.5                         | 17.3                     |
| <i>Serere</i>        | 25.3                       | 25.6                         | 22.3                     | 12.9                       | 15.0                         | 14.4                     | 12.3                       | 14.2                         | 13.4                     |
| <i>Mbarara</i>       | 30.1                       | 32.4                         | 36.4                     | 33.5                       | 42.7                         | 36.4                     | 29.9                       | 34.2                         | 32.6                     |
| <i>Rwebitaba</i>     | 56.0                       | 65.8                         | 64.4                     | 60.8                       | 73.8                         | 60.8                     | 58.2                       | 67.2                         | 61.9                     |
| <b><i>Uganda</i></b> | <b>8.8</b>                 | <b>9.5</b>                   | <b>10.0</b>              | <b>9.5</b>                 | <b>13.1</b>                  | <b>12.0</b>              | <b>7.7</b>                 | <b>8.5</b>                   | <b>8.8</b>               |

Table 6-7: Rice area, production and yields by sub-region

| Sub-region    | First season      |                      |                 |                 |                  | Second season     |                      |                 |                |                  | Total             |                      |                 |                  |                  |
|---------------|-------------------|----------------------|-----------------|-----------------|------------------|-------------------|----------------------|-----------------|----------------|------------------|-------------------|----------------------|-----------------|------------------|------------------|
|               | Area planted (ha) | Area harvested* (ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) | Area planted (ha) | Area harvested* (ha) | Production (MT) | Yield* (MT/ha) | Yield*** (MT/ha) | Area planted (ha) | Area harvested* (ha) | Production (MT) | Yield* * (MT/ha) | Yield*** (MT/ha) |
| South Buganda | 532               | 266                  | 631             | 2.4             | 1.2              | -                 | -                    | -               | -              | -                | 532               | 266                  | 631             | 2.4              | .2               |
| North Buganda | 7,860             | 6,694                | 6,714           | 1.0             | 0.9              | 9,043             | 7,644                | 5,858           | 0.8            | 0.6              | 16,902            | 14,338               | 12,572          | 0.9              | 0.7              |
| West Nile     | 2,308             | 1,599                | 2,241           | 1.4             | 1.0              | 5,347             | 3,982                | 6,179           | 1.6            | 1.2              | 7,654             | 5,580                | 8,420           | 1.5              | 1.1              |
| Lango         | 8,002             | 5,447                | 5,587           | 1.0             | 0.7              | 7,687             | 4,658                | 7,066           | 1.5            | 0.9              | 15,689            | 10,105               | 12,653          | 1.3              | 0.8              |
| Acholi        | 22,967            | 19,157               | 35,162          | 1.8             | 1.5              | 15,681            | 13,377               | 10,765          | 0.8            | 0.7              | 38,648            | 32,535               | 45,928          | 1.4              | 1.2              |
| Kigezi        | 2,891             | 2,633                | 3,836           | 1.5             | 1.3              | 4,417             | 2,722                | 10,795          | 4.0            | 2.4              | 7,308             | 5,354                | 14,631          | 2.7              | 2.0              |
| Bunyoro       | 1,195             | 997                  | 1,427           | 1.4             | 1.2              | 8,698             | 7,132                | 11,572          | 1.6            | 1.3              | 9,893             | 8,130                | 12,999          | 1.6              | 1.3              |
| Tooro         | 1,246             | 879                  | 1,202           | 1.4             | 1.0              | 7,480             | 5,170                | 13,604          | 2.6            | 1.8              | 8,725             | 6,049                | 14,806          | 2.4              | 1.7              |
| Busoga        | 25,562            | 24,898               | 36,843          | 1.5             | 1.4              | 18,493            | 10,638               | 22,216          | 2.1            | 1.2              | 44,055            | 35,535               | 59,059          | 1.7              | 1.3              |
| Teso          | 8,333             | 6,574                | 8,627           | 1.3             | 1.0              | 6,587             | 5,533                | 5,926           | 1.1            | 0.9              | 14,921            | 12,107               | 14,553          | 1.2              | 1.0              |
| Bukedi        | 22,513            | 22,299               | 30,955          | 1.4             | 1.4              | 17,998            | 14,823               | 21,164          | 1.4            | 1.2              | 40,512            | 37,122               | 52,119          | 1.4              | 1.3              |
| Elgon         | 10,515            | 9,364                | 22,510          | 2.4             | 2.1              | 4,224             | 3,742                | 3,660           | 1.0            | 0.9              | 14,739            | 13,106               | 26,170          | 2.0              | 1.8              |
| Karamoja      | 989               | 319                  | 494             | 1.5             | 0.5              | -                 | -                    | -               | -              | -                | 989               | 319                  | 494             | 1.5              | 0.5              |
| South Buganda | 532               | 266                  | 631             | 2.4             | 1.2              | -                 | -                    | -               | -              | -                | 532               | 266                  | 631             | 2.4              | 1.2              |
| <b>Uganda</b> | <b>114,913</b>    | <b>101,124</b>       | <b>156,230</b>  | <b>1.5</b>      | <b>1.4</b>       | <b>105,654</b>    | <b>79,422</b>        | <b>118,807</b>  | <b>1.5</b>     | <b>1.1</b>       | <b>220,567</b>    | <b>180,546</b>       | <b>275,037</b>  | <b>1.5</b>       | <b>1.2</b>       |

Notes: \*The total area harvested is the total area planted calculated on those observations whose production is available (not missing) and higher than zero. \*\*Ratio between production (MT) and area harvested (ha) \*\*\*Ratio between production (MT) and area planted (ha)

Table 6-7a: Coefficients of variation (CVs) for rice area and production by sub-region

| <i>Sub-region</i>    | <i>First season</i>         |                               |                            | <i>Second season</i>        |                               |                            | <i>Total</i>               |                              |                          |
|----------------------|-----------------------------|-------------------------------|----------------------------|-----------------------------|-------------------------------|----------------------------|----------------------------|------------------------------|--------------------------|
|                      | <i>CV area<br/>Plant-ed</i> | <i>CV area<br/>harve-sted</i> | <i>CV product-<br/>ion</i> | <i>CV area<br/>Plant-ed</i> | <i>CV area<br/>harve-sted</i> | <i>CV product-<br/>ion</i> | <i>CV area<br/>planted</i> | <i>CV area<br/>harvested</i> | <i>CV<br/>production</i> |
| <i>South Buganda</i> | 100.0                       | 100.0                         | 100.0                      |                             |                               |                            | 100.0                      | 100.0                        | 100.0                    |
| <i>North Buganda</i> | 41.4                        | 40.3                          | 39.7                       | 39.1                        | 43.3                          | 39.1                       | 36.0                       | 37.6                         | 35.3                     |
| <i>West Nile</i>     | 39.5                        | 49.0                          | 53.2                       | 21.1                        | 24.6                          | 24.2                       | 22.6                       | 27.3                         | 29.8                     |
| <i>Lango</i>         | 44.1                        | 48.1                          | 40.7                       | 33.6                        | 38.5                          | 39.1                       | 33.0                       | 36.6                         | 29.8                     |
| <i>Acholi</i>        | 40.6                        | 44.4                          | 60.6                       | 48.3                        | 49.6                          | 40.9                       | 42.6                       | 45.2                         | 53.2                     |
| <i>Kigezi</i>        | 76.0                        | 77.1                          | 72.1                       | 77.6                        | 67.9                          | 80.3                       | 76.8                       | 72.1                         | 77.7                     |
| <i>Bunyoro</i>       | 52.9                        | 50.6                          | 56.5                       | 37.2                        | 37.8                          | 39.7                       | 33.6                       | 33.9                         | 35.7                     |
| <i>Tooro</i>         | 51.6                        | 54.0                          | 56.4                       | 69.3                        | 57.4                          | 64.6                       | 63.7                       | 54.8                         | 62.8                     |
| <i>Busoga</i>        | 30.1                        | 30.9                          | 34.7                       | 25.5                        | 36.5                          | 32.0                       | 26.3                       | 29.4                         | 29.6                     |
| <i>Teso</i>          | 27.1                        | 31.0                          | 35.4                       | 29.2                        | 29.3                          | 31.6                       | 23.5                       | 24.0                         | 28.0                     |
| <i>Bukedi</i>        | 16.6                        | 16.7                          | 17.6                       | 16.9                        | 17.7                          | 18.5                       | 16.0                       | 16.1                         | 16.9                     |
| <i>Elgon</i>         | 48.4                        | 53.2                          | 59.7                       | 59.5                        | 66.6                          | 55.6                       | 44.2                       | 45.7                         | 53.6                     |
| <i>Karamoja</i>      | 69.7                        | 100.0                         | 100.0                      |                             |                               |                            | 69.7                       | 100.0                        | 100.0                    |
| <b><i>Uganda</i></b> | <b>12.9</b>                 | <b>13.8</b>                   | <b>19</b>                  | <b>12.9</b>                 | <b>13.8</b>                   | <b>18.8</b>                | <b>11.5</b>                | <b>12.2</b>                  | <b>14.0</b>              |

Table 6-8: Rice area, production and yields by ZARDI

| ZARDI         | First season      |                      |                 |                 |                  | Second season     |                      |                 |                 |                  | Total             |                      |                 |                 |                  |
|---------------|-------------------|----------------------|-----------------|-----------------|------------------|-------------------|----------------------|-----------------|-----------------|------------------|-------------------|----------------------|-----------------|-----------------|------------------|
|               | Area planted (ha) | Area harvested* (ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) | Area planted (ha) | Area harvested* (ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) | Area planted (ha) | Area harvested* (ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) |
| Abi           | 2,308             | 1,599                | 2,241           | 1.4             | 1.0              | 5,347             | 3,982                | 6,179           | 1.6             | 1.2              | 7,654             | 5,580                | 8,420           | 1.5             | 1.1              |
| Buginyanya    | 58,590            | 56,560               | 90,308          | 1.6             | 1.5              | 40,715            | 29,203               | 47,040          | 1.6             | 1.2              | 99,306            | 85,762               | 137,348         | 1.6             | 1.4              |
| Bulindi       | 1,195             | 997                  | 1,427           | 1.4             | 1.2              | 8,698             | 7,132                | 11,572          | 1.6             | 1.3              | 9,893             | 8,130                | 12,999          | 1.6             | 1.3              |
| Kachwekano    | 2,891             | 2,633                | 3,836           | 1.5             | 1.3              | 4,417             | 2,722                | 10,795          | 4.0             | 2.4              | 7,308             | 5,354                | 14,631          | 2.7             | 2.0              |
| Mukono        | 8,392             | 6,960                | 7,345           | 1.1             | 0.9              | 9,043             | 7,644                | 5,858           | 0.8             | 0.6              | 17,435            | 14,604               | 13,204          | 0.9             | 0.8              |
| Ngetta        | 30,969            | 24,604               | 40,750          | 1.7             | 1.3              | 23,368            | 18,035               | 17,831          | 1.0             | 0.8              | 54,337            | 42,640               | 58,581          | 1.4             | 1.1              |
| Nabuin        | 989               | 319                  | 494             | 1.5             | 0.5              | -                 | -                    | -               | -               | -                | 989               | 319                  | 494             | 1.5             | 0.5              |
| Serere        | 8,333             | 6,574                | 8,627           | 1.3             | 1.0              | 6,587             | 5,533                | 5,926           | 1.1             | 0.9              | 14,921            | 12,107               | 14,553          | 1.2             | 1.0              |
| Mbarara       | -                 | -                    | -               | -               | -                | -                 | -                    | -               | -               | -                | -                 | -                    | -               | -               | -                |
| Rwebitaba     | 1,246             | 879                  | 1,202           | 1.4             | 1.0              | 7,480             | 5,170                | 13,604          | 2.6             | 1.8              | 8,725             | 6,049                | 14,806          | 2.4             | 1.7              |
| <b>Uganda</b> | <b>114,913</b>    | <b>101,124</b>       | <b>156,230</b>  | <b>1.5</b>      | <b>1.4</b>       | <b>105,654</b>    | <b>79,422</b>        | <b>118,807</b>  | <b>1.5</b>      | <b>1.1</b>       | <b>220,567</b>    | <b>180,546</b>       | <b>275,037</b>  | <b>1.5</b>      | <b>1.2</b>       |

Notes: \*The total area harvested is the total area planted calculated on those observations whose production is available (not missing) and higher than zero. \*\*Ratio between production (MT) and area harvested (Ha). (CV- Caution). Coefficient of variation higher than 40 percent -No sample unit under this category

Table 6-8a: Coefficients of variation (CVs) for rice area and production by ZARDI

| <b>ZARDI</b>      | <b>First season</b>         |                               |                           | <b>Second season</b>        |                               |                          | <b>Total</b>               |                              |                          |
|-------------------|-----------------------------|-------------------------------|---------------------------|-----------------------------|-------------------------------|--------------------------|----------------------------|------------------------------|--------------------------|
|                   | <b>CV area<br/>Plant-ed</b> | <b>CV area<br/>harve-sted</b> | <b>CV<br/>Product-ion</b> | <b>CV area<br/>Plant-ed</b> | <b>CV area<br/>harve-sted</b> | <b>CV<br/>production</b> | <b>CV area<br/>planted</b> | <b>CV area<br/>harvested</b> | <b>CV<br/>production</b> |
| <i>Abi</i>        | 39.5                        | 49.0                          | 53.2                      | 21.1                        | 24.6                          | 24.2                     | 22.6                       | 27.3                         | 29.8                     |
| <i>Buginyanya</i> | 17.0                        | 17.5                          | 21.4                      | 15.1                        | 18.2                          | 17.8                     | 14.9                       | 15.7                         | 17.6                     |
| <i>Bulindi</i>    | 52.9                        | 50.6                          | 56.5                      | 37.2                        | 37.8                          | 39.7                     | 33.6                       | 33.9                         | 35.7                     |
| <i>Kachwekano</i> | 76.0                        | 77.1                          | 72.1                      | 77.6                        | 67.9                          | 80.3                     | 76.8                       | 72.1                         | 77.7                     |
| <i>Mukono</i>     | 39.3                        | 39.0                          | 37.3                      | 39.1                        | 43.3                          | 39.1                     | 35.0                       | 37.0                         | 33.9                     |
| <i>Ngetta</i>     | 32.2                        | 36.2                          | 52.6                      | 34.2                        | 38.1                          | 29.2                     | 31.8                       | 35.6                         | 42.2                     |
| <i>Nabuin</i>     | 69.7                        | 100.0                         | 100.0                     | -                           | -                             | -                        | 69.7                       | 100.0                        | 100.0                    |
| <i>Serere</i>     | 27.1                        | 31.0                          | 35.4                      | 29.2                        | 29.3                          | 31.6                     | 23.5                       | 24.0                         | 28.0                     |
| <i>Mbarara</i>    | -                           | -                             | - -                       | -                           | -                             | - -                      | -                          | -                            | -                        |
| <i>Rwebitaba</i>  | 51.6                        | 54.0                          | 56.4                      | 69.3                        | 57.4                          | 64.6                     | 63.7                       | 54.8                         | 62.8                     |
| <b>Uganda</b>     | <b>12.9</b>                 | <b>13.8</b>                   | <b>18.8</b>               | <b>12.9</b>                 | <b>13.8</b>                   | <b>18.8</b>              | <b>11.5</b>                | <b>12.2</b>                  | <b>14.0</b>              |

Table 6-9: Beans area, production and yields by sub-region

| Sub-region    | First season      |                      |                 |                 |                  | Second season     |                      |                 |                 |                  | Total             |                      |                 |                 |                  |
|---------------|-------------------|----------------------|-----------------|-----------------|------------------|-------------------|----------------------|-----------------|-----------------|------------------|-------------------|----------------------|-----------------|-----------------|------------------|
|               | Area planted (ha) | Area harvested* (ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) | Area planted (ha) | Area harvested* (ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) | Area planted (ha) | Area harvested* (ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) |
| South Buganda | 56,168            | 48,078               | 30,226          | 0.6             | 0.5              |                   |                      |                 |                 |                  |                   |                      |                 |                 |                  |
| North Buganda | 91,912            | 82,720               | 53,214          | 0.6             | 0.6              | 64,380            | 67,941               | 66,742          | 1.0             | 0.6              | 120,548           | 90,021               | 77,713          | 0.9             | 0.6              |
| West Nile     | 7,324             | 5,795                | 3,043           | 0.5             | 0.4              | 108,983           | 11,335               | 8,569           | 0.8             | 0.5              | 200,896           | 150,662              | 119,951         | 0.8             | 0.6              |
| Lango         | 68,830            | 64,085               | 29,085          | 0.5             | 0.4              | 17,232            | 13,653               | 13,626          | 1.0             | 0.4              | 24,556            | 17,130               | 11,612          | 0.7             | 0.5              |
| Acholi        | 22,328            | 16,429               | 14,081          | 0.9             | 0.6              | 31,065            | 10,137               | 8,912           | 0.9             | 0.6              | 99,895            | 77,739               | 42,711          | 0.5             | 0.4              |
| Kigezi        | 23,889            | 20,630               | 14,074          | 0.7             | 0.6              | 14,288            | 17,656               | 21,734          | 1.2             | 0.7              | 36,616            | 26,566               | 22,993          | 0.9             | 0.6              |
| Bunyoro       | 67,786            | 64,452               | 53,243          | 0.8             | 0.8              | 30,450            | 48,055               | 57,691          | 1.2             | 0.7              | 54,338            | 38,287               | 35,807          | 0.9             | 0.7              |
| Tooro         | 71,360            | 61,307               | 35,032          | 0.6             | 0.5              | 79,169            | 39,153               | 46,340          | 1.2             | 0.6              | 146,955           | 112,507              | 110,931         | 1.0             | 0.8              |
| Busoga        | 24,839            | 21,397               | 13,697          | 0.6             | 0.6              | 83,434            | 9,664                | 7,750           | 0.8             | 0.4              | 154,794           | 100,460              | 81,372          | 0.8             | 0.5              |
| Teso          | 9,603             | 9,356                | 4,479           | 0.5             | 0.5              | 21,746            | 7,839                | 3,606           | 0.7             | 0.3              | 46,585            | 31,061               | 21,446          | 0.7             | 0.5              |
| Bukedi        | 7,899             | 7,495                | 3,879           | 0.5             | 0.5              | 6,009             | 3,145                | 2,219           | 0.7             | 0.4              | 17,442            | 12,961               | 7,104           | 0.5             | 0.4              |
| Elgon         | 44,367            | 40,796               | 27,334          | 0.7             | 0.6              | 45,489            | 26,247               | 17,161          | 0.7             | 0.4              | 13,908            | 10,640               | 6,098           | 0.6             | 0.4              |
| Karamoja      | 8,775             | 7,857                | 4,261           | 0.5             | 0.5              |                   |                      |                 |                 |                  | 89,855            | 67,043               | 44,495          | 0.7             | 0.5              |
| Ankole        | 54,452            | 48,292               | 34,321          | 0.7             | 0.6              |                   |                      |                 |                 |                  | 8,775             | 7,857                | 4,261           | 0.5             | 0.5              |
|               |                   |                      |                 |                 |                  | 64,475            | 36,344               | 48,743          | 1.3             | 0.8              | 118,927           | 84,636               | 83,065          | 1.0             | 0.7              |
| <b>Uganda</b> | <b>559,531</b>    | <b>498,689</b>       | <b>319,969</b>  | <b>0.6</b>      | <b>0.6</b>       | <b>574,559</b>    | <b>328,880</b>       | <b>349,598</b>  | <b>1.1</b>      | <b>0.6</b>       | <b>1,134,090</b>  | <b>827,569</b>       | <b>669,567</b>  | <b>0.8</b>      | <b>0.6</b>       |

Notes: \*The total area harvested is the total area planted calculated on those observations whose production is available (not missing) and higher than zero. \*\*Ratio between production (MT) and area harvested (Ha). (CV- Caution). Coefficient of variation higher than 40 percent -No sample unit under this category

Table 6-9a: Coefficients of variation for beans area and production by sub-region

| <i>Sub-region</i>    | <i>First Season</i>         |                              |                          | <i>Second Season</i>       |                              |                          | <i>Total</i>               |                              |                          |
|----------------------|-----------------------------|------------------------------|--------------------------|----------------------------|------------------------------|--------------------------|----------------------------|------------------------------|--------------------------|
|                      | <i>CV area<br/>Plant-ed</i> | <i>CV area<br/>harvested</i> | <i>CV<br/>production</i> | <i>CV area<br/>planted</i> | <i>CV area<br/>harvested</i> | <i>CV<br/>production</i> | <i>CV area<br/>planted</i> | <i>CV area<br/>harvested</i> | <i>CV<br/>production</i> |
| <i>South Buganda</i> | 12.6                        | 13.3                         | 13.1                     | 10.4                       | 11.8                         | 12.3                     | 10.0                       | 9.9                          | 11.2                     |
| <i>North Buganda</i> | 12.7                        | 14.0                         | 13.7                     | 10.4                       | 12.6                         | 12.4                     | 11.1                       | 12.8                         | 12.2                     |
| <i>West Nile</i>     | 24.6                        | 27.3                         | 28.8                     | 16.4                       | 18.6                         | 19.3                     | 16.3                       | 18.5                         | 19.5                     |
| <i>Lango</i>         | 10.5                        | 11.1                         | 12.2                     | 18.8                       | 18.5                         | 19.0                     | 10.6                       | 9.7                          | 11.4                     |
| <i>Acholi</i>        | 21.8                        | 19.3                         | 24.4                     | 30.9                       | 35.2                         | 34.6                     | 18.0                       | 18.1                         | 22.4                     |
| <i>Kigezi</i>        | 9.9                         | 11.7                         | 14.8                     | 11.4                       | 12.6                         | 16.7                     | 9.5                        | 10.8                         | 15.0                     |
| <i>Bunyoro</i>       | 10.9                        | 11.4                         | 12.0                     | 12.7                       | 14.2                         | 14.2                     | 11.3                       | 11.8                         | 11.8                     |
| <i>Tooro</i>         | 8.3                         | 9.3                          | 11.0                     | 11.4                       | 13.9                         | 12.9                     | 8.7                        | 9.9                          | 10.2                     |
| <i>Busoga</i>        | 16.6                        | 17.4                         | 28.8                     | 21.7                       | 26.0                         | 24.9                     | 18.1                       | 18.1                         | 25.6                     |
| <i>Teso</i>          | 27.7                        | 27.9                         | 28.9                     | 28.2                       | 29.1                         | 29.6                     | 25.9                       | 23.4                         | 24.7                     |
| <i>Bukedi</i>        | 22.4                        | 23.5                         | 26.7                     | 21.3                       | 25.9                         | 24.9                     | 19.0                       | 22.0                         | 24.1                     |
| <i>Elgon</i>         | 9.3                         | 9.4                          | 12.2                     | 14.8                       | 17.4                         | 14.6                     | 10.5                       | 10.5                         | 11.6                     |
| <i>Karamoja</i>      | 38.8                        | 43.7                         | 40.8                     |                            |                              |                          | 38.8                       | 43.7                         | 40.8                     |
| <i>Ankole</i>        | 8.5                         | 8.2                          | 9.6                      | 8.0                        | 11.6                         | 8.7                      | 7.7                        | 9.1                          | 8.3                      |
| <b><i>Uganda</i></b> | <b>3.7</b>                  | <b>4.0</b>                   | <b>4.4</b>               | <b>4.0</b>                 | <b>4.8</b>                   | <b>4.7</b>               | <b>4</b>                   | <b>3.8</b>                   | <b>4.0</b>               |



Table 6-10: Beans area, production and yields by ZARDI

| ZARDI         | First Season      |                      |                 |                 |                  | Second Season     |                      |                 |                 |                  | Total             |                      |                 |                 |                  |
|---------------|-------------------|----------------------|-----------------|-----------------|------------------|-------------------|----------------------|-----------------|-----------------|------------------|-------------------|----------------------|-----------------|-----------------|------------------|
|               | Area planted (Ha) | Area harvested* (Ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) | Area planted (Ha) | Area harvested* (Ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) | Area planted (Ha) | Area harvested* (Ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) |
| Abi           | 7,324             | 5,795                | 3,043           | 0.5             | 0.4              | 17,232            | 11,335               | 8,569           | 0.8             | 0.5              | 24,556            | 17,130               | 11,612          | 0.7             | 0.5              |
| Buginyanya    | 77,105            | 69,688               | 44,910          | 0.6             | 0.6              | 73,243            | 39,056               | 27,130          | 0.7             | 0.4              | 150,348           | 108,744              | 72,039          | 0.7             | 0.5              |
| Bulindi       | 67,786            | 64,452               | 53,243          | 0.8             | 0.8              | 79,169            | 48,055               | 57,691          | 1.2             | 0.7              | 146,955           | 112,507              | 110,934         | 1.0             | 0.8              |
| Kachwekano    | 23,889            | 20,630               | 14,074          | 0.7             | 0.6              | 30,450            | 17,656               | 21,734          | 1.2             | 0.7              | 54,338            | 38,287               | 35,807          | 0.9             | 0.7              |
| Mukono        |                   |                      | 71,387          | 0.6             | 0.6              |                   | 93,444               | 97,374          | 1.0             | 0.7              | 273,893           | 206,741              | 168,761         | 0.8             | 0.6              |
| Ngetta        | 126,087           | 113,298              | 43,166          | 0.5             | 0.5              | 147,805           | 23,791               | 22,538          | 0.9             | 0.5              | 136,511           | 104,305              | 65,704          | 0.6             | 0.5              |
| Nabuin        | 8,775             | 7,857                | 4,261           | 0.5             | 0.5              |                   |                      |                 |                 |                  | 8,775             | 7,857                | 4,261           | 0.5             | 0.5              |
| Serere        | 9,603             | 9,356                | 4,479           | 0.5             | 0.5              | 7,839             | 3,606                | 2,625           | 0.7             | 0.3              | 17,442            | 12,961               | 7,104           | 0.5             | 0.4              |
| Mbarara       | 76,445            | 65,792               | 46,374          | 0.7             | 0.6              | 90,033            | 52,785               | 65,598          | 1.2             | 0.7              | 166,478           | 118,577              | 111,972         | 0.9             | 0.7              |
| Rwebitaba     | 71,360            | 61,307               | 35,032          | 0.6             | 0.5              | 83,434            | 39,153               | 46,340          | 1.2             | 0.6              | 154,794           | 100,460              | 81,372          | 0.8             | 0.5              |
| <b>Uganda</b> | <b>559,531</b>    | <b>498,689</b>       | <b>319,969</b>  | <b>0.6</b>      | <b>0.6</b>       | <b>574,559</b>    | <b>328,880</b>       | <b>349,598</b>  | <b>1.1</b>      | <b>0.6</b>       | <b>1,134,090</b>  | <b>827,569</b>       | <b>669,567</b>  | <b>0.8</b>      | <b>0.6</b>       |

Notes: \*The total area harvested is the total area planted calculated on those observations whose production is available (not missing) and higher than zero. \*\*Ratio between production (MT) and area harvested (Ha). (CV- Caution). Coefficient of variation higher than 40 percent -No sample unit under this category

Table 6-10a: Coefficients of variation (CVs) for beans area and production by ZARDI

| <i>ZARDI</i>         | <i>First season</i>         |                               |                            | <i>Second season</i>        |                               |                          | <i>Total</i>               |                              |                          |
|----------------------|-----------------------------|-------------------------------|----------------------------|-----------------------------|-------------------------------|--------------------------|----------------------------|------------------------------|--------------------------|
|                      | <i>CV area<br/>Plant-ed</i> | <i>CV area<br/>harve-sted</i> | <i>CV product-<br/>ion</i> | <i>CV area<br/>Plant-ed</i> | <i>CV area<br/>harvest-ed</i> | <i>CV<br/>production</i> | <i>CV area<br/>planted</i> | <i>CV area<br/>harvested</i> | <i>CV<br/>production</i> |
| <i>Abi</i>           | 24.6                        | 27.3                          | 28.8                       | 16.4                        | 18.6                          | 19.3                     | 16.3                       | 18.5                         | 19.5                     |
| <i>Buginyanya</i>    | 7.9                         | 8.1                           | 11.7                       | 11.3                        | 13.5                          | 11.9                     | 8.6                        | 8.5                          | 10.6                     |
| <i>Bulindi</i>       | 10.9                        | 11.4                          | 12.0                       | 12.7                        | 14.2                          | 14.2                     | 11.3                       | 11.8                         | 11.8                     |
| <i>Kachwekano</i>    | 9.9                         | 11.7                          | 14.8                       | 11.4                        | 12.6                          | 16.7                     | 9.5                        | 10.8                         | 15.0                     |
| <i>Mukono</i>        | 10.4                        | 11.4                          | 11.2                       | 8.9                         | 10.4                          | 10.6                     | 9.2                        | 10.3                         | 10.0                     |
| <i>Ngetta</i>        | 9.6                         | 9.7                           | 11.5                       | 16.1                        | 18.4                          | 17.8                     | 9.2                        | 8.6                          | 10.8                     |
| <i>Nabuin</i>        | 38.8                        | 43.7                          | 40.8                       |                             |                               |                          | 38.8                       | 43.7                         | 40.8                     |
| <i>Serere</i>        | 27.7                        | 27.9                          | 28.9                       | 28.2                        | 29.1                          | 29.6                     | 25.9                       | 23.4                         | 24.7                     |
| <i>Mbarara</i>       | 10.5                        | 10.4                          | 10.6                       | 9.2                         | 11.7                          | 9.1                      | 9.2                        | 9.8                          | 9.2                      |
| <i>Rwebitaba</i>     | 8.3                         | 9.3                           | 11.0                       | 11.4                        | 13.9                          | 12.9                     | 8.7                        | 9.9                          | 10.2                     |
| <b><i>Uganda</i></b> | <b>3.7</b>                  | <b>4.0</b>                    | <b>4.4</b>                 | <b>4.0</b>                  | <b>4.8</b>                    | <b>4.7</b>               | <b>3.5</b>                 | <b>3.8</b>                   | <b>4.0</b>               |

Table 6-11: Soya beans area, production and yields by sub-region

| Sub-region    | First season      |                      |                 |                 |                  | Second season     |                      |                 |                 |                  | Total             |                      |                 |                 |                  |
|---------------|-------------------|----------------------|-----------------|-----------------|------------------|-------------------|----------------------|-----------------|-----------------|------------------|-------------------|----------------------|-----------------|-----------------|------------------|
|               | Area planted (ha) | Area harvested* (ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) | Area planted (ha) | Area harvested* (ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) | Area planted (ha) | Area harvested* (ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) |
| South Buganda | 146               | 146                  | 87              | 0.6             | 0.6              | 415               | -                    | -               |                 |                  | 561               | 146                  | 87              | 0.6             | 0.2              |
| North Buganda | 1,426             | 1,111                | 522             | 0.5             | 0.4              | 1,811             | 1,031                | 452             | 0.4             | 0.2              | 3,237             | 2,142                | 975             | 0.5             | 0.3              |
| West Nile     | 541               | 518                  | 451             | 0.9             | 0.8              | 1,790             | 1,075                | 650             | 0.6             | 0.4              | 2,332             | 1,593                | 1,102           | 0.7             | 0.5              |
| Lango         | 100,757           | 98,863               | 68,771          | 0.7             | 0.7              | 23,341            | 13,223               | 20,147          | 1.5             | 0.9              | 124,097           | 112,086              | 88,919          | 0.8             | 0.7              |
| Acholi        | 20,487            | 17,182               | 18,828          | 1.1             | 0.9              | 6,261             | 4,074                | 3,512           | 0.9             | 0.6              | 26,748            | 21,256               | 22,340          | 1.1             | 0.8              |
| Kigezi        | 135               | 39                   | 20              | 0.5             | 0.1              | 61                | 1                    | 33              | 44.3            | 0.5              | 196               | 40                   | 53              | 1.3             | 0.3              |
| Bunyoro       | 1,358             | 1,333                | 914             | 0.7             | 0.7              | 2,416             | 1,368                | 963             | 0.7             | 0.4              | 3,774             | 2,700                | 1,877           | 0.7             | 0.5              |
| Tooro         | 1,202             | 1,202                | 494             | 0.4             | 0.4              | 2,705             | 2,115                | 1,230           | 0.6             | 0.5              | 3,906             | 3,317                | 1,725           | 0.5             | 0.4              |
| Busoga        | 13,555            | 11,194               | 4,851           | 0.4             | 0.4              | 11,240            | 8,049                | 4,780           | 0.6             | 0.4              | 24,794            | 19,243               | 9,631           | 0.5             | 0.4              |
| Teso          | 5,663             | 5,513                | 2,363           | 0.4             | 0.4              | 11,439            | 2,353                | 1,330           | 0.6             | 0.1              | 17,101            | 7,866                | 3,694           | 0.5             | 0.2              |
| Bukedi        | 3,921             | 3,921                | 1,638           | 0.4             | 0.4              | 6,722             | 2,898                | 2,401           | 0.8             | 0.4              | 10,643            | 6,819                | 4,039           | 0.6             | 0.4              |
| Elgon         | 1,961             | 1,769                | 1,046           | 0.6             | 0.5              | 4,391             | 3,224                | 1,374           | 0.4             | 0.3              | 6,351             | 4,993                | 2,420           | 0.5             | 0.4              |
| Karamoja      | 530               | 468                  | 267             | 0.6             | 0.5              |                   |                      |                 |                 |                  | 530               | 468                  | 267             | 0.6             | 0.5              |
| Ankole        | 102               | 30                   | 10              | 0.3             | 0.1              | 151               | -                    | 366             |                 | 2.4              | 253               | 30                   | 376             | 12.4            | 1.5              |
| <b>Uganda</b> | <b>151,783</b>    | <b>143,289</b>       | <b>100,262</b>  | <b>0.7</b>      | <b>0.7</b>       | <b>72,742</b>     | <b>39,410</b>        | <b>37,240</b>   | <b>0.9</b>      | <b>0.5</b>       | <b>224,524</b>    | <b>182,699</b>       | <b>137,502</b>  | <b>0.8</b>      | <b>0.6</b>       |

Notes: \* The total area harvested is the total area planted calculated on those observations whose production is available (not missing) and higher than zero. \*\*Ratio between production (MT) and area harvested (ha). (CV- Caution) Coefficient of variation higher than 40 percent -No sample unit under this category

Table 6-11a: Coefficients of variation (CVs) for soya beans area and production by sub-region

| Sub-region    | First season                |                                    |                                | Second season               |                               |                                | Total                          |                              |                          |
|---------------|-----------------------------|------------------------------------|--------------------------------|-----------------------------|-------------------------------|--------------------------------|--------------------------------|------------------------------|--------------------------|
|               | <i>CV area<br/>Plant-ed</i> | <i>CV area<br/>harve-<br/>sted</i> | <i>CV<br/>product-<br/>ion</i> | <i>CV area<br/>Plant-ed</i> | <i>CV area<br/>Harve-sted</i> | <i>CV<br/>product-<br/>ion</i> | <i>CV<br/>area<br/>planted</i> | <i>CV area<br/>harvested</i> | <i>CV<br/>production</i> |
| South Buganda | 100.0                       | 100.0                              | 100.0                          | 100.0                       |                               |                                | 77.9                           | 100.0                        | 100.0                    |
| North Buganda | 43.3                        | 49.0                               | 48.8                           | 38.1                        | 47.2                          | 33.3                           | 33.8                           | 35.6                         | 32.1                     |
| West Nile     | 62.0                        | 64.8                               | 66.3                           | 44.6                        | 62.7                          | 51.3                           | 36.6                           | 47.2                         | 40.3                     |
| Lango         | 16.3                        | 16.5                               | 17.2                           | 22.7                        | 21.3                          | 24.9                           | 15.5                           | 15.2                         | 16.7                     |
| Acholi        | 20.6                        | 22.6                               | 24.5                           | 29.2                        | 34.8                          | 37.7                           | 18.4                           | 20.4                         | 23.7                     |
| Kigezi        | 83.9                        | 71.4                               | 87.3                           | 53.7                        | 100.0                         | 63.4                           | 71.5                           | 70.0                         | 70.0                     |
| Bunyoro       | 42.9                        | 43.7                               | 42.0                           | 43.0                        | 55.9                          | 45.7                           | 30.2                           | 34.0                         | 29.7                     |
| Tooro         | 36.3                        | 36.3                               | 53.8                           | 39.0                        | 45.4                          | 41.5                           | 34.7                           | 37.6                         | 41.0                     |
| Busoga        | 22.3                        | 25.7                               | 20.3                           | 20.6                        | 25.6                          | 31.1                           | 18.5                           | 21.7                         | 22.1                     |
| Teso          | 32.3                        | 32.9                               | 31.7                           | 33.7                        | 37.5                          | 36.8                           | 27.9                           | 30.1                         | 26.9                     |
| Bukedi        | 28.0                        | 28.0                               | 30.8                           | 33.0                        | 25.0                          | 30.4                           | 25.8                           | 22.6                         | 23.8                     |
| Elgon         | 41.1                        | 42.0                               | 53.3                           | 41.7                        | 40.2                          | 57.9                           | 38.2                           | 36.9                         | 48.9                     |
| Karamoja      | 70.5                        | 69.6                               | 73.1                           |                             |                               |                                | 70.5                           | 69.6                         | 73.1                     |
| Ankole        | 75.7                        | 100.0                              | 100.0                          | 77.7                        |                               | 85.4                           | 54.7                           | 100.0                        | 83.0                     |
| <b>Uganda</b> | <b>11.4</b>                 | <b>12.0</b>                        | <b>13</b>                      | <b>10.9</b>                 | <b>11.2</b>                   | <b>15.0</b>                    | <b>9.5</b>                     | <b>10.1</b>                  | <b>11.7</b>              |

Table 6-12: Soya beans area, production and yields by ZARDI

| ZARDI         | First season      |                      |                 |                 |                  | Second season     |                      |                 |                 |                  | Total             |                      |                 |                 |                  |
|---------------|-------------------|----------------------|-----------------|-----------------|------------------|-------------------|----------------------|-----------------|-----------------|------------------|-------------------|----------------------|-----------------|-----------------|------------------|
|               | Area planted (Ha) | Area harvested* (Ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) | Area planted (Ha) | Area harvested* (Ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) | Area planted (Ha) | Area harvested* (Ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) |
| Abi           | 541               | 518                  | 451             | 0.9             | 0.8              | 1,79              | 1,075                | 650             | 0.6             | 0.4              | 2,332             | 1,593                | 1,102           | 0.7             | 0.5              |
| Buginyanya    | 19,436            | 16,885               | 7,534           | 0.4             | 0.4              | 22,35             | 14,170               | 8,555           | 0.6             | 0.4              | 41,789            | 31,055               | 16,089          | 0.5             | 0.4              |
| Bulindi       | 1,358             | 1,333                | 914             | 0.7             | 0.7              | 2,41              | 1,368                | 963             | 0.7             | 0.4              | 3,774             | 2,700                | 1,877           | 0.7             | 0.5              |
| Kachwekano    | 135               | 39                   | 20              | 0.5             | 0.1              | 6                 | 1                    | 33              | 44.3            | 0.5              | 196               | 40                   | 53              | 1.3             | 0.3              |
| Mukono        | 1,426             | 1,111                | 522             | 0.5             | 0.4              | 2,22              | 1,031                | 452             | 0.4             | 0.2              | 3,652             | 2,142                | 975             | 0.5             | 0.3              |
| Ngetta        | 121,244           | 116,045              | 87,599          | 0.8             | 0.7              | 29,60             | 17,297               | 23,660          | 1.4             | 0.8              | 150,845           | 133,342              | 111,259         | 0.8             | 0.7              |
| Nabuin        | 530               | 468                  | 267             | 0.6             | 0.5              |                   |                      |                 |                 |                  | 530               | 468                  | 267             | 0.6             | 0.5              |
| Serere        | 5,663             | 5,513                | 2,363           | 0.4             | 0.4              | 11,43             | 2,353                | 1,330           | 0.6             | 0.1              | 17,101            | 7,866                | 3,694           | 0.5             | 0.2              |
| Mbarara       | 248               | 176                  | 97              | 0.5             | 0.4              | 15                | -                    | 366             |                 | 2.4              | 399               | 176                  | 463             | 2.6             | 1.2              |
| Rwebitaba     | 1,202             | 1,202                | 494             | 0.4             | 0.4              | 2,70              | 2,115                | 1,230           | 0.6             | 0.5              | 3,906             | 3,317                | 1,725           | 0.5             | 0.4              |
| <b>Uganda</b> | 151,783           | 143,289              | 100,262         | 0.7             | 0.7              | 72,74             | 39,410               | 37,240          | 0.9             | 0.5              | 224,524           | 182,699              | 137,502         | 0.8             | 0.6              |

Notes: \*The total area harvested is the total area planted calculated on those observations whose production is available (not missing) and higher than zero, \*\*Ratio between production(MT) and area harvested (Ha). (CV- Caution) Coefficient of variation higher than 40 percent -No sample unit under this category

Table 6 12a: Coefficients of variation (CVs) for soya beans area and production by ZARDI

| ZARDI         | First season                 |                                |                            | Second season              |                              |                            | Total                        |                              |                          |
|---------------|------------------------------|--------------------------------|----------------------------|----------------------------|------------------------------|----------------------------|------------------------------|------------------------------|--------------------------|
|               | <i>CV area plant-<br/>ed</i> | <i>CV area harve-<br/>sted</i> | <i>CV product-<br/>ion</i> | <i>CV area<br/>planted</i> | <i>CV area<br/>harvested</i> | <i>CV product-<br/>ion</i> | <i>CV area plant-<br/>ed</i> | <i>CV area<br/>harvested</i> | <i>CV<br/>production</i> |
| Abi           | 62.0                         | 64.8                           | 66.3                       | 44.6                       | 62.7                         | 51.3                       | 36.6                         | 47.2                         | 40.3                     |
| Buginyanya    | 17.1                         | 18.8                           | 16.4                       | 16.5                       | 17.9                         | 21.5                       | 14.0                         | 15.5                         | 16.3                     |
| Bulindi       | 42.9                         | 43.7                           | 42.0                       | 43.0                       | 55.9                         | 45.7                       | 30.2                         | 34.0                         | 29.7                     |
| Kachwekano    | 83.9                         | 71.4                           | 87.3                       | 53.7                       | 100.0                        | 63.4                       | 71.5                         | 70.0                         | 70.0                     |
| Mukono        | 43.3                         | 49.0                           | 48.8                       | 36.1                       | 47.2                         | 33.3                       | 32.0                         | 35.6                         | 32.1                     |
| Ngetta        | 13.9                         | 14.5                           | 14.5                       | 18.9                       | 18.3                         | 21.9                       | 13.2                         | 13.2                         | 14.2                     |
| Nabuin        | 70.5                         | 69.6                           | 73.1                       |                            |                              |                            | 70.5                         | 69.6                         | 73.1                     |
| Serere        | 32.3                         | 32.9                           | 31.7                       | 33.7                       | 37.5                         | 36.8                       | 27.9                         | 30.1                         | 26.9                     |
| Mbarara       | 66.6                         | 84.5                           | 90.0                       | 77.7                       |                              | 85.4                       | 50.4                         | 84.5                         | 70.1                     |
| Rwebitaba     | 36.3                         | 36.3                           | 53.8                       | 39.0                       | 45.4                         | 41.5                       | 34.7                         | 37.6                         | 41.0                     |
| <b>Uganda</b> | <b>11.4</b>                  | <b>12.0</b>                    | <b>12.7</b>                | <b>10.9</b>                | <b>11.2</b>                  | <b>15.0</b>                | <b>9.5</b>                   | <b>10.1</b>                  | <b>11.7</b>              |

Table 6-13: Sweet potatoes area, production and yields by sub-region

| Sub-region    | First season      |                      |                 |                 |                  | Second season     |                      |                 |                 |                  | Total             |                      |                  |                 |                  |
|---------------|-------------------|----------------------|-----------------|-----------------|------------------|-------------------|----------------------|-----------------|-----------------|------------------|-------------------|----------------------|------------------|-----------------|------------------|
|               | Area planted (ha) | Area harvested* (ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) | Area planted (ha) | Area harvested* (ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) | Area planted (ha) | Area harvested* (ha) | Production (MT)  | Yield** (MT/ha) | Yield*** (MT/ha) |
| South Buganda | 15,180            | 9,898                | 36,292          | 3.7             | 2.4              | 11,845            | 5,742                | 34,831          | 6.1             | 2.9              | 27,025            | 15,641               | 71,123           | 4.5             | 2.6              |
| North Buganda | 47,782            | 32,169               | 86,454          | 2.7             | 1.8              | 49,321            | 14,477               | 100,627         | 7.0             | 2.0              | 97,103            | 46,645               | 187,080          | 4.0             | 1.9              |
| West Nile     | 11,992            | 9,676                | 52,374          | 5.4             | 4.4              | 22,256            | 10,418               | 113,614         | 10.9            | 5.1              | 34,247            | 20,094               | 165,988          | 8.3             | 4.8              |
| Lango         | 13,383            | 8,736                | 40,422          | 4.6             | 3.0              | 7,706             | 3,906                | 54,867          | 14.0            | 7.1              | 21,089            | 12,642               | 95,289           | 7.5             | 4.5              |
| Acholi        | 12,822            | 3,026                | 22,275          | 7.4             | 1.7              | 11,382            | 5,656                | 83,306          | 14.7            | 7.3              | 24,204            | 8,682                | 105,581          | 12.2            | 4.4              |
| Kigezi        | 11,546            | 8,225                | 30,276          | 3.7             | 2.6              | 11,698            | 4,312                | 31,513          | 7.3             | 2.7              | 23,243            | 12,538               | 61,789           | 4.9             | 2.7              |
| Bunyoro       | 7,938             | 5,204                | 10,564          | 2.0             | 1.3              | 11,248            | 3,774                | 30,801          | 8.2             | 2.7              | 19,187            | 8,978                | 41,366           | 4.6             | 2.2              |
| Tooro         | 6,699             | 5,693                | 11,567          | 2.0             | 1.7              | 7,321             | 1,581                | 27,179          | 17.2            | 3.7              | 14,020            | 7,274                | 38,746           | 5.3             | 2.8              |
| Busoga        | 37,898            | 26,343               | 89,865          | 3.4             | 2.4              | 46,356            | 25,856               | 104,625         | 4.0             | 2.3              | 84,253            | 52,199               | 194,490          | 3.7             | 2.3              |
| Teso          | 18,668            | 7,331                | 17,536          | 2.4             | 0.9              | 41,469            | 18,821               | 93,853          | 5.0             | 2.3              | 60,137            | 26,152               | 111,389          | 4.3             | 1.9              |
| Bukedi        | 17,988            | 8,766                | 22,990          | 2.6             | 1.3              | 20,749            | 8,789                | 55,684          | 6.3             | 2.7              | 38,737            | 17,555               | 78,673           | 4.5             | 2.0              |
| Elgon         | 1,593             | 1,473                | 4,642           | 3.2             | 2.9              | 6,179             | 2,882                | 10,256          | 3.6             | 1.7              | 7,771             | 4,355                | 14,898           | 3.4             | 1.9              |
| Karamoja      | 1,471             |                      |                 |                 |                  | 248               |                      |                 |                 |                  | 1,719             | -                    | -                |                 |                  |
| Ankole        | 6,151             | 4,034                | 17,464          | 4.3             | 2.8              | 7,094             | 3,198                | 22,661          | 7.1             | 3.2              | 13,245            | 7,231                | 40,126           | 5.5             | 3.0              |
| <b>Uganda</b> | <b>211,110</b>    | <b>130,575</b>       | <b>442,720</b>  | <b>3.4</b>      | <b>2.1</b>       | <b>254,871</b>    | <b>109,412</b>       | <b>763,818</b>  | <b>7.0</b>      | <b>3.0</b>       | <b>465,981</b>    | <b>239,987</b>       | <b>1,206,538</b> | <b>5.0</b>      | <b>2.6</b>       |

Notes: \*The total area harvested is the total area planted calculated on those observations whose production is available (not missing) and higher than zero, \*\*Ratio between production (MT) and area harvested (Ha). (CV- Caution) Coefficient of variation higher than 40 percent -No sample unit under this category

Table 6-13a: Coefficients of variation (CVs) for sweet potatoes area and production by sub-region

| <i>Sub-region</i>    | <i>First season</i>         |                               |                            | <i>Second season</i>        |                               |                            | <i>Total</i>               |                              |                      |
|----------------------|-----------------------------|-------------------------------|----------------------------|-----------------------------|-------------------------------|----------------------------|----------------------------|------------------------------|----------------------|
|                      | <i>CV area<br/>Plant-ed</i> | <i>CV area<br/>harve-sted</i> | <i>CV product-<br/>ion</i> | <i>CV area<br/>Plant-ed</i> | <i>CV area<br/>harvest-ed</i> | <i>CV product-<br/>ion</i> | <i>CV area<br/>planted</i> | <i>CV area<br/>harvested</i> | <i>CV production</i> |
| <i>South Buganda</i> | 27.2                        | 36.3                          | 33.8                       | 27.4                        | 34.7                          | 25.9                       | 25.3                       | 33.5                         | 28.7                 |
| <i>North Buganda</i> | 11.8                        | 13.6                          | 13.8                       | 9.3                         | 15.2                          | 14.6                       | 9.9                        | 12.5                         | 12.0                 |
| <i>West Nile</i>     | 18.4                        | 22.1                          | 51.0                       | 13.0                        | 17.8                          | 20.7                       | 14.1                       | 17.8                         | 29.7                 |
| <i>Lango</i>         | 16.8                        | 19.0                          | 19.8                       | 14.8                        | 20.1                          | 14.2                       | 13.8                       | 15.4                         | 13.4                 |
| <i>Acholi</i>        | 9.3                         | 13.5                          | 9.5                        | 11.6                        | 14.6                          | 12.2                       | 9.3                        | 11.5                         | 11.0                 |
| <i>Kigezi</i>        | 14.9                        | 17.0                          | 15.1                       | 12.3                        | 14.0                          | 21.3                       | 12.7                       | 14.0                         | 17.0                 |
| <i>Bunyoro</i>       | 23.6                        | 31.6                          | 26.3                       | 16.7                        | 25.4                          | 20.5                       | 14.8                       | 21.3                         | 17.8                 |
| <i>Tooro</i>         | 22.7                        | 26.9                          | 24.5                       | 17.2                        | 26.0                          | 43.0                       | 18.4                       | 24.8                         | 31.3                 |
| <i>Busoga</i>        | 11.0                        | 11.8                          | 12.5                       | 16.3                        | 22.9                          | 18.9                       | 13.1                       | 14.5                         | 13.3                 |
| <i>Teso</i>          | 16.2                        | 18.3                          | 15.7                       | 11.3                        | 11.7                          | 11.6                       | 10.7                       | 10.9                         | 10.0                 |
| <i>Bukedi</i>        | 12.4                        | 14.4                          | 15.2                       | 11.6                        | 14.1                          | 12.3                       | 10.7                       | 11.1                         | 10.1                 |
| <i>Elgon</i>         | 31.3                        | 33.8                          | 31.9                       | 20.9                        | 22.9                          | 19.9                       | 20.7                       | 22.2                         | 20.4                 |
| <i>Karamoja</i>      | 61.8                        |                               |                            | 100.0                       |                               |                            | 57.7                       |                              |                      |
| <i>Ankole</i>        | 15.5                        | 17.3                          | 18.8                       | 15.4                        | 24.3                          | 16.6                       | 14.1                       | 17.2                         | 15.3                 |
| <b><i>Uganda</i></b> | <b>4.8</b>                  | <b>5.9</b>                    | <b>8.1</b>                 | <b>4.6</b>                  | <b>6.9</b>                    | <b>5.6</b>                 | <b>4.2</b>                 | <b>5.3</b>                   | <b>5.8</b>           |



Table 6-14: Sweet potatoes area, production and yields by ZARDI

| ZARDI         | First season 2020 |                       |                 |                 |                  | Second season 2020 |                       |                 |                 |                  | Total             |                       |                  |                 |                  |
|---------------|-------------------|-----------------------|-----------------|-----------------|------------------|--------------------|-----------------------|-----------------|-----------------|------------------|-------------------|-----------------------|------------------|-----------------|------------------|
|               | Area Planted (Ha) | Area Harvested * (Ha) | Production (MT) | Yield** (MT/Ha) | Yield*** (MT/Ha) | Area Planted (Ha)  | Area Harvested * (Ha) | Production (MT) | Yield** (MT/Ha) | Yield*** (MT/Ha) | Area Planted (ha) | Area Harvested * (ha) | Production (MT)  | Yield** (MT/ha) | Yield*** (MT/ha) |
| Abi           | 11,992            | 9,676                 | 52,374          | 5.4             | 4.4              | 22,256             | 10,418                | 113,614         | 10.9            | 5.1              | 34,247            | 20,094                | 165,988          | 8.3             | 4.8              |
| Buginyanya    | 57,479            | 36,582                | 117,496         | 3.2             | 2.0              | 73,283             | 37,526                | 170,565         | 4.5             | 2.3              | 130,762           | 74,109                | 288,061          | 3.9             | 2.2              |
| Bulindi       | 7,938             | 5,204                 | 10,564          | 2.0             | 1.3              | 11,248             | 3,774                 | 30,801          | 8.2             | 2.7              | 19,187            | 8,978                 | 41,366           | 4.6             | 2.2              |
| Kachwekano    | 11,546            | 8,225                 | 30,276          | 3.7             | 2.6              | 11,698             | 4,312                 | 31,513          | 7.3             | 2.7              | 23,243            | 12,538                | 61,789           | 4.9             | 2.7              |
| Mukono        | 61,936            | 41,997                | 122,642         | 2.9             | 2.0              | 59,895             | 19,784                | 131,240         | 6.6             | 2.2              | 121,831           | 61,781                | 253,882          | 4.1             | 2.1              |
| Ngetta        | 26,204            | 11,762                | 62,697          | 5.3             | 2.4              | 19,088             | 9,563                 | 138,173         | 14.4            | 7.2              | 45,293            | 21,325                | 200,870          | 9.4             | 4.4              |
| Nabuin        | 1,471             | -                     | -               |                 |                  | 248                | -                     | -               |                 |                  | 1,719             | -                     | -                |                 |                  |
| Serere        | 18,668            | 7,331                 | 17,536          | 2.4             | 0.9              | 41,469             | 18,821                | 93,853          | 5.0             | 2.3              | 60,137            | 26,152                | 111,389          | 4.3             | 1.9              |
| Mbarara       | 7,176             | 4,103                 | 17,568          | 4.3             | 2.4              | 8,365              | 3,633                 | 26,878          | 7.4             | 3.2              | 15,541            | 7,736                 | 44,446           | 5.7             | 2.9              |
| Rwebitaba     | 6,699             | 5,693                 | 11,567          | 2.0             | 1.7              | 7,321              | 1,581                 | 27,179          | 17.2            | 3.7              | 14,020            | 7,274                 | 38,746           | 5.3             | 2.8              |
| <b>Uganda</b> | <b>211,110</b>    | <b>130,575</b>        | <b>442,720</b>  | <b>3.4</b>      | <b>2.1</b>       | <b>254,871</b>     | <b>109,412</b>        | <b>763,818</b>  | <b>7.0</b>      | <b>3.0</b>       | <b>465,981</b>    | <b>239,987</b>        | <b>1,206,538</b> | <b>5.0</b>      | <b>2.6</b>       |

Notes: \*The total area harvested is the total area planted calculated on those observations whose production is available (not missing) and higher than zero, \*\*Ratio between production (MT) and area harvested (Ha). (CV- Caution) Coefficient of variation higher than 40 percent -No sample unit under this category

Table 6 - 14a: Coefficients of variation (CVs) for sweet potatoes area and production by ZARDI

| <i>ZARDI</i>         | <i>First season</i>         |                                    |                            | <i>Second season</i>        |                                    |                      | <i>Total</i>               |                              |                      |
|----------------------|-----------------------------|------------------------------------|----------------------------|-----------------------------|------------------------------------|----------------------|----------------------------|------------------------------|----------------------|
|                      | <i>CV area<br/>plant-ed</i> | <i>CV area<br/>harve-<br/>sted</i> | <i>CV product-<br/>ion</i> | <i>CV area<br/>plant-ed</i> | <i>CV area<br/>harve-<br/>sted</i> | <i>CV production</i> | <i>CV area<br/>planted</i> | <i>CV area<br/>harvested</i> | <i>CV production</i> |
| <i>Abi</i>           | 18.4                        | 22.1                               | 51.0                       | 13.0                        | 17.8                               | 20.7                 | 14.1                       | 17.8                         | 29.7                 |
| <i>Buginyanya</i>    | 8.2                         | 9.3                                | 10.1                       | 11.0                        | 16.2                               | 12.3                 | 9.1                        | 10.6                         | 9.4                  |
| <i>Bulindi</i>       | 23.6                        | 31.6                               | 26.3                       | 16.7                        | 25.4                               | 20.5                 | 14.8                       | 21.3                         | 17.8                 |
| <i>Kachwekano</i>    | 14.9                        | 17.0                               | 15.1                       | 12.3                        | 14.0                               | 21.3                 | 12.7                       | 14.0                         | 17.0                 |
| <i>Mukono</i>        | 11.3                        | 13.5                               | 14.0                       | 9.4                         | 15.1                               | 13.2                 | 9.8                        | 12.7                         | 12.0                 |
| <i>Ngetta</i>        | 9.7                         | 14.5                               | 13.2                       | 9.1                         | 11.9                               | 9.2                  | 8.2                        | 10.3                         | 8.6                  |
| <i>Nabuin</i>        | 61.8                        | -                                  | -                          | 100.0                       | -                                  | -                    | 57.7                       | -                            | -                    |
| <i>Serere</i>        | 16.2                        | 18.3                               | 15.7                       | 11.3                        | 11.7                               | 11.6                 | 10.7                       | 10.9                         | 10.0                 |
| <i>Mbarara</i>       | 15.6                        | 17.1                               | 18.7                       | 14.3                        | 22.3                               | 15.3                 | 13.5                       | 16.3                         | 14.3                 |
| <i>Rwebitaba</i>     | 22.7                        | 26.9                               | 24.5                       | 17.2                        | 26.0                               | 43.0                 | 18.4                       | 24.8                         | 31.3                 |
| <b><i>Uganda</i></b> | <b>4.8</b>                  | <b>5.9</b>                         | <b>8.1</b>                 | <b>4.6</b>                  | <b>6.9</b>                         | <b>5.6</b>           | <b>4.2</b>                 | <b>5.3</b>                   | <b>5.8</b>           |

Table 6-15: Irish potatoes area, production and yields by sub-region

| Sub-region    | First season      |                      |                 |                 |                  | Second season     |                      |                 |                 |                  | Total             |                      |                 |                 |                  |
|---------------|-------------------|----------------------|-----------------|-----------------|------------------|-------------------|----------------------|-----------------|-----------------|------------------|-------------------|----------------------|-----------------|-----------------|------------------|
|               | Area planted (ha) | Area harvested* (ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) | Area Planted (ha) | Area harvested* (ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) | Area planted (ha) | Area harvested* (ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) |
| South Buganda | 8,005             | 5,251                | 17,477          | 3.3             | 2.2              | 5,762             | 2,740                | 18,520          | 6.8             | 3.2              | 13,767            | 7,991                | 35,997          | 4.5             | 2.6              |
| North Buganda | 2,035             | 2,035                | 6,408           | 3.1             | 3.1              | 1,597             | 981                  | 6,357           | 6.5             | 4.0              | 3,632             | 3,015                | 12,766          | 4.2             | 3.5              |
| West Nile     | 244               | 244                  | 346             | 1.4             | 1.4              | 2,247             | 1,944                | 6,456           | 3.3             | 2.9              | 2,491             | 2,188                | 6,802           | 3.1             | 2.7              |
| Lango         | -                 | -                    | -               | -               | -                | -                 | -                    | -               | -               | -                | -                 | -                    | -               | -               | -                |
| Acholi        | -                 | -                    | -               | -               | -                | -                 | -                    | -               | -               | -                | -                 | -                    | -               | -               | -                |
| Kigezi        | 7,513             | 6,003                | 31,931          | 5.3             | 4.3              | 8,434             | 4,190                | 32,805          | 7.8             | 3.9              | 15,947            | 10,193               | 64,737          | 6.4             | 4.1              |
| Bunyoro       | 2,756             | 2,731                | 6,065           | 2.2             | 2.2              | 4,409             | 3,747                | 9,912           | 2.6             | 2.2              | 7,165             | 6,479                | 15,977          | 2.5             | 2.2              |
| Tooro         | 15,658            | 11,701               | 30,452          | 2.6             | 1.9              | 13,703            | 5,438                | 27,682          | 5.1             | 2.0              | 29,360            | 17,139               | 58,134          | 3.4             | 2.0              |
| Busoga        | -                 | -                    | -               | -               | -                | -                 | -                    | -               | -               | -                | -                 | -                    | -               | -               | -                |
| Teso          | -                 | -                    | -               | -               | -                | -                 | -                    | -               | -               | -                | -                 | -                    | -               | -               | -                |
| Bukedi        | -                 | -                    | -               | -               | -                | -                 | -                    | -               | -               | -                | -                 | -                    | -               | -               | -                |
| Elgon         | 3,169             | 3,003                | 13,584          | 4.5             | 4.3              | 1,318             | 611                  | 5,901           | 9.7             | 4.5              | 4,487             | 3,614                | 19,485          | 5.4             | 4.3              |
| Karamoja      | -                 | -                    | -               | -               | -                | -                 | -                    | -               | -               | -                | -                 | -                    | -               | -               | -                |
| Ankole        | 1,697             | 1,400                | 3,649           | 2.6             | 2.2              | 2,028             | 1,254                | 6,071           | 4.8             | 3.0              | 3,725             | 2,654                | 9,721           | 3.7             | 2.6              |
| <b>Uganda</b> | <b>41,076</b>     | <b>32,368</b>        | <b>109,913</b>  | <b>3.4</b>      | <b>2.7</b>       | <b>39,498</b>     | <b>20,905</b>        | <b>113,706</b>  | <b>5.4</b>      | <b>2.9</b>       | <b>80,574</b>     | <b>53,273</b>        | <b>223,619</b>  | <b>4.2</b>      | <b>2.8</b>       |

Notes: \*The total area harvested is the total area planted, calculated on those observations whose production is available (not missing) and higher than zero. \*\*Ratio between production (MT) and area harvested (ha) \*\*\*Ratio between production (MT) and area planted (ha)

Table 6-15a: Coefficients of variation (CVs) for Irish potatoes area and production by sub-region

| <i>Sub-region</i>    | <i>First season</i>        |                                    |                            | <i>Second season</i>        |                               |                            | <i>Total</i>               |                              |                      |
|----------------------|----------------------------|------------------------------------|----------------------------|-----------------------------|-------------------------------|----------------------------|----------------------------|------------------------------|----------------------|
|                      | <i>CV area<br/>Planted</i> | <i>CV area<br/>harve-<br/>sted</i> | <i>CV product-<br/>ion</i> | <i>CV area<br/>plant-ed</i> | <i>CV area<br/>harvest-ed</i> | <i>CV product-<br/>ion</i> | <i>CV area<br/>planted</i> | <i>CV area<br/>harvested</i> | <i>CV production</i> |
| <i>South Buganda</i> | 35.2                       | 36.9                               | 35.6                       | 58.1                        | 43.7                          | 42.9                       | 41.7                       | 35.1                         | 36.9                 |
| <i>North Buganda</i> | 39.7                       | 39.7                               | 38.8                       | 34.6                        | 41.0                          | 44.7                       | 33.8                       | 37.1                         | 38.1                 |
| <i>West Nile</i>     | 100.0                      | 100.0                              | 100.0                      | 90.4                        | 89.0                          | 91.4                       | 91.3                       | 90.2                         | 91.8                 |
| <i>Lango</i>         | -                          | -                                  | -                          | -                           | -                             | -                          | -                          | -                            | -                    |
| <i>Acholi</i>        | -                          | -                                  | -                          | -                           | -                             | -                          | -                          | -                            | -                    |
| <i>Kigezi</i>        | 27.0                       | 28.1                               | 34.1                       | 30.5                        | 28.5                          | 29.7                       | 24.7                       | 27.0                         | 30.3                 |
| <i>Bunyoro</i>       | 46.1                       | 45.8                               | 42.3                       | 44.4                        | 47.6                          | 41.1                       | 43.3                       | 44.7                         | 38.4                 |
| <i>Tooro</i>         | 31.9                       | 36.1                               | 47.1                       | 32.0                        | 28.2                          | 27.2                       | 30.8                       | 30.5                         | 32.2                 |
| <i>Busoga</i>        | -                          | -                                  | -                          | -                           | -                             | -                          | -                          | -                            | -                    |
| <i>Teso</i>          | -                          | -                                  | -                          | -                           | -                             | -                          | -                          | -                            | -                    |
| <i>Bukedi</i>        | -                          | -                                  | -                          | -                           | -                             | -                          | -                          | -                            | -                    |
| <i>Elgon</i>         | 52.6                       | 53.7                               | 60.2                       | 71.4                        | 67.4                          | 93.8                       | 51.6                       | 51.0                         | 63.4                 |
| <i>Karamoja</i>      | -                          | -                                  | -                          | -                           | -                             | -                          | -                          | -                            | -                    |
| <i>Ankole</i>        | 39.3                       | 41.8                               | 41.3                       | 41.4                        | 41.6                          | 37.3                       | 38.3                       | 38.6                         | 35.5                 |
| <b><i>Uganda</i></b> | <b>15.9</b>                | <b>16.8</b>                        | <b>19.2</b>                | <b>17.3</b>                 | <b>16.6</b>                   | <b>15.5</b>                | <b>15.4</b>                | <b>14.6</b>                  | <b>15.3</b>          |

Table 6- 16: Irish potatoes area, production and yields by ZARDI

| ZARDI         | First season      |                      |                 |                 |                  | Second season     |                      |                 |                 |                  | Total             |                      |                 |                 |                  |
|---------------|-------------------|----------------------|-----------------|-----------------|------------------|-------------------|----------------------|-----------------|-----------------|------------------|-------------------|----------------------|-----------------|-----------------|------------------|
|               | Area planted (ha) | Area harvested* (ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) | Area planted (ha) | Area harvested* (ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) | Area planted (ha) | Area harvested* (ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) |
| Abi           | 244               | 244                  | 346             | 1.4             | 1.4              | 2,247             | 1,944                | 6,456           | 3.3             | 2.9              | 2,491             | 2,188                | 6,802           | 3.1             | 2.7              |
| Buginyanya    | 3,169             | 3,003                | 13,584          | 4.5             | 4.3              | 1,318             | 611                  | 5,901           | 9.7             | 4.5              | 4,487             | 3,614                | 19,485          | 5.4             | 4.3              |
| Bulindi       | 2,756             | 2,731                | 6,065           | 2.2             | 2.2              | 4,409             | 3,747                | 9,912           | 2.6             | 2.2              | 7,165             | 6,479                | 15,977          | 2.5             | 2.2              |
| Kachwekano    | 7,513             | 6,003                | 31,931          | 5.3             | 4.3              | 8,434             | 4,190                | 32,805          | 7.8             | 3.9              | 15,947            | 10,193               | 64,737          | 6.4             | 4.1              |
| Mukono        | 4,180             | 3,567                | 11,500          | 3.2             | 2.8              | 2,272             | 1,467                | 9,946           | 6.8             | 4.4              | 6,452             | 5,033                | 21,446          | 4.3             | 3.3              |
| Ngetta        | -                 | -                    | -               | -               | -                | -                 | -                    | -               | -               | -                | -                 | -                    | -               | -               | -                |
| Nabuin        | -                 | -                    | -               | -               | -                | -                 | -                    | -               | -               | -                | -                 | -                    | -               | -               | -                |
| Serere        | -                 | -                    | -               | -               | -                | -                 | -                    | -               | -               | -                | -                 | -                    | -               | -               | -                |
| Mbarara       | 7,556             | 5,119                | 16,035          | 3.1             | 2.1              | 7,115             | 3,508                | 21,003          | 6.0             | 3.0              | 14,672            | 8,627                | 37,038          | 4.3             | 2.5              |
| Rwebitaba     | 15,658            | 11,701               | 30,452          | 2.6             | 1.9              | 13,703            | 5,438                | 27,682          | 5.1             | 2.0              | 29,360            | 17,139               | 58,134          | 3.4             | 2.0              |
| <b>Uganda</b> | <b>41,076</b>     | <b>32,368</b>        | <b>109,913</b>  | <b>3.4</b>      | <b>2.7</b>       | <b>39,498</b>     | <b>20,905</b>        | <b>113,706</b>  | <b>5.4</b>      | <b>2.9</b>       | <b>80,574</b>     | <b>53,273</b>        | <b>223,619</b>  | <b>4.2</b>      | <b>2.8</b>       |

Notes: \*The total area harvested is the total area planted calculated on those observations whose production is available (not missing) and higher than zero. \*\*Ratio between production (MT) and area harvested (ha) \*\*\*Ratio between production (MT) and area planted (ha)

Table 6-16a: Coefficients of variation (CVs) for Irish potatoes area and production by ZARDI

| <b>ZARDI</b>      | <b>First season</b>        |                                    |                          | <b>Second season</b>       |                                    |                          | <b>Total</b>               |                              |                      |
|-------------------|----------------------------|------------------------------------|--------------------------|----------------------------|------------------------------------|--------------------------|----------------------------|------------------------------|----------------------|
|                   | <b>CV area<br/>planted</b> | <b>CV area<br/>harve-<br/>sted</b> | <b>CV<br/>production</b> | <b>CV area<br/>planted</b> | <b>CV area<br/>harve-<br/>sted</b> | <b>CV<br/>production</b> | <b>CV area<br/>planted</b> | <b>CV area<br/>harvested</b> | <b>CV production</b> |
| <i>Abi</i>        | 100.0                      | 100.0                              | 100.0                    | 90.4                       | 89.0                               | 91.4                     | 91.3                       | 90.2                         | 91.8                 |
| <i>Buginyanya</i> | 52.6                       | 53.7                               | 60.2                     | 71.4                       | 67.4                               | 93.8                     | 51.6                       | 51.0                         | 63.4                 |
| <i>Bulindi</i>    | 46.1                       | 45.8                               | 42.3                     | 44.4                       | 47.6                               | 41.1                     | 43.3                       | 44.7                         | 38.4                 |
| <i>Kachwekano</i> | 27.0                       | 28.1                               | 34.1                     | 30.5                       | 28.5                               | 29.7                     | 24.7                       | 27.0                         | 30.3                 |
| <i>Mukono</i>     | 37.2                       | 32.0                               | 35.1                     | 28.5                       | 34.1                               | 36.8                     | 28.8                       | 28.4                         | 29.0                 |
| <i>Ngetta</i>     | -                          | -                                  | -                        | -                          | -                                  | -                        | -                          | -                            | -                    |
| <i>Nabuin</i>     | -                          | -                                  | -                        | -                          | -                                  | -                        | -                          | -                            | -                    |
| <i>Serere</i>     |                            |                                    |                          |                            |                                    |                          |                            |                              |                      |
| <i>Mbarara</i>    | 35.4                       | 37.5                               | 36.1                     | 48.6                       | 36.8                               | 38.4                     | 39.9                       | 34.1                         | 36.5                 |
| <i>Rwebitaba</i>  | 31.9                       | 36.1                               | 47.1                     | 32.0                       | 28.2                               | 27.2                     | 30.8                       | 30.5                         | 32.2                 |
| <b>1</b>          | <b>15.9</b>                | <b>16.8</b>                        | <b>19.2</b>              | <b>17.3</b>                | <b>16.6</b>                        | <b>15.5</b>              | <b>15.4</b>                | <b>14.6</b>                  | <b>15.3</b>          |

Table 6-17: Simsim area and production by sub-region

| Sub-region    | First season 2020 |                      |                 |                |                  | Second season 2020 |                      |                 |                 |                  | Total 2020        |                      |                 |                 |                  |
|---------------|-------------------|----------------------|-----------------|----------------|------------------|--------------------|----------------------|-----------------|-----------------|------------------|-------------------|----------------------|-----------------|-----------------|------------------|
|               | Area planted (ha) | Area harvested* (ha) | Production (MT) | Yield* (MT/ha) | Yield*** (MT/ha) | Area planted (ha)  | Area harvested* (ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) | Area planted (ha) | Area harvested* (ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) |
| South Buganda | -                 | -                    | -               | -              | -                | -                  | -                    | -               | -               | -                | -                 | -                    | -               | -               | -                |
| North Buganda | 284               | 284                  | 53              | 0.2            | 0.2              | 288                | 196                  | 208             | 1.1             | 0.7              | 572               | 480                  | 261             | 0.5             | 0.5              |
| West Nile     | 2,146             | 643                  | 306             | 0.5            | 0.1              | 37,209             | 20,818               | 8,272           | 0.4             | 0.2              | 39,355            | 21,460               | 8,578           | 0.4             | 0.2              |
| Lango         | 24,620            | 23,087               | 8,308           | 0.4            | 0.3              | 33,926             | 21,010               | 8,545           | 0.4             | 0.3              | 58,546            | 44,097               | 16,853          | 0.4             | 0.3              |
| Acholi        | 23,408            | 8,989                | 2,162           | 0.2            | 0.1              | 83,807             | 47,969               | 17,234          | 0.4             | 0.2              | 107,216           | 56,959               | 19,396          | 0.3             | 0.2              |
| Kigezi        | -                 | -                    | -               | -              | -                | -                  | -                    | -               | -               | -                | -                 | -                    | -               | -               | -                |
| Bunyoro       | 5,296             | 5,296                | 2,651           | 0.5            | 0.5              | 1,456              | -                    | 376             | -               | 0.3              | 6,752             | 5,296                | 3,026           | 0.6             | 0.4              |
| Tooro         | 5,664             | 4,388                | 1,219           | 0.3            | 0.2              | 2,130              | 1,951                | 604             | 0.3             | 0.3              | 7,794             | 6,339                | 1,823           | 0.3             | 0.2              |
| Busoga        | 467               | 467                  | 186             | 0.4            | 0.4              | 1,007              | 904                  | 271             | 0.3             | 0.3              | 1,474             | 1,371                | 457             | 0.3             | 0.3              |
| Teso          | 5,320             | 4,062                | 1,527           | 0.4            | 0.3              | 9,049              | 5,417                | 3,269           | 0.6             | 0.4              | 14,368            | 9,479                | 4,796           | 0.5             | 0.3              |
| Bukedi        | 486               | 460                  | 153             | 0.3            | 0.3              | 284                | 234                  | 92              | 0.4             | 0.3              | 770               | 694                  | 244             | 0.4             | 0.3              |
| Elgon         | 149               | 149                  | 151             | 1.0            | 1.0              | 46                 | 22                   | 4               | 0.2             | 0.1              | 196               | 172                  | 156             | 0.9             | 0.8              |
| Karamoja      | 5,540             | 4,119                | 1,025           | 0.2            | 0.2              | -                  | -                    | -               | -               | -                | 5,540             | 4,119                | 1,025           | 0.2             | 0.2              |
| Ankole        | -                 | -                    | -               | -              | -                | -                  | -                    | -               | -               | -                | -                 | -                    | -               | -               | -                |
| <b>Uganda</b> | <b>73,379</b>     | <b>51,944</b>        | <b>17,741</b>   | <b>0.3</b>     | <b>0.2</b>       | <b>169,203</b>     | <b>98,521</b>        | <b>38,874</b>   | <b>0.4</b>      | <b>0.2</b>       | <b>242,582</b>    | <b>150,466</b>       | <b>56,616</b>   | <b>0.4</b>      | <b>0.2</b>       |

Notes: \*The total area harvested is computed on the percentage of the area planted with CROP that was harvested. (CV- Caution). Coefficient of variation is higher than 40 percent -No sample unit under this category than 40 percent -No sample unit under this category

Table 6-17a: Coefficients of variation (CVs) for simsim area and production by sub-region

| Sub-region           | First season 2020 |                       |                 | Second season 2020 |                       |                 | Total 2020        |                       |                 |
|----------------------|-------------------|-----------------------|-----------------|--------------------|-----------------------|-----------------|-------------------|-----------------------|-----------------|
|                      | Area planted (ha) | Area harvested * (ha) | Production (MT) | Area planted (ha)  | Area harvested * (ha) | Production (MT) | Area planted (ha) | Area harvested * (ha) | Production (MT) |
| <i>South Buganda</i> |                   |                       |                 |                    |                       |                 |                   |                       |                 |
| <i>North Buganda</i> | 71.0              | 71.0                  | 70.8            | 73.8               | 80.4                  | 89.3            | 67.0              | 70.6                  | 80.3            |
| <i>West Nile</i>     | 41.0              | 36.6                  | 39.5            | 20.5               | 23.9                  | 26.0            | 20.4              | 23.8                  | 25.8            |
| <i>Lango</i>         | 26.2              | 27.1                  | 28.6            | 19.3               | 21.2                  | 22.3            | 16.3              | 19.0                  | 19.0            |
| <i>Acholi</i>        | 23.8              | 37.9                  | 30.7            | 14.3               | 17.1                  | 18.7            | 13.4              | 15.6                  | 17.3            |
| <i>Kigezi</i>        | -                 | -                     | -               | -                  | -                     | -               | -                 | -                     | -               |
| <i>Bunyoro</i>       | 98.8              | 98.8                  | 99.0            | 87.1               |                       | 91.0            | 96.2              | 98.8                  | 98.0            |
| <i>Tooro</i>         | 88.2              | 85.1                  | 83.2            | 93.7               | 96.8                  | 85.5            | 89.7              | 88.5                  | 83.7            |
| <i>Busoga</i>        | 72.2              | 72.2                  | 67.5            | 68.1               | 75.8                  | 65.9            | 57.2              | 61.5                  | 59.2            |
| <i>Teso</i>          | 40.9              | 42.4                  | 42.6            | 25.6               | 26.1                  | 38.1            | 28.2              | 29.2                  | 31.8            |
| <i>Bukedi</i>        | 46.1              | 48.6                  | 60.1            | 62.0               | 75.0                  | 65.1            | 35.4              | 39.6                  | 43.5            |
| <i>Elgon</i>         | 100.0             | 100.0                 | 100.0           | 69.8               | 100.0                 | 100.0           | 89.0              | 87.6                  | 97.3            |
| <i>Karamoja</i>      | 47.1              | 51.9                  | 51.2            |                    | -                     | -               | 47.1              | 51.9                  | 51.2            |
| <i>Ankole</i>        | -                 | -                     | -               | -                  | -                     | -               | -                 |                       | --              |
| <b>Uganda</b>        | <b>16.0</b>       | <b>19.2</b>           | <b>21.7</b>     | <b>9.5</b>         | <b>11.0</b>           | <b>11.7</b>     | <b>9.0</b>        | <b>10.4</b>           | <b>11.2</b>     |



Table 6-18: Simsim area and production by ZARDI

| ZARDI         | First season 2020 |                       |                 |                 |                  | Second season 2020 |                       |                 |                 |                  | Total 2020        |                       |                 |                 |                  |
|---------------|-------------------|-----------------------|-----------------|-----------------|------------------|--------------------|-----------------------|-----------------|-----------------|------------------|-------------------|-----------------------|-----------------|-----------------|------------------|
|               | Area planted (ha) | Area harvested * (ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) | Area planted (ha)  | Area harvested * (ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) | Area planted (ha) | Area harvested * (ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) |
| Abi           | 2,146             | 643                   | 306             | 0.5             | 0.1              | 37,209             | 20,818                | 8,272           | 0.4             | 0.2              | 39,355            | 21,460                | 8,578           | 0.4             | 0.2              |
| Buginyanya    | 1,102             | 1,076                 | 490             | 0.5             | 0.4              | 1,337              | 1,160                 | 367             | 0.3             | 0.3              | 2,439             | 2,236                 | 857             | 0.4             | 0.4              |
| Bulindi       | 5,296             | 5,296                 | 2,651           | 0.5             | 0.5              | 1,456              | -                     | 376             |                 | 0.3              | 6,752             | 5,296                 | 3,026           | 0.6             | 0.4              |
| Kachwekano    |                   |                       |                 |                 |                  |                    |                       |                 |                 |                  | -                 | -                     | -               |                 |                  |
| Mukono        | 284               | 284                   | 53              | 0.2             | 0.2              | 288                | 196                   | 208             | 1.1             | 0.7              | 572               | 480                   | 261             | 0.5             | 0.5              |
| Ngetta        | 48,029            | 32,076                | 10,471          | 0.3             | 0.2              | 117,733            | 68,979                | 25,779          | 0.4             | 0.2              | 165,762           | 101,055               | 36,250          | 0.4             | 0.2              |
| Nabuin        | 5,540             | 4,119                 | 1,025           | 0.2             | 0.2              |                    |                       |                 |                 |                  | 5,540             | 4,119                 | 1,025           | 0.2             | 0.2              |
| Serere        | 5,320             | 4,062                 | 1,527           | 0.4             | 0.3              | 9,049              | 5,417                 | 3,269           | 0.6             | 0.4              | 14,368            | 9,479                 | 4,796           | 0.5             | 0.3              |
| Mbarara       |                   |                       |                 |                 |                  |                    |                       |                 |                 |                  | -                 | -                     | -               |                 |                  |
| Rwebitaba     | 5,664             | 4,388                 | 1,219           | 0.3             | 0.2              | 2,130              | 1,951                 | 604             | 0.3             | 0.3              | 7,794             | 6,339                 | 1,823           | 0.3             | 0.2              |
| <b>Uganda</b> | <b>73,379</b>     | <b>51,944</b>         | <b>17,741</b>   | <b>0.3</b>      | <b>0.2</b>       | <b>169,203</b>     | <b>98,521</b>         | <b>38,874</b>   | <b>0.4</b>      | <b>0.2</b>       | <b>242,582</b>    | <b>150,466</b>        | <b>56,616</b>   | <b>0.4</b>      | <b>0.2</b>       |

Notes: \*The total area harvested is computed on the percentage of the area planted with CROP that was harvested. (CV–Caution) Coefficient of variation is higher than 40 percent. -No sample unit under this category than 40 percent -No sample unit under this category

Table 6-18a: Coefficients of variation (CVs) for simsim area and production by ZARDI

| ZARDI         | First season 2020 |                  |                 | Second season 2020 |                  |                 | Total 2020        |                  |                 |
|---------------|-------------------|------------------|-----------------|--------------------|------------------|-----------------|-------------------|------------------|-----------------|
|               | Area planted (ha) | Area harvested * | Production (MT) | Area planted (ha)  | Area harvested * | Production (MT) | Area planted (ha) | Area harvested * | Production (MT) |
| Abi           | 41.0              | 36.6             | 39.5            | 20.5               | 23.9             | 26.0            | 20.4              | 23.8             | 25.8            |
| Buginyanya    | 39.1              | 40.1             | 44.3            | 53.0               | 61.0             | 51.3            | 37.0              | 40.2             | 38.2            |
| Bulindi       | 98.8              | 98.8             | 99.0            | 87.1               |                  | 91.0            | 96.2              | 98.8             | 98.0            |
| Kachwekano    | -                 | -                | -               | -                  |                  | -               | -                 | -                | --              |
| Mukono        | 71.0              | 71.0             | 70.8            | 73.8               | 80.4             | 89.3            | 67.0              | 70.6             | 80.3            |
| Ngetta        | 17.8              | 22.2             | 23.6            | 11.6               | 13.5             | 14.5            | 10.4              | 12.1             | 12.8            |
| Nabuin        | 47.1              | 51.9             | 51.2            | 25.6               | 26.1             | 38.1            | 47.1              | 51.9             | 51.2            |
| Serere        | 40.9              | 42.4             | 42.6            | -                  |                  | -               | 28.2              | 29.2             | 31.8            |
| Mbarara       | -                 | -                | -               | -                  | -                | -               | -                 | -                | -               |
| Rwebitaba     | 88.2              | 85.1             | 83.2            | 93.7               | 96.8             | 85.5            | 89.7              | 88.5             | 83.7            |
| <b>Uganda</b> | <b>16.0</b>       | <b>19.2</b>      | <b>21.7</b>     | <b>9.5</b>         | <b>11.0</b>      | <b>11.7</b>     | <b>9.0</b>        | <b>10.4</b>      | <b>11.2</b>     |

Table 6-19: Groundnuts area and production by sub-region

| Sub-region    | First season 2020 |                           |                 |                 |                  | Second season 2020 |                       |                 |                 |                  | Total 2020        |                       |                 |                 |                  |
|---------------|-------------------|---------------------------|-----------------|-----------------|------------------|--------------------|-----------------------|-----------------|-----------------|------------------|-------------------|-----------------------|-----------------|-----------------|------------------|
|               | Area planted (ha) | Area harvested * (ha)     | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) | Area planted (ha)  | Area harvested * (ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) | Area planted (ha) | Area harvested * (ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) |
| South Buganda | 4,608             | 4,069                     | 2,522           | 0.6             | 0.5              | 6,288              | 2,065                 | 2,200           | -               | 0.3              | 10,897            | 6,134                 | 4,721           | 0.8             | 0.4              |
| North Buganda | 10,286            | 9,149                     | 3,841           | 0.4             | 0.4              | 11,870             | 6,293                 | 3,808           | 0.6             | 0.3              | 22,156            | 15,442                | 7,650           | 0.5             | 0.3              |
| West Nile     | 20,347            | 13,812                    | 5,602           | 0.4             | 0.3              | 24,199             | 14,919                | 10,379          | 0.7             | 0.4              | 44,545            | 28,731                | 15,981          | 0.6             | 0.4              |
| Lango         | 22,038            | 21,147                    | 7,619           | 0.4             | 0.3              | 9,852              | 5,614                 | 3,738           | 0.7             | 0.4              | 31,890            | 26,761                | 11,357          | 0.4             | 0.4              |
| Acholi        | 41,312            | 33,491                    | 19,416          | 0.6             | 0.5              | 21,212             | 14,727                | 11,403          | 0.8             | 0.5              | 62,524            | 48,218                | 30,819          | 0.6             | 0.5              |
| Kigezi        | 2,955             | 2,550                     | 1,181           | 0.5             | 0.4              | 2,415              | 1,369                 | 1,026           | 0.7             | 0.4              | 5,370             | 3,919                 | 2,208           | 0.6             | 0.4              |
| Bunyoro       | 9,377             | 8,518                     | 5,665           | 0.7             | 0.6              | 22,918             | 15,308                | 11,807          | 0.8             | 0.5              | 32,295            | 23,826                | 17,472          | 0.7             | 0.5              |
| Tooro         | 13,285            | 12,351                    | 5,914           | 0.5             | 0.4              | 13,598             | 5,548                 | 4,543           | 0.8             | 0.3              | 26,883            | 17,899                | 10,457          | 0.6             | 0.4              |
| Busoga        | 43,792            | 41,665                    | 13,843          | 0.3             | 0.3              | 44,094             | 32,905                | 13,368          | 0.4             | 0.3              | 87,886            | 74,570                | 27,211          | 0.4             | 0.3              |
| Teso          | 65,049            | 56,997                    | 21,017          | 0.4             | 0.3              | 7,360              | 1,865                 | 805             | 0.4             | 0.1              | 72,408            | 58,862                | 21,821          | 0.4             | 0.3              |
| Bukedi        | 19,476            | 18,384                    | 8,770           | 0.5             | 0.5              | 4,614              | 2,347                 | 1,324           | 0.6             | 0.3              | 24,090            | 20,731                | 10,094          | 0.5             | 0.4              |
| Elgon         | 2,173             | 2,120                     | 1,049           | 0.5             | 0.5              | 2,442              | 1,342                 | 1,011           | 0.8             | 0.4              | 4,616             | 3,462                 | 2,060           | 0.6             | 0.4              |
| Karamoja      | 10,975            | 9,126                     | 5,246           | 0.6             | 0.5              | 312                | 312                   | 33              | 0.1             | 0.1              | 11,286            | 9,437                 | 5,278           | 0.6             | 0.5              |
| Ankole        | 13,520            | 13,224                    | 6,470           | 0.5             | 0.5              | 7,751              | 4,021                 | 2,237           | 0.6             | 0.3              | 21,270            | 17,246                | 8,706           | 0.5             | 0.4              |
| <b>Uganda</b> | <b>279,19</b>     | <b>246,60</b><br><b>3</b> | <b>108,154</b>  | <b>0.4</b>      | <b>0.4</b>       | <b>178,925</b>     | <b>108,633</b>        | <b>67,680</b>   | <b>0.6</b>      | <b>0.4</b>       | <b>458,118</b>    | <b>355,236</b>        | <b>175,834</b>  | <b>0.5</b>      | <b>0.4</b>       |

Notes: \*The total area harvested is computed on the percentage of the area planted with CROP that was harvested. (CV–Caution) Coefficient of variation is higher than 40 percent. -No sample unit under this category than 40 percent -No sample unit under this category

Table 6-19a: Coefficients of variation (CVs) for groundnuts area, production and yields by sub-region

| Sub-region    | First season 2020 |                       |                 | Second season 2020 |                       |                 | Total 2020        |                       |                 |
|---------------|-------------------|-----------------------|-----------------|--------------------|-----------------------|-----------------|-------------------|-----------------------|-----------------|
|               | Area planted (ha) | Area harvested * (ha) | Production (MT) | Area planted (ha)  | Area harvested * (ha) | Production (MT) | Area planted (ha) | Area harvested * (ha) | Production (MT) |
| South Buganda | 23.9              | 24.1                  | 36.5            | 30.9               | 38.4                  | 32.3            | 24.6              | 21.2                  | 31.7            |
| North Buganda | 23.3              | 23.9                  | 26.0            | 18.2               | 23.7                  | 19.4            | 16.7              | 18.6                  | 19.4            |
| West Nile     | 20.4              | 19.0                  | 20.1            | 20.5               | 18.5                  | 22.6            | 12.4              | 10.7                  | 15.7            |
| Lango         | 19.8              | 19.9                  | 18.5            | 28.6               | 34.1                  | 37.2            | 16.9              | 17.8                  | 17.2            |
| Acholi        | 19.6              | 20.7                  | 24.8            | 25.1               | 27.0                  | 33.1            | 14.1              | 15.4                  | 19.3            |
| Kigezi        | 38.5              | 40.6                  | 47.6            | 33.1               | 38.7                  | 36.3            | 34.3              | 37.5                  | 41.1            |
| Bunyoro       | 27.9              | 25.0                  | 25.3            | 18.0               | 19.0                  | 18.4            | 17.3              | 18.1                  | 16.5            |
| Tooro         | 20.3              | 21.0                  | 21.6            | 16.8               | 19.5                  | 18.3            | 14.8              | 16.9                  | 16.8            |
| Busoga        | 66.6              | 70.1                  | 59.1            | 69.6               | 78.9                  | 68.0            | 67.9              | 73.8                  | 63.2            |
| Teso          | 13.6              | 14.0                  | 15.8            | 33.8               | 54.3                  | 33.7            | 13.6              | 13.8                  | 15.4            |
| Bukedi        | 15.4              | 15.6                  | 15.6            | 39.9               | 35.3                  | 30.6            | 14.9              | 14.4                  | 15.0            |
| Elgon         | 39.9              | 40.8                  | 36.0            | 44.5               | 49.0                  | 51.0            | 31.9              | 32.9                  | 33.7            |
| Karamoja      | 37.8              | 41.7                  | 45.0            | 100.0              | 100.0                 | 100.0           | 38.7              | 42.8                  | 45.3            |
| Ankole        | 15.1              | 15.2                  | 17.0            | 12.7               | 16.3                  | 13.5            | 12.2              | 13.4                  | 14.2            |
| <b>Uganda</b> | <b>11.8</b>       | <b>13.0</b>           | <b>10</b>       | <b>18.1</b>        | <b>24.6</b>           | <b>15.6</b>     | <b>13.6</b>       | <b>16.0</b>           | <b>11.1</b>     |

Table 6-20: Groundnuts area and production by ZARDI

| ZARDI         | First season 2020 |                       |                 |                 |                  | Second season 2020 |                       |                 |                 |                  | Total 2020        |                       |                 |                 |                  |
|---------------|-------------------|-----------------------|-----------------|-----------------|------------------|--------------------|-----------------------|-----------------|-----------------|------------------|-------------------|-----------------------|-----------------|-----------------|------------------|
|               | Area planted (ha) | Area harvested * (ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) | Area planted (ha)  | Area harvested * (ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) | Area planted (ha) | Area harvested * (ha) | Production (MT) | Yield** (MT/ha) | Yield*** (MT/ha) |
| Abi           | 20,347            | 13,812                | 5,602           | 0.4             | 0.3              | 24,199             | 14,919                | 10,379          | 0.7             | 0.4              | 44,545            | 28,731                | 15,981          | 0.6             | 0.4              |
| Buginyanya    | 65,442            | 62,169                | 23,663          | 0.4             | 0.4              | 51,151             | 36,593                | 15,702          | 0.4             | 0.3              | 116,593           | 98,762                | 39,365          | 0.4             | 0.3              |
| Bulindi       | 9,377             | 8,518                 | 5,665           | 0.7             | 0.6              | 22,918             | 15,308                | 11,807          | 0.8             | 0.5              | 32,295            | 23,826                | 17,472          | 0.7             | 0.5              |
| Kachwekano    | 2,955             | 2,550                 | 1,181           | 0.5             | 0.4              | 2,415              | 1,369                 | 1,026           | 0.7             | 0.4              | 5,370             | 3,919                 | 2,208           | 0.6             | 0.4              |
| Mukono        | 14,484            | 12,808                | 6,139           | 0.5             | 0.4              | 17,918             | 8,118                 | 5,858           | 0.7             | 0.3              | 32,402            | 20,926                | 11,997          | 0.6             | 0.4              |
| Ngetta        | 63,350            | 54,638                | 27,035          | 0.5             | 0.4              | 31,064             | 20,341                | 15,141          | 0.7             | 0.5              | 94,414            | 74,979                | 42,175          | 0.6             | 0.4              |
| Nabuin        | 10,975            | 9,126                 | 5,246           | 0.6             | 0.5              | 312                | 312                   | 33              | 0.1             | 0.1              | 11,286            | 9,437                 | 5,278           | 0.6             | 0.5              |
| Serere        | 65,049            | 56,997                | 21,017          | 0.4             | 0.3              | 7,360              | 1,865                 | 805             | 0.4             | 0.1              | 72,408            | 58,862                | 21,821          | 0.4             | 0.3              |
| Mbarara       | 13,930            | 13,635                | 6,694           | 0.5             | 0.5              | 7,990              | 4,261                 | 2,386           | 0.6             | 0.3              | 21,921            | 17,896                | 9,080           | 0.5             | 0.4              |
| Rwebitaba     | 13,285            | 12,351                | 5,914           | 0.5             | 0.4              | 13,598             | 5,548                 | 4,543           | 0.8             | 0.3              | 26,883            | 17,899                | 10,457          | 0.6             | 0.4              |
| <b>Uganda</b> | <b>279,193</b>    | <b>246,603</b>        | <b>108,154</b>  | <b>0.4</b>      | <b>0.4</b>       | <b>178,925</b>     | <b>108,633</b>        | <b>67,680</b>   | <b>0.6</b>      | <b>0.4</b>       | <b>458,118</b>    | <b>355,236</b>        | <b>175,834</b>  | <b>0.5</b>      | <b>0.4</b>       |

Notes: \* a (CV– Caution) Coefficient of variation is higher than 40 percent -No sample unit under this category

Table 6-20a: Coefficients of variation (CVs) for groundnuts area, production and yields by ZARDI

| <i>ZARDI</i>         | <i>First season 2020</i>         |                                      |                            | <i>Second season 2020</i>        |                                      |                            | <i>Total 2020</i>                |                                      |                            |
|----------------------|----------------------------------|--------------------------------------|----------------------------|----------------------------------|--------------------------------------|----------------------------|----------------------------------|--------------------------------------|----------------------------|
|                      | <i>Area<br/>planted<br/>(ha)</i> | <i>Area<br/>harvested *<br/>(ha)</i> | <i>Production<br/>(MT)</i> | <i>Area<br/>planted<br/>(ha)</i> | <i>Area<br/>harvested *<br/>hHa)</i> | <i>Production<br/>(MT)</i> | <i>Area<br/>planted<br/>(ha)</i> | <i>Area<br/>harvested *<br/>(ha)</i> | <i>Production<br/>(MT)</i> |
| <i>Abi</i>           | 20.4                             | 19.0                                 | 20.1                       | 20.5                             | 18.5                                 | 22.6                       | 12.4                             | 10.7                                 | 15.7                       |
| <i>Buginyanya</i>    | 44.8                             | 47.2                                 | 35.1                       | 60.2                             | 71.0                                 | 58.0                       | 51.3                             | 55.8                                 | 43.9                       |
| <i>Bulindi</i>       | 27.9                             | 25.0                                 | 25.3                       | 18.0                             | 19.0                                 | 18.4                       | 17.3                             | 18.1                                 | 16.5                       |
| <i>Kachwekano</i>    | 38.5                             | 40.6                                 | 47.6                       | 33.1                             | 38.7                                 | 36.3                       | 34.3                             | 37.5                                 | 41.1                       |
| <i>Mukono</i>        | 18.2                             | 18.7                                 | 22.1                       | 16.2                             | 20.8                                 | 17.5                       | 14.2                             | 15.1                                 | 17.6                       |
| <i>Ngetta</i>        | 14.5                             | 14.9                                 | 18.6                       | 19.4                             | 21.7                                 | 26.6                       | 10.9                             | 11.8                                 | 14.8                       |
| <i>Nabuin</i>        | 37.8                             | 41.7                                 | 45.0                       | 100.0                            | 100.0                                | 100.0                      | 38.7                             | 42.8                                 | 45.3                       |
| <i>Serere</i>        | 13.6                             | 14.0                                 | 15.8                       | 33.8                             | 54.3                                 | 33.7                       | 13.6                             | 13.8                                 | 15.4                       |
| <i>Mbarara</i>       | 14.7                             | 14.9                                 | 16.6                       | 12.5                             | 15.8                                 | 13.2                       | 11.9                             | 13.0                                 | 13.8                       |
| <i>Rwebitaba</i>     | 20.3                             | 21.0                                 | 21.6                       | 16.8                             | 19.5                                 | 18.3                       | 14.8                             | 16.9                                 | 16.8                       |
| <b><i>Uganda</i></b> | <b>11.8</b>                      | <b>13.0</b>                          | <b>10</b>                  | <b>18.1</b>                      | <b>24.6</b>                          | <b>15.6</b>                | <b>13.6</b>                      | <b>16.0</b>                          | <b>11.1</b>                |

Table 6-21: Banana-food area, production and yields by sub-region

| Sub-region    | First season 2020 |                  |                  | Second season 2020 |                  |                  | Total 2020        |                   |                  |
|---------------|-------------------|------------------|------------------|--------------------|------------------|------------------|-------------------|-------------------|------------------|
|               | Area planted (ha) | Production (MT)  | Yield*** (MT/ha) | Area planted (ha)  | Production (MT)  | Yield*** (MT/ha) | Area planted (ha) | Production (MT)   | Yield*** (MT/ha) |
| South Buganda | 160,564           | 1,330,485        | 8.3              | 134,794            | 862,405          | 6.4              | 134,794           | 2,192,890         | 16.3             |
| North Buganda | 141,562           | 787,278          | 5.6              | 153,406            | 847,914          | 5.5              | 153,406           | 1,635,192         | 10.7             |
| West Nile     | 7,034             | 36,024           | 5.1              | 9,569              | 38,853           | 4.1              | 9,569             | 74,877            | 7.8              |
| Lango         | 1,436             | 5,544            | 3.9              | 1,798              | 7,660            | 4.3              | 1,798             | 13,204            | 7.3              |
| Acholi        | 1,477             | 5,721            | 3.9              | 1,795              | 5,316            | 3.0              | 1,795             | 11,037            | 6.1              |
| Kigezi        | 23,842            | 185,957          | 7.8              | 19,163             | 168,692          | 8.8              | 19,163            | 354,649           | 18.5             |
| Bunyoro       | 46,476            | 422,980          | 9.1              | 50,833             | 400,766          | 7.9              | 50,833            | 823,746           | 16.2             |
| Tooro         | 93,354            | 867,531          | 9.3              | 92,038             | 730,019          | 7.9              | 92,038            | 1,597,549         | 17.4             |
| Busoga        | 36,146            | 182,367          | 5.0              | 32,178             | 165,310          | 5.1              | 32,178            | 347,676           | 10.8             |
| Teso          | 6,811             | 16,507           | 2.4              | 14,132             | 14,507           | 1.0              | 14,132            | 31,013            | 2.2              |
| Bukedi        | 14,748            | 48,627           | 3.3              | 10,615             | 38,915           | 3.7              | 10,615            | 87,542            | 8.2              |
| Elgon         | 48,373            | 363,306          | 7.5              | 45,221             | 297,771          | 6.6              | 45,221            | 661,077           | 14.6             |
| Karamoja      | -                 | -                |                  | 367                | 183              | 0.5              | 367               | 183               | 0.5              |
| Ankole        | 165,341           | 1,834,936        | 11.1             | 155,924            | 1,455,503        | 9.3              | 155,924           | 3,290,439         | 21.1             |
| <b>Uganda</b> | <b>747,164</b>    | <b>6,087,262</b> | <b>8.1</b>       | <b>721,834</b>     | <b>5,033,814</b> | <b>7.0</b>       | <b>721,834</b>    | <b>11,121,075</b> | <b>15.4</b>      |

Notes: \* (CV- Caution) Coefficient of variation is higher than 40 percent -No sample unit under this category

Table 6-21a: Coefficients of variation (CVs) for banana-food area and production by sub-region

| <i>Sub-region</i>    | <i>First season 2020</i> |                        | <i>Second season 2020</i> |                        | <i>Total 2020</i>        |                        |
|----------------------|--------------------------|------------------------|---------------------------|------------------------|--------------------------|------------------------|
|                      | <i>Area planted (ha)</i> | <i>Production (MT)</i> | <i>Area planted (ha)</i>  | <i>Production (MT)</i> | <i>Area planted (ha)</i> | <i>Production (MT)</i> |
| <i>South Buganda</i> | 9.4                      | 8.9                    | 7.6                       | 8.2                    | 8.2                      | 8.0                    |
| <i>North Buganda</i> | 8.3                      | 9.6                    | 8.3                       | 9.0                    | 7.9                      | 8.4                    |
| <i>West Nile</i>     | 31.2                     | 38.2                   | 35.3                      | 37.4                   | 32.2                     | 36.5                   |
| <i>Lango</i>         | 27.7                     | 40.5                   | 50.3                      | 36.2                   | 33.2                     | 30.5                   |
| <i>Acholi</i>        | 31.4                     | 28.7                   | 30.5                      | 31.2                   | 30.2                     | 28.1                   |
| <i>Kigezi</i>        | 16.1                     | 18.3                   | 15.0                      | 16.9                   | 15.4                     | 17.5                   |
| <i>Bunyoro</i>       | 14.3                     | 18.3                   | 16.8                      | 17.3                   | 14.3                     | 16.2                   |
| <i>Tooro</i>         | 10.6                     | 11.2                   | 12.7                      | 14.0                   | 11.4                     | 12.0                   |
| <i>Busoga</i>        | 9.5                      | 11.9                   | 9.7                       | 12.7                   | 9.5                      | 11.6                   |
| <i>Teso</i>          | 20.7                     | 26.7                   | 24.3                      | 25.8                   | 21.8                     | 25.9                   |
| <i>Bukedi</i>        | 14.5                     | 21.7                   | 12.4                      | 17.6                   | 13.3                     | 19.3                   |
| <i>Elgon</i>         | 14.1                     | 19.4                   | 13.9                      | 16.6                   | 13.7                     | 17.7                   |
| <i>Karamoja</i>      |                          |                        | 100.0                     | 100.0                  | 100.0                    | 100.0                  |
| <i>Ankole</i>        | 6.7                      | 6.5                    | 7.4                       | 7.7                    | 6.7                      | 6.6                    |
| <b><i>Uganda</i></b> | <b>3.6</b>               | <b>3.9</b>             | <b>3.6</b>                | <b>4.1</b>             | <b>3</b>                 | <b>3.7</b>             |



Table 6-22: Banana-food area, production and yields by ZARDI

| ZARDI         | First season 2020 |                  |                  | Second season 2020 |                  |                  | Total 2020        |                   |                  |
|---------------|-------------------|------------------|------------------|--------------------|------------------|------------------|-------------------|-------------------|------------------|
|               | Area planted (ha) | Production (MT)  | Yield*** (MT/ha) | Area planted (ha)  | Production (MT)  | Yield*** (MT/ha) | Area planted (ha) | Production (MT)   | Yield*** (MT/ha) |
| Abi           | 7,034             | 36,024           | 5.1              | 9,569              | 38,853           | 4.1              | 9,569             | 74,877            | 7.8              |
| Buginyanya    | 99,267            | 594,299          | 6.0              | 88,015             | 501,996          | 5.7              | 88,015            | 1,096,296         | 12.5             |
| Bulindi       | 46,476            | 422,980          | 9.1              | 50,833             | 400,766          | 7.9              | 50,833            | 823,746           | 16.2             |
| Kachwekano    | 23,842            | 185,957          | 7.8              | 19,163             | 168,692          | 8.8              | 19,163            | 354,649           | 18.5             |
| Mukono        | 237,644           | 1,607,209        | 6.8              | 241,502            | 1,388,903        | 5.8              | 241,502           | 2,996,113         | 12.4             |
| Ngetta        | 2,913             | 11,265           | 3.9              | 3,594              | 12,976           | 3.6              | 3,594             | 24,241            | 6.7              |
| Nabuin        | -                 | -                |                  | 367                | 183              | 0.5              | 367               | 183               | 0.5              |
| Serere        | 6,811             | 16,507           | 2.4              | 14,132             | 14,507           | 1.0              | 14,132            | 31,013            | 2.2              |
| Mbarara       | 229,823           | 2,345,489        | 10.2             | 202,622            | 1,776,920        | 8.8              | 202,622           | 4,122,409         | 20.3             |
| Rwebitaba     | 93,354            | 867,531          | 9.3              | 92,038             | 730,019          | 7.9              | 92,038            | 1,597,549         | 17.4             |
| <b>Uganda</b> | <b>747,164</b>    | <b>6,087,262</b> | <b>8.1</b>       | <b>721,834</b>     | <b>5,033,814</b> | <b>7.0</b>       | <b>721,834</b>    | <b>11,121,075</b> | <b>15.4</b>      |

Notes: \*(CV- Caution) Coefficient of variation is higher than 40 percent -No sample unit under this category.

Table 6-22a: Coefficients of variation (CVs) for banana-food area and production by ZARDI

| <b>ZARDI</b>      | <b>First season 2020</b> |                        | <b>Second season 2020</b> |                        | <b>Total 2020</b>        |                        |
|-------------------|--------------------------|------------------------|---------------------------|------------------------|--------------------------|------------------------|
|                   | <b>Area planted (ha)</b> | <b>Production (MT)</b> | <b>Area planted (ha)</b>  | <b>Production (MT)</b> | <b>Area planted (ha)</b> | <b>Production (MT)</b> |
| <i>Abi</i>        | 31.2                     | 38.2                   | 35.3                      | 37.4                   | 32.2                     | 36.5                   |
| <i>Buginyanya</i> | 8.0                      | 12.6                   | 8.1                       | 10.8                   | 7.9                      | 11.4                   |
| <i>Bulindi</i>    | 14.3                     | 18.3                   | 16.8                      | 17.3                   | 14.3                     | 16.2                   |
| <i>Kachwekano</i> | 16.1                     | 18.3                   | 15.0                      | 16.9                   | 15.4                     | 17.5                   |
| <i>Mukono</i>     | 7.5                      | 8.6                    | 7.2                       | 7.7                    | 7.0                      | 7.6                    |
| <i>Ngetta</i>     | 21.0                     | 24.7                   | 29.4                      | 24.9                   | 22.4                     | 21.0                   |
| <i>Nabuin</i>     | 20.7                     | 26.7                   | 100.0                     | 100.0                  | 100.0                    | 100.0                  |
| <i>Serere</i>     | -                        | -                      | 24.3                      | 25.8                   | 21.8                     | 25.9                   |
| <i>Mbarara</i>    | 9.0                      | 7.6                    | 8.1                       | 7.8                    | 8.3                      | 7.3                    |
| <i>Rwebitaba</i>  | 10.6                     | 11.2                   | 12.7                      | 14.0                   | 11.4                     | 12.0                   |
| <b>Uganda</b>     | <b>3.6</b>               | <b>3.9</b>             | <b>3.6</b>                | <b>4.1</b>             | <b>3.4</b>               | <b>3.7</b>             |

Table 6-23: Sweet banana area, production and yields by sub-region

| Sub-region    | First season 2020     |                     |                     | Second season 2020    |                     |                     | Total 2020            |                     |                     |
|---------------|-----------------------|---------------------|---------------------|-----------------------|---------------------|---------------------|-----------------------|---------------------|---------------------|
|               | Area plant-ed<br>(ha) | Produ-ction<br>(MT) | Yield***<br>(MT/ha) | Area plant-ed<br>(ha) | Produ-ction<br>(MT) | Yield***<br>(MT/ha) | Area plant-ed<br>(ha) | Produ-ction<br>(MT) | Yield***<br>(MT/ha) |
| South Buganda | 2,296                 | 19,606              | 8.5                 | 2,439                 | 14,153              | 5.8                 | 2,439                 | 33,759              | 13.8                |
| North Buganda | 18,074                | 54,505              | 3.0                 | 15,899                | 48,435              | 3.0                 | 15,899                | 102,940             | 6.5                 |
| West Nile     | 1,359                 | 3,622               | 2.7                 | 1,015                 | 3,009               | 3.0                 | 1,015                 | 6,632               | 6.5                 |
| Lango         | 2,905                 | 5,733               | 2.0                 | 1,585                 | 5,891               | 3.7                 | 1,585                 | 11,623              | 7.3                 |
| Acholi        | 1,857                 | 5,057               | 2.7                 | 2,418                 | 5,780               | 2.4                 | 2,418                 | 10,837              | 4.5                 |
| Kigezi        | 932                   | 3,272               | 3.5                 | 1,073                 | 3,650               | 3.4                 | 1,073                 | 6,922               | 6.5                 |
| Bunyoro       | 1,679                 | 8,068               | 4.8                 | 3,351                 | 6,420               | 1.9                 | 3,351                 | 14,488              | 4.3                 |
| Tooro         | 1,528                 | 4,155               | 2.7                 | 4,608                 | 5,766               | 1.3                 | 4,608                 | 9,921               | 2.2                 |
| Busoga        | 1,034                 | 3,031               | 2.9                 | 900                   | 2,097               | 2.3                 | 900                   | 5,129               | 5.7                 |
| Teso          | 857                   | 2,096               | 2.4                 | 1,701                 | 2,767               | 1.6                 | 1,701                 | 4,863               | 2.9                 |
| Bukedi        | 1,991                 | 4,749               | 2.4                 | 771                   | 2,339               | 3.0                 | 771                   | 7,087               | 9.2                 |
| Elgon         | 6,217                 | 22,374              | 3.6                 | 7,776                 | 18,484              | 2.4                 | 7,776                 | 40,858              | 5.3                 |
| Karamoja      | 207                   | -                   | -                   | -                     | -                   | -                   | -                     | -                   | -                   |
| Ankole        | 1,705                 | 9,649               | 5.7                 | 1,372                 | 7,984               | 5.8                 | 1,372                 | 17,633              | 12.9                |
| <b>Uganda</b> | <b>42,641</b>         | <b>145,915</b>      | <b>3.4</b>          | <b>44,909</b>         | <b>126,775</b>      | <b>2.8</b>          | <b>44,909</b>         | <b>272,690</b>      | <b>6.1</b>          |

Notes: \* (CV- Caution) Coefficient of variation is higher than 40 percent -No sample unit under this category

Table 6-23a: Coefficients of variation (CVs) of sweet banana area, production by sub-region

| <i>Sub-region</i>    | <i>First season 2020</i> |                        | <i>Second season 2020</i> |                        | <i>Total 2020</i>        |                        |
|----------------------|--------------------------|------------------------|---------------------------|------------------------|--------------------------|------------------------|
|                      | <i>Area planted (ha)</i> | <i>Production (MT)</i> | <i>Area planted (ha)</i>  | <i>Production (MT)</i> | <i>Area planted (ha)</i> | <i>Production (MT)</i> |
| <i>South Buganda</i> | 39.8                     | 49.6                   | 36.0                      | 38.7                   | 37.2                     | 41.3                   |
| <i>North Buganda</i> | 23.8                     | 23.2                   | 21.7                      | 30.5                   | 22.3                     | 26.1                   |
| <i>West Nile</i>     | 27.9                     | 38.1                   | 31.2                      | 31.1                   | 27.7                     | 31.6                   |
| <i>Lango</i>         | 30.6                     | 33.9                   | 33.9                      | 31.9                   | 29.1                     | 31.3                   |
| <i>Acholi</i>        | 26.0                     | 45.9                   | 22.9                      | 24.9                   | 21.5                     | 29.8                   |
| <i>Kigezi</i>        | 39.1                     | 40.9                   | 35.8                      | 38.6                   | 36.4                     | 38.9                   |
| <i>Bunyoro</i>       | 47.1                     | 52.7                   | 61.7                      | 61.5                   | 55.1                     | 55.9                   |
| <i>Tooro</i>         | 39.7                     | 27.7                   | 35.5                      | 33.5                   | 32.3                     | 29.5                   |
| <i>Busoga</i>        | 37.6                     | 34.0                   | 32.5                      | 33.6                   | 33.5                     | 31.0                   |
| <i>Teso</i>          | 29.1                     | 41.6                   | 21.5                      | 32.1                   | 20.7                     | 31.7                   |
| <i>Bukedi</i>        | 22.7                     | 27.4                   | 22.0                      | 25.0                   | 21.2                     | 24.6                   |
| <i>Elgon</i>         | 19.4                     | 19.3                   | 18.5                      | 20.0                   | 18.5                     | 19.2                   |
| <i>Karamoja</i>      | 100.0                    |                        |                           |                        | 100.0                    |                        |
| <i>Ankole</i>        | 21.7                     | 23.2                   | 19.2                      | 22.4                   | 19.8                     | 21.5                   |
| <b><i>Uganda</i></b> | <b>11.4</b>              | <b>11.7</b>            | <b>10.6</b>               | <b>13.5</b>            | <b>10.4</b>              | <b>12.2</b>            |

Table 6-24: Sweet banana area, production and yields by ZARDI

| ZARDI         | First season 2020 |                 |                  | Second season 2020 |                 |                  | Total 2020        |                 |                  |
|---------------|-------------------|-----------------|------------------|--------------------|-----------------|------------------|-------------------|-----------------|------------------|
|               | Area planted (ha) | Production (MT) | Yield*** (MT/ha) | Area planted (ha)  | Production (MT) | Yield*** (MT/ha) | Area planted (ha) | Production (MT) | Yield*** (MT/ha) |
| Abi           | 1,359             | 3,622           | 2.7              | 1,015              | 3,009           | 3.0              | 1,015             | 6,632           | 6.5              |
| Buginyanya    | 9,242             | 30,154          | 3.3              | 9,448              | 22,920          | 2.4              | 9,448             | 53,074          | 5.6              |
| Bulindi       | 1,679             | 8,068           | 4.8              | 3,351              | 6,420           | 1.9              | 3,351             | 14,488          | 4.3              |
| Kachwekano    | 932               | 3,272           | 3.5              | 1,073              | 3,650           | 3.4              | 1,073             | 6,922           | 6.5              |
| Mukono        | 19,640            | 69,645          | 3.5              | 17,833             | 57,030          | 3.2              | 17,833            | 126,675         | 7.1              |
| Ngetta        | 4,762             | 10,790          | 2.3              | 4,003              | 11,670          | 2.9              | 4,003             | 22,460          | 5.6              |
| Nabuin        | 207               | -               | -                |                    |                 |                  | -                 | -               |                  |
| Serere        | 857               | 2,096           | 2.4              | 1,701              | 2,767           | 1.6              | 1,701             | 4,863           | 2.9              |
| Mbarara       | 2,434             | 14,114          | 5.8              | 1,876              | 13,542          | 7.2              | 1,876             | 27,656          | 14.7             |
| Rwebitaba     | 1,528             | 4,155           | 2.7              | 4,608              | 5,766           | 1.3              | 4,608             | 9,921           | 2.2              |
| <b>Uganda</b> | <b>42,641</b>     | <b>145,915</b>  | <b>3.4</b>       | <b>44,909</b>      | <b>126,775</b>  | <b>2.8</b>       | <b>44,909</b>     | <b>272,690</b>  | <b>6.1</b>       |

Notes: \*(CV- Caution) Coefficient of variation is higher than 40 percent -No sample unit under this category

Table 6-24a: Coefficients of variation (CVs) of sweet banana area and production by ZARDI

| <b>ZARDI</b>      | <b>First season 2020</b>     |                            | <b>Second season 2020</b> |                            | <b>Total 2020</b>            |                            |
|-------------------|------------------------------|----------------------------|---------------------------|----------------------------|------------------------------|----------------------------|
|                   | <b>Area planted<br/>(ha)</b> | <b>Production<br/>(MT)</b> | <b>Area planted (ha)</b>  | <b>Production<br/>(MT)</b> | <b>Area planted<br/>(ha)</b> | <b>Production<br/>(MT)</b> |
| <i>Abi</i>        | 27.9                         | 38.1                       | 31.2                      | 31.1                       | 27.7                         | 31.6                       |
| <i>Buginyanya</i> | 14.6                         | 15.3                       | 15.7                      | 16.6                       | 14.7                         | 15.4                       |
| <i>Bulindi</i>    | 47.1                         | 52.7                       | 61.7                      | 61.5                       | 55.1                         | 55.9                       |
| <i>Kachwekano</i> | 39.1                         | 40.9                       | 35.8                      | 38.6                       | 36.4                         | 38.9                       |
| <i>Mukono</i>     | 22.3                         | 22.6                       | 19.9                      | 26.8                       | 20.6                         | 23.5                       |
| <i>Ngetta</i>     | 21.3                         | 28.0                       | 19.3                      | 20.3                       | 18.2                         | 21.7                       |
| <i>Nabuin</i>     | 100.0                        |                            |                           |                            | 100.0                        |                            |
| <i>Serere</i>     | 29.1                         | 41.6                       | 21.5                      | 32.1                       | 20.7                         | 31.7                       |
| <i>Mbarara</i>    | 24.9                         | 25.9                       | 22.6                      | 33.2                       | 23.6                         | 27.7                       |
| <i>Rwebitaba</i>  | 39.7                         | 27.7                       | 35.5                      | 33.5                       | 32.3                         | 29.5                       |
| <b>Uganda</b>     | <b>11.4</b>                  | <b>11.7</b>                | <b>10.6</b>               | <b>13.5</b>                | <b>10.4</b>                  | <b>12.2</b>                |

Table 6-25: Banana-beer area, production and yields by sub-region

| Sub-region    | First season 2020 |                 |                  | Second season 2020 |                 |                  | Total 2020        |                 |                  |
|---------------|-------------------|-----------------|------------------|--------------------|-----------------|------------------|-------------------|-----------------|------------------|
|               | Area planted (ha) | Production (MT) | Yield*** (MT/ha) | Area planted (ha)  | Production (MT) | Yield*** (MT/ha) | Area planted (ha) | Production (MT) | Yield*** (MT/ha) |
| South Buganda | 1,520             | 12,968          | 8.5              | 1,140              | 3,604           | 3.2              | 1,140             | 16,572          | 14.5             |
| North Buganda | 3,317             | 18,429          | 5.6              | 10,303             | 23,597          | 2.3              | 10,303            | 42,025          | 4.1              |
| West Nile     | 42                | 605             | 14.4             | 91                 | 437             | 4.8              | 91                | 1,042           | 11.5             |
| Lango         |                   |                 |                  |                    |                 |                  | -                 | -               |                  |
| Acholi        | 1,063             | 5,868           | 5.5              | 896                | 5,366           | 6.0              | 896               | 11,234          | 12.5             |
| Kigezi        | 2,597             | 22,031          | 8.5              | 1,276              | 26,871          | 21.1             | 1,276             | 48,902          | 38.3             |
| Bunyoro       | 790               | 5,986           | 7.6              | 456                | 2,767           | 6.1              | 456               | 8,753           | 19.2             |
| Tooro         | 865               | 7,389           | 8.5              | 610                | 11,188          | 18.4             | 610               | 18,577          | 30.5             |
| Busoga        | 1,277             | 5,790           | 4.5              | 1,015              | 2,942           | 2.9              | 1,015             | 8,732           | 8.6              |
| Teso          |                   |                 |                  |                    |                 |                  | -                 | -               |                  |
| Bukedi        | 665               | 1,275           | 1.9              | 436                | 1,065           | 2.4              | 436               | 2,340           | 5.4              |
| Elgon         | 19                | 93              | 4.9              | 32                 | 90              | 2.8              | 32                | 184             | 5.7              |
| Karamoja      |                   |                 |                  |                    |                 |                  | -                 | -               |                  |
| Ankole        | 2,156             | 23,650          | 11.0             | 1,052              | 21,852          | 20.8             | 1,052             | 45,503          | 43.3             |
| <b>Uganda</b> | <b>14,312</b>     | <b>104,084</b>  | <b>7.3</b>       | <b>17,305</b>      | <b>99,780</b>   | <b>5.8</b>       | <b>17,305</b>     | <b>203,864</b>  | <b>11.8</b>      |

Notes: \*(CV– Caution) Coefficient of variation is higher than 40 percent -No sample unit under this category

Table 6-25a: Coefficients of variation (CVs) of banana-beer area and production by sub-region

| <i>Sub-region</i>    | <i>First season 2020</i> |                        | <i>Second season 2020</i> |                        | <i>Total 2020</i>        |                        |
|----------------------|--------------------------|------------------------|---------------------------|------------------------|--------------------------|------------------------|
|                      | <i>Area planted (Ha)</i> | <i>Production (MT)</i> | <i>Area planted (Ha)</i>  | <i>Production (MT)</i> | <i>Area planted (Ha)</i> | <i>Production (MT)</i> |
| <i>South Buganda</i> | 94.5                     | 78.9                   | 94.6                      | 73.6                   | 94.5                     | 73.8                   |
| <i>North Buganda</i> | 43.9                     | 51.8                   | 64.6                      | 63.0                   | 52.6                     | 45.3                   |
| <i>West Nile</i>     | 87.3                     | 83.8                   | 72.4                      | 70.6                   | 70.0                     | 76.5                   |
| <i>Lango</i>         |                          |                        |                           |                        |                          |                        |
| <i>Acholi</i>        | 45.8                     | 46.9                   | 30.9                      | 43.4                   | 37.2                     | 44.1                   |
| <i>Kigezi</i>        | 33.7                     | 33.2                   | 35.9                      | 42.3                   | 31.9                     | 37.6                   |
| <i>Bunyoro</i>       | 64.8                     | 60.1                   | 57.3                      | 66.3                   | 52.0                     | 51.2                   |
| <i>Tooro</i>         | 43.4                     | 47.7                   | 44.5                      | 44.5                   | 42.7                     | 41.5                   |
| <i>Busoga</i>        | 40.0                     | 39.5                   | 46.2                      | 38.9                   | 41.3                     | 37.2                   |
| <i>Teso</i>          |                          |                        |                           |                        |                          |                        |
| <i>Bukedi</i>        | 34.1                     | 33.3                   | 33.0                      | 36.1                   | 33.3                     | 33.0                   |
| <i>Elgon</i>         | 81.4                     | 88.4                   | 88.7                      | 100.0                  | 85.8                     | 70.2                   |
| <i>Karamoja</i>      |                          |                        |                           |                        |                          |                        |
| <i>Ankole</i>        | 25.4                     | 24.9                   | 27.2                      | 22.5                   | 25.3                     | 22.9                   |
| <b><i>Uganda</i></b> | <b>17.4</b>              | <b>17</b>              | <b>39.3</b>               | <b>20.5</b>            | <b>24.9</b>              | <b>16.1</b>            |

Table 6-26: Banana-beer area, production and yields by ZARDI



| ZARDI         | First season 2020 |                 |                  | Second season 2020 |                 |                  | Total 2020        |                 |                  |
|---------------|-------------------|-----------------|------------------|--------------------|-----------------|------------------|-------------------|-----------------|------------------|
|               | Area planted (ha) | Production (MT) | Yield*** (MT/ha) | Area planted (ha)  | Production (MT) | Yield*** (MT/ha) | Area planted (ha) | Production (MT) | Yield*** (MT/ha) |
| Abi           | 42                | 605             | 14.4             | 91                 | 437             | 4.8              | 91                | 1,042           | 11.5             |
| Buginyanya    | 1,962             | 7,158           | 3.6              | 1,483              | 4,098           | 2.8              | 1,483             | 11,257          | 7.6              |
| Bulindi       | 790               | 5,986           | 7.6              | 456                | 2,767           | 6.1              | 456               | 8,753           | 19.2             |
| Kachwekano    | 2,597             | 22,031          | 8.5              | 1,276              | 26,871          | 21.1             | 1,276             | 48,902          | 38.3             |
| Mukono        | 4,837             | 31,397          | 6.5              | 11,442             | 27,200          | 2.4              | 11,442            | 58,597          | 5.1              |
| Ngetta        | 1,063             | 5,868           | 5.5              | 896                | 5,366           | 6.0              | 896               | 11,234          | 12.5             |
| Nabuin        |                   |                 |                  |                    |                 |                  | -                 | -               |                  |
| Serere        |                   |                 |                  |                    |                 |                  | -                 | -               |                  |
| Mbarara       | 2,156             | 23,650          | 11.0             | 1,052              | 21,852          | 20.8             | 1,052             | 45,503          | 43.3             |
| Rwebitaba     | 865               | 7,389           | 8.5              | 610                | 11,188          | 18.4             | 610               | 18,577          | 30.5             |
| <b>Uganda</b> | <b>14,312</b>     | <b>104,084</b>  | <b>7.3</b>       | <b>17,305</b>      | <b>99,780</b>   | <b>5.8</b>       | <b>17,305</b>     | <b>203,864</b>  | <b>11.8</b>      |

Notes: (CV– Caution) Coefficient of variation is higher than 40 percent -No sample unit under this category

Table 6-26a: Coefficients of variation (CVs) of banana-beer area and production by ZARDI

| <b>ZARDI</b>      | <b>First season 2020</b>         |                            | <b>Second season 2020</b>        |                            | <b>Total 2020</b>                |                            |
|-------------------|----------------------------------|----------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------|
|                   | <b>Area<br/>planted<br/>(ha)</b> | <b>Production<br/>(MT)</b> | <b>Area<br/>planted<br/>(ha)</b> | <b>Production<br/>(MT)</b> | <b>Area<br/>planted<br/>(ha)</b> | <b>Production<br/>(MT)</b> |
| <i>Abi</i>        | 87.3                             | 83.8                       | 72.4                             | 70.6                       | 69.96                            | 76.48                      |
| <i>Buginyanya</i> | 28.5                             | 32.5                       | 33.1                             | 29.5                       | 29.48                            | 29.69                      |
| <i>Bulindi</i>    | 64.8                             | 60.1                       | 57.3                             | 66.3                       | 52.01                            | 51.21                      |
| <i>Kachwekano</i> | 33.7                             | 33.2                       | 35.9                             | 42.3                       | 31.85                            | 37.62                      |
| <i>Mukono</i>     | 42.3                             | 44.6                       | 58.9                             | 55.5                       | 46.64                            | 38.65                      |
| <i>Ngetta</i>     | 45.8                             | 46.9                       | 30.9                             | 43.4                       | 37.17                            | 44.09                      |
| <i>Nabuin</i>     |                                  |                            |                                  |                            |                                  |                            |
| <i>Serere</i>     |                                  |                            |                                  |                            |                                  |                            |
| <i>Mbarara</i>    | 25.4                             | 24.9                       | 27.2                             | 22.5                       | 25.35                            | 22.86                      |
| <i>Rwebitaba</i>  | 43.4                             | 47.7                       | 44.5                             | 44.5                       | 42.73                            | 41.49                      |
| <b>Uganda</b>     | <b>17.4</b>                      | <b>17</b>                  | <b>39.3</b>                      | <b>20.5</b>                | <b>24.9</b>                      | <b>16.1</b>                |

Table 6-27: Cassava area and production by sub-region

| Sub-region    | First season 2020 |                 |                  | Second season 2020 |                  |                  | Total 2020        |                  |                  |
|---------------|-------------------|-----------------|------------------|--------------------|------------------|------------------|-------------------|------------------|------------------|
|               | Area planted (ha) | Production (MT) | Yield*** (MT/ha) | Area planted (ha)  | Production (MT)  | Yield*** (MT/ha) | Area planted (ha) | Production (MT)  | Yield*** (MT/ha) |
| South Buganda | 15,611            | 43,483          | 2.8              | 15,804             | 26,340           | 1.7              | 15,804            | 69,824           | 4.4              |
| North Buganda | 57,481            | 90,732          | 1.6              | 54,173             | 113,349          | 2.1              | 54,173            | 204,081          | 3.8              |
| West Nile     | 135,366           | 84,472          | 0.6              | 132,995            | 183,596          | 1.4              | 132,995           | 268,068          | 2                |
| Lango         | 128,832           | 63,745          | 0.5              | 100,845            | 182,824          | 1.8              | 100,845           | 246,569          | 2.4              |
| Acholi        | 54,928            | 56,740          | 1                | 64,800             | 77,332           | 1.2              | 64,800            | 134,072          | 2.1              |
| Kigezi        | 2,582             | 4,632           | 1.8              | 1,971              | 4,496            | 2.3              | 1,971             | 9,128            | 4.6              |
| Bunyoro       | 35,217            | 18,824          | 0.5              | 40,107             | 45,056           | 1.1              | 40,107            | 63,880           | 1.6              |
| Tooro         | 26,777            | 20,230          | 0.8              | 27,808             | 16,992           | 0.6              | 27,808            | 37,221           | 1.3              |
| Busoga        | 76,631            | 71,954          | 0.9              | 78,064             | 124,194          | 1.6              | 78,064            | 196,148          | 2.5              |
| Teso          | 79,316            | 49,300          | 0.6              | 129,044            | 153,391          | 1.2              | 129,044           | 202,692          | 1.6              |
| Bukedi        | 84,084            | 74,424          | 0.9              | 73,396             | 111,811          | 1.5              | 73,396            | 186,236          | 2.5              |
| Elgon         | 13,656            | 6,397           | 0.5              | 16,980             | 20,330           | 1.2              | 16,980            | 26,727           | 1.6              |
| Karamoja      | 2,420             | -               | 0                | 316                | 1,491            | 4.7              | 316               | 1,491            | 4.7              |
| Ankole        | 4,470             | 15,724          | 3.5              | 3,713              | 10,601           | 2.9              | 3,713             | 26,325           | 7.1              |
| <b>Uganda</b> | <b>717,371</b>    | <b>600,659</b>  | <b>0.8</b>       | <b>740,014</b>     | <b>1,071,803</b> | <b>1.4</b>       | <b>740,014</b>    | <b>1,672,462</b> | <b>2.3</b>       |

Notes: (CV– Caution). Coefficient of variation is higher than 40 percent -No sample unit under this category

Table 6-27a: Coefficients of variation (CVs) for cassava area, production by sub-region

| Sub-region    | First season 2020 |                       |                 | Second season 2020 |                       |                 | Total 2020        |                       |                 |
|---------------|-------------------|-----------------------|-----------------|--------------------|-----------------------|-----------------|-------------------|-----------------------|-----------------|
|               | Area planted (ha) | Area harvested * (ha) | Production (MT) | Area planted (ha)  | Area harvested * (ha) | Production (MT) | Area planted (ha) | Area harvested * (ha) | Production (MT) |
| South Buganda | 18.5              | 18.4                  | 30.3            | 20.9               | 28.0                  | 19.2            | 17.6              | 19.7                  | 20.8            |
| North Buganda | 17.9              | 18.0                  | 25.0            | 14.7               | 18.5                  | 14.7            | 15.8              | 17.4                  | 16.4            |
| West Nile     | 11.0              | 11.0                  | 22.2            | 8.1                | 9.8                   | 15.6            | 9.1               | 10.0                  | 15.8            |
| Lango         | 7.9               | 7.9                   | 23.3            | 6.1                | 10.8                  | 10.4            | 6.5               | 7.2                   | 10.9            |
| Acholi        | 18.9              | 18.9                  | 40.8            | 15.2               | 17.9                  | 31.0            | 16.6              | 18.1                  | 32.6            |
| Kigezi        | 29.6              | 30.3                  | 34.7            | 27.6               | 31.0                  | 33.4            | 28.2              | 29.3                  | 31.9            |
| Bunyoro       | 20.3              | 20.4                  | 24.0            | 16.2               | 21.2                  | 18.8            | 15.7              | 17.6                  | 16.1            |
| Tooro         | 23.2              | 23.3                  | 25.2            | 19.1               | 23.0                  | 23.9            | 20.8              | 22.8                  | 19.7            |
| Busoga        | 16.2              | 16.2                  | 26.7            | 15.9               | 17.8                  | 17.6            | 15.5              | 16.1                  | 17.2            |
| Teso          | 10.6              | 10.6                  | 22.9            | 10.0               | 14.1                  | 29.1            | 9.9               | 12.0                  | 24.9            |
| Bukedi        | 10.8              | 10.8                  | 16.5            | 10.3               | 12.5                  | 8.9             | 10.1              | 10.8                  | 10.4            |
| Elgon         | 15.6              | 18.9                  | 32.1            | 15.9               | 20.4                  | 16.9            | 15.0              | 18.9                  | 17.5            |
| Karamoja      | 64.7              | 64.7                  |                 | 72.9               | 100.0                 | 100.0           | 61.2              | 63.0                  | 100.0           |
| Ankole        | 15.8              | 17.2                  | 28.3            | 13.7               | 22.7                  | 18.5            | 12.6              | 15.8                  | 19.8            |
| <b>Uganda</b> | <b>4.3</b>        | <b>4.3</b>            | <b>8.3</b>      | <b>3.8</b>         | <b>4.9</b>            | <b>6.4</b>      | <b>3.8</b>        | <b>4.3</b>            | <b>6.0</b>      |

Table 6-28: Cassava area and production by ZARDI

| ZARDI         | First season 2020 |                 |                  | Second season 2020 |                  |                  | Total 2020        |                  |                  |
|---------------|-------------------|-----------------|------------------|--------------------|------------------|------------------|-------------------|------------------|------------------|
|               | Area planted (ha) | Production (MT) | Yield*** (MT/ha) | Area planted (ha)  | Production (MT)  | Yield*** (MT/ha) | Area planted (ha) | Production (MT)  | Yield*** (MT/ha) |
| Abi           | 135,366           | 84,472          | 0.6              | 132,995            | 183,596          | 1.4              | 132,995           | 268,068          | 2.0              |
| Buginyanya    | 174,371           | 152,776         | 0.9              | 168,440            | 256,335          | 1.5              | 168,440           | 409,111          | 2.4              |
| Bulindi       | 35,217            | 18,824          | 0.5              | 40,107             | 45,056           | 1.1              | 40,107            | 63,880           | 1.6              |
| Kachwekano    | 2,582             | 4,632           | 1.8              | 1,971              | 4,496            | 2.3              | 1,971             | 9,128            | 4.6              |
| Mukono        | 68,825            | 114,981         | 1.7              | 68,611             | 132,123          | 1.9              | 68,611            | 247,103          | 3.6              |
| Ngetta        | 183,759           | 120,485         | 0.7              | 165,645            | 260,156          | 1.6              | 165,645           | 380,641          | 2.3              |
| Nabuin        | 2,420             | -               | 0.0              | 316                | 1,491            | 4.7              | 316               | 1,491            | 4.7              |
| Serere        | 79,316            | 49,300          | 0.6              | 129,044            | 153,391          | 1.2              | 129,044           | 202,692          | 1.6              |
| Mbarara       | 8,737             | 34,958          | 4.0              | 5,079              | 18,167           | 3.6              | 5,079             | 53,126           | 10.5             |
| Rwebitaba     | 26,777            | 20,230          | 0.8              | 27,808             | 16,992           | 0.6              | 27,808            | 37,221           | 1.3              |
| <b>Uganda</b> | <b>717,371</b>    | <b>600,659</b>  | <b>0.8</b>       | <b>740,014</b>     | <b>1,071,803</b> | <b>1.4</b>       | <b>740,014</b>    | <b>1,672,462</b> | <b>2.3</b>       |

Notes: (CV- Caution) Coefficient of variation is higher than 40 percent -No sample unit under this category

Table 6-28a: Coefficients of variation for cassava area and production by ZARDI

| ZARDI         | First season 2020 |                       |                 | Second season 2020 |                       |                 | Total 2020        |                       |                 |
|---------------|-------------------|-----------------------|-----------------|--------------------|-----------------------|-----------------|-------------------|-----------------------|-----------------|
|               | Area planted (ha) | Area harvested * (ha) | Production (MT) | Area planted (ha)  | Area harvested * (ha) | Production (MT) | Area planted (ha) | Area harvested * (ha) | Production (MT) |
| Abi           | 11.0              | 11.0                  | 22.2            | 8.1                | 9.8                   | 15.6            | 9.1               | 10.0                  | 15.8            |
| Buginyanya    | 8.9               | 9.0                   | 15.0            | 8.8                | 10.5                  | 9.5             | 8.5               | 9.2                   | 9.6             |
| Bulindi       | 20.3              | 20.4                  | 24.0            | 16.2               | 21.2                  | 18.8            | 15.7              | 17.6                  | 16.1            |
| Kachwekano    | 29.6              | 30.3                  | 34.7            | 27.6               | 31.0                  | 33.4            | 28.2              | 29.3                  | 31.9            |
| Mukono        | 15.4              | 15.5                  | 21.4            | 12.7               | 15.9                  | 13.1            | 13.5              | 14.9                  | 14.3            |
| Ngetta        | 7.9               | 7.9                   | 22.9            | 7.0                | 10.5                  | 11.7            | 7.1               | 8.1                   | 13.5            |
| Nabuin        | 64.7              | 64.7                  |                 | 72.9               | 100.0                 | 100.0           | 61.2              | 63.0                  | 100.0           |
| Serere        | 10.6              | 10.6                  | 22.9            | 10.0               | 14.1                  | 29.1            | 9.9               | 12.0                  | 24.9            |
| Mbarara       | 24.2              | 25.8                  | 31.7            | 12.6               | 18.9                  | 20.6            | 17.2              | 20.6                  | 23.7            |
| Rwebitaba     | 23.2              | 23.3                  | 25.2            | 19.1               | 23.0                  | 23.9            | 20.8              | 22.8                  | 19.7            |
| <b>Uganda</b> | <b>4.3</b>        | <b>4.3</b>            | <b>8.3</b>      | <b>3.8</b>         | <b>4.9</b>            | <b>6.4</b>      | <b>3.8</b>        | <b>4.3</b>            | <b>6.0</b>      |

Table 6-29: Coffee robusta area and production by sub-region

| Sub-region    | First season 2020 |                 |                  | Second season 2020 |                 |                  | Total 2020        |                 |                  |
|---------------|-------------------|-----------------|------------------|--------------------|-----------------|------------------|-------------------|-----------------|------------------|
|               | Area planted (ha) | Production (MT) | Yield*** (MT/ha) | Area planted (ha)  | Production (MT) | Yield*** (MT/ha) | Area planted (ha) | Production (MT) | Yield*** (MT/ha) |
| South Buganda | 139,311           | 60,077          | 0.4              | 134,640            | 35,267          | 0.3              | 134,640           | 95,344          | 0.7              |
| North Buganda | 114,550           | 27,624          | 0.2              | 117,049            | 36,386          | 0.3              | 117,049           | 64,009          | 0.5              |
| West Nile     | 201               | 5               | 0.0              | 201                | -               | -                | 201               | 5               | 0.0              |
| Lango         | 209               | -               | -                | 209                | 68              | 0.3              | 209               | 68              | 0.3              |
| Acholi        | 6                 | 3               | 0.5              | 6                  | 6               | 1.1              | 6                 | 9               | 1.6              |
| Kigezi        | 10,266            | 4,596           | 0.4              | 10,128             | 3,052           | 0.3              | 10,128            | 7,649           | 0.8              |
| Bunyoro       | 20,634            | 2,210           | 0.1              | 19,011             | 7,239           | 0.4              | 19,011            | 9,448           | 0.5              |
| Tooro         | 10,898            | 2,802           | 0.3              | 11,105             | 2,643           | 0.2              | 11,105            | 5,445           | 0.5              |
| Busoga        | 32,142            | 7,627           | 0.2              | 28,629             | 7,744           | 0.3              | 28,629            | 15,371          | 0.5              |
| Teso          |                   |                 |                  |                    |                 |                  |                   |                 |                  |
| Bukedi        | 267               | 20              | 0.1              | 267                | 40              | 0.2              | 267               | 60              | 0.2              |
| Elgon         | 139               | -               | -                |                    |                 |                  | -                 | -               |                  |
| Karamoja      |                   |                 |                  |                    |                 |                  |                   |                 |                  |
| Ankole        | 48,101            | 23,724          | 0.5              | 47,370             | 11,526          | 0.2              | 47,370            | 35,250          | 0.7              |
| <b>Uganda</b> | <b>376,722</b>    | <b>128,688</b>  | <b>0.3</b>       | <b>368,615</b>     | <b>103,971</b>  | <b>0.3</b>       | <b>368,615</b>    | <b>232,659</b>  | <b>0.6</b>       |

Notes: (CV– Caution). Coefficient of variation is higher than 40 percent. -No sample unit under this category.

Table 6-29a: Coefficients of Variation (CVs) for coffee robusta area and production by sub-region

| Sub-region    | First season 2020 |                 | Second season 2020 |                 | Total 2020        |                 |
|---------------|-------------------|-----------------|--------------------|-----------------|-------------------|-----------------|
|               | Area planted (ha) | Production (MT) | Area planted (ha)  | Production (MT) | Area planted (ha) | Production (MT) |
| South Buganda | 15.3              | 17.1            | 65.7               | 72.5            | 57.9              | 51.4            |
| North Buganda | 11.5              | 15.0            | -                  | -               | -                 | -               |
| West Nile     | 82.2              | 100.0           | 51.8               | 71.7            | 49.4              | 50.0            |
| Lango         | 100.0             | -               | 88.3               | -               | 70.0              | -               |
| Acholi        | 100.0             | 100.0           | 100.0              | -               | 100.0             | -               |
| Kigezi        | 26.0              | 29.0            | 49.3               | 57.8            | 44.8              | 53.6            |
| Bunyoro       | 19.9              | 42.4            | 33.6               | 100.0           | 33.1              | 36.8            |
| Tooro         | 21.4              | 24.3            | 30.1               | 27.7            | 30.5              | 24.3            |
| Busoga        | 15.0              | 24.7            | 49.6               | 70.0            | 48.3              | 49.2            |
| Teso          |                   |                 |                    |                 |                   |                 |
| Bukedi        | 60.0              | 63.7            | 73.8               | 70.2            | 73.8              | 65.3            |
| Elgon         | 100.0             | -               | 22.4               | 48.3            | 20.2              | 26.6            |
| Karamoja      |                   |                 |                    |                 |                   |                 |
| Ankole        | 13.7              | 15.3            | 51.2               | 43.3            | 47.4              | 73.3            |
| <b>Uganda</b> | <b>7.1</b>        | <b>9.3</b>      | <b>7.2</b>         | <b>8.0</b>      | <b>7.2</b>        | <b>8.1</b>      |



Table 6-30: Coffee robusta area and production by ZARDI

| ZARDI         | First season 2020 |                 |                  |   | Second season 2020 |                 |                  | Total 2020        |                 |                  |
|---------------|-------------------|-----------------|------------------|---|--------------------|-----------------|------------------|-------------------|-----------------|------------------|
|               | Area planted (ha) | Production (MT) | Yield*** (MT/ha) |   | Area planted (ha)  | Production (MT) | Yield*** (MT/ha) | Area planted (ha) | Production (MT) | Yield*** (MT/ha) |
| Abi           | 201               | 5               | 0.03             |   | 201                | -               | -                | 201               | 5               | 0.0              |
| Buginyanya    | 32,547            | 7,647           | 0.2              |   | 28,896             | 7,784           | 0.3              | 28,896            | 15,431          | 0.5              |
| Bulindi       | 20,634            | 2,210           | 0.1              |   | 19,011             | 7,239           | 0.4              | 19,011            | 9,448           | 0.5              |
| Kachwekano    | 10,266            | 4,596           | 0.4              |   | 10,128             | 3,052           | 0.3              | 10,128            | 7,649           | 0.8              |
| Mukono        | 205,880           | 64,862          | 0.3              |   | 202,875            | 61,030          | 0.3              | 202,875           | 125,893         | 0.6              |
| Ngetta        | 214               | 3               | 0.0              |   | 214                | 74              | 0.3              | 214               | 77              | 0.4              |
|               | -                 | -               | -                | - | -                  | -               | -                |                   |                 |                  |
| Nabuin        |                   |                 |                  |   |                    |                 |                  | -                 | -               | -                |
| Serere        | -                 | -               | -                | - |                    | --              | -                | -                 | -               | -                |
| Mbarara       | 96,082            | 46,562          | 0.5              |   | 96,184             | 22,148          | 0.2              | 96,184            | 68,711          | 0.7              |
| Rwebitaba     | 10,898            | 2,802           | 0.3              |   | 11,105             | 2,643           | 0.2              | 11,105            | 5,445           | 0.5              |
|               |                   |                 |                  |   |                    |                 |                  |                   |                 |                  |
| <b>Uganda</b> | <b>376,722</b>    | <b>128,688</b>  | <b>0.3</b>       |   | <b>368,615</b>     | <b>103,971</b>  | <b>0.3</b>       | <b>368,615</b>    | <b>232,659</b>  | <b>0.6</b>       |

Notes: (CV– Caution) Coefficient of variation is higher than 40 percent -No sample unit under this category

Table 6-30a: Coefficients of variation (CVs) for coffee robusta area and production by ZARDI

| ZARDI         | First season 2020 |                 | Second season 2020 |                 | Total 2020        |                 |
|---------------|-------------------|-----------------|--------------------|-----------------|-------------------|-----------------|
|               | Area planted (ha) | Production (MT) | Area planted (ha)  | Production (MT) | Area planted (ha) | Production (MT) |
| Abi           | 82.2              | 100.0           | 82.2               |                 | 82.2              | 100.0           |
| Buginyanya    | 14.9              | 24.6            | 15.9               | 22.5            | 15.3              | 20.0            |
| Bulindi       | 19.9              | 42.4            | 18.9               | 24.6            | 18.7              | 26.0            |
| Kachwekano    | 26.0              | 29.0            | 25.9               | 29.5            | 25.9              | 28.3            |
| Mukono        | 11.2              | 13.6            | 11.1               | 12.1            | 11.1              | 12.2            |
| Ngetta        | 97.4              | 100.0           | 97.4               | 92.2            | 97.4              | 89.1            |
| Nabuin        |                   |                 |                    |                 |                   |                 |
| Serere        |                   |                 |                    |                 |                   |                 |
| Mbarara       | 18.7              | 20.7            | 18.8               | 19.6            | 18.7              | 19.4            |
| Rwebitaba     | 21.4              | 24.3            | 20.7               | 30.0            | 21.0              | 26.2            |
| <b>Uganda</b> | <b>7.1</b>        | <b>9.3</b>      | <b>7.2</b>         | <b>8.0</b>      | <b>7.2</b>        | <b>8.1</b>      |

Table 6-31: Coffee arabica area and production by sub-region

| Sub-region    | First season 2020 |                 |                  | Second season 2020 |                 |                  | Total 2020        |                 |                  |
|---------------|-------------------|-----------------|------------------|--------------------|-----------------|------------------|-------------------|-----------------|------------------|
|               | Area planted (ha) | Production (MT) | Yield*** (MT/ha) | Area planted (ha)  | Production (MT) | Yield*** (MT/ha) | Area planted (ha) | Production (MT) | Yield*** (MT/ha) |
| South Buganda |                   |                 |                  |                    |                 |                  | -                 | -               |                  |
| North Buganda | 364               | 146             | 0.4              | 422                | 282             | 0.7              | 422               | 429             | 1.0              |
| West Nile     | 2,028             | 158             | 0.1              | 2,129              | 192             | 0.1              | 2,129             | 351             | 0.2              |
| Lango         | 2,906             | -               | -                | 781                | -               | -                | 781               | -               | -                |
| Acholi        | 40                | -               | -                | 40                 | -               | -                | 40                | -               | -                |
| Kigezi        | 880               | 311             | 0.4              | 879                | 404             | 0.5              | 879               | 715             | 0.8              |
| Bunyoro       | 4,985             | 29              | 0.0              | 4,992              | 2,901           | 0.6              | 4,992             | 2,930           | 0.6              |
| Tooro         | 46,242            | 15,780          | 0.3              | 45,559             | 7,759           | 0.2              | 45,559            | 23,539          | 0.5              |
| Busoga        | 953               | 903             | 0.9              | 850                | 532             | 0.6              | 850               | 1,435           | 1.7              |
| Teso          |                   |                 |                  |                    |                 |                  | -                 | -               |                  |
| Bukedi        | 560               | 103             | 0.2              | 560                | 134             | 0.2              | 560               | 237             | 0.4              |
| Elgon         | 31,541            | 3,589           | 0.1              | 26,961             | 6,084           | 0.2              | 26,961            | 9,674           | 0.4              |
| Karamoja      |                   |                 |                  |                    |                 |                  | -                 | -               |                  |
| Ankole        | 4,503             | 1,154           | 0.3              | 4,760              | 2,287           | 0.5              | 4,760             | 3,441           | 0.7              |
| <b>Uganda</b> | <b>95,003</b>     | <b>22,175</b>   | <b>0.2</b>       | <b>87,932</b>      | <b>20,576</b>   | <b>0.2</b>       | <b>87,932</b>     | <b>42,750</b>   | <b>0.5</b>       |

Notes: (CV– Caution) Coefficient of variation is higher than 40 percent -No sample unit under this category

Table 6-31a: Coefficients of variation (CVs) for coffee arabica area and production by sub-region

| Sub-region    | First season 2020 |                 | Second season 2020 |                 | Total 2020        |                 |
|---------------|-------------------|-----------------|--------------------|-----------------|-------------------|-----------------|
|               | Area planted (ha) | Production (MT) | Area planted (Ha)  | Production (MT) | Area planted (ha) | Production (MT) |
| South Buganda |                   |                 |                    |                 |                   |                 |
| North Buganda | 65.7              | 72.5            | 57.9               | 51.4            | 61.1              | 50.8            |
| West Nile     | 51.8              | 71.7            | 49.4               | 50.0            | 50.5              | 53.7            |
| Lango         | 88.3              |                 | 70.0               |                 | 82.4              |                 |
| Acholi        | 100.0             |                 | 100.0              |                 | 100.0             |                 |
| Kigezi        | 49.3              | 57.8            | 44.8               | 53.6            | 46.9              | 54.8            |
| Bunyoro       | 33.6              | 100.0           | 33.1               | 36.8            | 33.2              | 36.5            |
| Tooro         | 30.1              | 27.7            | 30.5               | 24.3            | 30.3              | 25.3            |
| Busoga        | 49.6              | 70.0            | 48.3               | 49.2            | 46.4              | 53.3            |
| Teso          |                   |                 |                    |                 |                   |                 |
| Bukedi        | 73.8              | 70.2            | 73.8               | 65.3            | 73.8              | 65.5            |
| Elgon         | 22.4              | 48.3            | 20.2               | 26.6            | 20.7              | 32.1            |
| Karamoja      |                   |                 |                    |                 |                   |                 |
| Ankole        | 51.2              | 43.3            | 47.4               | 73.3            | 49.0              | 60.4            |
| <b>Uganda</b> | <b>17.0</b>       | <b>22</b>       | <b>17.3</b>        | <b>15.6</b>     | <b>17.0</b>       | <b>16.8</b>     |

Table 6-32: Coffee arabica area and production by Zonal Agricultural Research and Development Institutes

| ZARDI         | First season 2020 |                 |                  | Second season 2020 |                 |                  | Total 2020        |                 |                  |
|---------------|-------------------|-----------------|------------------|--------------------|-----------------|------------------|-------------------|-----------------|------------------|
|               | Area planted (ha) | Production (MT) | Yield*** (MT/ha) | Area planted (ha)  | Production (MT) | Yield*** (MT/ha) | Area planted (ha) | Production (MT) | Yield*** (MT/ha) |
| Abi           | 2,028             | 158             | 0.1              | 2,129              | 192             | 0.1              | 2,129             | 351             | 0.2              |
| Buginyanya    | 33,054            | 4,596           | 0.1              | 28,370             | 6,750           | 0.2              | 28,370            | 11,346          | 0.4              |
| Bulindi       | 4,985             | 29              | 0.0              | 4,992              | 2,901           | 0.6              | 4,992             | 2,930           | 0.6              |
| Kachwekano    | 880               | 311             | 0.4              | 879                | 404             | 0.5              | 879               | 715             | 0.8              |
| Mukono        | 364               | 146             | 0.4              | 422                | 282             | 0.7              | 422               | 429             | 1.0              |
| Ngetta        | 2,947             | -               | -                | 822                | -               | -                | 822               | -               | -                |
| Nabuin        |                   |                 |                  |                    |                 |                  | -                 | -               |                  |
| Serere        |                   |                 |                  |                    |                 |                  | -                 | -               |                  |
| Mbarara       | 4,503             | 1,154           | 0.3              | 4,760              | 2,287           | 0.5              | 4,760             | 3,441           | 0.7              |
| Rwebitaba     | 46,242            | 15,780          | 0.3              | 45,559             | 7,759           | 0.2              | 45,559            | 23,539          | 0.5              |
| <b>Uganda</b> | <b>95,003</b>     | <b>22,175</b>   | <b>0.2</b>       | <b>87,932</b>      | <b>20,576</b>   | <b>0.2</b>       | <b>87,932</b>     | <b>42,750</b>   | <b>0.5</b>       |

Table 6-32a: Coefficients of variation (CVs) for coffee arabica area and production by ZARDI

| ZARDI         | First season 2020 |                 | Second season 2020 |                 | Total 2020        |                 |
|---------------|-------------------|-----------------|--------------------|-----------------|-------------------|-----------------|
|               | Area planted (ha) | Production (MT) | Area planted (ha)  | Production (MT) | Area planted (ha) | Production (MT) |
| Abi           | 51.8              | 71.7            | 49.4               | 50.0            | 50.5              | 53.7            |
| Buginyanya    | 21.4              | 40.2            | 19.3               | 24.3            | 19.8              | 28.2            |
| Bulindi       | 33.6              | 100.0           | 33.1               | 36.8            | 33.2              | 36.5            |
| Kachwekano    | 49.3              | 57.8            | 44.8               | 53.6            | 46.9              | 54.8            |
| Mukono        | 65.7              | 72.5            | 57.9               | 51.4            | 61.1              | 50.8            |
| Ngetta        | 87.0              | -               | 66.7               | -               | 80.7              | -               |
| Nabuin        | -                 | -               | -                  | -               | -                 | -               |
| Serere        | -                 | -               | -                  | -               | -                 | -               |
| Mbarara       | 51.2              | 43.3            | 47.4               | 73.3            | 49.0              | 60.4            |
| Rwebitaba     | 30.1              | 27.7            | 30.5               | 24.3            | 30.3              | 25.3            |
| <b>Uganda</b> | <b>17.0</b>       | <b>22.0</b>     | <b>17.3</b>        | <b>15.6</b>     | <b>17.0</b>       | <b>16.8</b>     |

Table 6-33: Percentage of households cultivating major crops at national level (years 2019 and 2020)

| Crop           | 2019     |          | 2020     |          |
|----------------|----------|----------|----------|----------|
|                | Season 1 | Season 2 | Season 1 | Season 2 |
| Banana-beer    | 4.1      | 3.9      | 2.3      | 2.5      |
| Banana-food    | 46.6     | 47.3     | 56.0     | 59.2     |
| Sweet banana   | 6.4      | 5.6      | 8.4      | 8.8      |
| Beans          | 53.6     | 41.9     | 45.2     | 53.4     |
| Cassava        | 53.1     | 44.8     | 43.6     | 54.7     |
| Coffee arabica | 7.1      | 7.2      | 6.6      | 7.0      |
| Coffee robusta | 21.9     | 20.7     | 24.0     | 24.8     |
| Groundnuts     | 28.9     | 11.1     | 16.7     | 16.7     |
| Irish potatoes | 7.3      | 5.0      | 3.4      | 4.7      |
| Maize          | 69.5     | 48.3     | 52.1     | 57.1     |
| Millet         | 11.4     | 7.4      | 6.0      | 8.7      |
| Rice           | 4.3      | 2.7      | 3.8      | 4.5      |
| Simsim         | 5.4      | 6.3      | 2.8      | 7.9      |
| Sorghum        | 15.3     | 6.7      | 10.1     | 10.1     |
| Soya beans     | 7.9      | 6.7      | 6.2      | 5.9      |
| Sweet potatoes | 36.1     | 31.6     | 22.2     | 35.8     |

Table 6-34: Area, production and yields in the year 2019 national level

| Crop           | AAS 2019              |                     |                 |                         |                       |                        |                     |                 |                         |                       |
|----------------|-----------------------|---------------------|-----------------|-------------------------|-----------------------|------------------------|---------------------|-----------------|-------------------------|-----------------------|
|                | AAS 2019 first season |                     |                 |                         |                       | AAS 2019 second season |                     |                 |                         |                       |
|                | Area planted (ha)     | Area harvested (ha) | Production (MT) | Yield on area harvested | Yield on area planted | Area planted (ha)      | Area harvested (ha) | Production (MT) | Yield on area harvested | Yield on area planted |
| Maize          | 1,073,426             | 964,464             | 1,463,572       | 1.5                     | 1.4                   | 813,647                | 774,989             | 1,296,007       | 1.7                     | 1.6                   |
| Rice           | 113,454               | 68,352              | 75,608          | 1.1                     | 0.7                   | 64,212                 | 61,300              | 90,988          | 1.5                     | 1.4                   |
| Sorghum        | 244,634               | 92,363              | 52,647          | 0.6                     | 0.2                   | 79,244                 | 73,709              | 44,661          | 0.6                     | 0.6                   |
| Millet         | 168,068               | 144,945             | 46,597          | 0.3                     | 0.3                   | 62,248                 | 58,767              | 26,061          | 0.4                     | 0.4                   |
| Soya beans     | 128,453               | 114,781             | 78,875          | 0.7                     | 0.6                   | 87,330                 | 83,889              | 48,004          | 0.6                     | 0.5                   |
| Groundnuts     | 330,999               | 262,566             | 92,105          | 0.4                     | 0.3                   | 89,330                 | 86,343              | 41,197          | 0.5                     | 0.5                   |
| Simsim         | 98,560                | 51,002              | 12,416          | 0.2                     | 0.1                   | 122,992                | 117,426             | 31,169          | 0.3                     | 0.3                   |
| Irish potatoes | 59,817                | 53,138              | 154,848         | 2.9                     | 2.6                   | 34,779                 | 32,665              | 105,998         | 3.2                     | 3.1                   |
| Sweet potatoes | 255,456               | 158,472             | 295,816         | 1.9                     | 1.2                   | 248,214                | 218,164             | 776,194         | 3.6                     | 3.1                   |
| Beans          | 510,086               | 442,741             | 238,230         | 0.5                     | 0.5                   | 357,123                | 322,111             | 199,380         | 0.6                     | 0.6                   |
| Cassava        | 684,554               |                     | 927,484         | N/R                     | 1.4                   | 658,561                |                     | 1,733,522       | N/R                     | 2.6                   |
| Banana-food    | 577,399               |                     | 4,177,749       | N/R                     | 7.2                   | 589,378                |                     | 5,260,662       | N/R                     | 8.9                   |
| Coffee arabica | 75,125                |                     | 21,386          | N/R                     | 0.3                   | 82,774                 |                     | 41,634          | N/R                     | 0.5                   |
| Coffee robusta | 337,829               |                     | 84,161          | N/R                     | 0.2                   | 309,942                |                     | 107,990         | N/R                     | 0.3                   |

Note: N/R, not relevant - Yields of permanent crops and cassava have been calculated each season by dividing the seasonal production by the area planted in the season. Please note that the table has been updated.



Table 6-35: Area, production and yields in the year 2020 national level

| Crop           | AAS 2020              |                     |                 |                         |                       |                        |                     |                 |                         |                       |
|----------------|-----------------------|---------------------|-----------------|-------------------------|-----------------------|------------------------|---------------------|-----------------|-------------------------|-----------------------|
|                | AAS 2020 first season |                     |                 |                         |                       | AAS 2020 second season |                     |                 |                         |                       |
|                | Area planted (ha)     | Area harvested (ha) | Production (MT) | Yield on area harvested | Yield on area planted | Area planted (ha)      | Area harvested (ha) | Production (MT) | Yield on area harvested | Yield on area planted |
| Maize          | 1,071,129             | 967,469             | 1,891,681       | 2.0                     | 1.8                   | 965,335                | 594,654             | 1,618,797       | 2.7                     | 1.7                   |
| Rice           | 114,913               | 101,124             | 156,230         | 1.5                     | 1.4                   | 105,663                | 79,430              | 118,807         | 1.5                     | 1.1                   |
| Sorghum        | 199,089               | 76,036              | 55,006          | 0.7                     | 0.3                   | 174,839                | 92,292              | 104,720         | 1.1                     | 0.6                   |
| Millet         | 109,778               | 99,969              | 32,871          | 0.3                     | 0.3                   | 90,297                 | 49,644              | 32,640          | 0.7                     | 0.4                   |
| Soya beans     | 151,783               | 143,289             | 100,262         | 0.7                     | 0.7                   | 72,747                 | 39,414              | 37,240          | 0.9                     | 0.5                   |
| Groundnuts     | 279,076               | 247,437             | 108,158         | 0.4                     | 0.4                   | 178,942                | 108,646             | 67,680          | 0.6                     | 0.4                   |
| Simsim         | 73,379                | 51,944              | 17,741          | 0.3                     | 0.2                   | 169,219                | 98,531              | 38,874          | 0.4                     | 0.2                   |
| Irish potatoes | 41,076                | 32,368              | 109,913         | 3.4                     | 2.7                   | 39,501                 | 20,906              | 113,707         | 5.4                     | 2.9                   |
| Sweet potatoes | 211,110               | 130,575             | 442,720         | 3.4                     | 2.1                   | 254,883                | 109,417             | 763,819         | 7.0                     | 3.0                   |
| Beans          | 717,371               | 713,278             | 600,659         | 0.8                     | 0.8                   | 740,054                | 528,587             | 1,071,806       | 2.0                     | 1.4                   |
| Cassava        | 559,531               |                     | 319,969         | N/R                     | 0.6                   | 574,592                |                     | 349,599         | N/R                     | 0.6                   |
| Banana-food    | 747,164               |                     | 6,087,262       | N/R                     | 8.1                   | 721,889                |                     | 5,033,825       | N/R                     | 7.0                   |
| Coffee arabica | 95,003                |                     | 22,175          | N/R                     | 0.2                   | 87,932                 |                     | 20,576          | N/R                     | 0.2                   |
| Coffee robusta | 376,722               |                     | 128,688         | N/R                     | 0.3                   | 368,615                |                     | 103,971         | N/R                     | 0.3                   |

Note: N/R, not relevant - Yields of permanent crops and cassava have been calculated each season by dividing the seasonal production by the area planted in the season. Please note that the table has been updated.

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