



THE UNITED REPUBLIC OF TANZANIA

# ANNUAL AGRICULTURAL SAMPLE SURVEY 2022/23

## NATIONAL REPORT



SEPTEMBER, 2024





The United Republic of Tanzania

# Annual Agricultural Sample Survey 2022/23

## National Report

September, 2024



**With the Financial Support of**



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**Food and Agriculture Organization  
of the United Nations**



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## Preface

It is with great pleasure that the National Bureau of Statistics (NBS) and Office of the Chief Government Statistician (OCGS) Zanzibar introduce the Annual Agricultural Sample Survey (AASS) report for the 2022/23 agricultural year. This report provides vital agricultural data from smallholder farms at the household level and large scale farms for informing government policies, plans, and programs at both national and regional levels. Moreover, the report offers an avenue for utilizing statistics that respond to specific indicators of the Sustainable Development Goals (SDGs), the Comprehensive Africa Agriculture Development Programme (CAADP), Vision 2025, the third National Five Year Development Plan 2021/22–2025/26 (FYDP III), the Tanzania Statistical Master Plan Phase II 2022/23–2026/27 (TSMP II), and the Agriculture Sector Statistics Strategic Plan 2022/23–2026/27 (ASSP). These efforts are aimed at driving sustainable development and prosperity within the agricultural sector.

NBS and OCGS express deep gratitude to the Government of the United Republic of Tanzania for its strong commitment and support in aligning the AASS program with the 50 by 2030 Initiative, aimed at closing the agricultural data gap by empowering 50 low and lower middle-income countries to build strong national data systems that produce and use high quality, timely agricultural survey data.

The Government of the United Republic Tanzania extends heartfelt gratitude to its partners specifically the World Bank, FAO, and IFAD for their financial and technical assistance which has been crucial in improving the quality and timeliness of agricultural survey data. The success of the AASS 2022/23 survey is attributed to the collaborative efforts of various stakeholders, including NBS, OCGS and Agriculture Sector Lead Ministries (ASLMs). Their expertise was key in producing the AASS 2022/23 report, marking the first round under the 50x2030 Initiative's agricultural approach.

Lastly, we extend our deep appreciation to all stakeholders involved in every stage of the survey process, from preparation to the final report. Special thanks go to the survey respondents, enumerators, and local leaders who generously dedicated their time and efforts, making data collection feasible in their communities. Together, we will continue producing and promoting agricultural statistics to support national development and prosperity for all Tanzanians.



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*Note: The results obtained from the Sample Survey are not directly comparable with those derived from Administrative Sources due to the different methodologies used. Further, Survey data can be used to improve methodologies employed in handling sources of administrative data. For further clarification, please do not hesitate to contact the National Bureau of Statistics (NBS).*



## Acronyms and Abbreviations

AASS	Annual Agricultural Sample Survey
ASLMs	Agriculture Sector Lead Ministries
CAADP	Comprehensive Africa Agriculture Development Programme
FAO	Food and Agriculture Organization of the United Nations
GDP	Gross Domestic Product
GSARS	Global Strategy for Agricultural and Rural Statistics
IDA	International Development Association
NBS	National Bureau of Statistics
OCGS	Office of the Chief Government Statistician Zanzibar
PO-RALG	President's Office, Regional Administration and Local Government
SDGs	Sustainable Development Goals
TOE	Training of Enumerators
TOT	Training of Trainers
TSMP II	Tanzania Statistical Master Plan II

## Key Findings

### 1.0 Agricultural Households by Sex and Activities, Tanzania



**8,970,096**  
Agricultural Households



**72.9%**  
Male-Headed Households



**27.1%**  
Female-Headed Households



**8.82 million (98.3%)**  
Households Engaged in  
Crop Production



**5.43 million (60.6%)**  
Households Engaged in  
Livestock Rearing



**43,821 (0.5%)**  
Households Engaged in  
Fish Farming

### 2.0 Area Cultivated (Million Hectares), Tanzania



**17.2 Ha.**  
Total Area Planted



**8.86 Ha.**  
Cereal Crops  
**6.3 Ha.**  
Maize



**1.2 Ha.**  
Roots & Tuber Crops  
**0.78 Ha.**  
Cassava

### 3.0 Production of Selected Crops (Million Tons), Tanzania



**9.7 Tons**  
Selected cereal Crops  
**7.0 Tons** Maize



**1.72 Tons**  
Selected Roots & Tubers  
**0.7 Tons** Cassava

### 4.0 Land Ownership



**52.3%**  
Total cultivated land  
owned with "Customary  
Right of Occupancy", by  
households

### 5.0 Planted Area Irrigated



**922,852 Ha.**  
(4.6%)  
Total planted area  
with crops irrigated

### 6.0 Seed Use



**41.3%** Households  
used **Improved seeds**  
**79.6%** Households  
used **Local seeds**

### 7.0 Fertilizer Use



**60.7%** Households  
used **Organic Fertilizer**  
**56.1%** Households  
used **Inorganic**

### 8.0 Climatic and Non-Climatic Shocks, Tanzania



**(516,763 ha; 9.5 %)**  
Planted area fully affected in  
the short rainy season  
**(910,318 ha; 11.0 %)**  
Planted area fully affected in  
the long rainy season



**(1,404,401 ha; 25.8%)**  
Planted area partially  
affected in the short rainy  
season  
**(2,589,496 ha; 31.4%)**  
Planted area partially  
affected in the long rainy  
season

### 10.0 Agricultural Loans



**4.9%**

Agricultural households accessed loans  
for agricultural purposes

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## Definition of Key Terms

### **Reference Period**

The Annual Agriculture Sample Survey (AASS) covered the agricultural year 2022/23. The agricultural year is a twelve - month cycle in which production of crops takes place. In Tanzania, agricultural year commences on 1st October and ends 30th September of the following year.

### **Household**

Is defined as person or a group of persons with a common arrangement for providing themselves with food regardless of source of income. A household may be either a one-person household or a multi-person household.

### **Agricultural Holding**

Is any economic unit of agricultural production (like a garden of temporary and/or permanent crops or cattle rearing/plantation) under single management, without regard to title, legal form, or size.

### **Field**

Is any piece of land of one land tenure type surrounded by other land, water, road, forest or other features not forming part of the farm, or forming part of the farm under a different land tenure type. This includes fields that were used partially or entirely for crop cultivation (including vegs and fruit trees and kitchen gardens), farm buildings, farmyards, temporary or permanent pastures, forests and other wooded land, and aquaculture. Include also fields that were left temporarily fallow or unused.

### **Plot**

A plot is defined as a continuous piece of land on which a specific crop or a mixture of crops is grown or which is fallow or waiting to be planted.

### **Tenure**

Refers to the arrangements or right under which the holder holds or uses land.

### **Short Rainy Season**

Short rainy season in Tanzania begins in October up to January of the following year.

### **Long Rainy Season**

Long rainy season in Tanzania begins in March up to May of the same year.

**Dry Season**

The dry season in Tanzania typically occurs from June to October. During this period, there is minimal rainfall, and the humidity remains very low.

**Temporary Crops**

This refers to crops that mature within one or more rain seasons (e.g. beans and maize) and shall be replanted after the harvest.

**Permanent Crops**

This refers to crops which are sown or planted once, and then, they occupy the land for some years and need not to be replanted after each annual harvest.

**Cropping Household**

A household is referred to be an exclusively cropping household if it has cultivated a piece of land equal to or exceeding 25 square meters, but had no livestock, or it rears a number of animals below the established thresholds (i.e., no cattle or less than 5 goats/sheep/pigs or less than 50 chickens/turkeys/ducks).

**Livestock Household**

A household is referred to be an exclusively livestock household if it reared at least 1 cattle or at least 5 between goats, sheep and pigs or at least 50 between chickens, turkeys and ducks during the reference agricultural year and it cultivated no land or less than 25 square meters.

**Crops and Livestock**

A household is referred to be both crops and livestock household if it has cultivated a piece of land equal or exceeding 25 square meters and reared at least one cattle or least five between goats, sheep or pigs, or at least fifty between chicken, ducks or turkeys during the reference agricultural year.

**Aquaculture**

Is defined as farming of aquatic organisms including fish, mollusks, crustaceans and aquatic plants in either brackish, marine or fresh water.

**Large Scale Farms**

These are farms with at least 20 hectares of cultivated land or at least 50 herds of cattle or at least 100 between goats, sheep and pigs or at least 1,000 chickens. In addition to this, they should fulfill all of the four listed conditions:

- i) Greater part of the produce should go to the market;
- ii) Operation of farm should be continuous;
- iii) There should be an application of machinery/implements on the farm; and



- iv) Should have at least one permanent employee.

## Chapter 1: Background

### 1.0 Introduction

The agriculture sector remains the most important and strategic driver of economic growth, job creation, and development in Tanzania. It contributes about 28 percent of the country's GDP and approximately 29 percent of total exports, with roughly 65 percent of the population employed in and reliant on the sector for their livelihood. Smallholder households play a significant role, producing up to 80 percent of all agricultural output in rural areas. As such, the agriculture sector is crucial for Tanzania's economic transformation, with its impact extending across all agricultural sub-sectors. Additionally, the sector is vital for ensuring the country's food and nutrition security.

Given the importance of accurate and reliable agricultural statistics is enormous, especially for policy, planning and evidence-based decision making, the National Bureau of Statistics (NBS) and Office of Chief Government Statistician (OCGS) with technical support from the Food and Agriculture Organization of the United Nations (FAO) conducted the Annual Agriculture Sample Survey (AASS) for the Agricultural Year 2022/23. From the beginning and at all stages, NBS and OCGS worked together with Agriculture Sector Lead Ministries (ASLMs) in order to ensure that the survey considered national policies and other frameworks in the development of the agriculture sector in the country. Tanzania has developed a long and medium-term policy framework for the economy in general and for the agriculture sector in particular, which places agriculture at the center and has evolved various sector and sub-sector policies. Related fields such as natural resources management are addressed and their complementarity in terms of achieving the long-term social and economic development objective of the country is articulated.

The Annual Agriculture Sample Survey (AASS 2022/23) report focuses on agricultural households, land use, crop production, input use and acquisition (fertilizers and pesticides), seed and seedling acquisition, agro-processing, irrigation use, livestock product and production and aquaculture production. Nonetheless, the survey collected also data on access to credit, labor and other economics. In addition, the report describes the agricultural activities at National and Regional level that took place in both sides of the United Republic of Tanzania during the 2022/23 Agricultural year.

The report is divided in five chapters: Background Information, Demographics, Irrigation and inputs; Area, production and use of major crops; and Access to financial services (credit).

## **1.1 Survey Objectives**

The main objective of the Annual Agriculture Sample Survey (AASS-2022/23) was to generate up-to-date and precise data on the acreage and production of major crops, livestock numbers, livestock products, and aquaculture. Accurate crop production figures are essential for a wide range of stakeholders in the agriculture sector. The data from this survey provides critical insights for farmers, agricultural businesses, government policymakers, and other key players to inform their decisions in both the short and long term.

The specific objectives of the AASS 2022/23:

- i. To collect timely data on agricultural production and productivity at both national and regional levels;
- ii. To gather core data to help develop and review agricultural policies and to guide the implementation of agricultural plans at national and regional levels between agricultural censuses periods;
- iii. To compile fundamental statistics that facilitate comparisons in the development of the agriculture sector across the country.

## **1.2 Methodology**

### **1.2.1 Scope and Coverage**

The Annual Agricultural Sample Survey 2022/23 was conducted for both agricultural households and large scale farms. This report covers information on agricultural households with summary data from large scale farms to provide complete national estimates for some variables such as households rearing livestock, crop production, and households practicing aquaculture.

The main topics covered during the survey were household members and holder identification; field roster; short and long rainy plot roster; short and long rainy crop roster; permanent crop production; crop harvest use; seed and seedling acquisition; input use and acquisition (fertilizer and pesticides); labour; other economics; and arm registration.

### 1.2.2 Sample Design

The frame used to extract the sample for the Annual Agricultural Sample Survey (AASS-2022/23) in Tanzania was the Population and Housing Census (PHC-2022) frame that lists all the Enumeration Areas - EAs/Hamlets of the country. The AASS-2022/23 used a stratified two-stage sampling design which allows to produce accurate estimates at regional level for both Mainland Tanzania and Zanzibar. In each domain (region), the EAs (primary sampling units) have been first stratified into two or three strata<sup>1</sup> and then selected by using a systematic sampling procedure with probability proportional to size (PPS) where the measure of size is the number of agricultural households in the EA. Before the selection, within each stratum and domain (region), the Enumeration Areas (EAs) were ordered according to the codes of District and Council, which reflect the geographical proximity, then ordered according to the codes of Constituency, Division, Wards, and Village. An implicit stratification was also performed, ordering by Urban/Rural type at Ward level.

The second stage sampling selection was conducted by using a simple random sampling. In hamlets with more than 200 households, twelve (12) agricultural households were drawn from the PHC 2022 list with a simple random sampling without replacement procedure in each sampled hamlet. In hamlets with 200 households or less, twelve (12) agricultural households were selected with a simple random sampling without replacement procedure in each sampled hamlet after a listing operation. A total of 1,352 PSUs (EAs) were selected from the PHC 2022 Population and Housing Census (PHC) frame, of which 1,234 PSUs from Mainland Tanzania and 118 from Zanzibar. A total number of 16,224 agricultural households were sampled (14,808 households from Mainland Tanzania and 1,416 from Zanzibar), 12 per EA.

### 1.2.3 Survey Organization

The Annual Agricultural Sample Survey (AASS-2022/23) was a comprehensive effort to collect agricultural data across Tanzania. It comprised 44 teams, with 26 teams operating in Mainland Tanzania and 5 in Zanzibar. Additionally, 13 teams were dedicated to collecting data from non-household entities i.e., the large-scale farms. Each team, whether focused on households or non-households, included four enumerators, one team supervisor (usually a Regional Statistical Manager), and one driver.

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<sup>1</sup> Strata were determined by the following variables: the number of households growing crops, the number of households rearing livestock and the number of households practicing aquaculture as reported in the PHC-2022 frame.

The data collection process was dynamic, with teams travelling from one Enumeration Area to another to gather information. To maintain accuracy and consistency, Quality Control teams were deployed, each overseeing the data collection in two assigned regions. This ensured that the survey maintained high standards while capturing a comprehensive view of agricultural practices and trends across the country.

## Chapter 2: Agricultural Households and Holdings Characteristics

### 2.0 Introduction

This chapter provides information of the agricultural activities that performed by agricultural households including crop production, livestock keeping and aquaculture farming. The chapter further presents details on the land ownership as well as, the crop land use by agricultural households and large scale farms in short-rainy and long-rainy seasons during the 2022/23 agricultural year.

### 2.1 Households Engaged in Agriculture

Households engaged in agriculture refers to those households involved in crop production and/or rearing livestock during 2022/23 agricultural year, provided they meet the thresholds described in ‘*Definition of Key Terms*’.

The results show that, the total number of agricultural households in Tanzania was 8,970,096, of which 8,814,646 households were in Mainland Tanzania and 155,450 households in Zanzibar. Among the total agricultural households in Tanzania, 8,816,122 households (98.3 percent) were engaged in crop production, while 5,434,209 households (60.6 percent) were engaged in livestock rearing.

In Mainland Tanzania, 8,663,996 households (98.3 percent) were engaged in crop production whereas, 5,335,658 households (60.5 percent) were engaged in livestock rearing. Similarly, in Zanzibar, 152,126 households (97.9 percent) were engaged in crop production, while 98,550 households (63.4 percent) were engaged in livestock rearing (Table 2.1).

**Table 2.1: Number and Percentage of Agricultural Households by Activity During 2022/23 Agricultural Year, Tanzania**

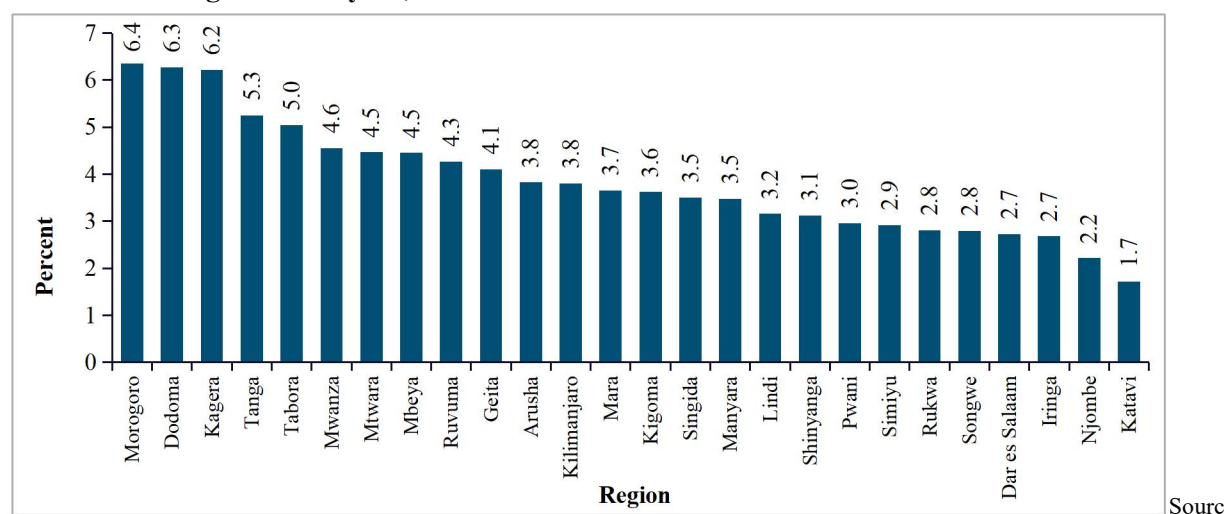
Coverage	Total Agricultural Households	Households Involved in Crop Production		Households Involved in Rearing Livestock	
		Number	Percent	Number	Percent
Mainland Tanzania	8,814,646	8,663,996	98.3	5,335,658	60.5
Zanzibar	155,450	152,126	97.9	98,550	63.4
<b>Tanzania</b>	<b>8,970,096</b>	<b>8,816,122</b>	<b>98.3</b>	<b>5,434,209</b>	<b>60.6</b>

Source: Annex Table (2-1) in Statistical Tables of AASS 2022/23



In Mainland Tanzania, results indicate that Morogoro region had the largest number of households engaged in agriculture (560,248; 6.4 percent), followed by Dodoma (553,124; 6.3 percent) and Kagera (548,229; 6.2 percent), while Katavi had the lowest number of households engaged in agriculture (150,583; 1.7 percent) (Figure 2.1).

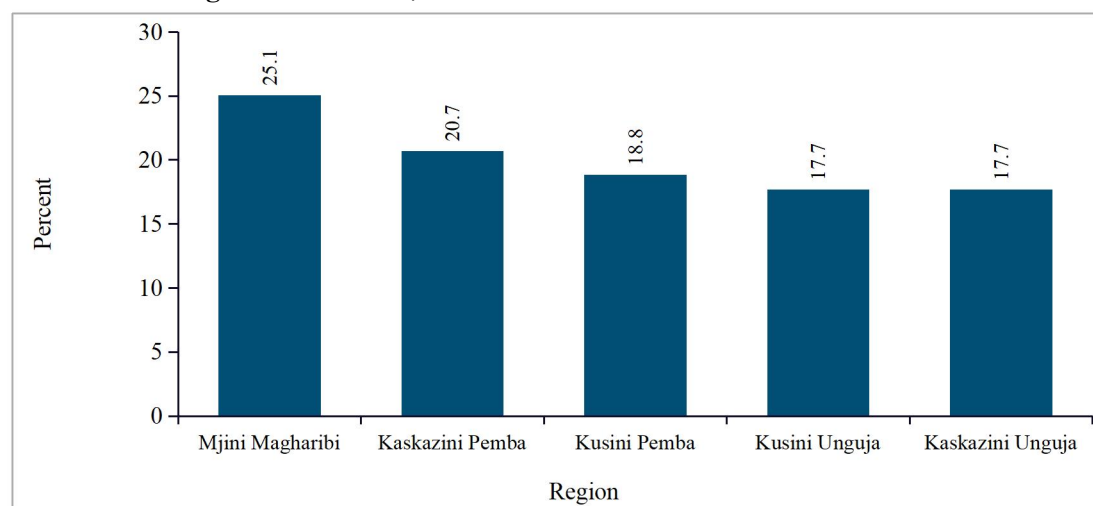
**Figure 2.1: Percentage Distribution of Agricultural Households by Region During 2022/23**  
Agricultural year, Mainland Tanzania



Source: Annex Table (2-1) in Statistical Tables of AASS 2022/23

In Zanzibar, Mjini Magharibi had the largest number of households engaged in agriculture (38,983; 25.1 percent), while Kaskazini Unguja had the lowest (27,489; 17.7 percent) (Figure 2.2).

**Figure 2.2: Percentage Distribution of Agricultural Households by Region During 2022/23**  
Agricultural Year, Zanzibar



## **2.2 Agricultural Households Engaged in Crop Production**

During short rainy season, a total of 5,272,358 agricultural households were engaged in crop production in Tanzania (5,132,624 households in Mainland Tanzania and 139,734 in Zanzibar). Among the regions in Mainland Tanzania, Kagera had the highest number (542,683 households; 10.6 percent) engaged in crop production, followed by Morogoro (432,760 households; 8.4 percent) and Mtwara (388,723 households; 7.6 percent). The lowest number was recorded in Singida (10,726 households; 0.2 percent). In Zanzibar, the highest number of households involved in crop production was in Mjini Magharibi (34,288; 24.5 percent), followed by Kusini Pemba (27,659; 19.8 percent), while Kaskazini Unguja region had the lowest (24,890 households; 17.8 percent).

In Tanzania, the total number of agricultural households engaged in crop production during long rainy season was 6,651,682 (6,506,085 households in Mainland Tanzania and 145,598 in Zanzibar). Out of the total households in Mainland Tanzania, Dodoma had the highest number (548,049 households; 8.4 percent) engaged in crop production followed by Kagera (509,650; 7.8 percent) and Tanga (409,526; 6.3 percent). The lowest number was recorded in Katavi region (14,209 households; 0.2 percent). In Zanzibar, the highest number of households involved in crop production was in Mjini Magharibi (34,976; 24.0 percent), followed by Kaskazini Pemba (31,476; 21.6 percent), while Kusini Unguja had the lowest (26,872; 17.7 percent) (Table 2.2).

**Table 2.2: Number and Percentage of Agricultural Households Engaged in Crop Production by Season and Region During 2022/23 Agricultural Year, Tanzania**

Region	Short Rainy Season		Long Rainy Season	
	Number	Percent	Number	Percent
Dodoma	15,027	0.3	548,049	8.4
Arusha	130,523	2.5	217,382	3.3
Kilimanjaro	276,494	5.4	315,174	4.8
Tanga	361,811	7.0	409,526	6.3
Morogoro	432,760	8.4	355,052	5.5
Pwani	199,521	3.9	200,036	3.1
Dar es Salaam	188,555	3.7	131,329	2.0
Lindi	102,376	2.0	276,926	4.3
Mtwara	388,723	7.6	192,799	3.0
Ruvuma	70,315	1.4	376,275	5.8
Iringa	91,315	1.8	170,404	2.6
Mbeya	157,170	3.1	334,012	5.1
Singida	10,726	0.2	306,946	4.7
Tabora	127,485	2.5	321,174	4.9
Rukwa	14,460	0.3	242,224	3.7
Kigoma	231,408	4.5	153,316	2.4
Shinyanga	61,366	1.2	256,640	3.9
Kagera	542,683	10.6	509,650	7.8
Mwanza	360,307	7.0	170,952	2.6
Mara	276,857	5.4	265,186	4.1
Manyara	229,585	4.5	117,814	1.8
Njombe	36,183	0.7	192,259	3.0
Katavi	149,060	2.9	14,209	0.2
Simiyu	250,702	4.9	57,947	0.9
Geita	341,002	6.6	157,608	2.4
Songwe	86,213	1.7	213,194	3.3
<b>Mainland Tanzania</b>	<b>5,132,624</b>	<b>100</b>	<b>6,506,085</b>	<b>100</b>
Kaskazini Unguja	24,890	17.8	24,065	16.5
Kusini Unguja	25,249	18.1	26,598	18.3
Mjini Magharibi	34,288	24.5	34,976	24.0
Kaskazini Pemba	27,648	19.8	31,476	21.6
Kusini Pemba	27,659	19.8	28,482	19.6
<b>Zanzibar</b>	<b>139,734</b>	<b>100</b>	<b>145,598</b>	<b>100</b>
<b>Tanzania</b>	<b>5,272,358</b>	<b>100</b>	<b>6,651,682</b>	<b>100</b>

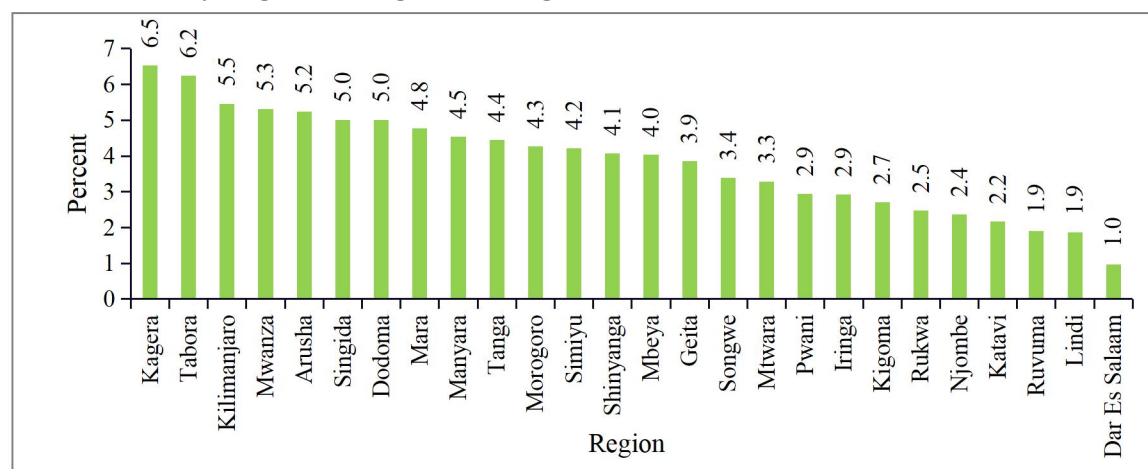
Source: Annex Table (2-1) in Statistical Tables of AASS 2022/23

### 2.3 Agricultural Households Engaged in Rearing Livestock

The results show that, a total of 5,432,209 households (60.6 percent of the total agricultural households), were involved in rearing livestock in Tanzania (5,335,658 households in Mainland

Tanzania and 98550 in Zanzibar). Among the regions in Mainland Tanzania, Kagera had the highest number of households (348,605 households; 6.5 percent) engaged in rearing livestock, followed by Tabora (333,336 households; 6.2 percent) and Kilimanjaro (290,907 households; 5.5 percent). The lowest number was recorded in Dar es Salaam (51,485 households; 1.0 percent) (Figure 2.3).

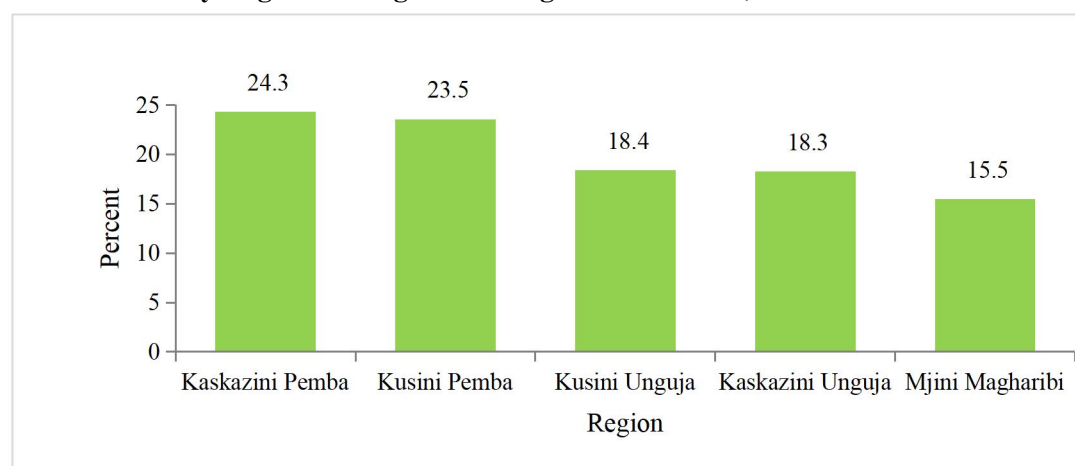
**Figure 2.3: Percentage Distribution of Agricultural Households engaged in Rearing Livestock by Region During 2022/23 Agricultural Year, Mainland Tanzania**



Source: Annex Table (2-1) in Statistical Tables of AASS 2022/23

In Zanzibar, the highest number of households involved in rearing livestock was in Kaskazini Pemba (23,960; 24.3 percent), followed by Kusini Pemba (23,208; 23.5 percent), while Mjini Magharibi region had the lowest (15,257 households; 15.5 percent) (Figure 2.4).

**Figure 2.4: Percentage Distribution of Agricultural Households engaged in Rearing Livestock by Region During 2022/23 Agricultural Year, Zanzibar**

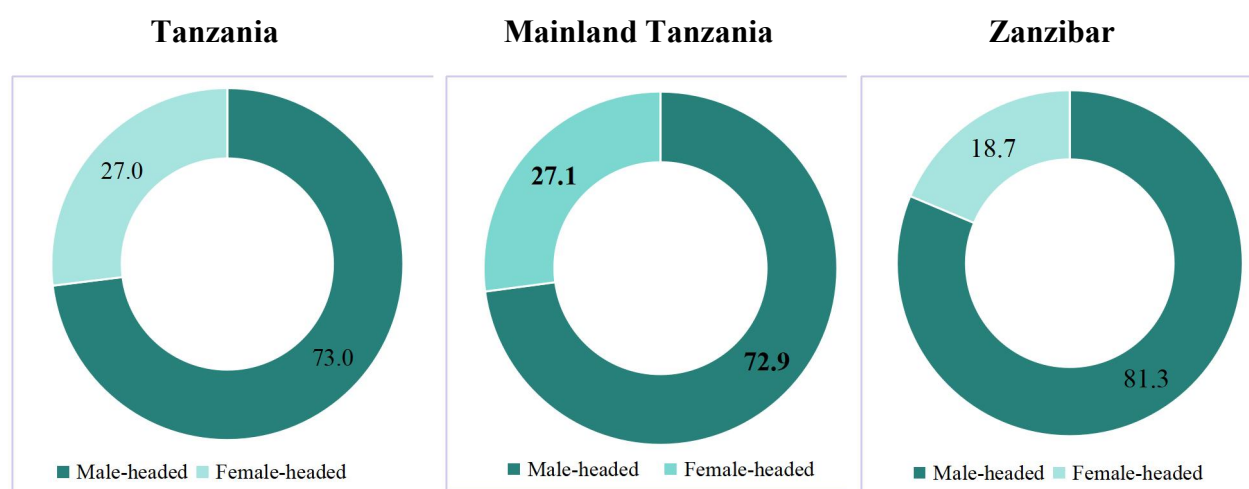


Source: Annex Table (2-1) in Statistical Tables of AASS 2022/23

## 2.4 Agricultural Households by Sex of Head of Household and Type of Agricultural Activities

The results show that, out of the total agricultural households in Tanzania, 6,552,624 households (73.0 percent) were headed by males and 2,417,472 (27.0 percent) by females. In Mainland Tanzania, 6,423,840 households (72.9 percent) were headed by males and 2,388,421 (27.1 percent) by females. Furthermore, in Zanzibar, more than three-quarter of the agricultural households were headed by males (Figure 2.5).

**Figure 2.5: Percentage Distribution of Agricultural Households by Sex of Household Head, During 2022/23 Agricultural Year, Tanzania**



Source: Annex Table (3-1) in Statistical Tables of AASS 2022/23

The results further show that, out of total agricultural households engaged in crop production in Tanzania, 98.5 percent were headed by males and 97.8 percent by females. In Mainland Tanzania, 98.5 percent of the households engaged in crop production were headed by males and 97.8 percent by females. Across regions, more than 90 percent of both males and females headed households were engaged in crop production except for Dar es Salaam and Arusha regions. In Zanzibar, 98.0 percent of the households were headed by males and 97.8 percent by females. Moreover, in all regions, there is a significant presence of crop production regardless of headship sex (Table 2.3).

**Table 2.3: Number and Percentage of Agriculture Households Engaged in Crop Production by Sex of Head During 2022/23 Agricultural Year, Tanzania**

Region	Total Agricultural Households by Sex-Headed			Number of Headed Households Engaged in Crop Production			Percent of Headed Households Engaged in Crop Production		
	Male-headed	Female-headed	Total	Male-headed	Female-headed	Total	Male-headed	Female-headed	Total
Dodoma	404,505	148,619	553,124	400,371	148,619	549,931	99.2	100.0	99.4
Arusha	213,194	123,861	337,055	187,091	98,625	285,716	87.8	79.6	84.8
Kilimanjaro	224,963	110,664	335,627	216,099	110,076	326,175	96.1	99.5	97.2
Tanga	341,187	121,736	462,923	338,206	120,768	458,973	99.1	99.2	99.1
Morogoro	411,396	148,852	560,248	408,001	147,616	555,617	99.2	99.2	99.2
Pwani	197,348	63,690	261,038	188,746	59,833	248,579	95.6	93.9	95.2
Dar es Salaam	161,400	79,281	240,681	143,593	71,066	214,659	89.0	89.6	89.2
Lindi	187,764	90,451	278,215	187,764	89,162	276,926	100.0	98.6	99.5
Mtwara	277,727	116,321	394,048	277,727	116,321	394,048	100.0	100.0	100.0
Ruvuma	281,973	94,303	376,275	281,973	94,303	376,275	100.0	100.0	100.0
Iringa	152,818	83,665	236,483	151,655	83,665	235,319	99.2	100.0	99.5
Mbeya	276,102	116,623	392,725	272,045	114,377	386,423	98.5	98.1	98.4
Singida	241,932	66,950	308,882	239,996	66,950	306,946	99.2	100.0	99.4
Tabora	342,464	101,885	444,349	339,957	101,885	441,841	99.3	100.0	99.4
Rukwa	193,806	53,843	247,649	192,667	53,843	247,649	100.0	100.0	100.0
Kigoma	227,605	91,546	319,151	227,605	91,546	319,151	100.0	100.0	100.0
Shinyanga	221,279	54,177	275,456	221,279	53,652	274,931	100.0	99.0	99.8
Kagera	404,075	144,154	548,229	404,075	144,154	548,229	100.0	100.0	100.0
Mwanza	297,575	104,003	401,578	295,217	102,415	397,632	99.2	98.5	99.0
Mara	227,839	94,625	322,464	223,849	92,818	316,667	98.2	98.1	98.2
Manyara	228,226	78,632	306,858	221,837	74,912	296,749	97.2	95.3	96.7
Njombe	133,614	61,532	195,146	131,459	61,532	192,992	98.4	100.0	98.9
Katavi	123,808	26,775	150,583	123,502	26,775	150,583	98.5	100.0	100.0
Simiyu	199,913	57,348	257,261	197,177	57,348	254,526	98.6	100.0	98.9
Geita	271,787	90,343	362,130	271,260	90,343	361,603	99.8	100.0	99.9
Songwe	181,923	64,545	246,468	181,923	63,934	245,857	100.0	99.1	99.8
<b>Mainland Tanzania</b>	<b>6,426,225</b>	<b>2,388,421</b>	<b>8,814,646</b>	<b>6,325,075</b>	<b>2,336,536</b>	<b>8,663,996</b>	<b>98.5</b>	<b>97.8</b>	<b>98.3</b>
Kaskazini Unguja	22,888	4,601	27,489	22,699	4,469	27,167	99.2	97.1	98.8
Kusini Unguja	22,443	5,063	27,506	21,809	5,017	26,872	97.2	99.1	97.7
Mjini Magharibi	32,200	6,783	38,983	30,901	6,362	37,264	96.0	93.8	95.6
Kaskazini Pemba	25,422	6,785	32,207	25,212	6,785	31,997	99.2	100.0	99.3
Kusini Pemba	23,447	5,818	29,265	23,309	5,516	28,825	99.4	94.8	98.5
<b>Zanzibar</b>	<b>126,399</b>	<b>29,051</b>	<b>155,450</b>	<b>123,930</b>	<b>28,150</b>	<b>152,126</b>	<b>98.0</b>	<b>96.9</b>	<b>97.9</b>
<b>Tanzania</b>	<b>6,552,624</b>	<b>2,417,472</b>	<b>8,970,096</b>	<b>6,449,005</b>	<b>2,364,686</b>	<b>8,816,122</b>	<b>98.5</b>	<b>97.8</b>	<b>98.3</b>

Source: Annex Tables (2-1 & 3-1) in Statistical Tables of AASS 2022/23

In the livestock subsector, the results show a different trend. In Mainland Tanzania 60.5 percent of agricultural households' rear livestock. Such percentage is higher among the male-headed households (62.9 percent) and lower among the female-headed households (54.3 percent). In Zanzibar, livestock rearing is relatively higher, with 64.7 percent of male-headed and 57.8 percent of female-headed agricultural households rearing livestock (Table 2.4).

**Table 2.4: Number and Percentage of Agriculture Households Engaged in Rearing Livestock, by Sex of Head During 2022/23 Agricultural Year, Tanzania**

Region	Total Agricultural Households			Number of Household Rearing Livestock			Percent of Household Rearing Livestock		
	Male Headed	Female Headed	All	Male Headed	Female Headed	All	Male Headed	Female Headed	All
Dodoma	404,505	148,619	553,124	204,991	61,739	266,731	50.7	41.5	48.2
Arusha	213,194	123,861	337,055	177,360	101,897	279,257	83.2	82.3	82.9
Kilimanjaro	224,963	110,664	335,627	193,845	97,061	290,907	86.2	87.7	86.7
Tanga	341,187	121,736	462,923	181,807	55,457	237,264	53.3	45.6	51.3
Morogoro	411,396	148,852	560,248	185,933	41,543	227,476	45.2	27.9	40.6
Pwani	197,348	63,690	261,038	122,183	34,408	156,591	61.9	54.0	60.0
Dar es Salaam	161,400	79,281	240,681	38,469	13,016	51,485	23.8	16.4	21.4
Lindi	187,764	90,451	278,215	66,020	33,620	99,640	35.2	37.2	35.8
Mtwara	277,727	116,321	394,048	127,119	48,589	175,707	45.8	41.8	44.6
Ruvuma	281,973	94,303	376,275	87,625	13,438	101,063	31.1	14.3	26.9
Iringa	152,818	83,665	236,483	102,711	53,429	156,140	67.2	63.9	66.0
Mbeya	276,102	116,623	392,725	160,149	55,532	215,681	58.0	47.6	54.9
Singida	241,932	66,950	308,882	209,907	57,525	267,432	86.8	85.9	86.6
Tabora	342,464	101,885	444,349	267,079	66,257	333,336	78.0	65.0	75.0
Rukwa	193,806	53,843	247,649	105,559	26,414	131,974	54.5	49.1	53.3
Kigoma	227,605	91,546	319,151	116,758	28,098	144,856	51.3	30.7	45.4
Shinyanga	221,279	54,177	275,456	173,515	44,184	217,699	78.4	81.6	79.0
Kagera	404,075	144,154	548,229	269,939	78,666	348,605	66.8	54.6	63.6
Mwanza	297,575	104,003	401,578	213,902	69,383	283,285	71.9	66.7	70.5
Mara	227,839	94,625	322,464	189,056	65,286	254,341	83.0	69.0	78.9
Manyara	228,226	78,632	306,858	179,003	62,854	241,857	78.4	79.9	78.8
Njombe	133,614	61,532	195,146	95,126	31,129	126,255	71.2	50.6	64.7
Katavi	123,808	26,775	150,583	99,335	16,665	115,999	80.2	62.2	77.0
Simiyu	199,913	57,348	257,261	174,878	50,536	225,414	87.5	88.1	87.6
Geita	271,787	90,343	362,130	157,916	47,743	205,658	58.1	52.8	56.8
Songwe	181,923	64,545	246,468	139,235	41,767	181,002	76.5	64.7	73.4
<b>Mainland Tanzania</b>	<b>6,426,225</b>	<b>2,388,421</b>	<b>8,814,646</b>	<b>4,039,423</b>	<b>1,296,235</b>	<b>5,335,658</b>	<b>62.9</b>	<b>54.3</b>	<b>60.5</b>
Kaskazini Unguja	22,888	4,601	27,489	15,442	2,571	18,013	67.5	55.9	65.5
Kusini Unguja	22,443	5,063	27,506	15,186	2,926	18,112	67.7	57.8	65.8
Mjini Magharibi	32,200	6,783	38,983	12,587	2,671	15,257	39.1	39.4	39.1
Kaskazini Pemba	25,422	6,785	32,207	19,469	4,490	23,960	76.6	66.2	74.4
Kusini Pemba	23,447	5,818	29,265	19,073	4,135	23,208	81.3	71.1	79.3
<b>Zanzibar</b>	<b>126,399</b>	<b>29,051</b>	<b>155,450</b>	<b>81,758</b>	<b>16,792</b>	<b>98,550</b>	<b>64.7</b>	<b>57.8</b>	<b>63.4</b>
<b>Tanzania</b>	<b>6,552,624</b>	<b>2,417,472</b>	<b>8,970,096</b>	<b>4,121,181</b>	<b>1,313,027</b>	<b>5,434,208</b>	<b>62.9</b>	<b>54.3</b>	<b>60.6</b>

Source: Annex Tables (3-1) in Statistical Tables of AASS 2022/23

Interestingly, aquaculture production shows a relatively low engagement across the country. In Mainland Tanzania, only 0.4 percent of agricultural households practiced aquaculture, with 0.5 percent of male-headed and 0.1 for female-headed households. In Zanzibar, the engagement is slightly higher, with 5.0 percent of male-headed and 6.4 percent of female-headed agricultural households engaged in aquaculture production. The notable lack of involvement for agricultural households in aquaculture suggests potential opportunities for development and diversification within the agricultural sector in both Mainland Tanzania and Zanzibar (Table 2.5).

**Table 2.5: Number and Percentage of Agriculture Households Engaged in Aquaculture Farming, by Sex of Head During 2022/23 Agricultural Year, Tanzania**

Region	Total Agricultural Households			Number of Aquaculture Households			Percent of Aquaculture Households		
	Male-headed	Female-headed	All	Male-headed	Female-headed	All	Male-headed	Female-headed	All
Dodoma	404,505	148,619	553,124	-	-	-	-	-	-
Arusha	213,194	123,861	337,055	564	-	564	0.3	-	0.2
Kilimanjaro	224,963	110,664	335,627	1,514	-	1,514	0.7	-	0.5
Tanga	341,187	121,736	462,923	2,556	-	2,556	0.7	-	0.6
Morogoro	411,396	148,852	560,248	463	-	463	0.1	-	0.1
Pwani	197,348	63,690	261,038	9,544	-	9,544	4.8	-	3.7
Dar es Salaam	161,400	79,281	240,681	3,514	-	3,514	2.2	-	1.5
Lindi	187,764	90,451	278,215	-	-	-	-	-	-
Mtwara	277,727	116,321	394,048	-	-	-	-	-	-
Ruvuma	281,973	94,303	376,275	1,945	1,170	3,114	0.7	1.2	0.8
Iringa	152,818	83,665	236,483	946	236	1,182	0.6	0.3	0.5
Mbeya	276,102	116,623	392,725	1,756	-	1,756	0.6	-	0.4
Singida	241,932	66,950	308,882	-	-	-	-	-	-
Tabora	342,464	101,885	444,349	2,269	-	2,269	0.7	-	0.5
Rukwa	193,806	53,843	247,649	806	-	806	0.4	-	0.3
Kigoma	227,605	91,546	319,151	-	-	-	-	-	-
Shinyanga	221,279	54,177	275,456	-	-	-	-	-	-
Kagera	404,075	144,154	548,229	1,790	-	1,790	0.4	-	0.3
Mwanza	297,575	104,003	401,578	669	-	669	0.2	-	0.2
Mara	227,839	94,625	322,464	361	-	361	0.2	-	0.1
Manyara	228,226	78,632	306,858	-	-	-	-	-	-
Njombe	133,614	61,532	195,146	-	-	-	-	-	-
Katavi	123,808	26,775	150,583	233	-	233	0.2	-	0.2
Simiyu	199,913	57,348	257,261	-	-	-	-	-	-
Geita	271,787	90,343	362,130	1,492	-	1,492	0.5	-	0.4
Songwe	181,923	64,545	246,468	3,310	465	3,775	1.8	0.7	1.5
<b>Mainland</b>	<b>6,426,225</b>	<b>2,388,421</b>	<b>8,814,646</b>	<b>33,730</b>	<b>1,871</b>	<b>35,600</b>	<b>0.5</b>	<b>0.1</b>	<b>0.4</b>
Kaskazini Unguja	22,888	4,601	27,489	423	196	620	1.8	4.3	2.3
Kusini Unguja	22,443	5,063	27,506	1,843	558	2,401	8.2	11.0	8.7
Mjini Magharibi	32,200	6,783	38,983	-	-	-	-	-	-
Kaskazini Pemba	25,422	6,785	32,207	3,684	1,099	4,783	14.5	16.2	14.9
Kusini Pemba	23,447	5,818	29,265	417	-	417	1.8	-	1.4
<b>Zanzibar</b>	<b>126,399</b>	<b>29,051</b>	<b>155,450</b>	<b>6,367</b>	<b>1,854</b>	<b>8,220</b>	<b>5.0</b>	<b>6.4</b>	<b>5.3</b>
<b>Tanzania</b>	<b>6,552,624</b>	<b>2,417,472</b>	<b>8,970,096</b>	<b>40,096</b>	<b>3,724</b>	<b>43,821</b>	<b>0.6</b>	<b>0.2</b>	<b>0.5</b>

Source: Annex Table (3-1) in Statistical Tables of AASS 2022/23

“- “Withheld to avoid disclosing data for individual holdings or insufficient data available from the survey (Total includes withheld data)

## 2.5 Land Ownership

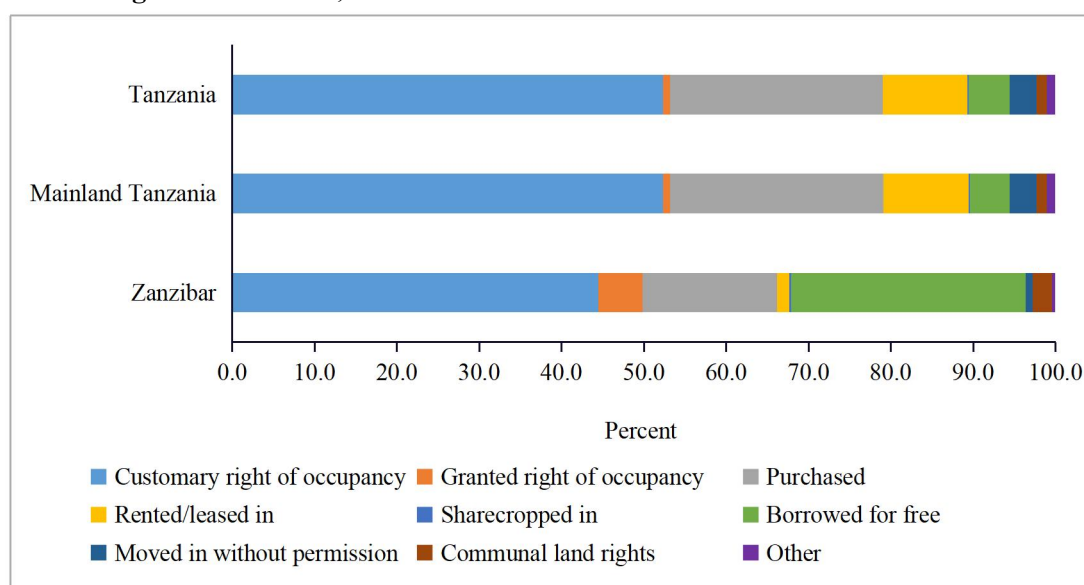
Land ownership for agricultural production was categorized as granted right of occupancy, customary right of occupancy, purchased, rented/leased in, borrowed, shared cropped,



communal land right, moved without permission and land under other forms of tenure. During 2022/23 agricultural year, the most common tenure rights on agricultural land among agricultural households was customary right of occupancy, accounted for 52.3 percent of the total land owned in Tanzania. Purchased land was the second type of land tenure with 25.9 percent while shared cropped in had the least 0.2 percent of the total land owned.

In Mainland Tanzania, the most common land tenure rights owned by agricultural household was customary right of occupancy (52.3 percent), followed by purchased (25.9 percent) and rented or leased in (10.3 percent) while the least was shared cropped in (0.2 percent). In Zanzibar, the most common land tenure rights owned by agricultural household was customary right of occupancy (44.4 percent), followed by borrowed for free (28.5 percent) and the least was land rights owned by shared cropped in (0.3 percent) (Figure 2.6).

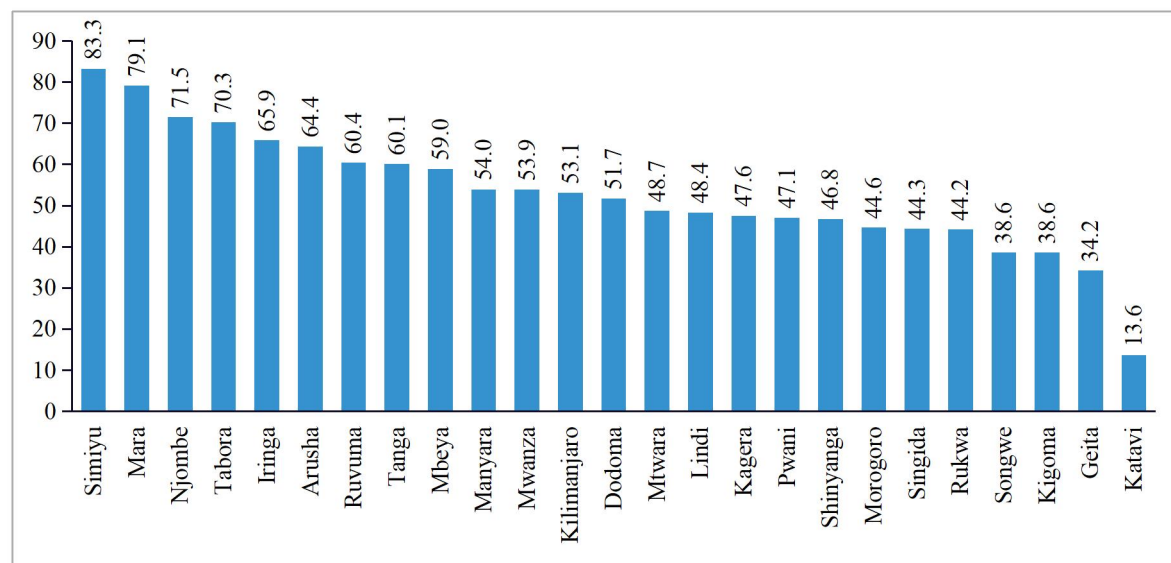
**Figure 2.6: Proportion of Land Ownership Status by Agricultural Households During 2022/23 Agricultural Year, Tanzania**



Source: Annex Table (3-6) in Statistical Tables of AASS 2022/23

Based on the proportion of customary land ownership by region in Mainland Tanzania, Simiyu region had the highest proportion at 83.3 percent followed by Mara (79.1 percent) and Njombe (71.5 percent). Other notable regions include Geita which had relatively low proportions (34.2 percent) and Kigoma and Songwe each with 38.6 percent. In contrast, Katavi had the lowest proportion of customary land ownership, with 13.6 percent (Figure 2.7).

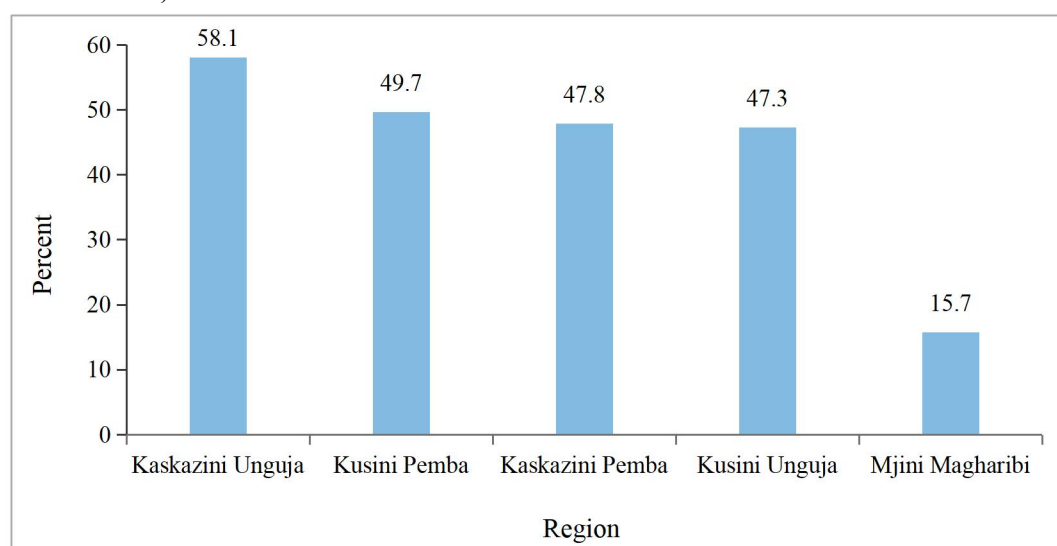
**Figure 2.7: Proportion of Customary Land Ownership by Region During 2022/23 Agricultural Year, Mainland Tanzania**



Source: Annex Table (3-6) in Statistical Tables of AASS 2022/23

In Zanzibar, Kaskazini Unguja region had the highest proportion (58.1 percent) followed by Kusini Pemba (49.7 percent) and Kaskazini Pemba (47.8 percent). On the contrary, Mjini Magharibi reported the lowest proportion of customary land ownership with 15.7 percent (Figure 2.8).

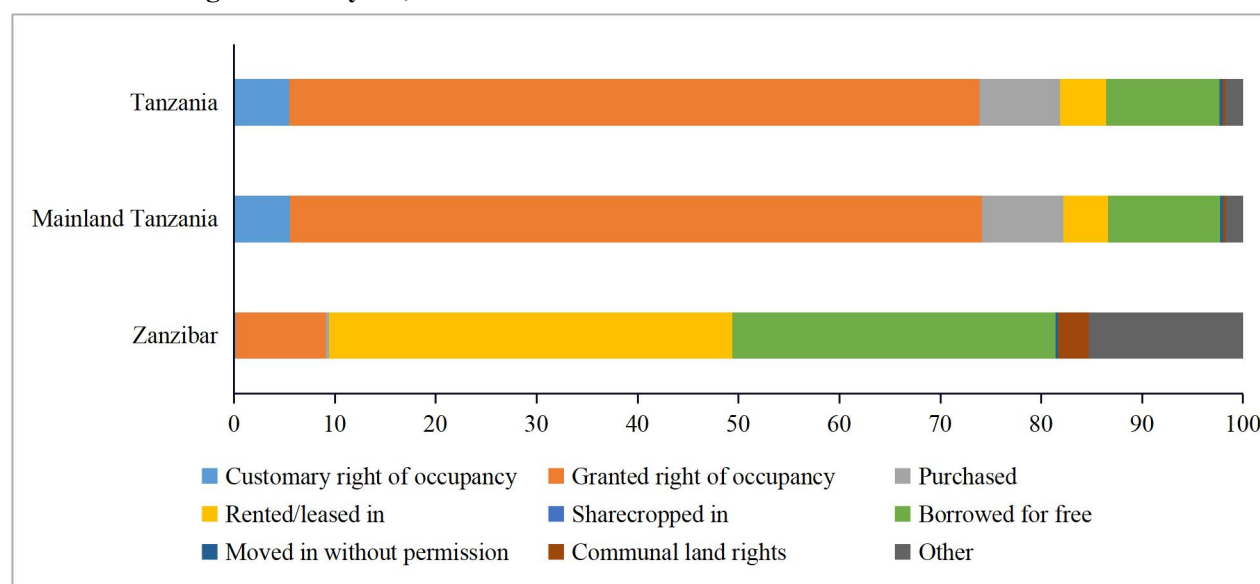
**Figure 2.8: Proportion of Customary Land Ownership by Region During 2022/23 Agricultural Year, Zanzibar**



Source: Annex Table (3-6) in Statistical Tables of AASS 2022/23

On the other hand, the most common tenure rights for large scale farms in Tanzania was granted rights of occupancy (68.4 percent). The leading type of land tenure in Mainland Tanzania was granted rights of occupancy (68.6 percent) whereas in Zanzibar was rented/leased in (40.0 percent) (Figure 2.9).

**Figure 2.9: Proportion of Land Ownership Status by Large Scale Farms During 2022/23 Agricultural year, Tanzania**



Source: Annex Table (3-6) in Statistical Tables of AASS 2022/23

## 2.6 Land Use

This section outlines land use patterns during both the short and long rainy seasons in Tanzania for the 2022/23 agricultural year. It presents detailed information for both agricultural households and large-scale farms, providing insights into various agricultural practices and their prevalence in different land use types. These types include temporary monocrops, temporary mixed crops, fallow land, permanent/temporary mixed crops, permanent monocrops, and permanent mixed crops.

### 2.6.1 Agricultural Household Land Use

Differences in land use practices were observed during both the short and long rainy seasons. The findings reveal that temporary monocropping was the most common land use practice among households. Specifically, 49.6 percent of households engaged in temporary monocropping during the short rainy season, covering an average area of 1.1 hectares per

household, and 63.1 percent during the long rainy season, with an estimated land area of 1.3 hectares per household.

Temporary mixed cropping was the second most common practice, adopted by 48.2 percent of crop-growing households with an average of 0.8 hectares per household in the short rainy season, and 38.9 percent (0.8 hectares per household) in the long rainy season. Additionally, some households left their land fallow, accounting for 15.6 percent in the short rainy season with an estimated land area of 1.8 hectares per household, and 13.5 percent in the long rainy season, covering an area of 1.6 hectares per household. In contrast, the findings indicate that fewer households practiced permanent monocropping compared to other farming practices in both the short and long rainy seasons.

**Table 2.6: Land Area by Use of Households for Short and Long-Rainy Seasons in Tanzania for 2022/23 Agricultural Year**

Land Use	Short Rainy Season				Long Rainy Season			
	Average Area (Ha)	Total Area (Ha)	Percent of crop growing Households	Crop growing Households	Average Area (Ha)	Total Area (Ha)	Percent of crop growing Households	Crop growing Households
Temporary Mono Cropping	1.1	3,286,446	49.6	2,951,057	1.3	6,053,900	63.1	4,591,840
Temporary Mixed Cropping	0.8	2,287,998	48.2	2,866,446	0.8	2,406,084	38.9	2,832,124
Fallow	1.8	1,708,224	15.6	929,205	1.6	1,540,904	13.5	983,292
Permanent /Temporary mix	0.9	1,106,992	21.1	1,254,573	0.9	956,280	14.2	1,035,401
Permanent Mono Cropping	1.1	703,383	10.4	617,548	1.1	721,967	8.9	644,621
Permanent Mixed Cropping	0.4	652,054	25.4	1,509,637	0.5	612,623	17.9	1,304,478

Source: Annex Table (3-4) in Statistical Tables of AASS 2022/23

## 2.6.2 Large Scale Farms Land Use

During the 2022/23 agricultural year, most of the large scale farms used their land area to cultivate either permanent mixed or temporary mono crops. Statistics depict that 59.9 percent of large scale farms were planted with permanent mono crops in the short rainy season, occupying an average land area of 418.8 ha per farm. The area under temporary mono crop was 122.9 ha per farm and was cultivated by 29.8 percent of the large scale farms. On the far end, temporary and permanent mixed cropping was less practiced, only 3.7 percent of the large scale farms reported practicing the same in an average land area of 196.3 ha per farm.

On the other hand, temporary mono-cropping was the most preferred farming practice during the long rainy season. The findings further show that, 59.7 percent of the large scale farms engaged in temporary mono-cropping, occupying an average land area of 78.8 ha per large scale farm. However, the percentage of farms that engaged in producing permanent mono-crops (44.0 percent), its average land area per farm (387.5 ha/farm) was larger as compared to those practiced temporary mono-crops. On the other hand, except for farms that practiced temporary mixed cropping, involvement in other land use types was minimal.

**Table 2.7: Large scale Farms Land Use in Short and Long Rainy Seasons During 2022/23 Agricultural Year, Tanzania**

Land Use	Short-Rainy Season				Long-Rainy Season			
	Average Area (Ha)	Total Area (Ha)	Percent of Large Scale Farms	Total Large Scale Farms	Average Area (Ha)	Total Area (Ha)	Percent of Large Scale Farms	Total Large Scale Farms
Area under Temporary Mono Crop	122.9	21,752	29.8	177	78.8	42,076	59.7	534
Area under Temporary Mixed Crops	20.7	1,344	11.0	65	10.9	1,552	16.0	143
Area under Fallow	163.6	15,541	16.0	95	236.4	16,310	7.7	69
Area under Permanent/Temporary mix	196.3	4,318	3.7	22	35.6	1,920	6.0	54
Area under Permanent Mono Crops	418.8	148,675	59.9	355	387.5	152,683	44.0	394
Area under Permanent Mixed Crops	89.3	3,752	7.1	42	25.7	1,978	8.6	77

Source: Annex Table (3-4) in Statistical Tables of AASS 2022/23

### 3.0 Introduction

The agriculture sector in Tanzania plays a critical role in the country's economy, with major crops such as maize, rice, coffee, tea, and cashew nuts being central to both domestic consumption and export. The diverse climatic conditions and fertile soils across various regions support the cultivation of these crops, leading to significant variations in production levels. This chapter, therefore, presents survey findings on crop productions for both annual crops and permanent or perennial crops. Findings on annual crop production are presented by considering different crop groups namely cereals, roots and tubers, pulses, oil seeds, fruits and vegetables. Apart from crop production, the chapter also provides the results on crop harvest use and areas affected by shocks on crops in agricultural households and large scale farms.

### 3.1 Cereals Production

Cereal crops are annual crops grown to produce grains which are mainly used as food and animal feeds. The major cereal crops produced in Tanzania are maize, paddy, sorghum, finger millet, bulrush millet, wheat and barley. However, this report specifically focuses on maize, paddy, sorghum, and bulrush millet.

The results show that, 8,610,868 ha of the selected cereal crops were planted across Tanzania, of which agricultural households accounted for 8,597,116 ha of the total planted area, while large scale farms contributed with 32,783 ha. Out of the area planted with cereals by agricultural households, 8,592,529 ha were in Mainland Tanzania and 18,339 ha in Zanzibar. Furthermore, out of the total planted area, 5,288,360 ha were harvested (5,274,293 ha in Mainland Tanzania and 14,067 ha in Zanzibar) (Table 3.1).

Among the selected cereals in Tanzania, maize occupied the largest planted area of 6,286,554 ha, followed by paddy (1,711,056 ha) and sorghum (554,107 ha), while bulrush millet had the smallest planted area (59,151 ha). However, out of the total area planted with cereals in Tanzania, 5,288,359 ha equivalent to 61.4 percent was harvested.

The total production of cereal crops in Tanzania was 9,732,315 tons, with agricultural households producing 9,700,564 tons and large scale farms contributing 66,504 tons. Maize had the largest production (6,972,306 tons), followed by paddy (2,444,147 tons). Bulrush millet had the smallest production, with 23,705 tons (Table 3.1).

**Table 3.1: Area Planted, Harvested, Production, Percent of Area Harvested of Selected Cereals Crops During 2022/23 Agricultural Year, Tanzania**

Holding Category	Crop	Planted (ha)	Area Harvested		Production (tons)	Yield (tons/ha)
			Area (ha)	Percent		
Tanzania						
Agricultural Households	Maize	6,267,523	3,839,722	61.3	6,937,553	1.8
	Paddy	1,698,612	1,088,283	64.1	2,413,234	2.2
	Sorghum	552,799	304,141	55	291,319	1
	Bulrush Millet	59,151	28,389	48	23,705	0.8
	Total	8,578,085	5,260,535	61.4	9,665,811	
Large Scale Farms	Maize	19,031	15,258	80.2	34,753	2.3
	Paddy	12,444	11,663	93.7	30,913	2.7
	Sorghum	1,308	905	69.2	838	0.9
	Bulrush Millet	-	-	-	-	-
	Total	32,783	27,826	84.9	66,504	
All Holdings	Maize	6,286,554	3,854,979	61.3	6,972,306	1.8
	Paddy	1,711,056	1,099,946	64.3	2,444,147	2.2
	Sorghum	554,107	305,046	55.1	292,157	1
	Bulrush Millet	59,151	28,389	48	23,705	0.8
	Total	8,610,868	5,288,359	61.4	9,732,315	
Mainland Tanzania						
Agricultural Households	Maize	6,265,418	3,838,229	61.3	6,936,109	1.8
	Paddy	1,682,941	1,076,063	63.9	2,403,783	2.2
	Sorghum	552,476	303,955	55	291,146	0.9
	Bulrush Millet	59,034	28,335	48	23,619	0.8
	Total	8,559,866	5,246,582	61.3	9,654,657	
Large Scale Farms	Maize	19,020	15,252	80.2	34,750	2.3
	Paddy	12,348	11,572	93.7	30,878	2.7
	Sorghum	1,292	888	68.7	837	0.9
	Bulrush Millet	-	-	-	-	-
	Total	32,660	27,712	84.8	66,465	
All Holdings	Maize	6,284,438	3,853,480	61.3	6,970,859	1.8
	Paddy	1,695,289	1,087,635	64.2	2,434,662	2.2
	Sorghum	553,768	304,843	55	291,983	1
	Bulrush Millet	59,034	28,335	48	23,619	0.8
	Total	8,592,529	5,274,293	61.4	9,721,123	
Zanzibar						
Agricultural Households	Maize	2,105	1,493	70.9	1,444	1
	Paddy	15,670	12,220	78	9,451	0.8
	Sorghum	323	186	57.6	173	0.9
	Bulrush Millet	117	54	46.2	86	1.6
	Total	18,215	13,953	76.6	11,154	
Large Scale Farms	Maize	11	6	54.5	3	0.5
	Paddy	96	91	94.8	34	0.4
	Sorghum	-	-	-	-	-
	Bulrush Millet	-	-	-	-	-
	Total	123	97	17.9	37	
All Holdings	Maize	2,116	1,499	70.8	1,447	1
	Paddy	15,767	12,311	78.1	9,486	0.8
	Sorghum	339	203	59.9	174	0.9
	Bulrush Millet	117	54	46.2	86	1.6
	Total	18,339	14,067	76.7	11,193	

Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

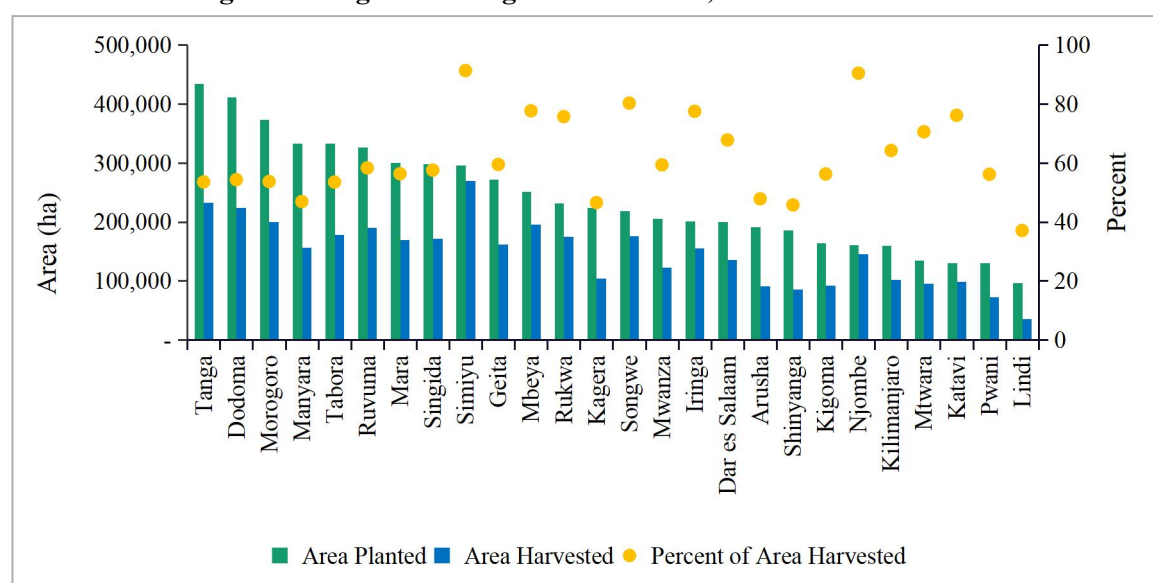
“-” Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

### 3.1.1 Maize

The results show that, maize remains the dominant cereal crop planted in Tanzania. A total of 7,404,262 households were engaged in growing maize in Tanzania during 2022/23 agricultural year (7,391,546 households were in Mainland Tanzania and 12,716 in Zanzibar). The total area planted with maize in Tanzania was 6,286,554 ha, of which 6,267,523 ha were planted by agricultural households and 19,031 ha by large scale farms. Moreover, a total of 3,854,979 ha equivalent to 61.3 percent were harvested (Table 3.1).

In Mainland Tanzania, a total of 3,838,229 ha (61.3 percent) were harvested by agricultural households. Out of the area planted with maize, Simiyu region reported the highest percent (91.3) of area harvested within region, followed by Njombe (90.4 percent), while Lindi reported the lowest (37.1 percent) (Figure 3.1)

**Figure 3.1: Area Planted, Area Harvested and Percentage of Area Harvested with Maize by Region During 2022/23 Agricultural Year, Mainland Tanzania**

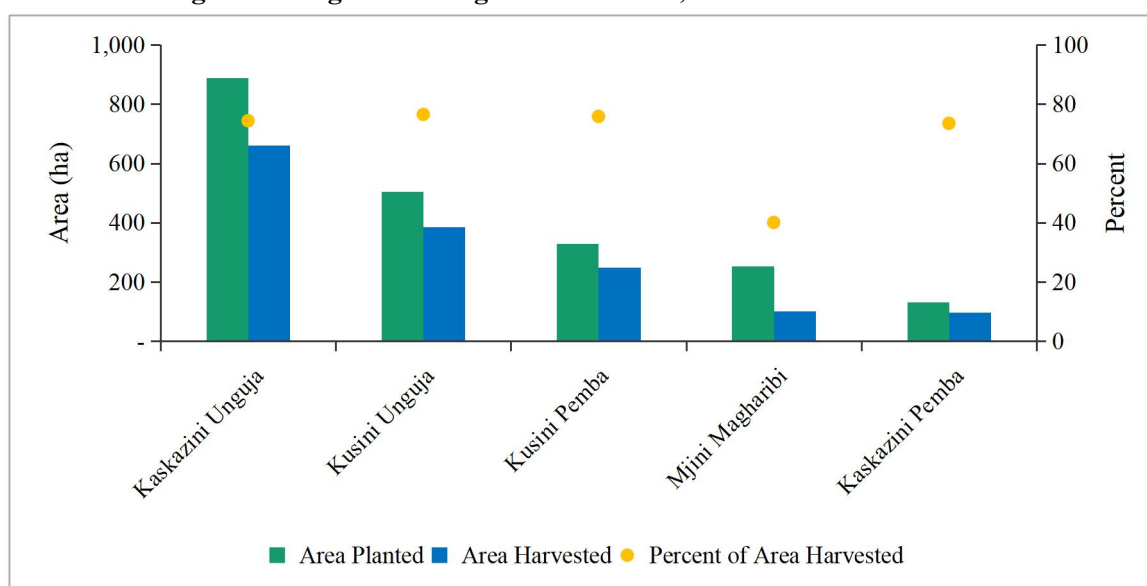


Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

In Zanzibar, 1,493 ha (70.9 percent) were harvested by agricultural households. All regions harvested over 70.0 percent of the planted area except for Mjini Magharibi (40.0 percent) (Figure 3.2).



**Figure 3.2: Area Planted, Area Harvested and Percentage of Area Harvested with Maize by Region During 2022/23 Agricultural Year, Zanzibar**

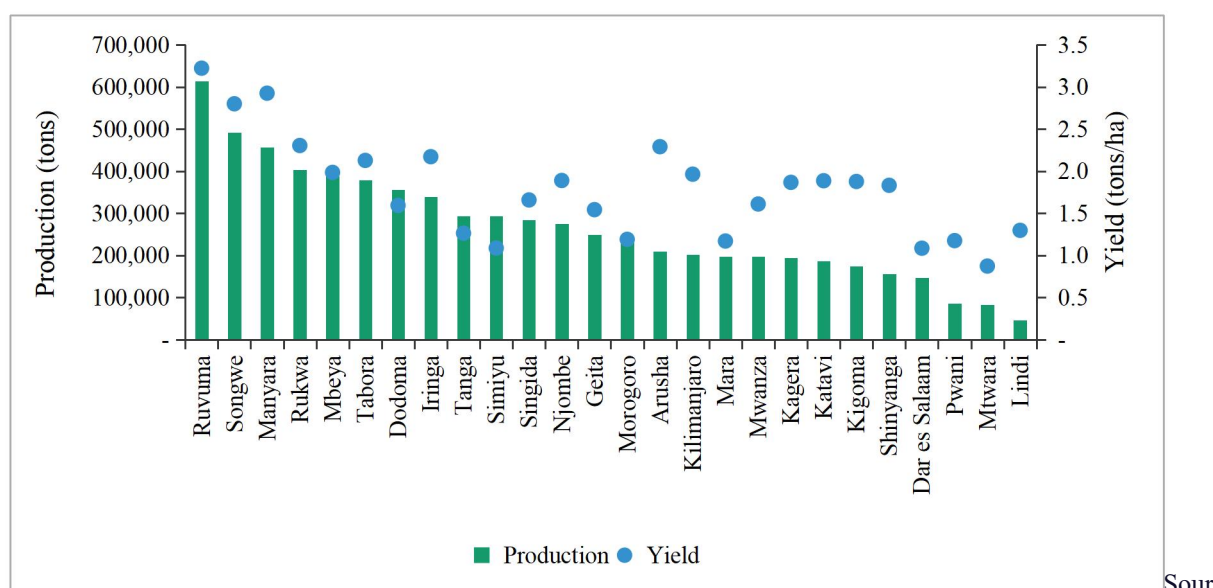


Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

The total production of maize in Tanzania was 6,972,306 tons of which 6,937,553 tons were from agricultural households and 34,753 tons from large scale farms. Out of the total production by agricultural households, 6,936,109 tons were in Mainland Tanzania and 1,444 tons in Zanzibar (Table 3.1). Ruvuma region had the largest production (614,150 tons), followed by Songwe (491,561 tons) and Manyara (456,660 tons). The lowest production was reported in Lindi region (46,341 tons). In Zanzibar, Kaskazini Unguja reported the largest production of maize (469 tons), followed by Kusini Unguja (438 tons), while Kaskazini Pemba reported the lowest (131 tons) (Figure 3.3 & 3.4).

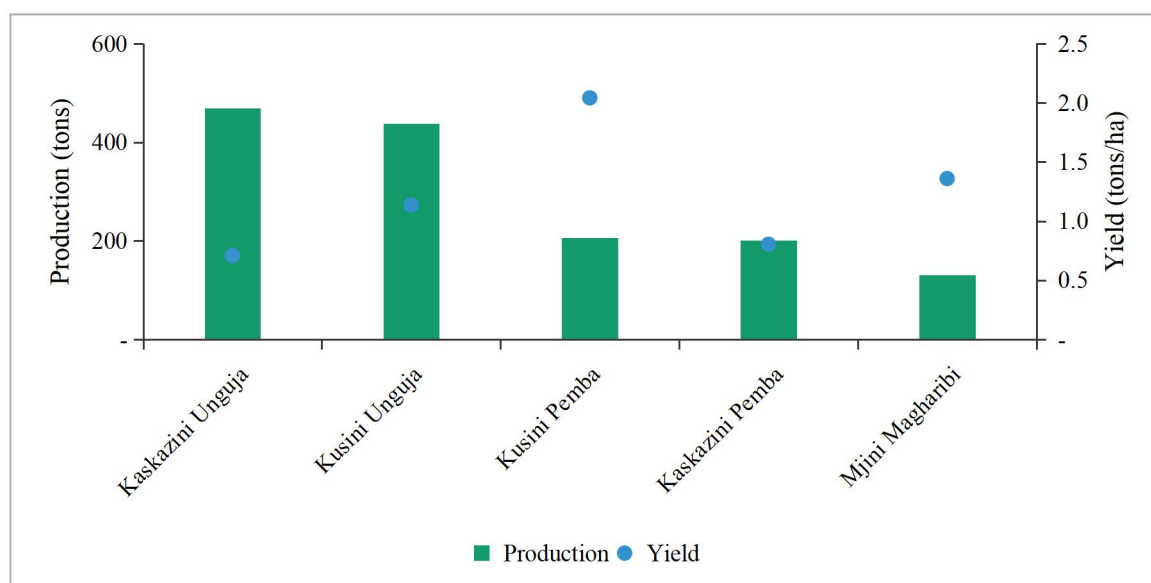
The average national yield of maize was 1.8 tons/ha whereby Mainland Tanzania had 1.8 tons/ha and 1.0 tons/ha in Zanzibar. In Mainland Tanzania, Ruvuma region reported the highest yield of 3.2 tons/ha while Mtwara was the only region with less than one percent. In Zanzibar, Mjini Magharibi reported the highest yield of 2.0 tons/ha and the least yield was reported in Kaskazini Unguja (0.7 tons/ha) (Figure 3.3 & 3.4).

**Figure 3.3: Production and Yield of Maize by Region During 2022/23 Agricultural Year, Mainland Tanzania**



ce: Annex Table (5-1) in Statistical Tables of AASS 2022/23

**Figure 3.4: Production and Yield of Maize by Region, During 2022/23 Agricultural Year, Zanzibar**



Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

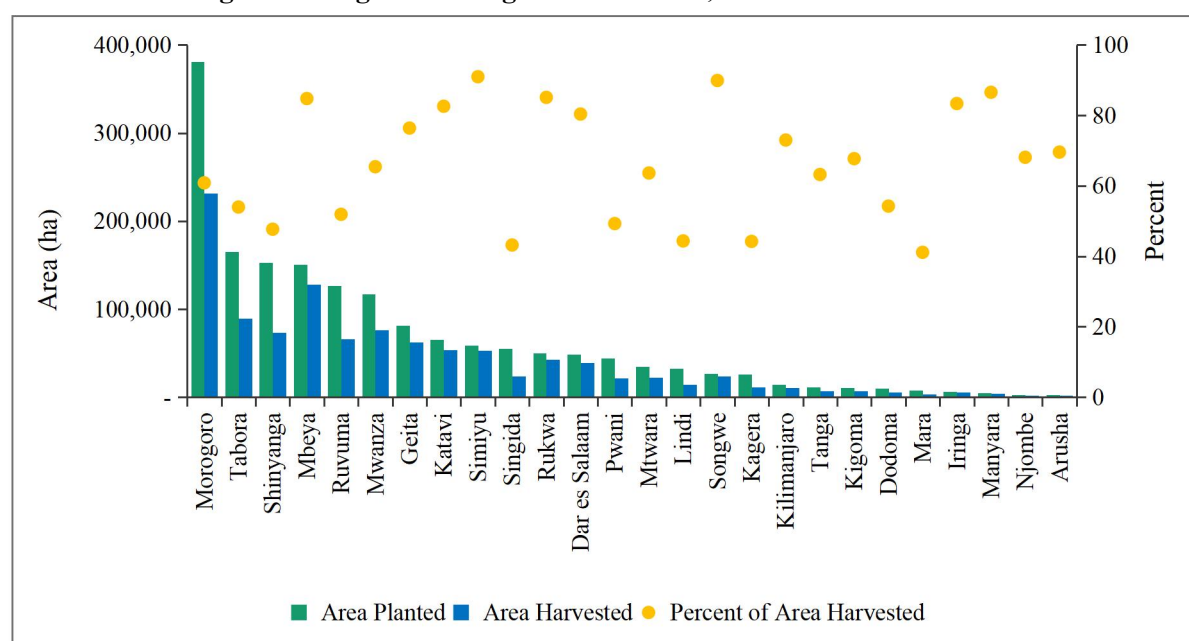
### 3.1.2 Paddy

Paddy is among the major staple food in Tanzania. The results show that, 1,813,705 households were engaged in growing paddy in Tanzania during 2022/23 agricultural year. Among those, 1,770,996 households were in Mainland Tanzania and 42,708 in Zanzibar. The total area planted with paddy in Tanzania was 1,711,056 ha, of which 1,698,612 ha were

planted by agricultural households and 12,444 ha by large scale farms. Out of the total area planted by agricultural households, 1,682,941 ha were in Mainland Tanzania and 15,670 ha in Zanzibar. Moreover, a total of 1,099,946 ha equivalent to 64.3 percent were harvested (Table 3.1).

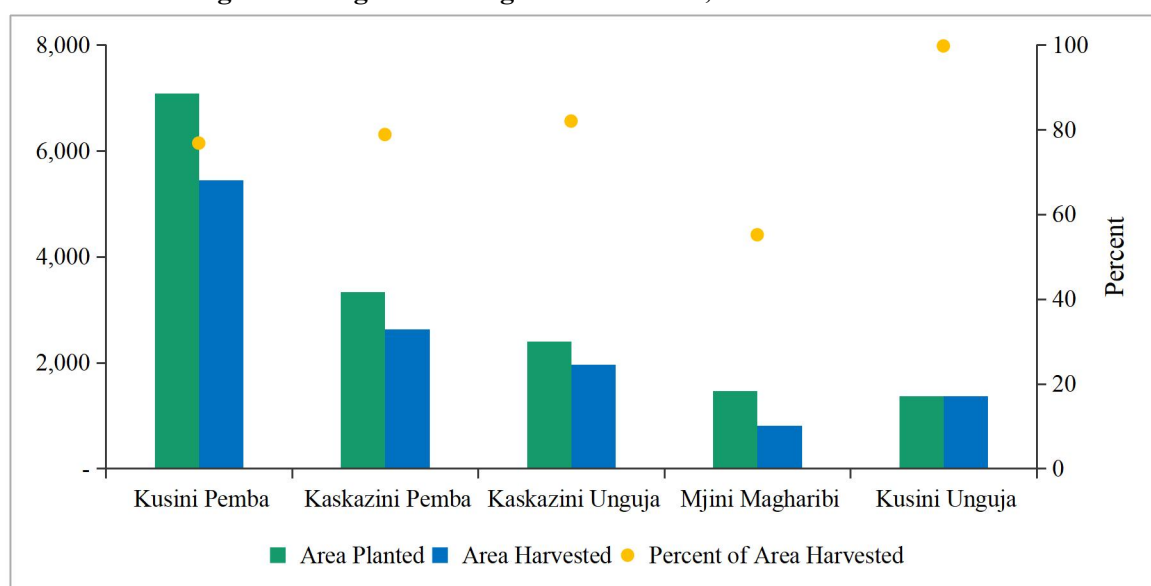
In Mainland Tanzania, a total of 1,076,063 ha (63.9 percent) were harvested by agricultural households with all regions harvesting more than 40 percent of area planted. In Zanzibar, 12,220 ha (78.0 percent) of the area planted with paddy was harvested. All regions harvested over 70.0 percent of the planted area except for Mjini Magharibi (55.2 percent) (Table 3.1 & Figure 3.5 & 3.6).

**Figure 3.5: Area Planted, Area Harvested and Percentage of Area Harvested with Paddy by Region During 2022/23 Agricultural Year, Mainland Tanzania**



Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

**Figure 3.6: Area Planted, Area Harvested and Percentage of Area Harvested with Paddy by Region During 2022/23 Agricultural Year, Zanzibar**

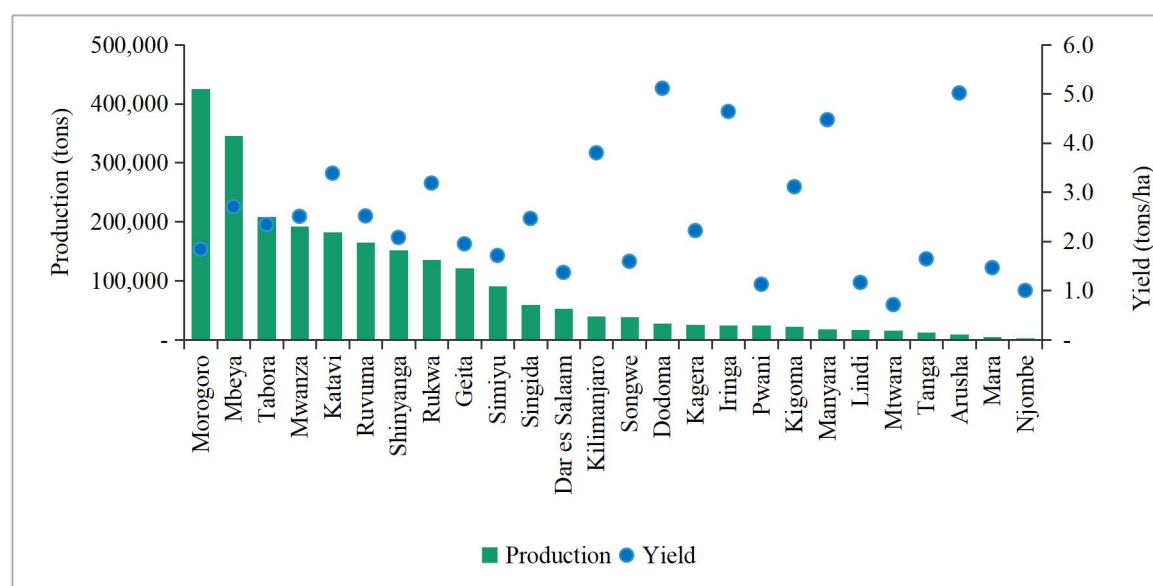


Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

The total production of paddy in Tanzania was 2,444,147 tons of which 2,413,234 tons were from agricultural households and 30,913 tons from large scale farms. Out of the total quantity produced by agricultural households, 2,403,783 tons were from Mainland Tanzania and 9,451 tons in Zanzibar. Morogoro region had the largest production (425,709 tons), followed by Mbeya (345,240 tons) and Tabora (208,292 tons). The lowest production was reported in Njombe region (1,787 tons). In Zanzibar, Kusini Pemba region had the largest production of paddy (3,257 tons), followed by Kusini Unguja (2,060 tons). Mjini Magharibi reported the lowest production of paddy (542 tons) (Figure 3.7 & 3.8).

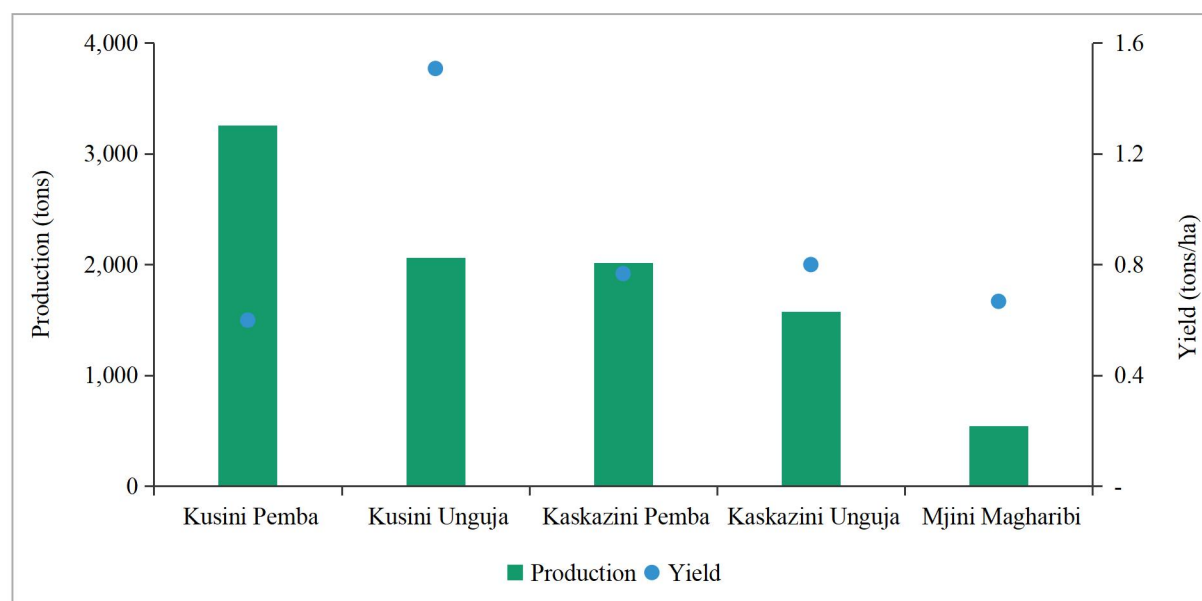
The average national yield of paddy was 2.2 tons/ha, whereby Mainland Tanzania had 2.2 tons/ha and 0.6 tons/ha in Zanzibar. In Mainland Tanzania, Manyara region reported the highest yield of 4.5 tons/ha while Mtwara region reported the least yield of 0.7 tons/ha. In Zanzibar, Kusini Unguja reported the highest yield of 1.5 tons/ha and the lowest yield was reported in Kusini Pemba (0.6 tons/ha) (Figure 3.7 & 3.8).

**Figure 3.7: Production and Yield of Paddy During the 2022/23 Agricultural Year, Mainland Tanzania**



Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

**Figure 3.8: Production and Yield of Paddy by Region During 2022/23 Agricultural Year, Zanzibar**



Source: Table (5-1) in Statistical Tables of AASS 2022/23

### 3.1.3 Sorghum

The results reveal that, 670,746 households were engaged in growing sorghum in Tanzania. Out of the total households growing sorghum, 668,716 households were in Mainland Tanzania and 2,031 in Zanzibar. A total area of 554,107 ha was planted with sorghum in Tanzania, of which 552,799 ha was occupied by agricultural households and 1,308 ha by large scale farms. Out of the total area planted by agricultural households in Tanzania, 552,476 ha were in Mainland Tanzania and 323 ha in Zanzibar. In addition, 55.1 percent of the area planted with sorghum in Tanzania was harvested (Table 3.1).

In Mainland Tanzania, a total of 303,955 ha (55.0 percent) was harvested by agricultural households. Simiyu region harvested 94.4 percent of the area planted with sorghum, Mbeya 90.9 percent, while Pwani harvested 25.9 percent. In Zanzibar, 186 ha (57.7 percent) was harvested. Kaskazini Pemba harvested 65.4 percent of the planted area, while Kaskazini Unguja harvested 48.8 percent (Table 3.2).

The total sorghum production in Tanzania was 292,157 tons, of which 291,319 tons were from agricultural households and 838 tons from large scale farms. Out of the total quantity produced by agricultural households, 291,146 tons were in Mainland Tanzania and 173 tons in Zanzibar. In Mainland Tanzania, Dodoma region harvested 77,705 tons, followed by Singida (47,580 tons) and Songwe (34,799 tons), while Pwani region harvested 878 tons. In Zanzibar, Kaskazini Pemba reported 114 tons of sorghum and Kaskazini Unguja reported 59 tons of sorghum.

Moreover, results show that, the average yield of sorghum in Tanzania was 1.0 tons/ha. In the Mainland Tanzania, average yield was equally the same as national average and in Zanzibar it averaged to 0.9 tons/ha. In Mainland Tanzania, Ruvuma region reported an average yield of 1.8 tons/ha and Rukwa 1.5 tons/ha, while Mtwara had 0.4 tons/ha. In Zanzibar, Kaskazini Pemba reported the yield of 1.0 tons/ha while Kusini Unguja reported a yield of 0.8 tons/ha.

**Table 3.2: Area Planted, Area Harvested, Production and Yield of Sorghum by Agricultural Households and Large Scale Farms During 2022/23 Agricultural Year, Tanzania**

Holding Category	Region	Area Planted (Ha)	Area Harvested		Production (Tons)	Yield (tons/ha)
			Area (Ha)	Percent		
Agricultural Households	Dodoma	213,533	103,873	48.6	77,705	0.7
	Arusha	1,394	1,242	89.1	914	0.7
	Kilimanjaro	2,222	911	41.0	548	0.6
	Tanga	-	-	-	-	-
	Morogoro	15,983	12,768	79.9	8,751	0.7
	Pwani	3,390	878	25.9	488	0.6
	Dar es Salaam	-	-	-	-	-
	Lindi	33,187	10,028	30.2	11,678	1.2
	Mtwara	6,737	4,397	65.3	1,915	0.4
	Ruvuma	27,260	16,236	59.6	29,781	1.8
	Iringa	3,506	2,312	65.9	2,315	1.0
	Mbeya	6,653	6,048	90.9	5,651	0.9
	Singida	78,227	36,586	46.8	47,580	1.3
	Tabora	8,698	3,678	42.3	5,087	1.4
	Rukwa	3,951	3,404	86.1	5,229	1.5
	Kigoma	1,600	1,036	64.7	1,097	1.1
	Shinyanga	25,465	12,618	49.6	12,939	1.0
	Kagera	5,267	1,424	27.0	1,738	1.2
	Mwanza	11,088	6,840	61.7	4,997	0.7
	Mara	24,433	16,245	66.5	12,139	0.7
	Manyara	8,669	4,501	51.9	6,087	1.4
	Njombe	-	-	-	-	-
	Katavi	-	-	-	-	-
	Simiyu	22,261	21,021	94.4	14,369	0.7
	Geita	6,381	4,726	74.1	4,219	0.9
	Songwe	41,842	32,622	78.0	34,799	1.1
	<b>Mainland Tanzania</b>	<b>552,476</b>	<b>303,955</b>	<b>55.0</b>	<b>291,146</b>	<b>1.0</b>
	Kaskazini Unguja	149	72	48.8	59	0.8
	Kusini Unguja	-	-	-	-	-
	Mjini Magharibi	-	-	-	-	-

	Kaskazini Pemba	174	114	65.4	115	1.0
	Kusini Pemba	-	-		-	-
	<b>Zanzibar</b>	<b>323</b>	<b>186</b>	<b>57.7</b>	<b>173</b>	<b>0.9</b>
	<b>Tanzania</b>	<b>552,799</b>	<b>304,141</b>	<b>55.0</b>	<b>291,319</b>	<b>1.0</b>
<b>Large Scale Farms</b>	Mainland Tanzania	1,292	888	68.8	837	0.9
	Zanzibar	-	-		-	-
	Tanzania	1,308	905	69.1	838	0.9
	<b>Mainland Tanzania</b>	<b>553,768</b>	<b>304,843</b>	<b>55.0</b>	<b>291,983</b>	<b>1.0</b>
<b>All Holdings</b>	<b>Zanzibar</b>	<b>339</b>	<b>203</b>	<b>59.8</b>	<b>174</b>	<b>0.9</b>
	<b>Tanzania</b>	<b>554,107</b>	<b>305,046</b>	<b>55.1</b>	<b>292,157</b>	<b>1.0</b>

Source: Table (5-1) in Statistical Tables of AASS 2022/23

“-” Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)



### 3.1.4 Bulrush Millet

During the 2022/23 agricultural year, bulrush millet was grown by agricultural households only. The results show that, a total of 82,589 households engaged in growing bulrush millet during the 2022/23 agricultural year, of which 82,041 households were in Mainland Tanzania and 548 in Zanzibar. Bulrush millet was planted in an area of 59,151 ha, of which 59,034 ha were in Mainland Tanzania and 117 ha in Zanzibar. The harvested area for bulrush millet was 28,389 ha, out of which 28,335 ha were in Mainland Tanzania and 54 ha in Zanzibar. Additionally, 23,705 tons of bulrush millet were produced, of which 23,619 tons were in Mainland Tanzania and 86 tons in Zanzibar. On the other hand, the national average yield of bulrush millet was 0.8 tons/ha, in Mainland Tanzania was 0.8 tons/ha and 1.6 tons/ha in Zanzibar.

**Table 3.3: Area Planted, Area Harvested, Production and Yield of Bulrush Millet During 2022/23 Agricultural Year, Tanzania**

Area	Area Planted (ha)	Harvested Area (ha)	Percent of Area Harvested	Production (tons)	Yield (tons/ha)
<b>Tanzania</b>	59,151	28,389	48.0	23,705	0.8
<b>Mainland Tanzania</b>	59,034	28,335	48.0	23,619	0.8
<b>Zanzibar</b>	117	54	45.9	86	1.6

### 3.2 Roots and Tuber Production

The main roots and tuber crops grown in Tanzania by agricultural households and large-scale farms are cassava, sweet potatoes, irish potatoes, yams and cocoyams. This report focuses on cassava, sweet potatoes, irish potatoes, and cocoyams. In the 2022/23 agricultural year, a total of 1,165,332 ha was planted with roots and tubers, of which agricultural households occupied 1,164,700 ha and 631 ha occupied by large scale farms. From the area planted by agricultural households, 1,115,946 ha were in Mainland Tanzania and 48,754 ha in Zanzibar.

Out of the total area planted with roots and tuber, 566,315 ha (48.6 percent) were harvested. Agricultural households harvested a total of 565,907 ha while large scale farms harvested 407 ha. Confining the analysis to the area harvested by agricultural households, 536,503 ha were in Mainland Tanzania and 29,406 ha in Zanzibar. A total of 1,676,323 tons of roots and tubers were produced; of which, agricultural households accounted for 1,674,597 tons of the overall production, while 1,724 tons were produced by large scale farms. Of the total root and tubers produced by agricultural households, 1,591,572 tons were in Mainland Tanzania and 83,025 tons in Zanzibar (Table 3.4).

**Table 3.4: Area Planted, Area Harvested, Production, Yield and Percentage of Roots and Tubers During 2022/23 Agricultural Year, Tanzania**

Holding Category	Crop	Area Planted (ha)	Area Harvested		Production (Tons)	Yield (tons/ha)
			Area (ha)	Percent		
Tanzania						
Agricultural Households	Cassava	779,474	298,128	38.2	696,447	2.3
	Sweet potatoes	202,551	149,189	73.7	423,221	2.8
	Irish potatoes	153,185	108,293	70.7	529,295	4.9
	Cocoyams	29,490	10,297	34.9	25,634	2.5
	Total	1,164,700	565,907	48.6	1,674,597	
Large Scale Farms	Cassava	322	153	47.5	242	1.6
	Sweet potatoes	217	162	74.7	521	3.2
	Irish potatoes	92	92	100	961	10.5
	Cocoyams	-	-	-	-	-
	Total	631	407	64.5	1,724	
All Holdings	Cassava	779,796	298,281	38.3	696,689	2.3
	Sweet potatoes	202,768	149,352	73.7	423,742	2.8
	Irish potatoes	153,276	108,385	70.7	530,257	4.9
	Cocoyams	29,491	10,298	34.9	25,635	2.5
	Total	1,165,332	566,316	48.6	1,676,323	
Mainland Tanzania						
Agricultural Households	Cassava	738,167	273,657	37.1	631,763	2.3
	Sweet potatoes	196,336	144,501	73.6	407,442	2.8
	Irish potatoes	153,185	108,293	70.7	529,295	4.9
	Cocoyams	28,258	10,052	35.6	25,372	2.5
	Total	1,115,946	536,503	48.1	1,591,572	
Large Scale Farms	Cassava	297	149	50.2	239	1.6
	Sweet potatoes	135	101	74.8	346	3.4
	Irish potatoes	92	92	100	961	10.5
	Cocoyams	-	-	-	-	-
	Total	524	342	65.4	1,546	
All Holdings	Cassava	738,464	273,806	37.1	629,702	2.3
	Sweet potatoes	196,470	144,601	73.6	407,788	2.8
	Irish potatoes	153,276	108,385	70.7	530,257	4.9
	Cocoyams	28,259	10,052	35.6	25,372	2.5
	Total	1,116,469	536,844	48.1	1,593,119	
Zanzibar						
Agricultural Households	Cassava	41,307	24,471	59.2	66,985	2.7
	Sweet potatoes	6,215	4,689	75.4	15,778	3.4
	Irish potatoes	-	-	-	-	-
	Cocoyams	-	-	-	-	-
	Total	47,522	29,160	61.4	82,763	
Large Scale Farms	Cassava	25	4	16	3	0.8
	Sweet potatoes	83	62	74.7	176	2.9
	Irish potatoes	-	-	-	-	-
	Cocoyams	-	-	-	-	-
	Total	108	66	60.2	179	
All Holdings	Cassava	41,332	24,475	59.2	66,988	2.7
	Sweet potatoes	6,298	4,750	75.4	15,954	3.4
	Irish potatoes	-	-	-	-	-
	Cocoyams	29,491	10,298	34.9	25,635	2.5
	Total	77,121	39,523	51.2	108,577	

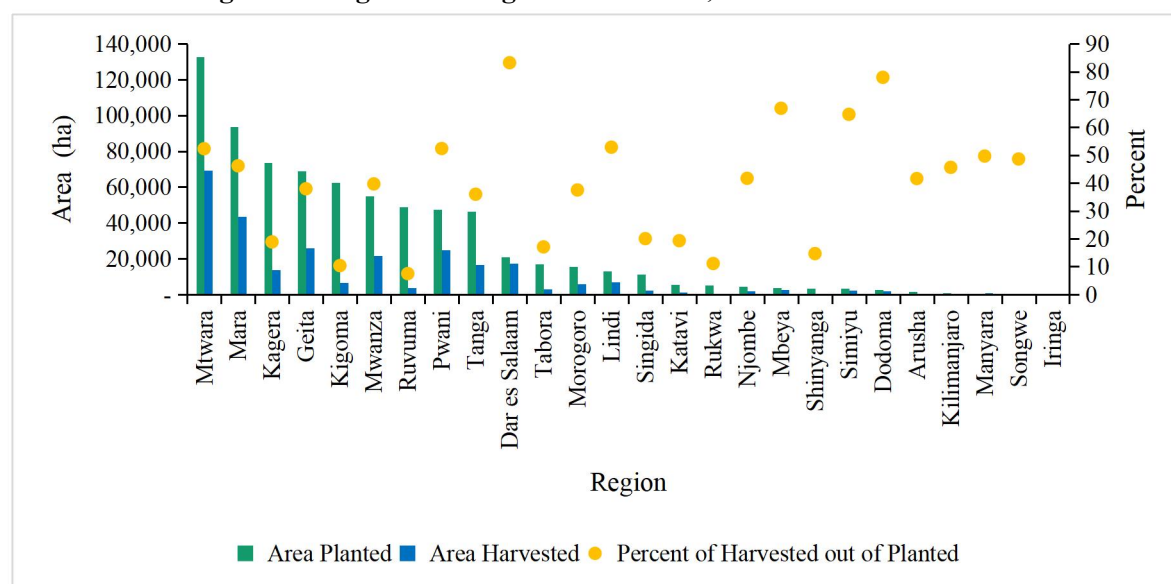
Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

"-" Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

### 3.2.1 Cassava

Cassava is among the roots and tuber crop grown by both agricultural households and large scale farms in Tanzania. A total of 1,789,102 households engaged in growing cassava during the 2022/23 agricultural year, of which 1,678,148 households were in Mainland Tanzania and 110,955 in Zanzibar. The total area planted with cassava was 779,796 ha, of which 779,474 ha occupied by agricultural households and 322 ha by large scale farms. Out of the total planted area by agricultural households, 738,167 ha was in Mainland Tanzania and 41,307 ha in Zanzibar. In Mainland Tanzania, 37.1 percent of the area planted with cassava was harvested, whereby Dar es Salaam region harvested 83.2 percent, followed by Dodoma (77.9 percent). Ruvuma had the smallest area harvested with cassava (7.5 percent) (Figure 3.9).

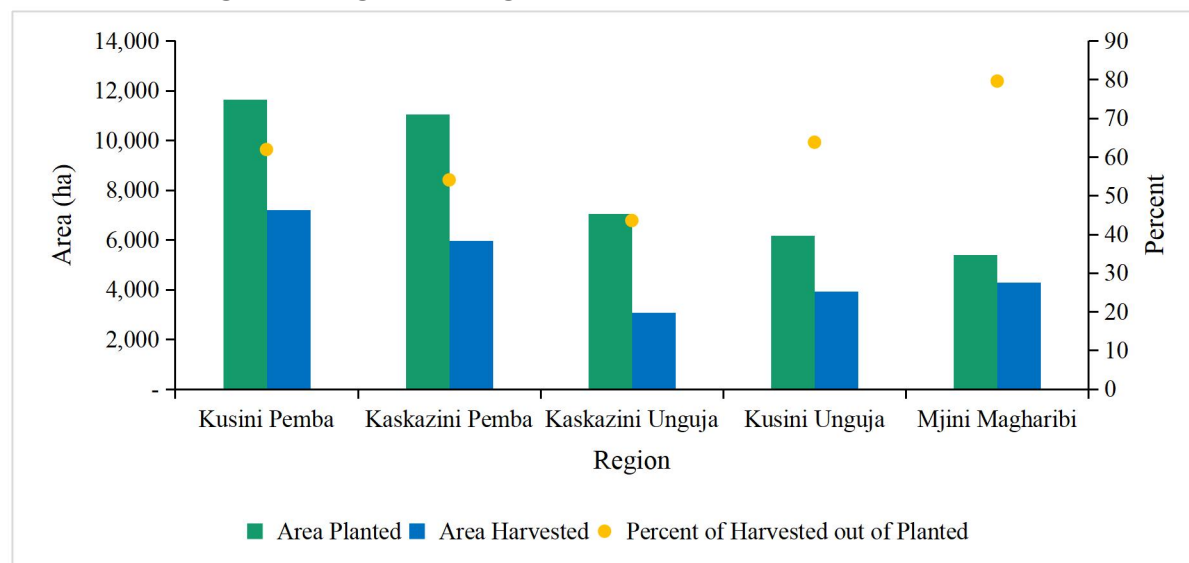
**Figure 3.9: Area Planted, Area Harvested and Percentage of Area Harvested with Cassava by Region During 2022/23 Agricultural Year, Mainland Tanzania**



Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

In Zanzibar, 59.2 percent of the area planted with cassava was harvested. Mjini Magharibi harvested 79.6 percent of the planted area, followed by Kusini Unguja (63.8 percent), while Kaskazini Unguja reported the lowest (43.5 percent) (Figure 3.10).

**Figure 3.10: Area Planted, Area Harvested and Percentage of Area Harvested with Cassava by Region During 2022/23 Agricultural Year, Zanzibar**

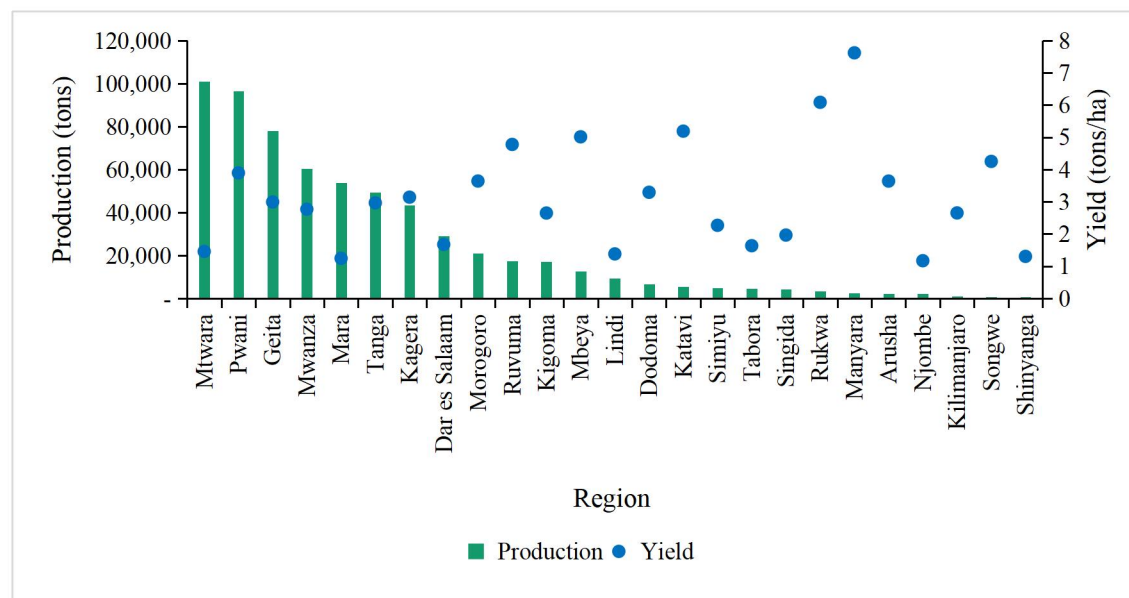


Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

Regarding production, a total of 696,689 tons of cassava was produced, out of which 696,447 tons were from agricultural households and 242 tons from large scale farms. Out of the total production of cassava produced by agricultural households, 629,463 tons were in Mainland Tanzania and 66,985 tons in Zanzibar. The highest production of cassava in Mainland Tanzania was reported in Mtwara region (101,135 tons; 16.1 percent), followed by Pwani (96,634 tons; 15.4 percent). The lowest production of cassava was reported in Shinyanga (665 tons; 0.1 percent) (Figure 3.11). In Zanzibar, the highest cassava production was reported in Kusini Pemba (20,953 tons; 31.3 percent), followed by Kaskazini Pemba (16,716 tons; 25.0 percent) while the lowest cassava production was observed in Kaskazini Unguja (8,626 tons; 12.9 percent) (Figure 3.11 and 3.12).

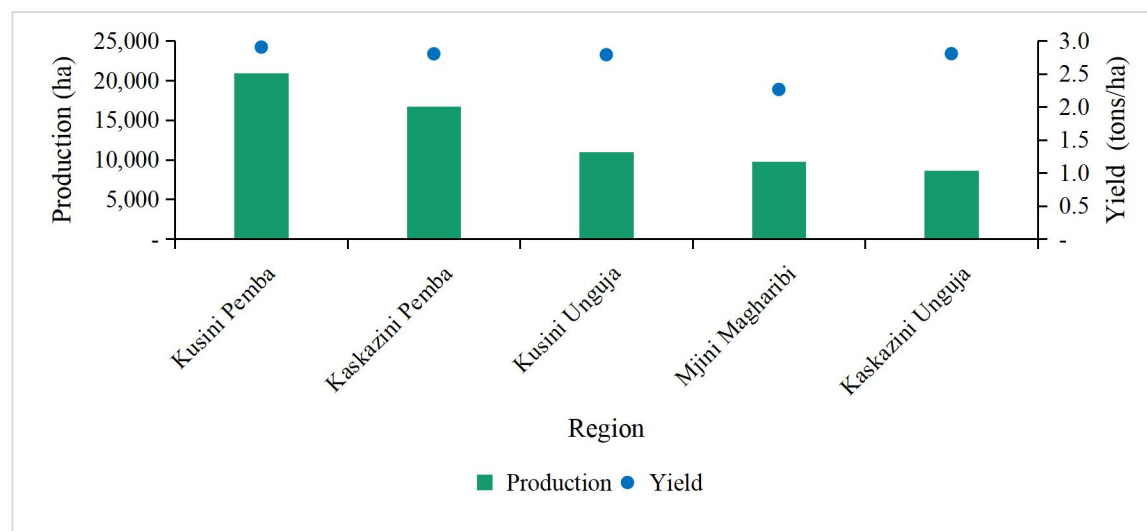
Furthermore, results show that, the average yield of cassava in Tanzania was 2.3 tons/ha, whereby similar pattern was observed in Mainland Tanzania (2.3 tons/ha) and Zanzibar was 2.7 tons/ha. In Mainland Tanzania, the highest yield was reported in Manyara region with 7.6 tons/ha, followed by Rukwa (6.1 tons/ha) and Katavi (5.2 tons/ha). On the other hand, Njombe reported the lowest yield, with 1.2 tons/ha. In Zanzibar, the highest yield was reported in Kusini Pemba region with 2.9 tons/ha whereas Mjini Magharibi reported the lowest yield of 2.3 tons/ha (Figure 3.11 and 3.12).

**Figure 3.11: Production and Yield of Cassava by Region During 2019/20 Agricultural Year, Mainland Tanzania**



Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

**Figure 3.12: Production and Yield of Cassava by Region During 2019/20 Agricultural Year, Zanzibar**



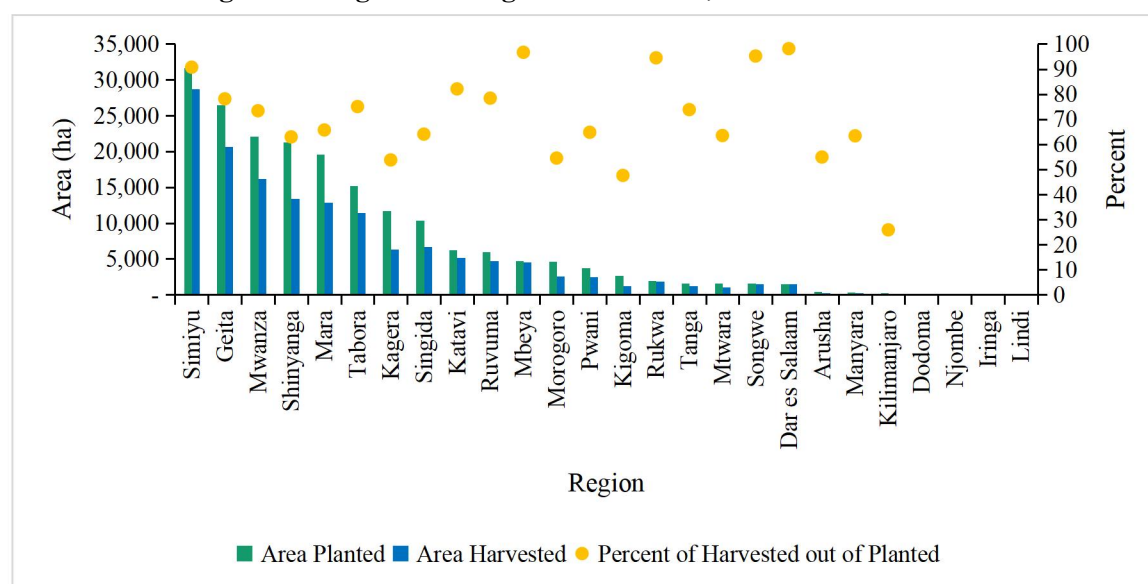
Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

### 3.2.3 Sweet Potatoes

The results show that, a total of 676,244 households engaged in growing sweet potatoes, of which 647,103 households were in Mainland Tanzania and 29,142 in Zanzibar. A total area of 202,769 ha was planted with sweet potatoes, of which 202,551 ha were occupied by agricultural households and 217 ha by large scale farms. Out of the area planted by agricultural households, 196,336 ha were in Mainland Tanzania and 6,215 ha in Zanzibar.

At national level, about 75.0 percent of the area planted with sweet potatoes was harvested. This accounted to 73.6 percent in Mainland Tanzania and 75.4 in Zanzibar. In Mainland Tanzania, Dar es Salaam region harvested 98.1 percent of the area planted with sweet potatoes, followed by Mbeya (96.7 percent) and Songwe (95.2 percent), while Kilimanjaro region harvested 25.8 percent of the planted area (Figure 3.13).

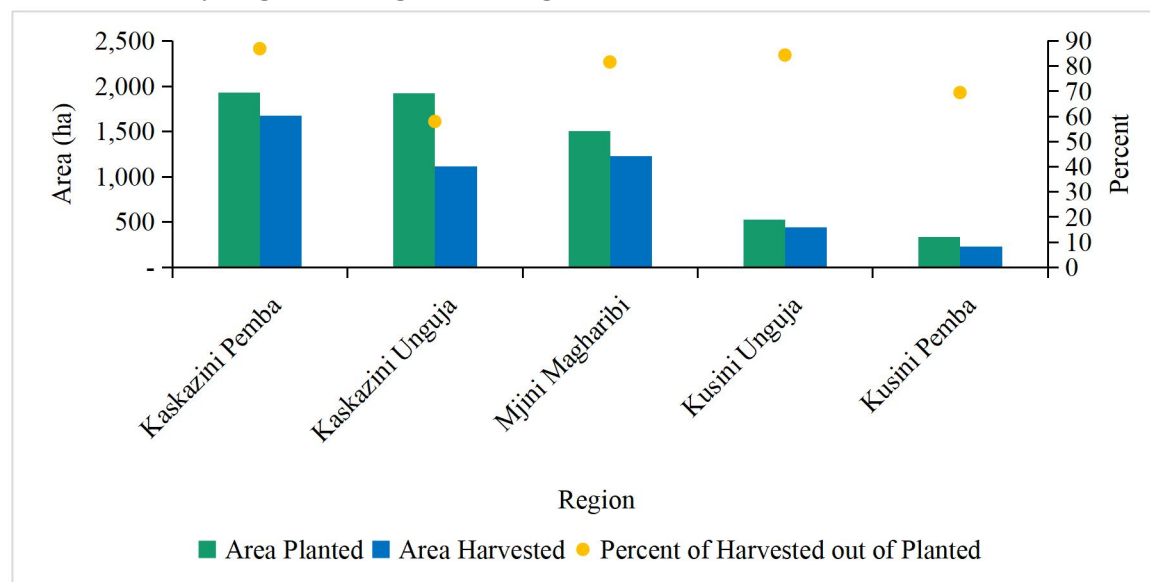
**Figure 3.13: Planted and Harvested Area with Sweet Potatoes by Agricultural Households by Region During 2019/20 Agricultural Year, Mainland Tanzania**



Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

In Zanzibar, 75.4 percent of the area planted with sweet potatoes was harvested. Kaskazini Pemba harvested 86.8 percent of the area planted with sweet potatoes, followed by Kusini Unguja (84.3 percent), while Kaskazini Unguja had the lowest (57.9 percent) (Figure 3.14).

**Figure 3.14: Area Planted, Area Harvested and Percentage of Area Harvested with Sweet Potato by Region During 2022/23 Agricultural Year, Mainland Tanzania**



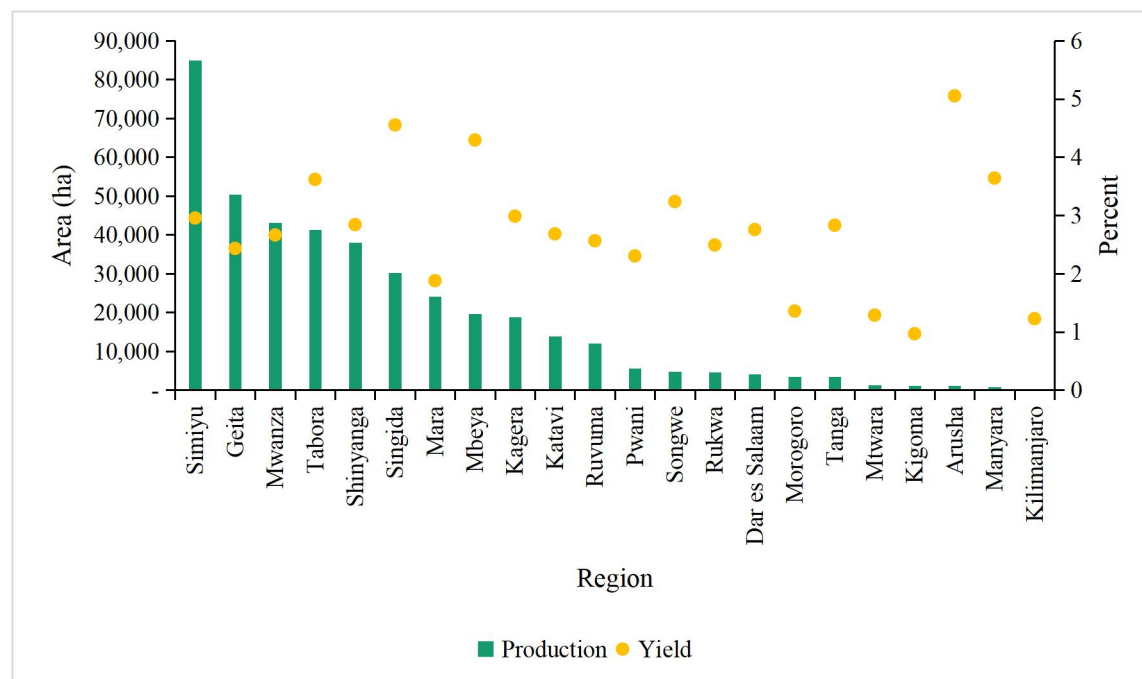
Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

The total production of sweet potatoes in Tanzania was 423,742 tons, whereby 423,221 tons were from agricultural households and 521 tons from large scale farms. Out of the total sweet potatoes produced by agricultural households, 407,442 tons were produced in Mainland Tanzania and 15,778 tons in Tanzania Zanzibar. The largest production of sweet potatoes in Mainland Tanzania was reported in Simiyu region (84,876 tons; 20.8 percent), followed by Geita (50,360 tons; 12.4 percent) and Mwanza (43,198 tons; 10.6 percent), while Kilimanjaro reported production of 67 tons (less than 0.1 percent). In Zanzibar, the largest production of sweet potatoes was reported in Kaskazini Pemba (4,971 tons; 31.5 percent), followed by Kaskazini Unguja (4,162 tons; 26.4 percent), while Kusini Pemba region reported the smallest (550 tons; 3.5 percent) (Figure 3.15 and 3.16).

Furthermore, results show that, the average yield of sweet potatoes in Tanzania was 2.8 tons/ha, whereby in Mainland Tanzania the yield was 2.8 tons/ha and 3.4 tons/ha in Zanzibar. In Mainland Tanzania, Arusha region reported a yield of 5.1 tons/ha followed by Singida (4.6 tons/ha) and Mbeya (4.3 tons/ha), while Kigoma region had a yield of 1.0 tons/ha. In Zanzibar, the highest yield was reported in Kusini Unguja region with 5.4 tons/ha whereas Kusini Pemba reported the lowest yield of 2.4 tons/ha (Figure 3.15 and 3.16).

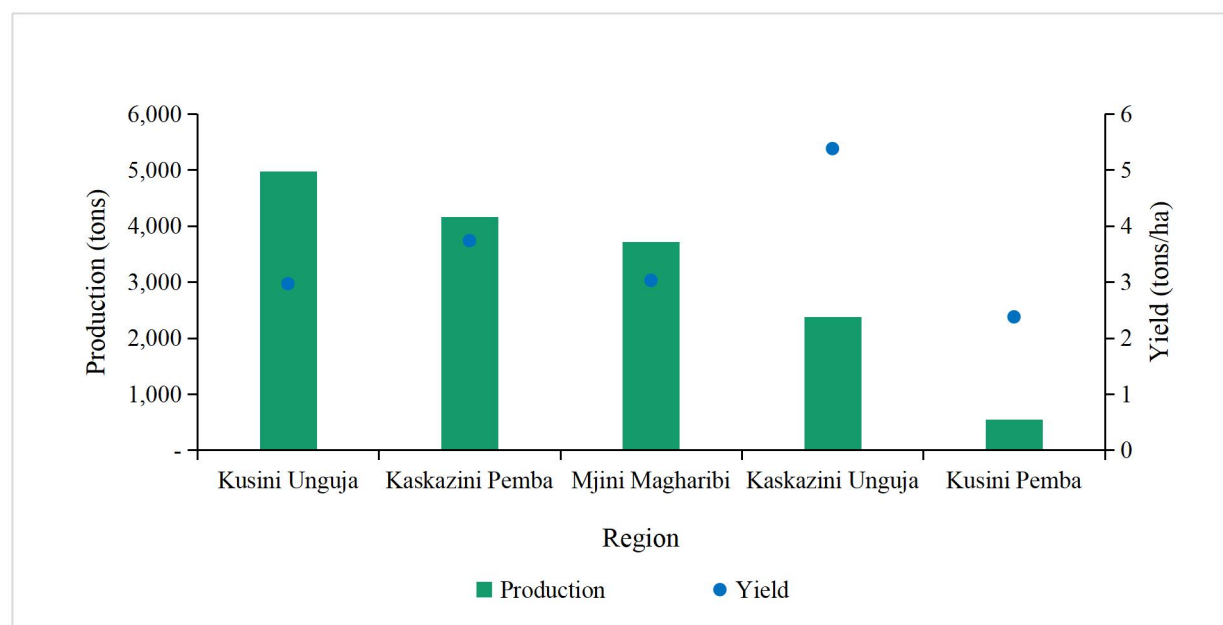


**Figure 3.15: Production and Yield of Sweet Potatoes by Region During 2022/23 Agricultural Year, Mainland Tanzania**



Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

**Figure 3.16: Production and Yield of Sweet Potatoes by Region During 2022/23 Agricultural Year, Zanzibar**



Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23



### 3.2.4 Irish Potatoes

In Tanzania, irish potatoes are grown in the Mainland Tanzania, particularly, in Southern Highlands regions. During 2022/23 agricultural year, a total of 245,615 households grew irish potatoes, and all the households were from Mainland Tanzania. A total planted area with irish potatoes was 153,276 ha, of which 153,185 ha were from agricultural households and 92 ha from large scale farms. Among the regions growing irish potatoes, Mbeya region harvested 83.8 percent of the planted area followed by Njombe (83.2 percent) and Iringa (82.5 percent), while Tanga region harvested 43.4 percent of the area planted (Table 3.5; Figure 3.17).

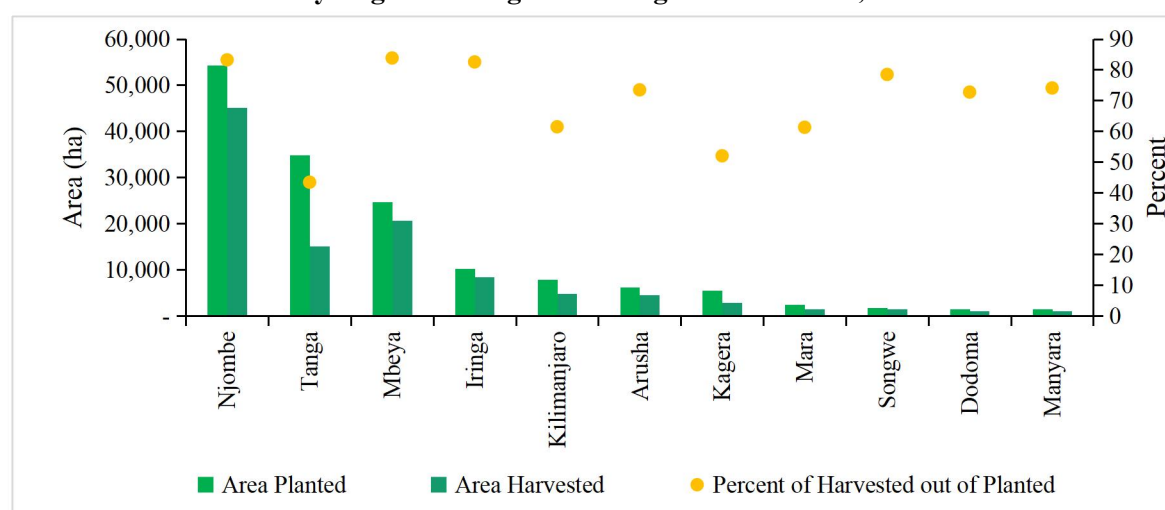
**Table 3.5: Area Planted, Area Harvested, Production, Yield of Irish Potatoes During 2022/23 Agricultural Year, Tanzania**

Holdings	Coverage	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)
Agricultural Households	Tanzania	153,185	108,293	529,295	4.9
	Mainland Tanzania	153,185	108,293	529,295	4.9
	Zanzibar	*	*	*	*
Large Scale Farms	Tanzania	92	92	961	10.5
	Mainland Tanzania	92	92	961	10.5
	Zanzibar	*	*	*	*
All Holdings	Tanzania	153,276	108,385	530,257	4.9
	Mainland Tanzania	153,276	108,385	530,257	4.9
	Zanzibar	*	*	*	*

Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

“\*” Data unavailable for the 2022/23 Agricultural year.

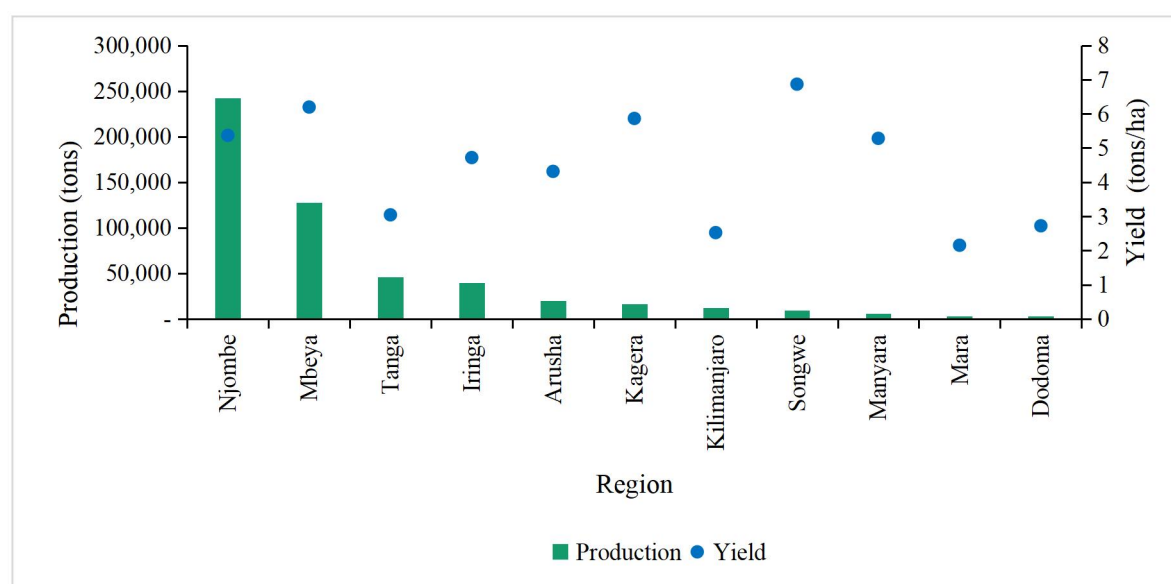
**Figure 3.17: Area Planted, Area Harvested and Percentage of Area Harvested with Irish Potatoes by Region During 2022/23 Agricultural Year, Mainland Tanzania**



Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

With regard to production, a total of 529,295 tons were produced. The findings show that, more than three-quarter of the production was from Southern Highland regions, with Njombe region producing 242,630 tons (45.8 percent), followed by Mbeya (127,968 tons; 24.2 percent) and Iringa (39,769; 7.5 percent). Furthermore, results show that, the average yield of irish potatoes was 4.9 tons/ha. Regional disaggregation shows a yield of 6.9 tons/ha in Songwe, 6.2 tons/ha in Mbeya and 5.9 tons/ha in Kagera. Conversely, the yield for Mara region was only 2.2 tons/ha, (Figure 3.18).

**Figure 3.18: Production and Yield of Irish Potatoes by Region During 2022/23 Agricultural Year, Mainland Tanzania**



Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

### 3.2.5 Cocoyam

The results show that, a total of 229,822 households engaged in growing cocoyam during the 2022/23 agricultural year, of which 222,054 households were in Mainland Tanzania and 7,769 in Zanzibar. Cocoyam was planted in an area of 29,490 ha, of which 28,258 ha were in Mainland Tanzania and 1,232 ha in Zanzibar. The harvested area for cocoyam was 10,297 ha, out of which 10,052 ha were in Mainland Tanzania and 246 ha in Zanzibar. Additionally, 25,634 tons of cocoyam were produced, of which 25,372 tons were in Mainland Tanzania and 262 tons in Zanzibar. On the other hand, the national average yield of cocoyam was 2.5 tons/ha, in Mainland Tanzania was 2.5 tons/ha and 1.1 tons/ha in Zanzibar (Table 3.6).

**Table 3.6: Area Planted, Area Harvested, Production and Yield of Cocoyam During 2022/23 Agricultural Year, Tanzania**

Area	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)
Tanzania	29,490	10,297	25,634	2.5
Mainland Tanzania	28,258	10,052	25,372	2.5
Zanzibar	1,232	246	262	1.1

*Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23*

### 3.3 Oil Seeds and Nuts Production

Sesame, sunflower and groundnuts are the major oil seed and nuts grown in Tanzania. During 2022/23 agricultural year, a total of 1,988,354 ha was planted with oil seeds and nuts, of which 1,979,568 ha were planted by agricultural households and 8,785 ha by large scale farms. Out of the total area planted by agricultural households, 1,978,714 ha were in Mainland Tanzania and 854 ha in Zanzibar.

Out of the total area planted with oil seeds and nuts, 1,214,994 ha (61.1 percent) were harvested, whereby, 1,211,054 ha were from agricultural households and 3,940 ha from large scale farms. The results further show that, 1,210,367 ha of the area harvested by agricultural households were in Mainland Tanzania and 687 ha in Zanzibar. On the other hand, a total of 1,051,177 tons of oil seeds and nuts were produced; agricultural households accounted for 1,048,605 tons of the overall production, while 2,572 tons were produced by large scale farms. Considering the production from agricultural households, 1,047,621 tons were in Mainland Tanzania and 984 tons in Zanzibar (Table 3.7).

**Table 3.7: Area Planted, Harvested, Production, Percent of Area Harvested of Selected Oil Seed and Nuts During 2022/23 Agricultural Year, Tanzania**

Holding Category	Crop	Area Planted (ha)	Area Harvested		Production (Tons)	Yield (tons/ha)
			Area (ha)	Percent		
Tanzania						
Agricultural Households	Sunflower	914,320	574,378	62.8	478,080	0.8
	Groundnuts	570,875	390,683	68.4	411,927	1.1
	Sesame	494,374	245,993	49.8	158,597	0.6
	Total	1,979,568	1,211,054	61.2	1,048,605	
Large Scale Farms	Sunflower	4,312	3,409	79	2,314	0.7
	Groundnuts	3,630	293	8.1	168	0.6
	Sesame	843	238	28.2	90	0.4
	Total	8,785	3,940	44.8	2,572	
All Holdings	Sunflower	918,632	577,786	62.9	480,394	0.8
	Groundnuts	574,505	390,977	68.1	412,095	1.1
	Sesame	495,217	246,231	49.7	158,688	0.6
	Total	1,988,354	1,214,994	61.1	1,051,177	
Mainland Tanzania						
Agricultural Households	Sunflower	914,320	574,378	62.8	478,080	0.8
	Groundnuts	570,020	389,997	68.4	410,943	1.1
	Sesame	494,374	245,993	49.8	158,597	0.6
	Total	1,978,714	1,210,367	61.2	1,047,621	
Large Scale Farms	Sunflower	4,312	3,409	79	2,314	0.7
	Groundnuts	3,630	293	8.1	168	0.6
	Sesame	843	238	28.2	90	0.4
	Total	8,785	3,940	44.8	2,572	
All Holdings	Sunflower	918,632	577,786	62.9	480,394	0.8
	Groundnuts	573,650	390,290	68	411,111	1.1
	Sesame	495,217	246,231	49.7	158,688	0.6
	Total	1,987,499	1,214,307	61.1	1,050,193	
Zanzibar						
Agricultural Households	Sunflower	*	*	*	*	*
	Groundnuts	854	687	80.4	984	1.4
	Sesame	*	*	*	*	*
	Total	854	687	80.4	984	
Large Scale Farms	Sunflower	*	*	*	*	*
	Groundnuts	*	*	*	*	*
	Sesame	*	*	*	*	*
	Total	*	*	*	*	
All Holdings	Sunflower	*	*	*	*	*
	Groundnuts	854	687	80.4	984	1.4
	Sesame	*	*	*	*	*
	Total	854	687	80.4	984	

Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

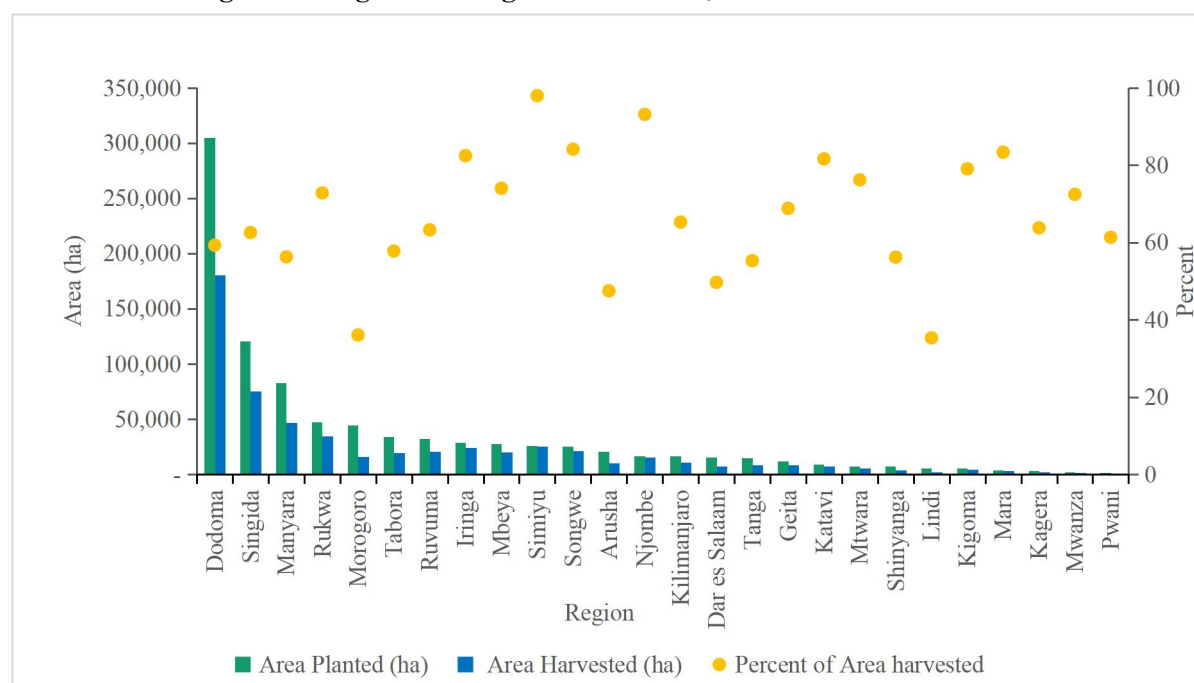
“\*” Data unavailable for the 2022/23 Agricultural year.

### 3.3.1. Sunflower

During the 2022/23 agricultural year, sunflower production was only reported in Mainland Tanzania. A total of 1,280,348 agricultural households were engaged in sunflower production and reported a planted area of 914,320 ha. For large scale farms, area planted with sunflower was 4,312 ha, thus making a total planted area of 918,632 ha.

Results show that 62.9 percent of the area planted with sunflower was harvested. Regional wide, Simiyu led, by harvesting 98.0 percent of the area planted with sunflower, followed by Njombe (93.1 percent) and Songwe (84.1 percent), while Lindi region was the least, harvesting 35.3 percent of the planted area (Figure 3.19).

**Figure 3.19: Area Planted, Area Harvested and Percentage of Area Harvested with Sunflower by Region During 2022/23 Agricultural Year, Mainland Tanzania**

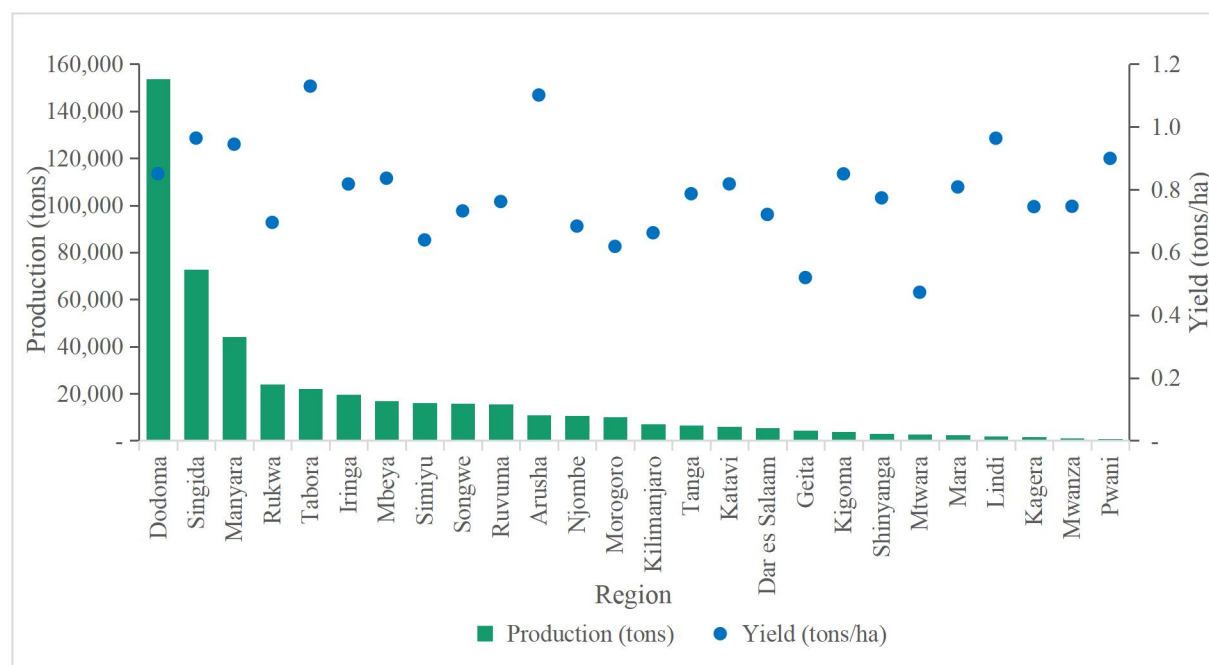


Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

The total production of sunflower was 480,394 tons, whereby agricultural households reported a production of 478,080 tons and 2,314 tons from large scale farms. Dodoma region reported the largest production with 153,729 tons (32.2 percent), followed by Singida (72,738 tons; 15.2 percent) and Manyara (43,494 tons; 9.2 percent). On the other hand, Pwani region reported the lowest production with 840 tons (0.2 percent). Regarding yield, the reported national average was 0.8 tons/ha. Tabora and Arusha had the highest yield, each with 1.1 tons/ha, followed by

Manyara and Dodoma each with 0.9 tons/ha. On the other hand, Mtwara and Geita regions had the lowest yields, each with 0.5 tons/ha (Figure 3.20).

**Figure 3.20: Production and Yield of Sunflower by Region During 2022/23 Agricultural Year, Mainland Tanzania**



Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

### 3.3.2. Sesame

Sesame production was reported in Mainland Tanzania only, whereas 490,364 agricultural households grew this crop. The findings show that, a total of 495,217 ha was planted, out of which, 494,374 ha were from agricultural households and 843 ha from large scale farms. Furthermore, 246,231 ha, equivalent to 49.7 percent of the planted area was harvested. Statistics show that, 84.8 percent of the area planted with sesame in Katavi region was harvested, Mara (83.6 percent) and Songwe (79.7 percent), while Manyara reported 31.2 percent of the planted area. A total of 158,688 tons of sesame were produced, of which, agricultural households reported a production of 158,598 tons and 90 tons from large scale farms. Production of sesame was higher in Lindi region (42,147 tons; 26.6 percent), followed by Ruvuma (22,826 tons; 14.4 percent) and Pwani (22,256 tons; 14.0 percent), while Mara region reported production 88 tons (0.1 percent). Nationally, an average yield of 0.6 tons/ha was reported. Mbeya region had a yield of 1.5 tons/ha, Morogoro and Ruvuma each had 0.8 tons/ha, while Mara and Tanga each had 0.2 tons/ha (Table 3.8).

**Table 3.8: Area Planted, Area Harvested and Yield of Sesame by Region During 2022/23 Agricultural Year, Mainland Tanzania**

Region	Number of Households	Area Planted (ha)	Area Harvested (ha)	Percent of Area Harvested	Production (tons)	Yield (tons/ha)
Dodoma	19,748	29,066	17,737	61.0	10,320	0.6
Arusha	-	-	-	-	-	-
Kilimanjaro	-	-	-	-	-	-
Tanga	4,159	3,119	2,353	75.5	520	0.2
Morogoro	70,355	49,761	25,921	52.1	21,594	0.8
Pwani	56,515	81,455	30,523	37.5	22,256	0.7
Dar es Salaam	9,890	13,996	4,493	32.1	2,246	0.5
Lindi	162,094	165,032	61,214	37.1	42,147	0.7
Mtwara	60,015	44,956	34,227	76.1	16,286	0.5
Ruvuma	53,245	48,492	30,018	61.9	22,826	0.8
Iringa	-	-	-	-	-	-
Mbeya	1,939	680	357	52.6	543	1.5
Singida	11,072	6,727	3,365	50.0	2,345	0.7
Tabora	-	-	-	-	-	-
Rukwa	-	-	-	-	-	-
Kigoma	-	-	-	-	-	-
Shinyanga	-	-	-	-	-	-
Kagera	-	-	-	-	-	-
Mwanza	-	-	-	-	-	-
Mara	2,011	604	505	83.6	88	0.2
Manyara	5,252	11,175	3,492	31.2	1,821	0.5
Njombe	-	-	-	-	-	-
Katavi	3,525	5,339	4,529	84.8	1,835	0.4
Simiyu	-	-	-	-	-	-
Geita	-	-	-	-	-	-
Songwe	25,806	31,211	24,875	79.7	12,521	0.5
<b>Mainland Tanzania</b>	<b>490,364</b>	<b>494,374</b>	<b>245,993</b>	<b>49.8</b>	<b>158,597</b>	<b>0.6</b>

Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

“– “ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

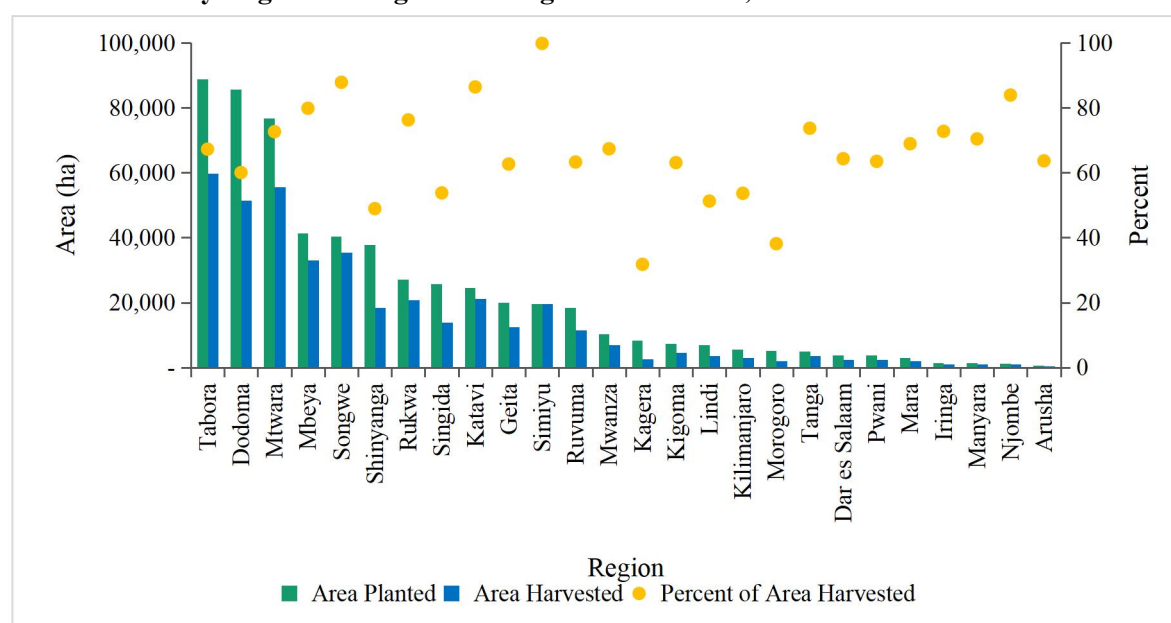
### 3.3.3. Groundnuts

In the 2022/23 agricultural year, 1,362,459 agricultural households grew groundnuts, whereby 1,358,541 households were from Mainland Tanzania and 3,918 from Zanzibar. A total of 574,505 ha was planted with groundnut, of which agricultural households planted an area of 570,875 ha and 3,630 ha by large scale farms. National estimates depict that, 68.1 percent of the area planted with groundnut was harvested whereby Mainland Tanzania harvested 68.4 percent of the planted area and Zanzibar 80.4 percent.

A total of 412,095 tons of groundnuts were produced, whereby, agricultural households reported a production of 411,927 tons while large scale farms reported 168 tons. Out of the quantity produced by agricultural households, 410,943 tons were from Mainland Tanzania and 984 tons from Zanzibar. Furthermore, the national average yield was 1.1 tons/ha whereas, in Mainland Tanzania, the yield matched the national average, while in Zanzibar was 1.4 tons/ha.

In Mainland Tanzania, 99.8 percent of the area planted with groundnuts in Simiyu region was harvested. Songwe harvested 87.8 percent and Katavi 86.4 percent, while Kagera and Morogoro regions had least proportion of the harvested area with 31.8 and 38.1 percent respectively (Figure 3.21).

**Figure 3.21: Area Planted, Area Harvested and Percentage of Area Harvested with Groundnuts by Region During 2022/23 Agricultural Year, Mainland Tanzania**

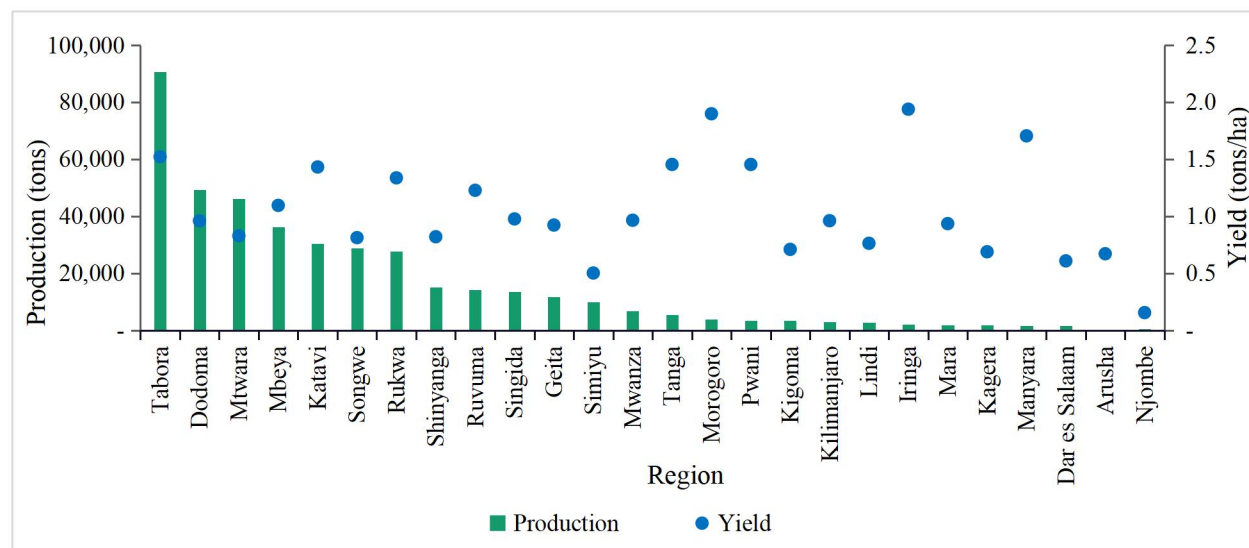


Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

Considering production, Tabora region produced 90,775 tons (22.1 percent), making it the leading groundnut producer in the country, followed by Dodoma (49,311 tons; 12.0 percent) and Mtwara (46,100 tons; 11.2 percent) while Njombe region produced the least amount of groundnuts (152 tons; less than 0.1 percent). On the other hand, Morogoro and Iringa regions had the highest yield, each with 1.9 tons/ha followed by Manyara 1.7 tons/ha. The lowest yield was reported in Njombe (0.2 tons/ha) (Figure 3.23).



**Figure 3.23: Production and Yield of Groundnuts by Region During 2022/23 Agricultural Year, Mainland Tanzania**



Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

In Zanzibar, Kusini Pemba 83.5 percent of the planted area, Kaskazini Pemba (79.3 percent) and Kaskazini Unguja (57.9 percent). Regarding production, Kusini Pemba produced 890 tons (90.4 percent), Kaskazini Pemba (31 tons; 3.1 percent) and Kaskazini Unguja (10 tons; 1.0 percent). Moreover, Kusini Pemba had a yield of 1.6 tons/ha while Kaskazini Pemba and Kaskazini Unguja each had a yield of 0.5 tons/ha (Table 3.9).

**Table 3.9: Production and Yield of Groundnuts by Region During 2022/23 Agricultural Year, Zanzibar**

Region	Area Planted (ha)	Area Harvested		Production (tons)	Yield (tons/ha)
		Area (ha)	Percent (%)		
Kaskazini Unguja	33	19	57.9	10	0.5
Kusini Unguja	-	-	-	-	-
Mjini Magharibi	-	-	-	-	-
Kaskazini Pemba	79	62	79.3	31	0.5
Kusini Pemba	679	567	83.5	890	1.6
<b>Zanzibar</b>	<b>854</b>	<b>687</b>	<b>80.4</b>	<b>984</b>	<b>1.4</b>

Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

– “Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)”

### 3.4 Pulses

In Tanzania, the main pulses grown are beans, pigeon peas, and cowpeas. During 2022/23 agricultural year, a total of 1,596,409 ha was planted with pulses, of which agricultural households occupied 1,592,966 ha whereas 3,442 ha occupied by large scale farms. Out of the total area planted by agricultural households, 1,589,833 ha were in Mainland Tanzania and 3,133 ha in Zanzibar.

Out of the total area planted with pulses, 675,532 ha (42.3 percent) were harvested, whereby, 673,401 ha were from agricultural households and 2,131 ha from large scale farms. The results further show that, 672,037 ha of the area harvested by agricultural households were in Mainland Tanzania and 1,364 ha in Zanzibar. On the other hand, a total of 915,661 tons of pulses were produced; of which agricultural households accounted for 846,011 tons of the overall production, while 69,651 tons were produced by large scale farms. Considering the production from agricultural households, 844,758 tons were in Mainland Tanzania and 1,248 tons in Zanzibar (Table 3.10).

**Table 3.10: Area Planted, Area Harvested, Percentage of Area Harvested, Production and Yield of Pulses During 2022/23 Agricultural Year, Tanzania**

Holding Category	Region	Area Planted (Ha)	Area Harvested		Production (Tons)	Yield on area harvested (Tons /Ha)
			Area (Ha)	Percent		
Tanzania						
Agricultural Households	Beans	1,093,502	609,503	55.7	676,133	1.1
	Cowpeas	165,261	63,898	38.7	25,088	0.4
	Pigeon peas	334,203	-	-	144,790	0.4
	Total	1,592,966	673,401	42.3	846,011	
Large Scale Farms	Beans	3,247	2,115	65.1	2,103	1.0
	Cowpeas	23	16	69.6	13	0.8
	Pigeon peas	172	-	-	108	0.6
	Total	3,442	2,131	61.9	2,224	
All Holdings	Beans	1,096,749	611,618	55.8	678,236	1.2
	Cowpeas	165,285	63,914	38.7	25,101	0.4
	Pigeon peas	334,375	-	-	144,897	0.4
	Total	1,596,409	675,532	42.3	848,235	
Mainland Tanzania						
Agricultural Households	Beans	1,093,501	609,503	55.7	676,128	1.1
	Cowpeas	163,131	62,534	38.3	24,379	0.4
	Pigeon peas	333,201	-	-	144,250	0.4
	Total	1,589,832	672,037	42.3	844,757	
Large Scale Farms	Beans	3,247	2,115	65.1	2,103	1.0
	Cowpeas	23	16	69.6	12	0.8
	Pigeon peas	172	-	-	108	0.6
	Total	3,442	2,131	61.9	2,223	
All Holdings	Beans	1,096,748	611,618	55.8	678,231	1.2
	Cowpeas	163,154	62,550	38.3	24,392	0.4
	Pigeon peas	333,373	-	-	144,358	0.4
	Total	1,593,275	818,526	51.4	770,050	
Zanzibar						
Agricultural Households	Beans	*	*	*	*	*
	Cowpeas	2,131	1,364	64	709	0.5
	Pigeon peas	1,002	-	-	539	0.5
	Total	3,133	1,364	43.5	1,248	0
Large Scale Farms	Beans	*	*	*	*	*
	Cowpeas	*	*	*	*	*
	Pigeon peas	*	*	*	*	*
	Total	*	*	*	*	
All Holdings	Beans	*	*	*	*	*
	Cowpeas	2,131	1,364	64	709	0.5
	Pigeon peas	1,002	-	-	539	0.5
	Total	3,133	1,364	43.5	1,248	

**Source:** Annex Table (5-1) in Statistical Tables of AASS 2022/23

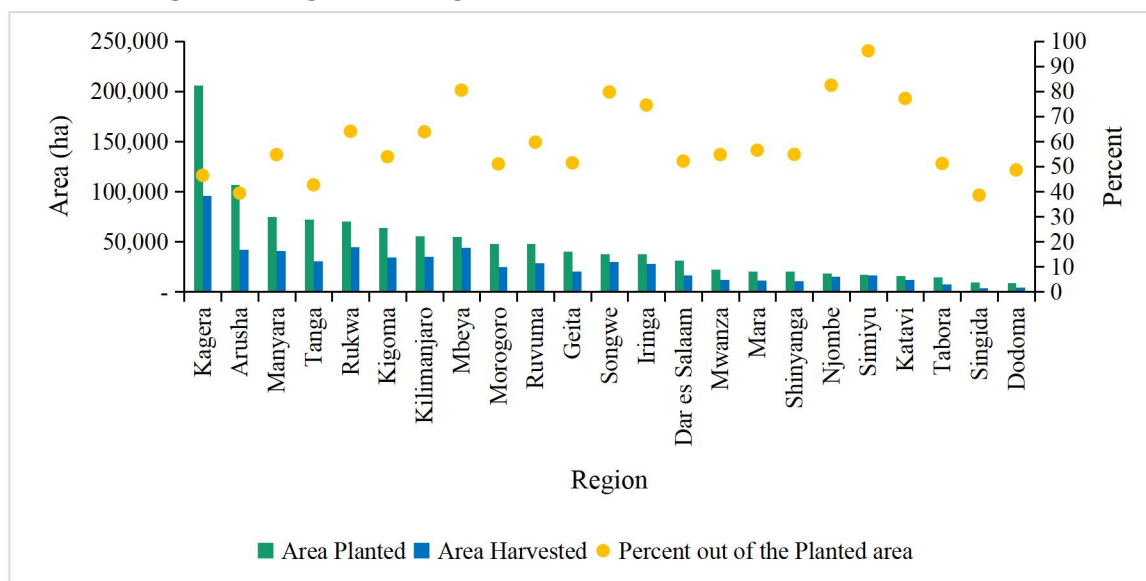
“– “ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

“\*” Data unavailable for the 2022/23 Agricultural year

### 3.4.1 Beans

Beans is a pulse crop that is commonly grown in Mainland Tanzania. The findings show that, 2,496,706 agricultural households in Tanzania engaged in beans production during the 2022/23 agricultural year. A total of 1,096,749 ha was planted with beans, of which 1,093,502 ha were occupied by agricultural households and 3,247 ha by large scale farms. The total harvested area by agricultural households was 609,503 ha, equivalent to 55.7 percent of the total area planted with beans in Mainland Tanzania. Simiyu region harvested 96.1 percent of its area planted, Njombe 82.3 percent and Mbeya 80.4 percent, while Singida harvested 38.1 percent of the total planted area in the region (Figure 3.24).

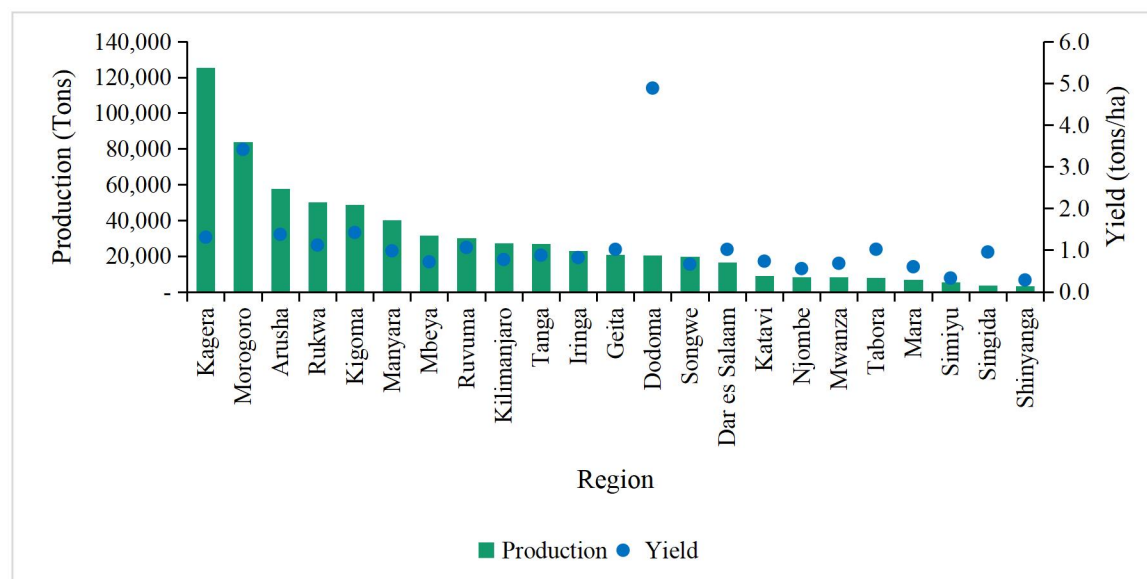
**Figure 3.24: Area Planted, Area Harvested and Percentage of Area Harvested with Beans by Region During 2022/23 Agricultural Year, Mainland Tanzania**



Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

Production of beans in Tanzania was 678,236 tons, out of which 676,133 tons were produced by agricultural households and 2,103 tons by large scale farms. Kagera region produced 125,284 tons (18.5 percent), Arusha 57,645 tons (8.5 percent) and Rukwa (50,146 tons; 7.3 percent), while Shinyanga region produced 3,112 tons (0.5 percent). Moreover, results show that, the average yield of beans in Tanzania was 1.2 tons/ha, with regional estimates indicating a yield of 4.9 tons/ha in Dodoma and 3.4 tons/ha in Morogoro, while Simiyu and Shinyanga each had 0.3 tons/ha (Figure 3.25).

**Figure 3.25: Production and Yield of Beans by Agricultural Households by Region During 2022/23 Agricultural Year, Mainland Tanzania**



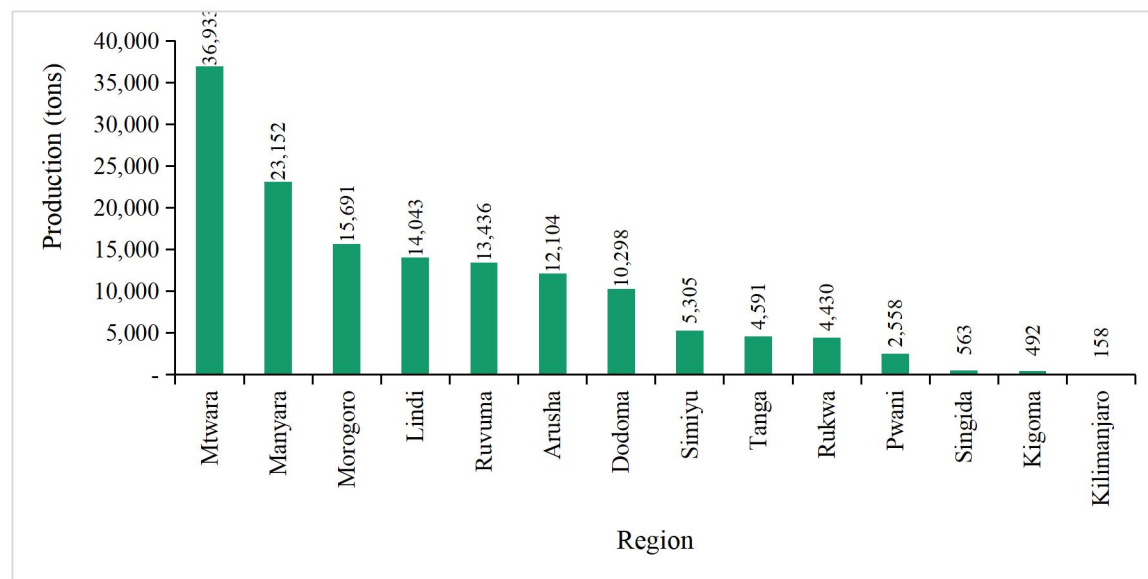
Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

### 3.4.2 Pigeon Peas

The results revealed that 771,140 agricultural households engaged in growing pigeon peas in Tanzania, whereby, 764,462 households were in Mainland Tanzania and 6,678 in Zanzibar. The total area planted with pigeon peas was 334,375 ha, of which 334,203 ha was occupied by agricultural households and 172 ha by large scale farms. Out of the total planted area by agricultural households, 333,201 ha were in Mainland Tanzania and 1,002 ha in Zanzibar.

Production of pigeon peas in 2022/23 agricultural year was 144,897 tons, out of which 144,790 tons were produced by agricultural households and 108 tons by large scale farms. From the production of agricultural households, 144,250 tons were in Mainland Tanzania and 539 tons in Zanzibar. In Mainland Tanzania, Mtwara region produced 36,933 tons (25.6 percent), Manyara 23,152 tons (16.0 percent) and Morogoro 15,691 tons (10.9 percent), while Kilimanjaro region had a production of 158 tons (0.1 percent) (Figure 3.26).

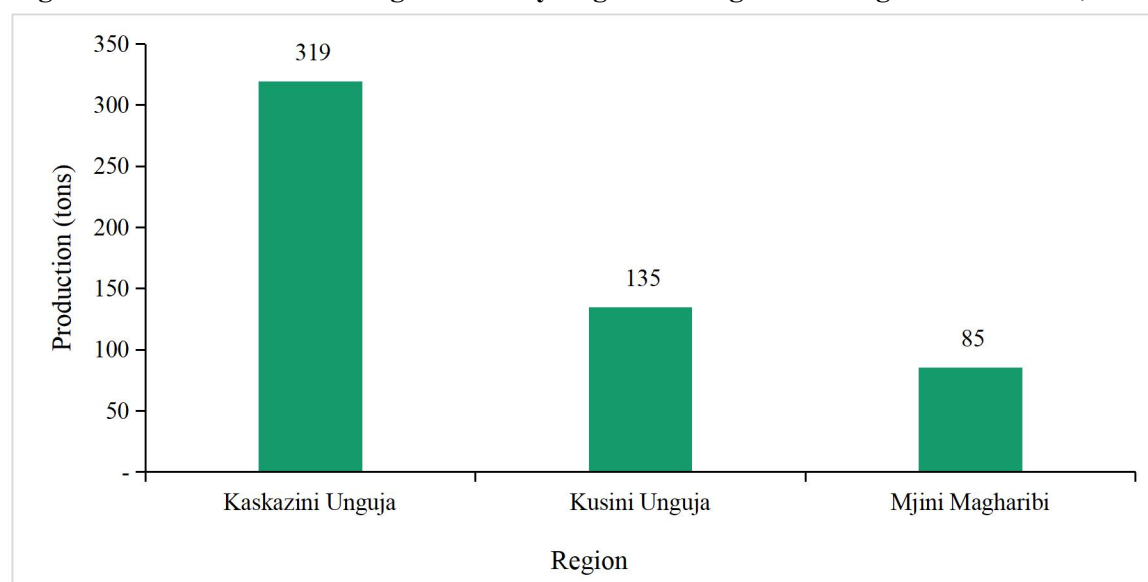
**Figure 3.26: Production of Pigeon Peas by Region During 2022/23 Agricultural Year, Tanzania Mainland**



Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

In Zanzibar, production of pigeon peas in Kaskazini Unguja was 319 tons (59.3 percent), Kusini Unguja 135 tons (24.9 percent) and Mjini Magharibi reported production of 85 tons (15.8 percent). For the remaining regions, none of the agricultural households reported the production of pigeon peas (Figure 3.27).

**Figure 3.27: Production of Pigeon Peas by Region During 2022/23 Agricultural Year, Zanzibar**



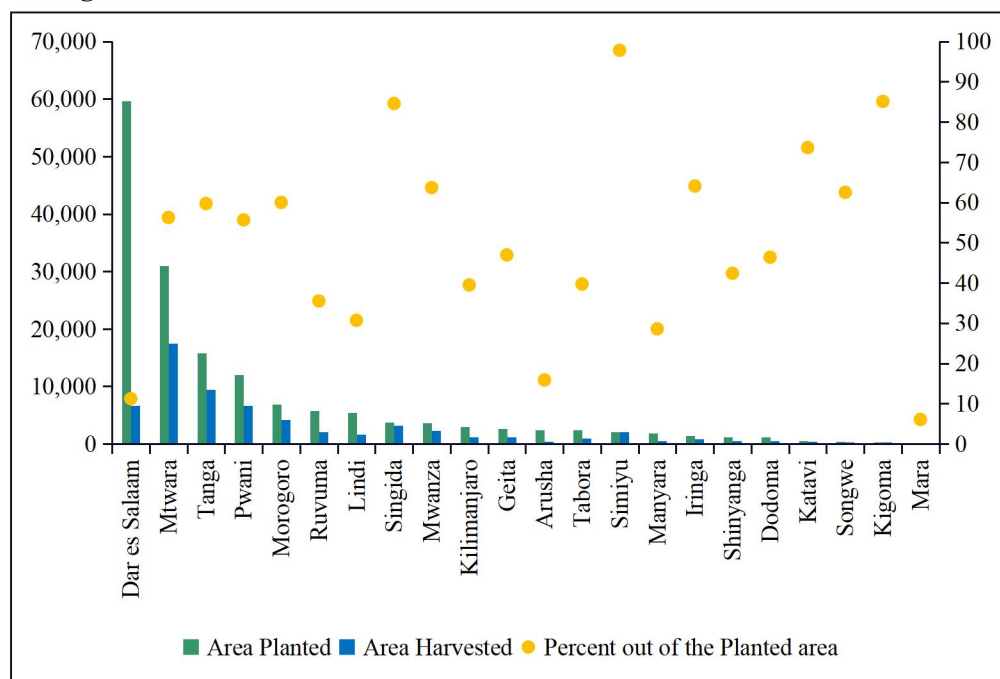
Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

### 3.4.3 Cowpeas

The results revealed that 398,815 agricultural households engaged in growing cowpeas in Tanzania, whereby, 388,140 households were in Mainland Tanzania and 10,675 in Zanzibar. The total area planted with cowpeas was 165,285 ha, of which 165,261 ha was occupied by agricultural households and 23 ha by large scale farms. Out of the total planted area by agricultural households, 163,131 ha were in Mainland Tanzania and 2,131 ha in Zanzibar.

In addition, 38.7 percent of the area planted with cowpeas in Tanzania was harvested. In Mainland Tanzania, a total of 63,898 ha (38.7 percent) was harvested by agricultural households. Simiyu region harvested 97.8 percent of the area planted with cowpeas, Kigoma 85.1 percent, while Mara harvested 6.0 percent (Figure 3.28).

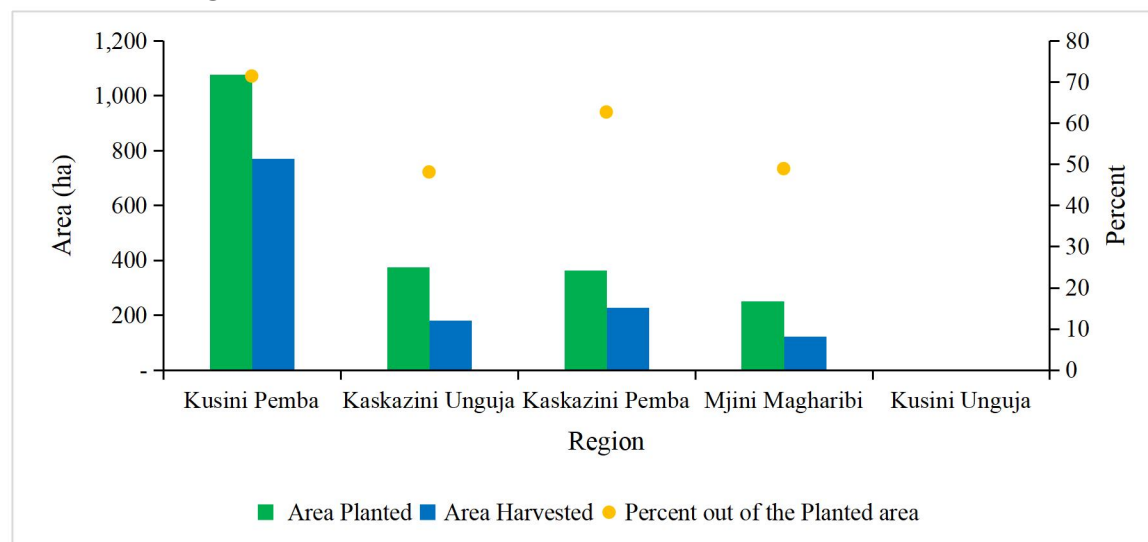
**Figure 3.28: Area Planted and Area Harvested of Cowpeas by Region During 2022/23 Agricultural Year, Mainland Tanzania**



Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

In Zanzibar, 1364 ha (64.0 percent) were harvested. Kusini Pemba harvested 71.4 percent of the planted area and Kaskazini Pemba 62.7 while Kaskazini Unguja harvested 41.8 percent (Figure 3.29).

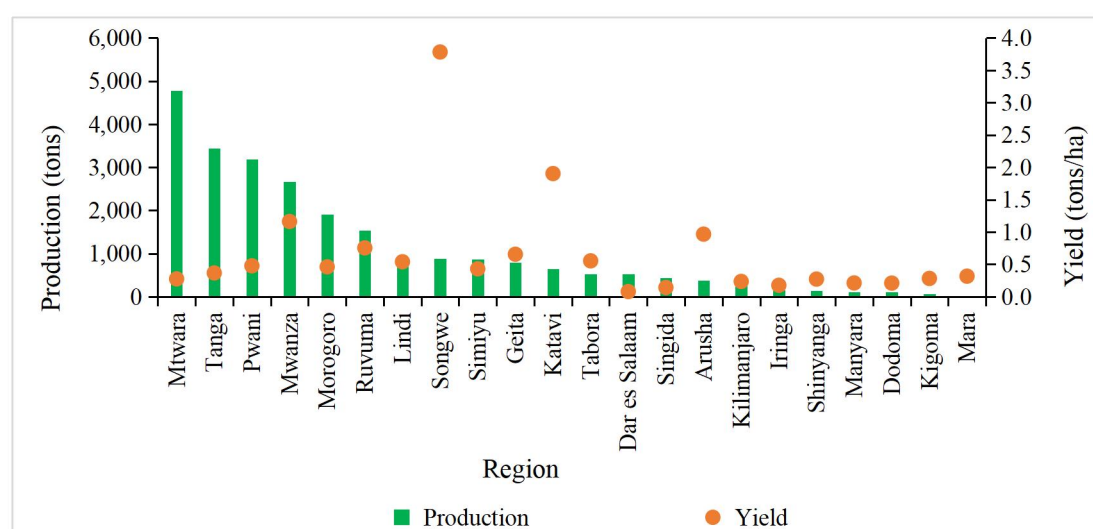
**Figure 3.29: Area Planted and Area Harvested of Cowpeas by Region During 2022/23 Agricultural Year, Zanzibar**



Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

Production of cowpeas in the 2022/23 agricultural year aggregated to 25,101 tons, out of which 25,088 tons were produced by agricultural households and 13 tons by large scale farms. From the production of agricultural households, 24,379 tons were in Mainland Tanzania and 709 tons from Zanzibar. In Mainland Tanzania, Mtwara region produced 4,778 tons (19.6 percent), Tanga 3,442 tons (14.1 percent) and Pwani 3,183 tons (13.1 percent), while Mara region had a production of 3 tons (less than 0.1 percent) (Figure 3.30).

**Figure 3.30: Production and Yield of Cowpeas by Region During 2022/23 Agricultural Year, Mainland Tanzania**

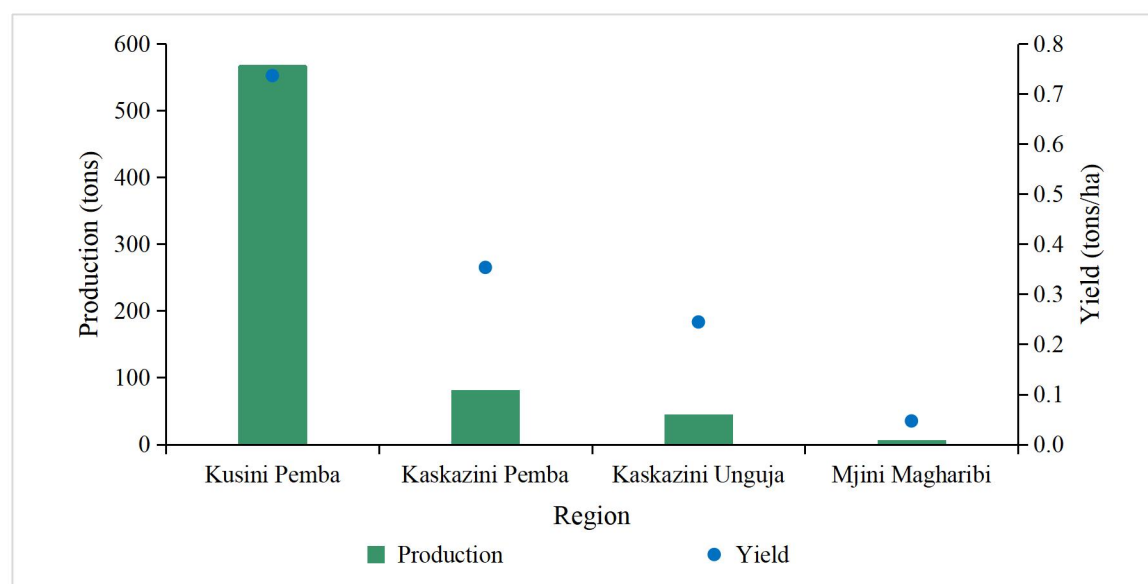


Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23



In Zanzibar, Kusini Pemba produced 567 tons (80.0 percent) of cowpeas, Kaskazini Pemba had 81 tons (11.4 percent) and Mjini Magharibi reported production of 6 tons (0.8 percent). Moreover, results show that, the average yield of cowpeas in Tanzania was 0.4 tons/ha. The yield of cowpeas in Mainland Tanzania was 0.4 tons/ha while Zanzibar had 0.5 tons/ha (Figure 3.31).

**Figure 3.31: Production and Yield of Cowpeas by Region During 2022/23 Agricultural Year, Zanzibar**



Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

### 3.5 Cash Crop Production

Cash crops in Tanzania are primarily for sale and export rather than for personal consumption. These crops are vital to the country's economy, generating significant revenue and employment opportunities. This section presents the results of major annual and permanent cash crops. Annual cash crops were cotton and tobacco, while permanent were coffee, cashew nuts, coconuts, sisal, tea, clove, banana, avocado, mango, orange, pineapple and sugarcane.

#### 3.5.1 Cotton

Cotton is among the country's cash crops commonly grown in Lake Zone's regions in Mainland Tanzania. In the 2022/23 agricultural year, 310,431 agricultural households engaged in cotton production. A total planted area with cotton was 368,844 ha out of which, 367,989 ha were from agricultural households and 854 ha from large scale farms. The findings further show that, 303,179 ha equivalent to 82.2 percent of the planted area were harvested. Regional wide, Simiyu

harvested 94.8 percent of the planted areas, Geita 75.9 percent and Katavi 74.7 percent, while Shinyanga harvested 59.0 of the planted area.

The total production for cotton was 218,413 tons of which 217,903 tons were produced by agricultural households and 510 tons by large scale farms. Simiyu region reported a production of 121,425 tons (55.7 percent), Shinyanga 25,247 tons (11.6 percent) and Geita 18,566 tons (8.5 percent), while Mara produced 5,756 tons (2.6 percent). Furthermore, the reported national average yield was 0.7 tons/ha. Regional disaggregation showed that, Mwanza had an average yield of 1.3 tons/ha, Geita and Tabora with 1.2 tons/ha each, while Mara and Simiyu reported an average yield of 0.6 tons/ha each (Table 3.11).

**Table 3.11: Area Planted, Production and Yield of Cotton During 2022/23 Agricultural Year, Mainland Tanzania**

Holding Category	Region	Number of Agricultural Holdings	Planted Area (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)
Agricultural Households	Dodoma	-	-	-	-	-
	Arusha	-	-	-	-	-
	Kilimanjaro	-	-	-	-	-
	Tanga	-	-	-	-	-
	Morogoro	-	-	-	-	-
	Pwani	-	-	-	-	-
	Dar es Salaam	-	-	-	-	-
	Lindi	-	-	-	-	-
	Mtwara	-	-	-	-	-
	Ruvuma	-	-	-	-	-
	Iringa	-	-	-	-	-
	Mbeya	-	-	-	-	-
	Singida	11,711	20,335	13,091	10,444	0.8
	Tabora	12,348	11,352	8,030	9,392	1.2
	Rukwa	-	-	-	-	-
	Kigoma	-	-	-	-	-
	Shinyanga	35,114	52,891	31,193	25,247	0.8
	Kagera	-	-	-	-	-
	Mwanza	28,291	22,344	14,198	17,877	1.3
	Mara	19,123	15,076	9,178	5,756	0.6
	Manyara	-	-	-	-	-
	Njombe	-	-	-	-	-
	Katavi	9,367	8,375	6,256	5,889	0.9
	Simiyu	160,527	210,293	199,419	121,425	0.6
	Geita	27,085	20,971	15,915	18,566	1.2
	Songwe	-	-	-	-	-
	<b>Mainland Tanzania</b>	<b>310,431</b>	<b>367,989</b>	<b>302,671</b>	<b>217,903</b>	<b>0.7</b>
Large Scale Farms	Mainland Tanzania	85	854	508	510	1.0
<b>All Holdings</b>	<b>Mainland Tanzania</b>		<b>368,844</b>	<b>303,179</b>	<b>218,413</b>	<b>0.7</b>

Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

“- Withheld to avoid disclosing data for individual holdings or insufficient data available from the survey (Total includes withheld data)

### 3.5.2 Cashew nuts

In Tanzania, the major cashew nuts growing regions are Mtwara, Lindi, Pwani, Tanga and Ruvuma. However, the crop is also grown in some other parts of the country including Dar es Salaam and Morogoro. The results indicate that, 380,565 agricultural households were involved in cashew nuts production. The total planted area with cashew nuts was 915,719 ha, out of which 907,163 ha were planted by agricultural households and 8,556 ha by large scale farms.

The total production for cashew nuts was 135,595 tons, of which 135,235 tons were produced by agricultural households and 360 tons by large scale farms. Mtwara region reported a production of 94,882 tons (70.1 percent), Lindi 26,368 tons (19.5 percent) and Ruvuma 8,243 tons (6.1 percent), while Morogoro produced 15 tons (less than 0.1 percent). However, it is worth noting that, the major five cashew nuts producing regions accounted for 99.3 percent of the total production (Table 3.12).

**Table 3.12: Number of Households, Area Planted and Production of Cashew nuts During 2022/23 Agricultural Year, Mainland Tanzania**

Holding Category	Region	Number of Agricultural Holdings	Planted Area (ha)	Production (tons)
Agricultural Households	Dodoma	-	-	-
	Arusha	-	-	-
	Kilimanjaro	-	-	-
	Tanga	9,781	4,690	234
	Morogoro	2,532	25	15
	Pwani	25,623	23,506	4,659
	Dar es Salaam	3,633	7,502	537
	Lindi	92,784	259,449	26,368
	Mtwara	212,107	456,558	94,822
	Ruvuma	33,003	145,973	8,243
	Iringa	-	-	-
	Mbeya	-	-	-
	Singida	-	-	-
	Tabora	-	-	-
	Rukwa	-	-	-
	Kigoma	-	-	-
	Shinyanga	-	-	-
	Kagera	-	-	-
	Mwanza	-	-	-
	Mara	-	-	-
	Manyara	-	-	-
	Njombe	-	-	-
	Katavi	-	-	-
	Simiyu	-	-	-
	Geita	-	-	-
	Songwe	-	-	-
	<b>Mainland Tanzania</b>	<b>380,427</b>	<b>907,074</b>	<b>135,212</b>
Large Scale Farms	Mainland Tanzania	86	8,556	360
All Holdings	<b>Mainland Tanzania</b>		915,630	135,573

Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

“-” Withheld to avoid disclosing data for individual holdings or insufficient data available from the survey (Total includes withheld data)

### 3.5.4 Sugarcane

The results show that, 69,101 agricultural households engaged in growing sugarcane in the country, of which 64,406 were from Mainland Tanzania and 4,695 in Zanzibar. A total of 118,654 ha of sugarcane were planted, of which 29,145 ha were from agricultural households and 89,510 ha from large scale farms. Out of the area planted by agricultural households, 27,158 ha were from Mainland Tanzania and 1,987 ha from Zanzibar.

The total production of sugarcane was 3,580,573 tons, whereby large scale farms accounting for 84.9 percent. Confining production from large scale farms into Mainland Tanzania and Zanzibar, the recorded estimates were 3,015,872 tons and 25,336 tons respectively. Moreover, out the total quantity produced by agricultural households, 516,731 tons were from Mainland Tanzania and 22,634 tons from Zanzibar (Table 3.13).

**Table 3.13: Number of Agricultural Holdings, Area Planted, Production and Yield of Sugar cane by Region During 2022/23 Agricultural Year, Tanzania**

Holding Category	Region	Number of holdings	Planted Area (ha)	Production (tons)	Yield (tons/ha)
Agricultural Households	Dodoma	-	-	-	-
	Arusha	-	-	-	-
	Kilimanjaro	7,785	2,530	3,567	1.4
	Tanga	4,778	1,188	6,606	5.6
	Morogoro	18,085	11,603	303,918	26.2
	Pwani	-	-	-	-
	Dar es Salaam	2,438	16	456	28.8
	Lindi	-	-	-	-
	Mtwara	-	-	-	-
	Ruvuma	-	-	-	-
	Iringa	1,450	124	1,041	8.4
	Mbeya	-	-	-	-
	Singida	2,642	510	620	1.2
	Tabora	-	-	-	-
	Rukwa	3,450	677	41,866	61.8
	Kigoma	-	-	-	-
	Shinyanga	-	-	-	-
	Kagera	8,260	1,386	21,253	15.3
	Mwanza	710	146	447	3.1
	Mara	-	-	-	-
	Manyara	1,338	2,373	68,611	28.9
	Njombe	-	-	-	-
	Katavi	-	-	-	-
	Simiyu	-	-	-	-

Holding Category	Region	Number of holdings	Planted Area (ha)	Production (tons)	Yield (tons/ha)
	Geita	2,723	1,418	4,013	2.8
	Songwe	-	-	-	-
	<b>Mainland Tanzania</b>	<b>64,406</b>	<b>27,158</b>	<b>516,731</b>	<b>19.0</b>
	Kaskazini Unguja	705	312	8,158	26.1
	Kusini Unguja	565	138	850	6.1
	Mjini Magharibi	3,053	1,202	12,512	10.4
	Kaskazini Pemba	-	-	-	-
	Kusini Pemba	-	-	-	-
	<b>Zanzibar</b>	<b>4,695</b>	<b>1,987</b>	<b>22,634</b>	<b>11.4</b>
	<b>Tanzania</b>	<b>69,101</b>	<b>29,145</b>	<b>539,364</b>	<b>18.5</b>
Large Scale Farms	Mainland Tanzania	33	88,023	3,015,872	34.3
	Zanzibar	3	1,487	25,336	17.0
	<b>Tanzania</b>	<b>36</b>	<b>89,510</b>	<b>3,041,208</b>	<b>34.0</b>
All Holdings	Mainland Tanzania		115,181	3,532,603	30.7
	Zanzibar		3,473	47,970	13.8
	<b>Tanzania</b>		<b>118,654</b>	<b>3,580,573</b>	<b>30.2</b>

Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

“- “Withheld to avoid disclosing data for individual holdings or insufficient data available from the survey (Total includes withheld data).

### 3.5.5 Cloves

In Tanzania, clove is predominantly grown in Zanzibar. During the 2022/23 agricultural year, a total of 9,738 agricultural households reported to engage in clove production, of which 5,051 households were in Mainland Tanzania and 4,687 in Zanzibar. The total area planted with cloves was 5,406 ha, whereas 4,599 ha were from agricultural households. Out of the area planted by agricultural households, 1,673 ha were from Mainland Tanzania and 2,925 from Zanzibar. On the other hand, a total of 1,840 tons of cloves were produced, whereas Zanzibar accounted for 89.4 percent of the total production. Regional estimate showed that, Kaskazini Pemba produced 1,074 tons (65.4 percent), Kusini Pemba 462 tons (28.1 percent), Kusini Unguja 69 tons (4.2 percent) while Kaskazini Unguja had 37 tons (2.2 percent) (Table 3.14).

**Table 3.14: Number of Agricultural Holdings, Area Planted and Production of Cloves by Region During 2022/23 Agricultural Year, Tanzania**

Holding Category	Region	Number of Agricultural Holdings	Planted Area (ha)	Production (tons)
Agricultural Households	Dodoma	-	-	-
	Arusha	-	-	-
	Kilimanjaro	-	-	-
	Tanga	4,588	1,648	194
	Morogoro	-	-	-
	Pwani	-	-	-
	Dar es Salaam	-	-	-
	Lindi	-	-	-
	Mtwara	-	-	-
	Ruvuma	-	-	-
	Iringa	-	-	-
	Mbeya	-	-	-
	Singida	-	-	-
	Tabora	-	-	-
	Rukwa	-	-	-
	Kigoma	-	-	-
	Shinyanga	-	-	-
	Kagera	-	-	-
	Mwanza	-	-	-
	Mara	-	-	-
	Manyara	-	-	-
	Njombe	-	-	-
	Katavi	-	-	-
	Simiyu	-	-	-
	Geita	-	-	-
	Songwe	-	-	-
	<b>Mainland Tanzania</b>	<b>5,051</b>	<b>1,673</b>	<b>195</b>
	Kaskazini Unguja	614	166	37
	Kusini Unguja	1,159	316	69
	Mjini Magharibi	-	-	-
	Kaskazini Pemba	1,623	1,522	1,074
	Kusini Pemba	1,292	922	462
	<b>Zanzibar</b>	<b>4,687</b>	<b>2,925</b>	<b>1,642</b>
	<b>Tanzania</b>	<b>9,738</b>	<b>4,599</b>	<b>1,837</b>
Large Scale Farms	Mainland Tanzania	-	-	-
	Zanzibar	-	-	-
	<b>Tanzania</b>	-	-	-
All Holdings	Mainland Tanzania		1,685	198
	Zanzibar		3,721	1,642
	<b>Tanzania</b>		<b>5,406</b>	<b>1,840</b>

Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

“- “Withheld to avoid disclosing data for individual holdings or insufficient data available from the survey (Total includes withheld data)

### **3.6. Fruits and Vegetables**

#### **3.6.1 Banana**

In Tanzania, 1,086,464 agricultural households (1,003,125 in Mainland Tanzania and 83,338 in Zanzibar) were engaged in banana production. A total of 394,519 ha were planted with bananas, of which 394,052 ha were from agricultural households and 467 ha from large scale farms. From the total planted area by agricultural households, 371,019 ha were in Mainland Tanzania and 23,033 ha in Zanzibar. In Mainland Tanzania, Kagera region had the largest planted area of banana (177,926 ha; 48.0 percent), followed by Kilimanjaro (65,972 ha; 17.8 percent) and Mbeya (30,776 ha; 8.3 percent), while Singida reported 345 ha (0.1 percent). In Zanzibar, Kusini Pemba recorded the largest planted area of banana (9,158 ha; 39.8 percent), followed by Mjini Magharibi (3,900 ha; 16.9 percent), while Kaskazini Pemba planted 2,738 ha (11.9 percent).

Production of banana was 1,352,695 tons, whereby agricultural households produced 1,352,281 tons, while large scale farms had 414 tons. Out of the quantity produced by agricultural households, 1,294,765 tons were in Mainland Tanzania and 57,516 tons in Zanzibar. In Mainland Tanzania, Kagera region recorded the largest production (672,236 tons; 51.9 percent), followed by Mbeya (227,717 tons; 17.6 percent) and Kilimanjaro (157,299 tons; 12.1 percent), while Shinyanga region produced 525 tons (less than 0.1 percent). In Zanzibar, Kusini Pemba had the largest production (14,441 tons; 25.1 percent), followed by Kusini Unguja (13,945 tons; 24.2 percent). However, Kaskazini Pemba produced the least amount (5,508 tons; 9.6 percent) (Table 3.15).

**Table 3.15: Number of Holdings, Area Planted and Production of Banana by Region During 2022/23 Agricultural Year, Tanzania**

Holding Category	Region	Number of households	Planted Area (ha)	Production (tons)
Agricultural Households	Dodoma	-	-	-
	Arusha	19,169	6,871	9,413
	Kilimanjaro	169,226	65,972	157,299
	Tanga	34,732	8,455	15,198
	Morogoro	76,099	27,441	71,742
	Pwani	28,429	2,621	6,121
	Dar es Salaam	22,090	26,933	46,583
	Lindi	-	-	-
	Mtwara	-	-	-
	Ruvuma	41,225	6,794	30,823
	Iringa	10,014	860	2,582
	Mbeya	70,269	30,776	227,717
	Singida	8,615	345	794
	Tabora	-	-	-
	Rukwa	-	-	-
	Kigoma	-	-	-
	Shinyanga	5,518	440	525
	Kagera	436,346	177,926	672,236
	Mwanza	18,709	1,133	2,092
	Mara	15,499	6,513	16,866
	Manyara	10,184	2,785	26,330
	Njombe	-	-	-
	Katavi	-	-	-
	Simiyu	-	-	-
	Geita	22,395	3,598	3,784
	Songwe	7,620	1,078	2,941
	<b>Mainland Tanzania</b>	<b>1,003,125</b>	<b>371,019</b>	<b>1,294,765</b>
	Kaskazini Unguja	10,881	3,617	12,291
	Kusini Unguja	15,544	3,620	13,945
	Mjini Magharibi	22,784	3,900	11,331
	Kaskazini Pemba	12,266	2,738	5,508
	Kusini Pemba	21,863	9,158	14,441
	<b>Zanzibar</b>	<b>83,338</b>	<b>23,033</b>	<b>57,516</b>
	<b>Tanzania</b>	<b>1,086,464</b>	<b>394,052</b>	<b>1,352,281</b>
Large Scale Farms	Mainland Tanzania	38	464	413
	Zanzibar	4	3	1
	<b>Tanzania</b>	<b>42</b>	<b>467</b>	<b>414</b>
All Holdings	Mainland Tanzania		371,483	1,295,178
	Zanzibar		23,036	57,517
	<b>Tanzania</b>		<b>394,519</b>	<b>1,352,695</b>

Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

“- “Withheld to avoid disclosing data for individual holdings or insufficient data available from the survey (Total includes withheld data)



### 3.6.2 Avocado

In Tanzania, 268,424 agricultural households (266,022 Mainland Tanzania and 2,403 in Zanzibar) were engaged in avocado production. A total of 41,059 ha was planted with avocado, of which 36,731 ha were planted by agricultural households and 4,328 ha by large scale farms. From the total planted area managed by agricultural households, 36,516 ha were in Mainland Tanzania and 216 ha in Zanzibar. In Mainland Tanzania, Kagera region had the largest planted area with avocado (14,540 ha; 39.8 percent), followed by Njombe (7,446 ha; 20.4 percent) and Mbeya (5,693 ha; 15.6 percent), while Morogoro reported 40 ha (0.1 percent). In Zanzibar, the largest planted area with avocado was reported in Kusini Unguja (186 ha; 86.5 percent) and Kaskazini Pemba reported a planted area of 20 ha (9.3 percent).

Production of avocado was 75,552 tons, whereby agricultural households produced 67,286 tons and large scale farms 8,266 tons. Out of the quantity produced by agricultural households, 66,568 tons were in Mainland Tanzania and 718 tons in Zanzibar. In Mainland Tanzania, Kagera region recorded the largest production (33,373 tons; 50.1 percent), followed by Kilimanjaro (11,586 tons; 17.4 percent) and Mbeya (10,314 tons; 15.5 percent). In Zanzibar, Kusini Unguja had the largest production (694 tons; 96.7 percent), followed by Kaskazini Pemba (8 tons; 1.2 percent) (Table 3.16).

**Table 3.16: Number of Agricultural Holdings, Area Planted and Production of Avocado by Region During 2022/23 Agricultural Year, Tanzania**

Holding Category	Region	Number of Agricultural Holdings	Planted Area (ha)	Production (tons)
Agricultural Households	Dodoma	-	-	-
	Arusha	2,320	340	785
	Kilimanjaro	58,649	5,242	11,586
	Tanga	3,218	261	170
	Morogoro	2,372	40	166
	Pwani	-	-	-
	Dar es Salaam	-	-	-
	Lindi	-	-	-
	Mtwara	-	-	-
	Ruvuma	6,669	647	645
	Iringa	7,404	346	461
	Mbeya	13,801	5,693	10,314
	Singida	-	-	-
	Tabora	-	-	-
	Rukwa	-	-	-
	Kigoma	-	-	-
	Shinyanga	-	-	-
	Kagera	130,160	14,540	33,373
	Mwanza	7,126	557	2,142
	Mara	2,800	285	1,624
	Manyara	3,767	96	687
	Njombe	12,680	7,446	2,916
	Katavi	-	-	-
	Simiyu	-	-	-
	Geita	8,175	224	488
	Songwe	4,033	260	1,111
	<b>Mainland Tanzania</b>	<b>266,022</b>	<b>36,516</b>	<b>66,568</b>
	Kaskazini Unguja	-	-	-
	Kusini Unguja	1,724	186	694
	Mjini Magharibi	-	-	-
	Kaskazini Pemba	352	20	8
	Kusini Pemba	-	-	-
	<b>Zanzibar</b>	<b>2,403</b>	<b>216</b>	<b>718</b>
	<b>Tanzania</b>	<b>268,424</b>	<b>36,731</b>	<b>67,286</b>
Large Scale Farms	Mainland Tanzania	40	4,328	8,266
	Zanzibar	-	-	-
	<b>Tanzania</b>	<b>40</b>	<b>4,328</b>	<b>8,266</b>
All Holdings	Mainland Tanzania		40,844	74,835
	Zanzibar		216	718
	<b>Tanzania</b>		<b>41,059</b>	<b>75,552</b>

Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

“- “Withheld to avoid disclosing data for individual holdings or insufficient data available from the survey (Total includes withheld data)

### 3.6.3 Mango

Mango production in Tanzania involved 303,766 agricultural households, whereby 292,931 households were in Mainland Tanzania and 10,835 in Zanzibar. The total area planted with mango was 91,073 ha, of which 90,305 ha were occupied by agricultural households and 768 ha by large scale farms. Out of the total planted area by agricultural households, 87,977 ha were in Mainland Tanzania and 2,328 ha in Zanzibar. The total production of mango was 566,226 tons, out of which 565,362 tons were produced by agricultural households and 864 tons by large scale farms. From the production of agricultural households, 538,401 tons were in Mainland Tanzania and 26,961 tons in Zanzibar (Table 3.17).

**Table 3.17: Number of Holdings, Area Planted and Production of Mango by Region During 2022/23 Agricultural Year, Tanzania**

Holding Category	Region	Number of Agricultural Holdings	Planted Area (ha)	Production (tons)
Agricultural Households	Mainland Tanzania	292,931	87,977	538,401
	Zanzibar	10,835	2,328	26,961
	Tanzania	303,766	90,305	565,362
Large Scale Farms	Mainland Tanzania	34	767	864
	Zanzibar	-	-	-
	Tanzania	36	768	864
<b>All Holdings</b>	<b>Mainland Tanzania</b>		<b>88,744</b>	<b>539,265</b>
	<b>Zanzibar</b>		<b>2,329</b>	<b>26,961</b>
	<b>Tanzania</b>		<b>91,073</b>	<b>566,226</b>

Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

“- “Withheld to avoid disclosing data for individual holdings or insufficient data available from the survey (Total includes withheld data)

### 3.6.4 Orange

The production of oranges in Tanzania involved 97,657 agricultural households. Out of these, 90,772 were in Mainland Tanzania and 6,885 in Zanzibar. The total planted area with oranges was 39,764 ha, of which 39,658 ha were from agricultural households and 106 ha from large scale farms. Out of the total planted area by agricultural households, 38,328 ha were in Mainland Tanzania and 1,330 ha in Zanzibar. In Mainland Tanzania, Tanga region had the largest planted area with orange (22,617 ha; 59.0 percent), followed by Pwani (9,627 ha; 25.1 percent), while Shinyanga region reported 36 ha (0.1 percent). In Zanzibar, Kusini Unguja had the largest planted area (762 ha; 57.3 percent), followed by Mjini Magharibi (306 ha; 23.0 percent); whereas Kaskazini Unguja reported a planted area of 213 ha (16.0 percent).

A total of 110,463 tons of orange were produced in Tanzania, out of which agricultural households produced 110,146 tons and 317 tons were produced by large scale farms. Out of the total production managed by agricultural households, 106,478 tons were in Mainland Tanzania and 3,668 tons in Zanzibar. In Mainland Tanzania, Tanga region had the largest production of orange (56,980 tons; 53.5 percent), followed by Pwani (26,456 tons; 24.8 percent), while Kilimanjaro reported 60 tons (0.1 percent). In Zanzibar, the largest production was recorded in Kusini Unguja (2,537 tons; 69.2 percent), followed by Kaskazini Unguja (627 tons; 17.1 percent), while Mjini Magharibi reported 404 tons (11.0 percent) (Table 3.18).

**Table 3.18: Number of Holdings, Area Planted and Production of Oranges by Region During 2022/23 Agricultural Year, Tanzania**

Holding Category	Region	Number of Agricultural Holdings	Planted Area (ha)	Production (tons)
Agricultural Households	Dodoma	-	-	-
	Arusha	-	-	-
	Kilimanjaro	3,191	168	60
	Tanga	19,285	22,617	56,980
	Morogoro	9,905	150	2,126
	Pwani	7,537	9,627	26,456
	Dar es Salaam	5,139	696	577
	Lindi	-	-	-
	Mtwara	-	-	-
	Ruvuma	1,838	617	396
	Iringa	-	-	-
	Mbeya	-	-	-
	Singida	-	-	-
	Tabora	-	-	-
	Rukwa	-	-	-
	Kigoma	-	-	-
	Shinyanga	3,612	36	167
	Kagera	11,573	1,492	3,379
	Mwanza	12,505	471	7,003
	Mara	-	-	-
	Manyara	2,248	61	232
	Njombe	-	-	-
	Katavi	-	-	-
	Simiyu	-	-	-
	Geita	9,926	1,043	1,068
	Songwe	2,411	96	329
	<b>Mainland Tanzania</b>	<b>90,772</b>	<b>38,328</b>	<b>106,478</b>
	Kaskazini Unguja	1,323	213	627
	Kusini Unguja	4,113	762	2,537
	Mjini Magharibi	1,102	306	404
	Kaskazini Pemba	-	-	-
	Kusini Pemba	-	-	-
	<b>Zanzibar</b>	<b>6,885</b>	<b>1,330</b>	<b>3,668</b>
	<b>Tanzania</b>	<b>97,657</b>	<b>39,658</b>	<b>110,146</b>
Large Scale Farms	Mainland Tanzania	21	105	310
	Zanzibar	-	-	-
	<b>Tanzania</b>	<b>22</b>	<b>106</b>	<b>317</b>
All Holdings	Mainland Tanzania		38,433	106,788
	Zanzibar		1,331	3,675
	<b>Tanzania</b>		<b>39,764</b>	<b>110,463</b>

Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

“- “Withheld to avoid disclosing data for individual holdings or insufficient data available from the survey (Total includes withheld data)

### 3.6.5 Pineapple

In Tanzania, 24,015 agricultural households were engaged in growing pineapple, whereby 18,816 were in Mainland Tanzania and 5,199 in Zanzibar. The total planted area with pineapple was 5,426 ha, of which 5,243 ha were from agricultural households and 183 ha from large scale farms. Out of the total planted area by agricultural households, 3,943 ha were in Mainland Tanzania and 1,301 ha in Zanzibar. Results further reveal that, production of pineapple in Tanzania was 5,075 tons, whereby, agricultural households produced 4,467 tons and 608 tons were produced by large scale farms. Out of the total production by agricultural households, 3,906 tons were from Mainland Tanzania and 561 tons from Zanzibar (Table 3.19).

**Table 3.19: Number of Holdings, Area Planted and Production of Pineapple by Region During 2022/23 Agricultural Year, Tanzania**

Holding Category	Region	Number of Agricultural Holdings	Planted Area (ha)	Production (tons)
Agricultural Households	Dodoma	-	-	-
	Arusha	-	-	-
	Kilimanjaro	-	-	-
	Tanga	-	-	-
	Morogoro	3,869	43	156
	Pwani	3,337	818	328
	Dar es Salaam	2,207	1,824	2,865
	Lindi	-	-	-
	Mtwara	-	-	-
	Ruvuma	-	-	-
	Iringa	-	-	-
	Mbeya	-	-	-
	Singida	-	-	-
	Tabora	-	-	-
	Rukwa	-	-	-
	Kigoma	-	-	-
	Shinyanga	-	-	-
	Kagera	6,290	716	243
	Mwanza	-	-	-
	Mara	-	-	-
	Manyara	-	-	-
	Njombe	-	-	-
	Katavi	-	-	-
	Simiyu	-	-	-
	Geita	-	-	-
	Songwe	-	-	-
	<b>Mainland Tanzania</b>	<b>18,816</b>	<b>3,943</b>	<b>3,906</b>
	Kaskazini Unguja	795	127	108
	Kusini Unguja	720	266	125
	Mjini Magharibi	2,045	498	150
	Kaskazini Pemba	754	171	57
	Kusini Pemba	886	239	121
	<b>Zanzibar</b>	<b>5,199</b>	<b>1,301</b>	<b>561</b>
	<b>Tanzania</b>	<b>24,015</b>	<b>5,243</b>	<b>4,467</b>
Large Scale Farms	Mainland Tanzania	6	183	608
	Zanzibar	-	-	-
	<b>Tanzania</b>	<b>6</b>	<b>183</b>	<b>608</b>
All Holding	Mainland Tanzania		4,126	4,514
	Zanzibar		1,301	561
	<b>Tanzania</b>		<b>5,426</b>	<b>5,075</b>

Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

“- “Withheld to avoid disclosing data for individual holdings or insufficient data available from the survey (Total includes withheld data)

### 3.6.6 Onion

During the 2022/23 agricultural year, a total of 38,007 agricultural households engaged in onion production, whereas 37,634 were from Mainland Tanzania and 373 from Zanzibar. An area of 18,197 ha was planted with onion by agricultural households and 27 ha by large scale farms, making a total planted area of 18,224 ha. Out of the total planted area by agricultural households, 18,157 ha were in Mainland Tanzania and 40 ha in Zanzibar. A total of 13,537 ha, equivalent to 74.3 percent of the planted area was harvested, whereby 13,524 ha (74.3 percent) were harvested by agricultural households and 13 ha (47.2 percent) by large scale farms.

Regarding production, the results show that 21,259 tons of onion were produced, of which, 21,230 tons were produced by agricultural households and 29 tons by large scale farms. On the other hand, the reported national average yield for onion was 1.6 tons/ha. For agricultural households, yield averaged 1.6 tons/ha while for large scale farms it was 2.3 tons/ha (Table 3.20).

**Table 3.20: Area Planted, Area Harvested, Production and Yield of Onion During 2022/23 Agricultural Year, Tanzania**

Holding Category	Area	Number of households	Area Planted (Ha)	Area Harvested (Ha)	Percent of Area Harvested	Production (Tons)	Yield (Tons/Ha)
Agricultural Household	Mainland Tanzania	37,634	18,157	13,524	74.5	21,230	1.6
	Zanzibar	373	40	-	-	-	-
	Tanzania	38,007	18,197	13,524	74.3	21,230	1.6
Large Scale Farms	Mainland Tanzania	4	27	13	47.2	29	2.3
	Zanzibar	-	-	-	-	-	-
	Tanzania	4	27	13	47.2	29	2.3
All Holdings	Mainland Tanzania		18,184	13,537	74.4	21,259	1.6
	Zanzibar		40	-	-	-	-
	Tanzania		18,224	13,537	74.3	21,259	1.6

Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

“- “Withheld to avoid disclosing data for individual holdings or insufficient data available from the survey (Total includes withheld data)

### 3.6.7 Tomato

In Tanzania, a total of 119,811 agricultural households were involved in tomato production, of which, 109,520 were in Mainland Tanzania and 10,291 in Zanzibar. The findings depict that, a total of 44,204 ha was planted with tomato, whereas 44,145 ha was planted by agricultural households and 59 ha by large scale farms. Out of the total area planted by agricultural households, 40,992 ha were in Mainland Tanzania and 3,153 ha in Zanzibar.

Moreover, a total of 32,834 ha (74.3 percent) of the area planted with tomato was harvested; agricultural households harvested 32,778 ha, equivalent to 73.3 percent of the planted area and 55 ha (93.7 percent) for large scale farms. Considering the area harvested by agricultural households, 29,965 ha (73.1 percent) was in Mainland Tanzania and 2,813 ha (89.2 percent) in Zanzibar. Regional-wise, Songwe harvested 1,065 ha (98.9 percent) of the area planted with tomato, Mwanza (3,869 ha, 93.2 percent) and Arusha (384 ha, 91.4 percent), while Tanga harvested 1,471 ha, equivalent to 46.4 percent of the planted area. On the other hand, Kusini Unguja harvested the largest part of the area planted (245 ha; 96.5 percent), followed by Kusini Pemba (1,039 ha; 96.0 percent) and Mjini Magharibi (689 ha; 89.3 percent), while Kaskazini Pemba had 516 ha (79.6 percent).

Furthermore, a total of 378,778 tons of tomato were produced, of which 378,318 tons by agricultural households and 460 tons by large scale farms. Out the total production by agricultural households, 343,820 tons were in Mainland Tanzania and 34,498 tons in Zanzibar. Further estimates on regional production show that, Iringa accounted for the largest quantity of tomatoes in Mainland Tanzania (89,769 tons; 26.1 percent), followed by Kilimanjaro (44,870 tons; 13.1 percent) and Mwanza (33,548 tons, 9.8 percent), whereas Songwe had the least share in the aggregate production (1,267 tons; 0.4 percent). In Zanzibar, Kusini Pemba had the largest production (20,828 tons; 60.4 percent), followed by Kaskazini Pemba (5,573 tons; 16.2 percent), while Kusini Unguja recorded the small production, with 1,741 tons (5.0 percent). Additionally, national yield for tomato was 11.5 tons/ha, with Mainland Tanzania recording a yield of 11.5 tons/ha and 12.3 tons/ha in Zanzibar (Table 3.21).

**Table 3.21: Area Planted, Area Harvested, Production and Yield of Tomato During 2022/23 Agricultural Year, Tanzania**

Holding Category	Region	Number of households	Area Planted (ha)	Area Harvested (ha)	Percent of Harvested Area (ha)	Production (tons)	Yield (tons/ha)
Agricultural Households	Dodoma	-	-	-	-	-	-
	Arusha	2,126	420	384	91.4	12,236	31.9
	Kilimanjaro	7,206	3,530	1,803	51.1	44,870	24.9
	Tanga	10,791	3,173	1,471	46.4	18,950	12.9
	Morogoro	6,903	1,125	955	84.8	9,245	9.7
	Pwani	5,494	346	221	63.8	1,997	9.0
	Dar es Salaam	-	-	-	-	-	-
	Lindi	3,874	1,759	846	48.1	9,939	11.7
	Mtwara	3,061	3,096	2,552	82.4	3,920	1.5
	Ruvuma	-	-	-	-	-	-
	Iringa	8,542	4,319	3,835	88.8	89,769	23.4
	Mbeya	4,523	3,079	2,457	79.8	13,013	5.3
	Singida	4,132	375	201	53.5	2,494	12.4
	Tabora	5,506	1,446	1,106	76.5	6,358	5.7
	Rukwa	-	-	-	-	-	-
	Kigoma	-	-	-	-	-	-
	Shinyanga	3,522	1,909	1,292	67.6	25,374	19.6
	Kagera	9,542	2,390	1,576	65.9	14,511	9.2
	Mwanza	9,067	4,153	3,869	93.2	33,548	8.7
	Mara	5,234	2,926	1,898	64.9	12,206	6.4
	Manyara	1,583	600	386	64.3	6,908	17.9
	Njombe	-	-	-	-	-	-
	Katavi	2,489	199	178	89.4	4,157	23.3
	Simiyu	-	-	-	-	-	-
	Geita	7,502	3,885	2,908	74.8	16,962	5.8
	Songwe	1,190	1,077	1,065	98.9	1,267	1.2
	<b>Mainland Tanzania</b>	<b>109,520</b>	<b>40,992</b>	<b>29,965</b>	<b>73.1</b>	<b>343,820</b>	<b>11.5</b>
	Kaskazini Unguja	2,271	398	325	81.5	2,985	9.2
	Kusini Unguja	3,223	254	245	96.5	1,741	7.1
	Mjini Magharibi	1,287	771	689	89.3	3,371	4.9
	Kaskazini Pemba	1,816	648	516	79.6	5,573	10.8
	Kusini Pemba	1,693	1,082	1,039	96.0	20,828	20.1
	<b>Zanzibar</b>	<b>10,291</b>	<b>3,153</b>	<b>2,813</b>	<b>89.2</b>	<b>34,498</b>	<b>12.3</b>
	<b>Tanzania</b>	<b>119,811</b>	<b>44,145</b>	<b>32,778</b>	<b>74.3</b>	<b>378,318</b>	<b>11.5</b>
Large scale farms	Mainland Tanzania	26	57	54	93.5	437	8.2
	Zanzibar	4	2	2	100.0	22	12.3
	<b>Tanzania</b>	<b>30</b>	<b>59</b>	<b>55</b>	<b>93.7</b>	<b>460</b>	<b>8.3</b>
All Holdings	Mainland Tanzania		41,049	30,019	73.1	344,258	11.5
	Zanzibar		3,155	2,815	89.2	34,520	12.3
	<b>Tanzania</b>		<b>44,204</b>	<b>32,834</b>	<b>74.3</b>	<b>378,778</b>	<b>11.5</b>

Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

“- “Withheld to avoid disclosing data for individual holdings or insufficient data available from the survey (Total includes withheld data)



### 3.6.8 Okra

During 2022/23 agricultural year, a total of 76,213 agricultural households grew okra; 71,925 households from Mainland Tanzania and 4,288 in Zanzibar. Results depict that, 13,338 ha was planted with okra, with agricultural household planting an area of 13,334 ha and 4 ha by large scale farms. Out of the total area planted by agricultural households, 12,718 ha were in Mainland Tanzania and 616 in Zanzibar. Regarding the proportion of harvested land area, statistics show that 78.8 percent of the area planted with okra was harvested, and in absolute terms, aggregated to 10,508 ha. Out of the total area harvested, agricultural households had 10,508 ha, accounting for 78.8 percent of the total planted area and large scale farms had 4 ha (100 percent). From the area harvested by agricultural households, 10,000 ha (78.6 percent) was in Mainland Tanzania and Zanzibar 505 ha (82.0 percent) in Zanzibar.

National estimates of okra production summed to 16,855 tons, whereby agricultural households reported production of 16,813 tons and large scale farms 42 tons. Out the total quantity produced by agricultural households, Mainland Tanzania had 15,951 tons and Zanzibar 862 tons. Furthermore, regional estimates indicate that Dar es Salaam accounted for the largest share of production in Mainland Tanzania, contributing 3,148 tons (19.7 percent), followed by Tanga (2,912 tons; 18.3 percent) and Pwani (2,735 tons; 17.1 percent), while Mtwara produced 264 tons (1.7 percent). In Zanzibar, Kusini Unguja had the highest share of production (401 tons; 46.5 percent), followed by Kaskazini Unguja (226 tons; 26.3 percent), and Kaskazini Pemba (128 tons; 14.8 percent), while Mjini Magharibi recorded the lowest production (36 tons; 4.2 percent). Concerning yield, the result showed a national average of 1.6 tons/ha, whereas Mainland Tanzania had an average of 1.6 tons/ha and Zanzibar 1.7 tons/ha (Table 3.22).

**Table 3.22: Area Planted, Area Harvested, Production and Yield of Okra During 2022/23 Agricultural Year, Tanzania**

Holding Category	Region	Number of households	Area Planted (ha)	Area Harvested (ha)	Percent of Area Harvested	Production (tons)	Yield (tons/ha)
Agricultural Households	Dodoma	-	-	-	-	-	-
	Arusha	-	-	-	-	-	-
	Kilimanjaro	6,653	1,101	771	70.1	1,733	2.2
	Tanga	8,097	2,882	2,619	90.9	2,912	1.1
	Morogoro	9,402	865	678	78.3	293	0.4
	Pwani	17,116	2,215	1,492	67.4	2,735	1.8
	Dar es Salaam	7,632	1,099	771	70.2	3,148	4.1
	Lindi	-	-	-	-	-	-
	Mtwara	3,153	1,036	617	59.5	264	0.4
	Ruvuma	-	-	-	-	-	-
	Iringa	721	243	243	100.0	1,144	4.7
	Mbeya	-	-	-	-	-	-
	Singida	3,664	329	116	35.3	670	5.8
	Tabora	-	-	-	-	-	-
	Rukwa	-	-	-	-	-	-
	Kigoma	-	-	-	-	-	-
	Shinyanga	-	-	-	-	-	-
	Kagera	-	-	-	-	-	-
	Mwanza	2,662	487	437	89.8	1,504	3.4
	Mara	3,056	1,343	1,314	97.8	929	0.7
	Manyara	1,313	142	113	79.2	383	3.4
	Njombe	-	-	-	-	-	-
	Katavi	-	-	-	-	-	-
	Simiyu	-	-	-	-	-	-
	Geita	-	-	-	-	-	-
	Songwe	-	-	-	-	-	-
	<b>Mainland Tanzania</b>	<b>71,925</b>	<b>12,718</b>	<b>10,000</b>	<b>78.6</b>	<b>15,951</b>	<b>1.6</b>
	Kaskazini	1,066	134	126	94.1	226	1.8
	Unguja	755	277	218	78.6	401	1.8
	Mjini	1,253	78	37	48.0	36	1.0
	Magharibi	628	54	50	93.8	128	2.5
	Pemba	586	73	73	100.0	71	1.0
	<b>Zanzibar Tanzania</b>	<b>4,288</b>	<b>616</b>	<b>505</b>	<b>82.0</b>	<b>862</b>	<b>1.7</b>
	<b>Tanzania</b>	<b>76,213</b>	<b>13,334</b>	<b>10,504</b>	<b>78.8</b>	<b>16,813</b>	<b>1.6</b>
Large scale farms	Mainland Tanzania	8	2	2	95.7	39	19.4
	Zanzibar	3	2	2	100.0	3	1.5
	<b>Tanzania</b>	<b>11</b>	<b>4</b>	<b>4</b>	<b>97.8</b>	<b>42</b>	<b>10.4</b>
All Holdings	Mainland Tanzania		12,721	10,002	78.6	15,990	1.6
	Zanzibar		618	507	82.0	865	1.7
	<b>Tanzania</b>		<b>13,338</b>	<b>10,508</b>	<b>78.8</b>	<b>16,855</b>	<b>1.6</b>

Source: Annex Table (5-1) in Statistical Tables of AASS 2022/23

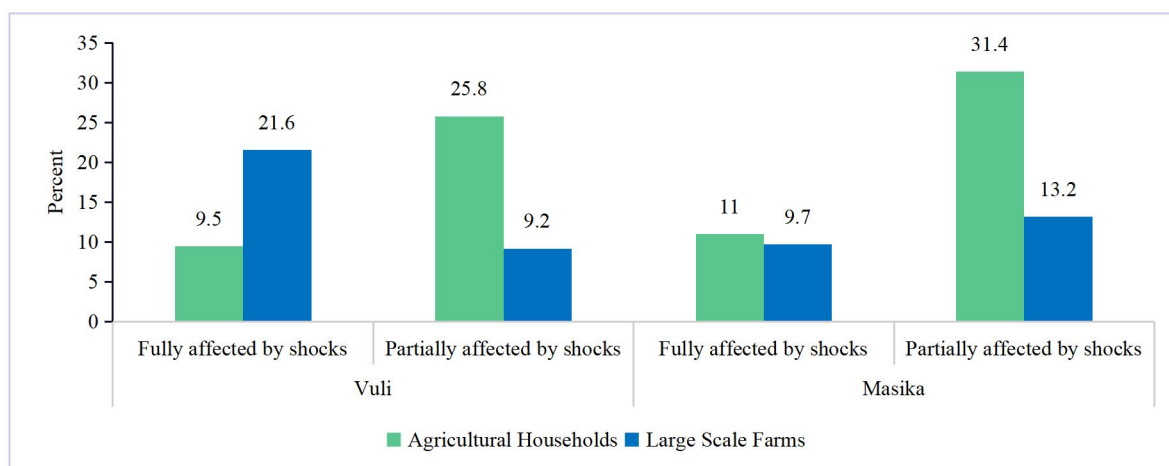
“- “Withheld to avoid disclosing data for individual holdings or insufficient data available from the survey (Total includes withheld data)

### 3.6 Shocks on Area Planted

Shock is a sudden and disruptive change in conditions that negatively affects crop growth, yield, or quality. Among others, climate related shocks lead to drought and water scarcity, flooding and excess rain, extreme temperatures, disrupted growing seasons, and reduced nutritional value of crops. On the other hand, none climatic shocks include crop theft, plant pests and diseases, fires, animal, and bird damage. A shock, or a combination of shocks, may have a devastating impact on crop production and farm economy, particularly among the agricultural households. Furthermore, depending on their magnitude, climate-related shocks can affect the production either fully or partially. In this regard, a fully affected area is associated with getting zero harvests out of the total planted area, while a partially affected area is related to losing a portion of the harvested area. In the context of AASS 2022/23, fully affected and partially affected areas were the result of climatic shocks, non-climatic shocks, or a combination of the two.

During the 2022/23 agricultural year, shocks in agricultural production were reported in both short and long rainy seasons. In the short rainy season, 516,763 ha equivalent to 9.5 percent of the total planted area by agricultural households was fully affected by shocks, whereas 1,404,401 ha (25.8 percent) were partially affected. For large scale farms, 2,417 ha (21.6 percent) were fully affected, while 1,030 ha (9.2 percent) were partially affected. In the long rainy season, out of the total area planted by agricultural households, 910,318 ha (11.0 percent) were fully affected and 2,589,496 ha (31.4 percent) were partially affected. In the same season, out of the total area planted by large scale farms, 3,502 ha (9.7 percent) were fully affected, and 4,783 ha (13.2 percent) were partially affected (Figure 3.31).

**Figure 3.31: Percentage of the Area Planted Affected by Shocks During 2022/23 Agricultural Year, Tanzania**



Source: Annex Table 5-3 in Statistical Tables of AASS 2022/23

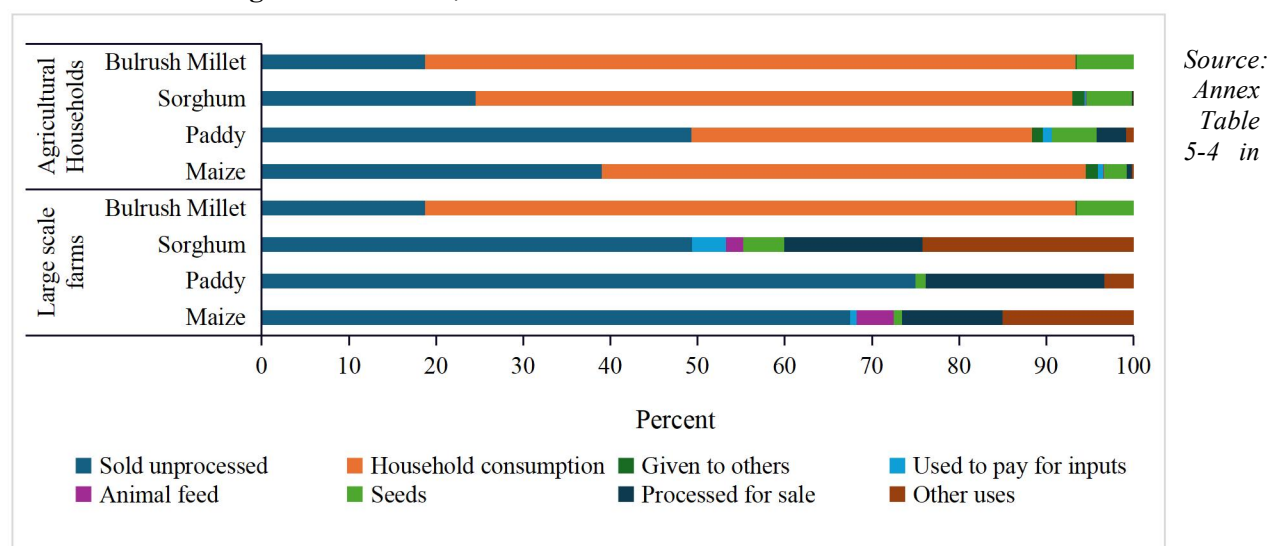
### 3.7 Crop Harvest Uses

This subsection presents information on how the agricultural households used their harvested crops during 2022/23 agricultural year. The results presented in this section are based on the agricultural household and large scale farms. In this report, crop use was categorized into eight (8) groups; sold unprocessed, households' consumption, given to others, used to pay for inputs, animal feeds, seeds, processed and other uses.

#### 3.7.1 Cereals

The findings indicate that most of the produced cereals were either consumed by households or sold unprocessed with aggregate of at least 88.0 percent for each cereal crop, whereas the rest of the uses for each crop was less than 10.0 percent. Among the cereals, crops that had the largest proportion consumed by households were bulrush millet (74.6 percent), sorghum (68.5 percent), and maize (55.5 percent), whereas paddy had the highest percentage sold unprocessed (49.3 percent). For large scale farms, most of the harvests were sold unprocessed. Paddy had the highest percent (75.0 percent), followed by maize (67.5 percent) and sorghum (49.4 percent) (Figure 3.32).

**Figure 3.32: Percentage Distribution of Crop Harvest Uses for Cereals During 2022/23 Agricultural Year, Tanzania**

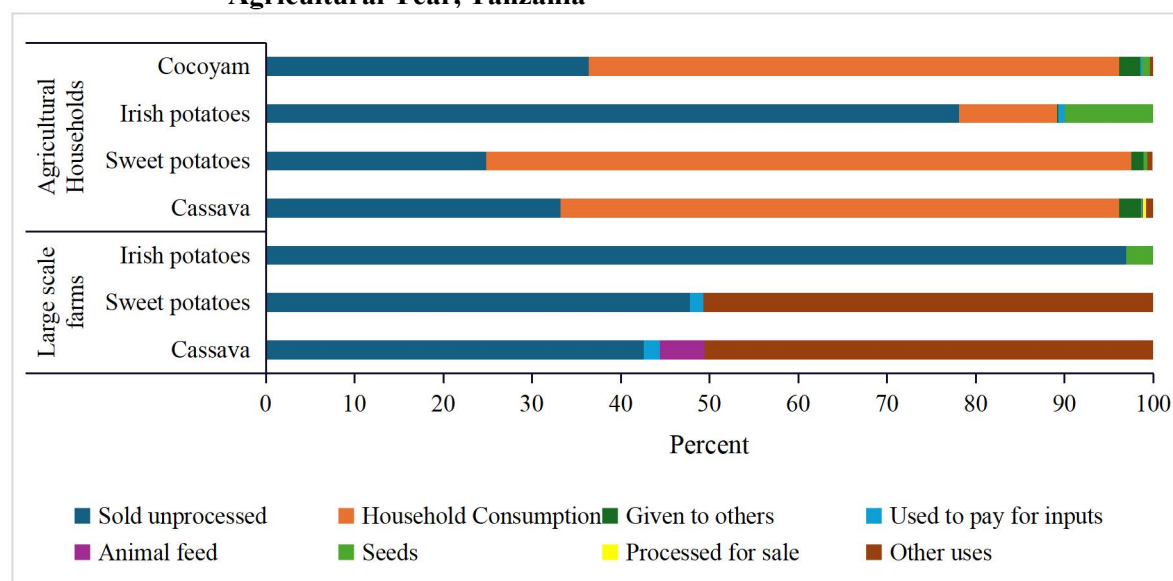


Statistical Tables of AASS 2022/23

### 3.7.2 Roots and Tuber Crops

Among the roots and tubers, most of the crops produced by agricultural households were used for household consumption (sweet potatoes 72.7 percent, cassava 62.9 percent and cocoyam 59.7 percent). Exception was on irish potatoes whereas its large proportion (78.1 percent) was sold unprocessed and 10.0 percent used as seeds. For large scale farms, most of the harvested irish potatoes (96.9 percent) and cassava (42.6 percent) were sold unprocessed, while 50.7 percent of sweet potatoes had other uses (Figure 3.33).

**Figure 3.33: Percentage Distribution of Crop Harvest Uses for Cereals During 2022/23 Agricultural Year, Tanzania**

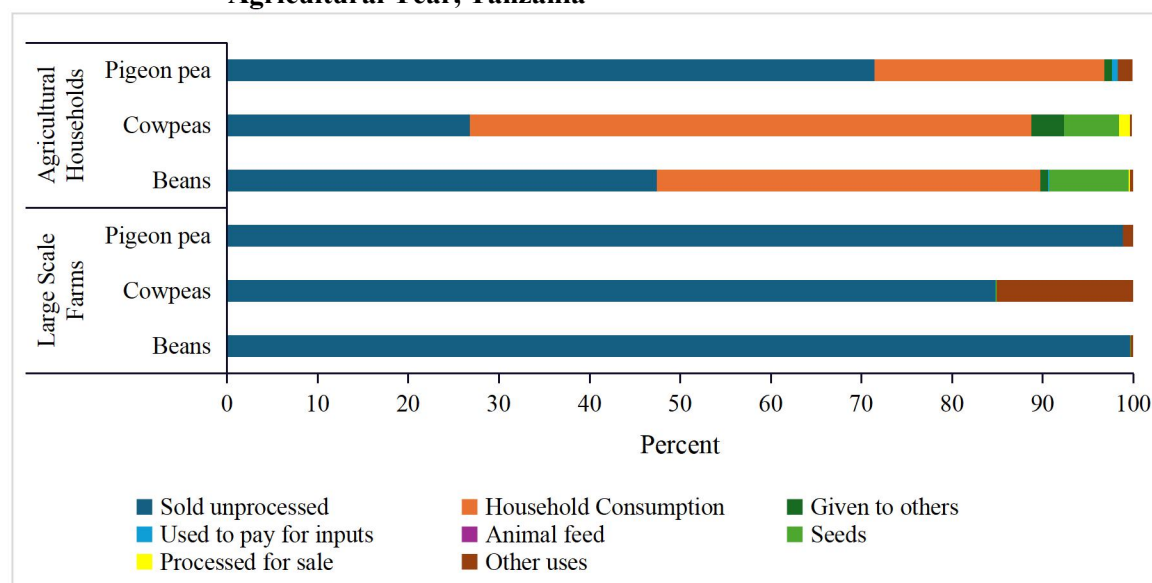


Source: Annex Table 5-4 in Statistical Tables of AASS 2022/23

### 3.7.3 Pulses

Major uses of pulses as reported by agricultural households were for household consumption and selling unprocessed. Cowpeas was the leading pulse crop consumed by households (61.9 percent), while pigeon peas were mostly sold unprocessed (71.4 percent). For large scale farms, at least 85 percent of the pulses were sold unprocessed, while the remaining portion had other uses (Table 3.34).

**Figure 3.34: Percentage Distribution of Crop Harvest Uses for Pulses During 2022/23 Agricultural Year, Tanzania**



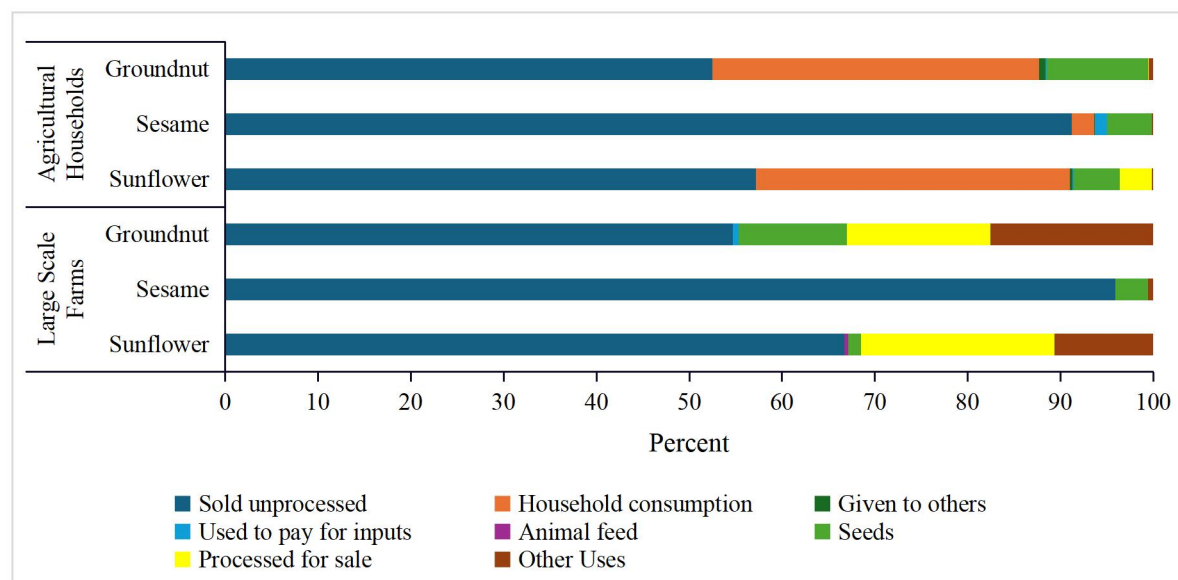
Source: Annex Table 5-4 in Statistical Tables of AASS 2022/23

### 3.7.4 Oil seeds and nuts

The findings indicate that, most of the produced oil seeds and nuts by agricultural households were sold unprocessed; sesame (91.2 percent), sunflower (57.2 percent) and groundnut (52.5 percent). Household consumption emerged as the second-best use of oil seeds, with at least one-third of sunflower and groundnuts being reserved for that purpose. A relatively small proportion of oil seeds and nuts were used for seeds, whereas groundnut had 10.9 percent of its harvest in this category.

Similarly, for large scale farms, most of the harvests were sold unprocessed. Sesame had the highest proportion (95.9 percent), followed by sunflower (66.7 percent) and groundnuts (54.7 percent). The remaining portion of sesame was used for seeds (3.5 percent) and 0.6 percent for other uses, while for sunflower and groundnuts, a large part of the remaining proportion was processed for sales and reserved for other uses (Table 3.35).

**Figure 3.35: Percentage Distribution of Crop Harvest Uses for Pulses During 2022/23 Agricultural Year, Tanzania**

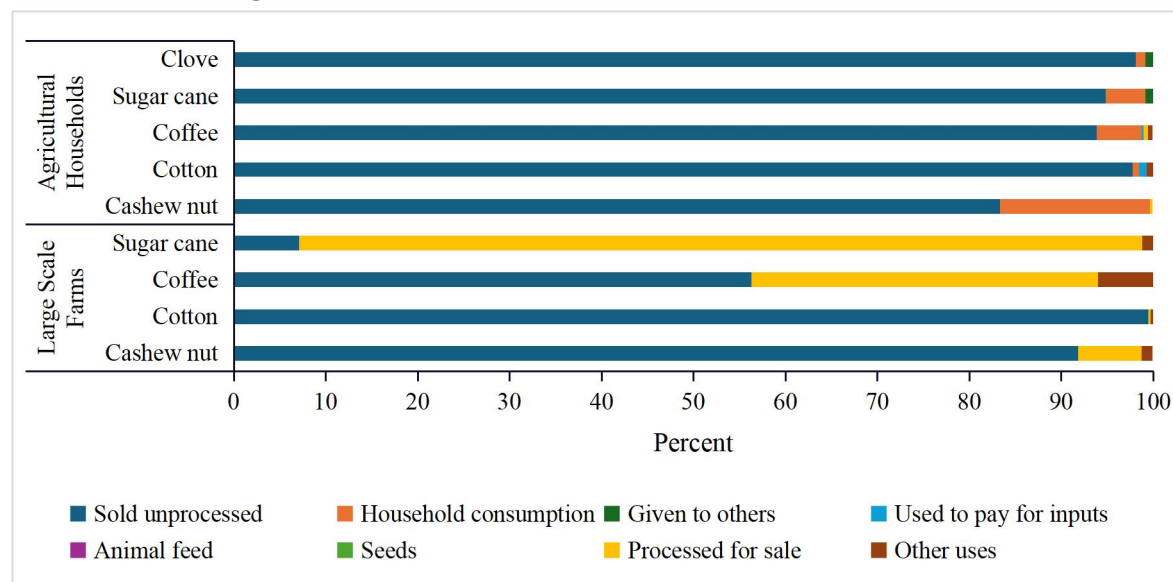


Source: Annex Table 5-4 in Statistical Tables of AASS 2022/23

### 3.7.5 Cash Crops

Majority of cash crops harvested in Tanzania were sold unprocessed. For agricultural households, more than 80 percent of the cash crops were sold unprocessed. Clove was the leading cash crop with 98.1 percent of its harvest sold unprocessed, followed by cotton (97.7 percent), sugarcane (94.8 percent) and coffee (93.1 percent). For large scale farms, large amount of the harvests were either sold unprocessed or processed for sale. The former dominated with cotton and cashew nuts producers selling 99.4 percent and 91.8 percent respectively of the harvests unprocessed, while sugarcane producers exercised the latter with 91.7 percent being processed for sale (Figure 3.36).

**Figure 3.36: Percentage Distribution of Crop Harvest Uses for Cash Crops During 2022/23 Agricultural Year, Tanzania**



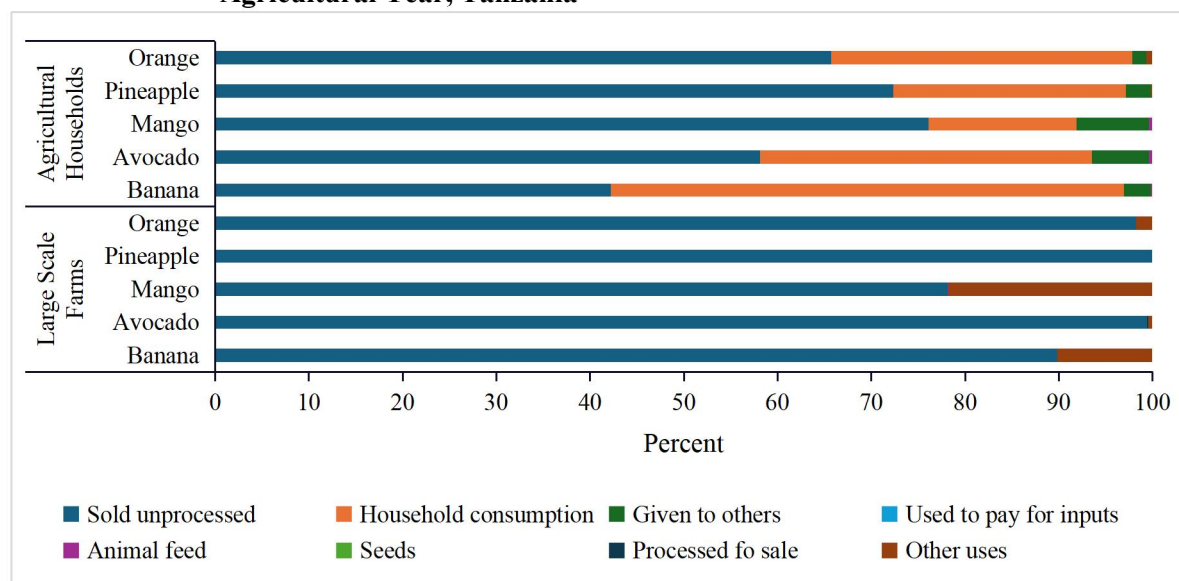
Source: Annex Table 5-4 in Statistical Tables of AASS 2022/23

### 3.7.6 Fruits

During the 2022/23 agricultural year, fruits harvested by agricultural households were mainly sold unprocessed, consumed by household or given to others. Among the fruits with high proportion sold unprocessed were mango (76.1 percent), pineapple (72.3 percent) and orange (65.7 percent). Banana was the fruit which was mostly used for household consumption (54.7 percent), followed by avocado (35.4 percent), while mango accounted for 15.5 percent for the same use. Each of the fruits produced was given to others in the form of gifts, with mango and avocado recording 7.7 percent and 6.1 percent of the respective harvests. The rest of the uses were registered in animal feeds and other uses, even though at a very small proportion. In large scale farms, over 75 percent of fruits were sold unprocessed, whereas pineapple producers sold all the harvests (100 percent) and for avocado growers 99.4 percent of their harvests (Figure 3.37).



**Figure 3.37: Percentage Distribution of Crop Harvest Uses for Fruits During 2022/23 Agricultural Year, Tanzania**

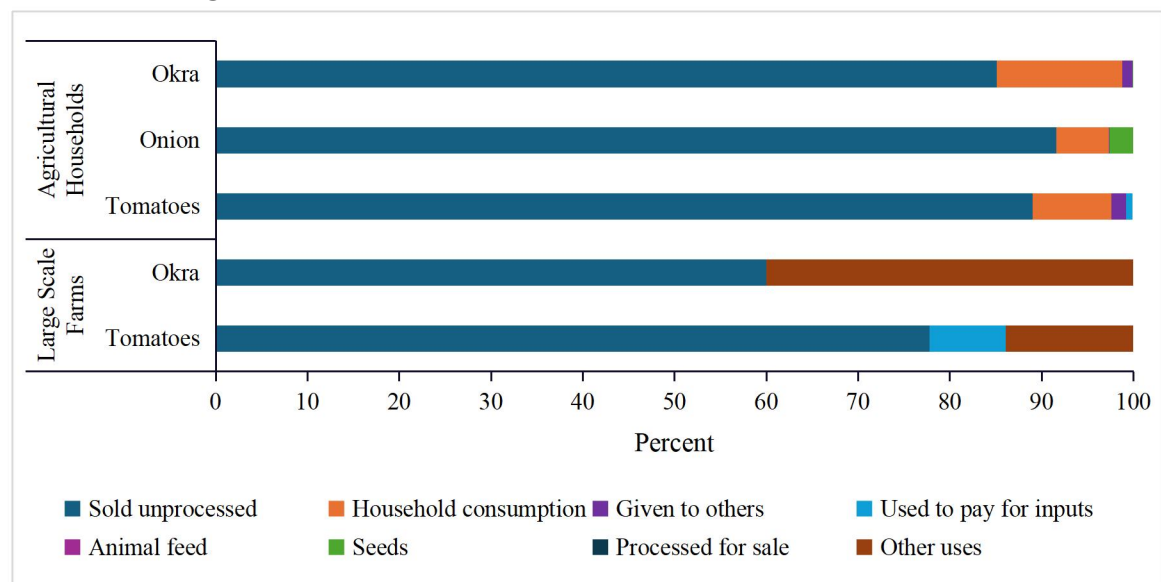


Source: Annex Table 5-4 in Statistical Tables of AASS 2022/23

### 3.7.7 Vegetables

For the selected vegetables, a large proportion of the harvest was sold unprocessed followed by household consumption. In agricultural households, onion had the largest share of its harvest sold unprocessed (91.6 percent), followed by tomatoes (89.0 percent) and okra (85.1 percent). Household consumption for okra was 13.7 percent of the harvests, while tomato had 8.6 percent and onion 5.7 percent. The proportion of vegetables directed to other uses was minimal. For large scale farms, harvests were mainly sold unprocessed or directed to other uses. Okra had 60.0 percent of the harvest sold unprocessed and 40 percent used for other purposes. On the other hand, 77.8 percent of tomato harvests were sold unprocessed, 14.0 percent used for other purposes and 8.3 percent used to pay for inputs (Figure 3.38).

**Figure 3.38: Percentage Distribution of Crop Harvest Uses for Vegetables During 2022/23 Agricultural Year, Tanzania**



Source: Annex Table 5-4 in Statistical Tables of AASS 2022/23

### 4.0 Introduction

In Tanzania, irrigation and input use are among the challenges facing the agricultural sector, thus hindering agricultural productivity and sustainability. Irrigation practices in Tanzania are predominantly rain-fed, limiting crop yields and making agriculture vulnerable to climate variability. Additionally, limited access to quality inputs such as fertilizers, pesticides, and improved seeds further hampers agricultural productivity. Addressing these challenges is crucial for ensuring food security, improving farmers' livelihoods, and driving economic development in Tanzania. This section, therefore, presents survey findings on Irrigation and Input use as reported during the survey.

### 4.1 Irrigation

Irrigation plays a crucial role in supporting agricultural production, ensuring food security, and enhancing rural livelihoods. In response to government initiatives advocating the adoption and use of climate-smart agricultural technologies, farmers have been using various irrigation methods, notably, watering cane, flooding, sprinkler, and drip irrigation.

#### 4.1.1 Agricultural Households Practiced Irrigation

The results reveal that, 7.4 percent of the agricultural households practiced cropping in Tanzania reported to irrigate their crops during 2022/23 agricultural year. In Mainland Tanzania, majority of households (40.5 percent) irrigated their crops using watering cane/bucket. This was prevalent in Pwani region (93.5 percent), Geita (88.6 percent), and less practiced in Dodoma (7.5 percent). Flooding/surface was the second dominant method of irrigation, whereas 39.9 percent adopted it. It was highly practiced in Arusha region (72.0 percent), Tabora with 69.8 percent and less adopted in Pwani (3.0 percent).

On the other hand, 8.6 percent of the agricultural households reported to use Sprinkler, and the method was common in Njombe region (34.0 percent), and Mara (33.0 percent), while Mwanza region showed less adoption (3.0 percent). Furthermore, statistics indicate that adoption of Drip irrigation was relatively low, only 1.7 percent of agricultural households reported to practice this method. Despite its low pace of adoption, it was however commonly applied in Dodoma (18.3 percent), Shinyanga (10.1 percent) and less adopted in Kilimanjaro (0.5 percent).

In Zanzibar, majority of households (59.1 percent) used watering cane/bucket, followed by flooding/surface (18.4 percent). Irrigation by watering cane/bucket was dominant in Kaskazini Pemba (77.8 percent), followed by Mjini Magharibi (66.0 percent) and least in Kusini Pemba (19.4 percent). With regard to flooding/surface, the findings show that the method was mostly applied in Kusini Pemba (64.5 percent) and Kusini Unguja (23.3 percent), while less practiced in Mjini Magharibi (7.6 percent). Furthermore, the results indicated parity in the percentage distribution of agricultural households practicing sprinkler and drip irrigation, whereas 10.9 percent and 10.6 percent of the agricultural households reported to have applied the respective methods. However, while Sprinkler irrigation was common in Kaskazini Unguja (16.8 percent) and less practiced in Kaskazini Pemba (4.1 percent), adoption of drip irrigation was on the other hand prevalent in Kusini Unguja region (28.0 percent) and lower in Kusini Pemba (3.1 percent) (Table 4.1).

**Table 4.1: Number and Percentage of Agricultural Holdings Practiced Irrigation by Method of Irrigation and Region During 2022/23 Agricultural Year, Tanzania**

Holding Category	Region	Holdings Engaged in Crop Production	Irrigation		Method of Irrigation									
			Number	Percent	Watering cans		Sprinkler		Drip		Flooding		Others	
					Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Agricultural Households	Dodoma	549,931	12,070	2.2	41,471	7.5	106,549	19.4	100,652	18.3	251,850	45.8	18,273	3.3
	Arusha	285,716	29,380	10.3	44,104	15.4	20,968	7.3	1,980	0.7	205,787	72.0	17,306	6.1
	Kilimanjaro	326,175	98,264	30.1	42,407	13.0	14,852	4.6	1,652	0.5	227,144	69.6	45,961	14.1
	Tanga	458,973	15,300	3.3	260,248	56.7	84,078	18.3	0	0.0	88,727	19.3	59,294	12.9
	Morogoro	555,617	83,701	15.1	195,037	35.1	31,584	5.7	0	0.0	283,080	50.9	52,061	9.4
	Pwani	248,579	21,569	8.7	232,307	93.5	8,716	3.5	0	0.0	7,556	3.0	0	0.0
	Dar es Salaam	214,659	52,352	24.4	145,441	67.8	25,785	12.0	14,744	6.9	38,785	18.1	9,202	4.3
	Lindi	276,926	2,593	0.9	-	-	-	-	-	-	-	-	-	-
	Mtwara	394,048	8,221	2.1	253,278	64.3	40,363	10.2	0	0.0	0	0.0	40,363	10.2
	Ruvuma	376,275	23,812	6.3	118,926	31.6	11,996	3.2	11,996	3.2	119,100	31.7	130,498	34.7
	Iringa	235,319	32,274	13.7	143,652	61.0	37,208	15.8	0	0.0	53,273	22.6	5,876	2.5
	Mbeya	386,423	31,404	8.1	147,007	38.0	65,448	16.9	0	0.0	100,260	25.9	82,294	21.3
	Singida	306,946	16,828	5.5	249,525	81.3	0	0.0	0	0.0	57,422	18.7	0	0.0
	Tabora	441,841	18,916	4.3	121,461	27.5	0	0.0	7,769	1.8	308,325	69.8	0	0.0
	Rukwa	247,649	15,449	6.2	30,592	12.4	0	0.0	0	0.0	141,133	57.0	34,744	14.0
	Kigoma	319,151	11,833	3.7	218,858	68.6	0	0.0	0	0.0	52,646	16.5	47,646	14.9
	Shinyanga	274,931	5,364	2.0	194,154	70.6	0	0.0	27,829	10.1	0	0.0	105,895	38.5
	Kagera	548,229	10,434	1.9	390,286	71.2	0	0.0	0	0.0	106,202	19.4	51,742	9.4
	Mwanza	397,632	40,804	10.3	95,558	24.0	12,125	3.0	5,103	1.3	275,982	69.4	13,181	3.3
	Mara	316,667	11,416	3.6	143,277	45.2	104,414	33.0	10,010	3.2	0	0.0	58,966	18.6
	Manyara	296,749	13,613	4.6	54,674	18.4	34,881	11.8	22,232	7.5	140,795	47.4	68,066	22.9
	Njombe	192,992	23,535	12.2	104,085	53.9	65,672	34.0	3,837	2.0	0	0.0	19,398	10.1
	Katavi	150,583	7,022	4.7	68,848	45.7	10,157	6.7	0	0.0	46,977	31.2	24,600	16.3
	Simiyu	254,526	2,525	1.0	39,553	15.5	0	0.0	0	0.0	124,671	49.0	90,302	35.5
	Geita	361,603	13,512	3.7	320,524	88.6	32,581	9.0	0	0.0	41,864	11.6	6,500	1.8
	Songwe	245,857	15,358	6.2	107,521	43.7	21,668	8.8	0	0.0	18,464	7.5	98,204	39.9
	<b>Mainland Tanzania</b>	<b>8,663,996</b>	<b>617,548</b>	<b>7.1</b>	<b>3,510,914</b>	<b>40.5</b>	<b>747,214</b>	<b>8.6</b>	<b>147,496</b>	<b>1.7</b>	<b>3,439,690</b>	<b>39.7</b>	<b>968,831</b>	<b>11.2</b>
	Kaskazini Unguja	27,167	5,160	19.0	17,383	64.0	4,576	16.8	1,536	5.7	4,767	17.5	0	0.0
	Kusini Unguja	26,872	6,707	25.0	12,035	44.8	3,389	12.6	7,526	28.0	6,267	23.3	0	0.0
	Mjini Magharibi	37,264	18,760	50.3	24,596	66.0	4,668	12.5	3,230	8.7	2,843	7.6	3,351	9.0
	Kaskazini Pemba	31,997	4,701	14.7	24,880	77.8	1,309	4.1	1,561	4.9	6,100	19.1	550	1.7
	Kusini Pemba	28,825	3,715	12.9	5,589	19.4	-	-	900	3.1	18,604	64.5	3,732	12.9
	<b>Zanzibar</b>	<b>152,126</b>	<b>39,043</b>	<b>25.7</b>	<b>89,865</b>	<b>59.1</b>	<b>16,589</b>	<b>10.9</b>	<b>16,137</b>	<b>10.6</b>	<b>28,033</b>	<b>18.4</b>	<b>8,762</b>	<b>5.8</b>
	<b>Tanzania</b>	<b>8,816,122</b>	<b>656,591</b>	<b>7.4</b>	<b>3,669,802</b>	<b>41.6</b>	<b>772,289</b>	<b>8.8</b>	<b>196,769</b>	<b>2.2</b>	<b>3,388,564</b>	<b>38.4</b>	<b>957,417</b>	<b>10.9</b>
Large Scale Farms	Mainland Tanzania	881	219	24.9	193	21.9	257	29.2	245	27.9	197	22.4	76	8.7
	Zanzibar	30	16	53.3	11	37.5	2	6.3	9	31.3	8	25.0	0	0.0
	<b>Tanzania</b>	<b>911</b>	<b>235</b>	<b>25.8</b>	<b>209</b>	<b>23.0</b>	<b>252</b>	<b>27.7</b>	<b>256</b>	<b>28.1</b>	<b>205</b>	<b>22.6</b>	<b>74</b>	<b>8.1</b>

Source: Annex Table (4-2) in the Statistical Tables of AASS 2022/23

“- “Withheld to avoid disclosing data for individual holdings or insufficient data available from the survey (Total includes withheld data)

### 4.1.2 Area Planted under Irrigation

National estimates depict that, 605,195 ha (3.5 percent) of the total area planted with crops during 2022/23 agricultural year was irrigated, whereby, 498,127 ha were irrigated by agricultural households and 107,068 ha by large scale farms. Out of the planted area irrigated by agricultural households, 482,257 ha were in Mainland Tanzania and 15,870 ha in Zanzibar (Table 4.2).

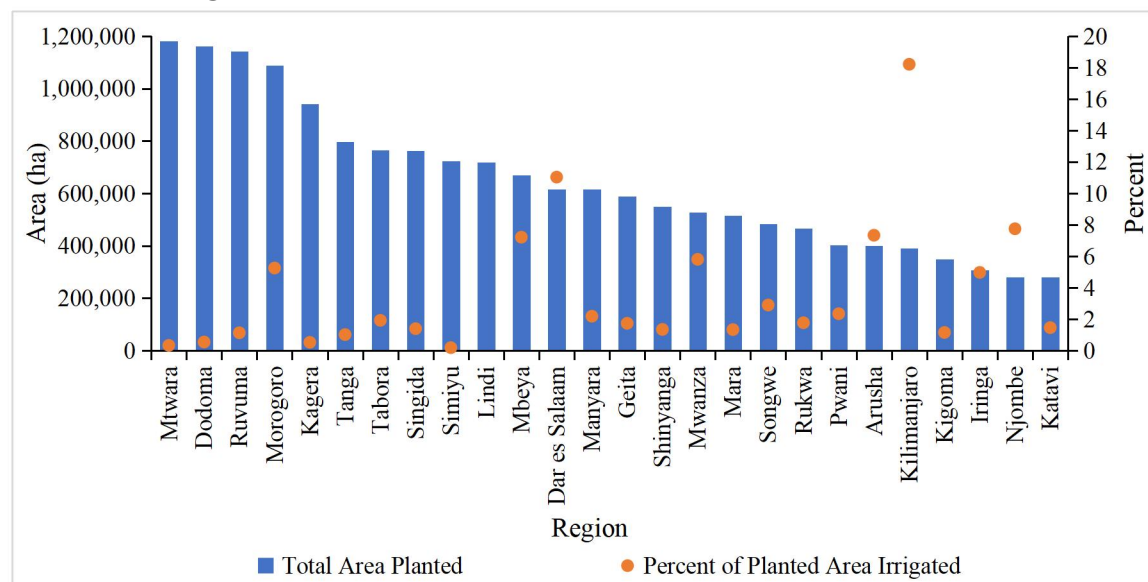
**Table 4.2: Planted Area, Area Irrigated and Percentage of Planted Area Irrigated by Method of Irrigation During 2022/23 Agricultural Year, Tanzania**

		Agricultural Households			Large Scale Farms			All Holdings			
		Mainland Tanzania	Zanzibar	Tanzania	Mainland Tanzania	Zanzibar	Tanzania	Mainland Tanzania	Zanzibar	Tanzania	
Area Planted with crops (ha)		16,726,471	134,997	16,861,468	376,125	3,149	379,274	17,102,596	138,146	17,240,742	
Total Area	Area (ha)	482,257	15,870	498,127	107,033	35	107,068	589,290	15,905	605,195	
Irrigated (ha)	Percent	2.9	11.8	3.0	28.5	1.1	28.2	3.4	11.5	3.5	
Irrigation Methods	Watering cans or buckets	Area (ha)	124,175	4,498	128,673	2,223	11	2,234	126,397	4,509	130,906
		Percent	25.7	28.3	25.8	2.1	30.6	2.1	21.4	28.3	21.6
	Sprinkler	Area (ha)	60,979	2,199	63,178	57,104	-	57,105	118,082	2,200	120,282
		Percent	12.6	13.9	12.7	53.4	-	53.3	20.0	13.8	19.9
	Drip	Area (ha)	6,073	4,497	10,570	20,464	14	20,478	26,537	4,511	31,048
		Percent	1.3	28.3	2.1	19.1	40.0	19.1	4.5	28.4	5.1
	Flooding/ surface	Area (ha)	216,081	3,802	219,883	11,811	10	11,820	227,892	3,812	231,703
		Percent	44.8	24.0	44.1	11.0	27.1	11.0	38.7	24.0	38.3
	Others	Area (ha)	74,950	873	75,823	15,431	-	15,431	90,381	873	91,254
		Percent	15.5	5.5	15.2	14.4	-	14.4	15.3	5.5	15.1

“- “Withheld to avoid disclosing data for individual holdings or insufficient data available from the survey (Total includes withheld data)

Across the regions of Mainland Tanzania, Kilimanjaro region reported the largest planted area irrigated by agricultural households (70,957 ha; 18.2 percent), followed by Dar es Salaam (68,029 ha; 11.0 percent) and Njombe (21,796 ha; 7.7 percent), while Simiyu reported 1,308 ha (0.2 percent) (Figure 4.1).

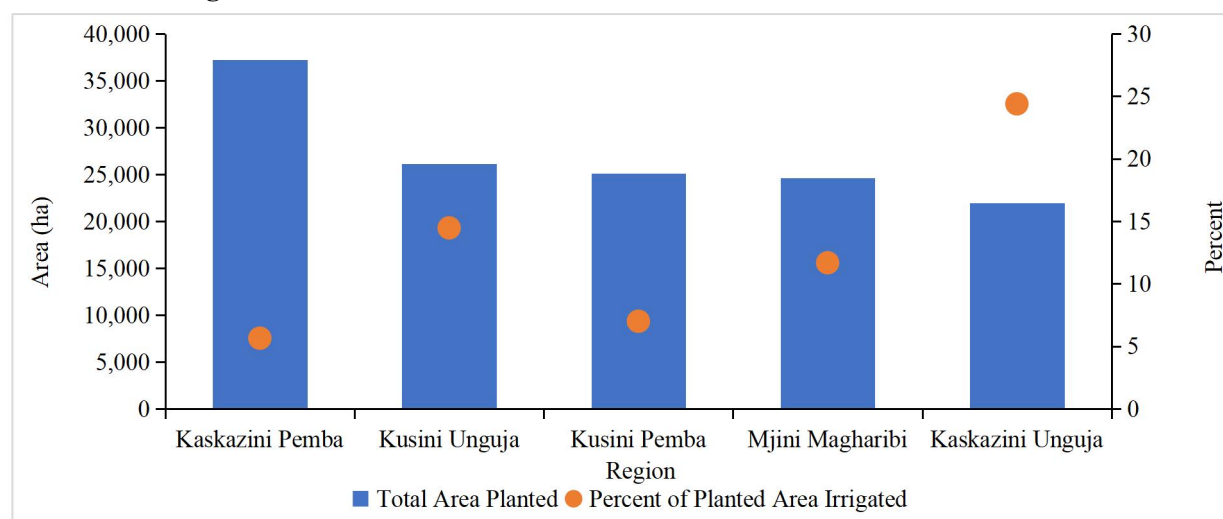
**Figure 4.1: Area Planted, Area Irrigated and Percent of Area Irrigated During 2022/23 Agricultural Year, Tanzania**



Source: Annex Table (4-2) in the Statistical Tables of AASS 2022/23

In Zanzibar, the largest planted area irrigated by agricultural households was reported in Mjini Magharibi region (5,358 ha; 24.4 percent), followed by Kusini Unguja (3,778 ha; 14.5 percent), while Kusini Pemba reported 2,101 ha (5.6 percent) (Figure 4.2).

**Figure 4.2: Area Planted, Area Irrigated and Percent of Area Irrigated During 2022/23 Agricultural Year, Zanzibar**



Source: Annex Table (4-2) in the Statistical Tables of AASS 2022/23

## 4.2 Inputs Use

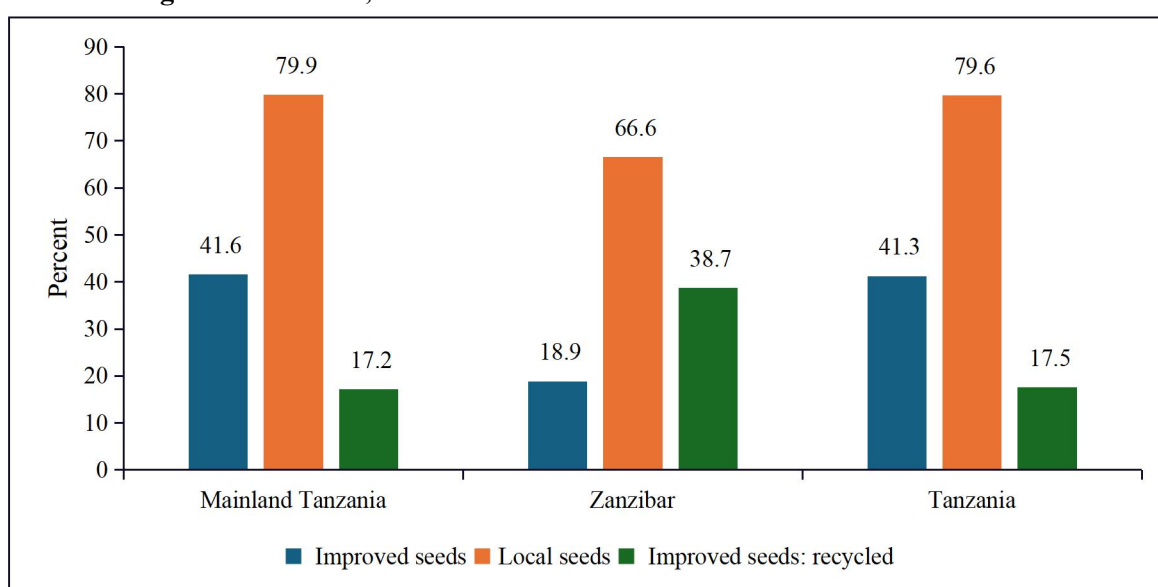
This sub section highlights the results on the use of inputs by both agricultural households and large scale farms. The analysis focuses on area applied with fertilizers (organic and/or inorganic), seeds (local and improved), and pesticides (insecticides, herbicides, rodenticides and fungicides) during 2022/23 agricultural year.

### 4.2.1 Seed Use

#### 4.2.1.1 Household Using Seeds

During the 2022/23 agricultural year, agricultural households reported to use improved seeds, local seeds, or improved seeds recycled. Seed usage among agricultural households was dynamic, in the sense that, households were able to use either one type or combination of various seed types for the same crop. The findings showed that, out of 8,679,852 agricultural households that used seeds, 3,581,216 households (41.3 percent) used improved seeds. This accounted for 3,554,736 households in Mainland Tanzania and 26,480 households in Zanzibar. The use of local seeds was reported by 6,912,547 households (79.6 percent), of which 6,819,107 households were from Mainland Tanzania and 93,440 in Zanzibar. On the other hand, 1,522,121 agricultural households (17.5 percent) used improved seeds recycled, whereas 1,467,753 households were reported in Mainland Tanzania and 54,368 in Zanzibar (Figure 4.3).

**Figure 4.3: Percentage Distribution of Households Used Seeds by Type During 2022/23 Agricultural Year, Tanzania**



Source: Annex Table (4-3) in the Statistical Tables of AASS 2022/23



In Mainland Tanzania, Simiyu region had the highest percent of households reported to use improved seeds (238,011 households; 93.5 percent), followed by Arusha (203,938 households; 73.0 percent), whereas Mtwara reported the lowest percent (36,667 households; 9.8 percent). In Zanzibar, Kusini Unguja region had the highest percent of households reported to use improved seeds (7,884 households; 31.0 percent), followed by Mjini Magharibi (6,737 households; 22.1 percent), while Kusini Pemba had few households (1,469 households; 5.4 percent).

Mtwara region had the highest percent of households that used local seeds (363,714 households; 96.8 percent) in Mainland Tanzania, followed by Lindi (256,979 households; 94.4 percent), while Iringa recorded the lowest percent (117,657 households; 50.1 percent). On the other hand, Kaskazini Unguja had the highest percent of households that used local seeds (20,605 households; 79.4 percent), followed by Kaskazini Pemba (23,640 households; 76.1 percent), whilst Kusini Unguja recorded the lowest (10,295 households; 40.5 percent).

In addition, Iringa region had the highest percent of households that used recycled improved seeds (93,325 households; 39.7 percent), followed by Kagera (185,861 households; 34.1 percent), while Mwanza had the lowest proportion (13,012 households; 3.3 percent). In Zanzibar, Kusini Unguja region had the highest proportion of households that used recycled improved seeds (16,030 households; 63.1 percent), followed by Kusini Pemba (12,007 households; 43.7 percent), whereas Mjini Magharibi reported the lowest share (8,999 households; 29.5 percent) (Table 4.3).

**Table 4.3: Percentage Distribution of Agricultural Households by Type of Seed Used and Region During 2022/23 Agricultural Year, Tanzania**

Region	Agricultural Households Used Seeds	Types of Seeds		
		Improved seeds (percent)	Local seeds (percent)	Improved seeds, Recycled (percent)
Dodoma	549,931	18.0	91.4	10.1
Arusha	279,522	73.0	58.4	16.0
Kilimanjaro	299,414	64.5	78.4	19.5
Tanga	450,384	38.3	87.6	11.4
Morogoro	549,691	21.8	85.1	18.2
Pwani	240,622	23.3	89.2	16.9
Dar es Salaam	195,062	46.5	66.3	8.3
Lindi	272,143	11.4	94.4	7.0
Mtwara	375,816	9.8	96.8	5.4
Ruvuma	372,766	29.7	81.6	23.6
Iringa	235,057	43.0	50.1	39.7
Mbeya	374,350	52.9	74.4	13.5
Singida	305,976	54.7	84.5	15.2
Tabora	441,841	45.8	79.7	19.7
Rukwa	247,649	42.1	78.1	17.5
Kigoma	317,759	29.4	88.1	19.8
Shinyanga	273,901	61.6	75.9	20.1
Kagera	544,274	22.2	76.6	34.1
Mwanza	395,967	54.3	90.6	3.3
Mara	316,667	45.4	66.1	20.9
Manyara	296,749	65.6	79.0	12.0
Njombe	192,062	39.2	76.0	14.3
Katavi	150,583	54.1	76.3	27.0
Simiyu	254,526	93.5	61.6	19.8
Geita	361,603	52.5	84.2	16.2
Songwe	245,154	59.9	63.9	23.1
<b>Mainland Tanzania</b>	<b>8,539,465</b>	<b>41.6</b>	<b>79.9</b>	<b>17.2</b>
Kaskazini Unguja	25,948	19.8	79.4	30.6
Kusini Unguja	25,424	31.0	40.5	63.1
Mjini Magharibi	30,500	22.1	71.6	29.5
Kaskazini Pemba	31,069	16.9	76.1	30.3
Kusini Pemba	27,446	5.4	62.2	43.7
<b>Zanzibar</b>	<b>140,387</b>	<b>18.9</b>	<b>66.6</b>	<b>38.7</b>
<b>Tanzania</b>	<b>8,679,852</b>	<b>41.3</b>	<b>79.6</b>	<b>17.5</b>

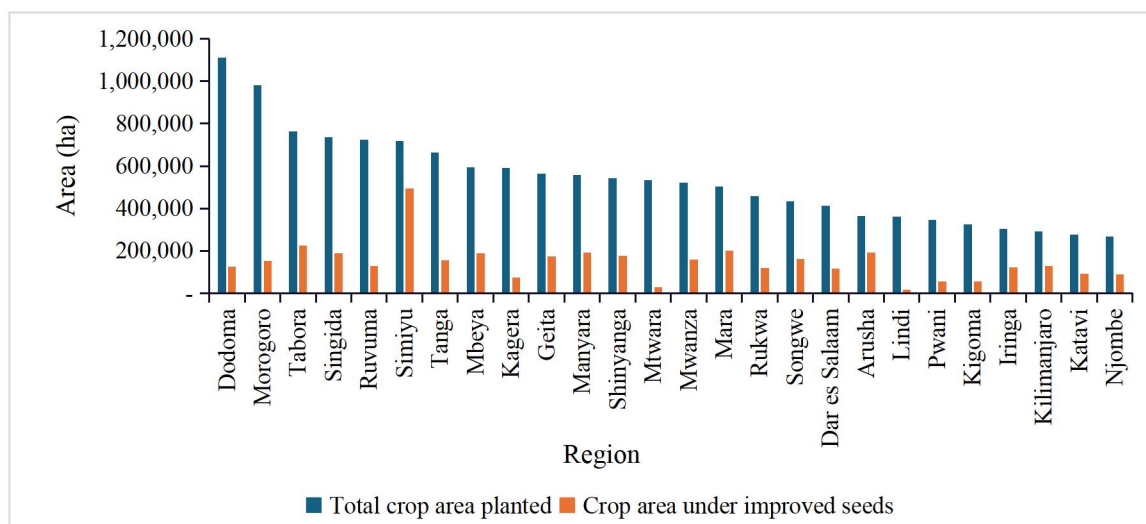
Source: Annex Table (4-3) in the Statistical Tables of AASS 2022/23

#### 4.2.1.2 Area Planted with Improved Seeds

During the 2022/23 agricultural year, a total of 3,819,125 ha (3,808,982 ha in Mainland Tanzania and 10,143 ha in Zanzibar) was planted using improved seeds. In Mainland Tanzania, Simiyu

region reported the highest proportion of the area planted with improved seeds (494,661 ha; 69.0 percent), followed by Kilimanjaro (129,764 ha; 44.6 percent), while Lindi reported the least proportion (17,801 ha; 4.9 percent) (Figure 4.4).

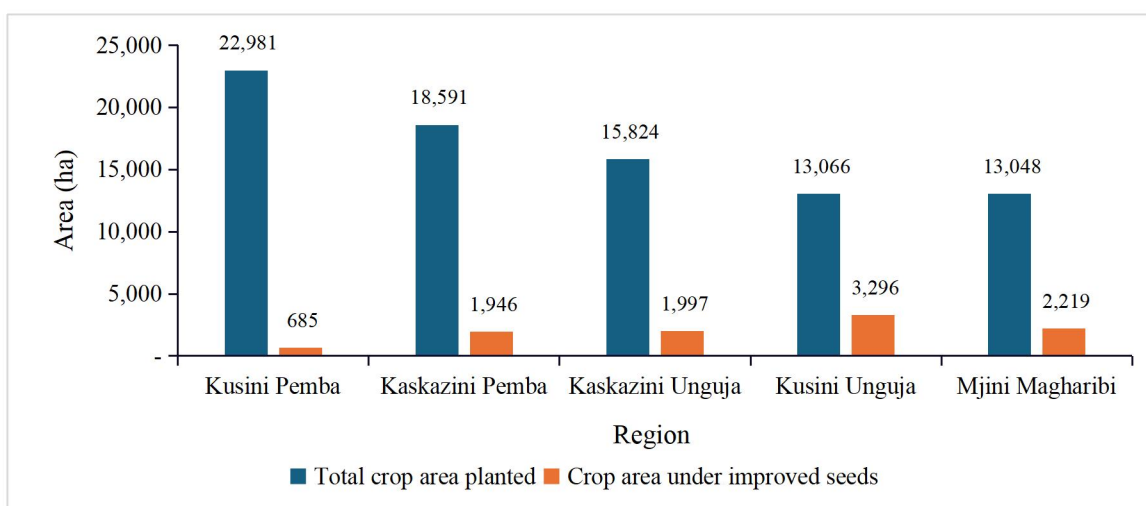
**Figure 4.4: Area Planted with Improved Seeds by Region During 2022/23 Agricultural Year, Mainland Tanzania**



Source: Annex Table (4-4) in the Statistical Tables of AASS 2022/23

In Zanzibar, Kusini Unguja region recorded the largest percent of the land area planted with improved seeds (3,296 ha; 25.2 percent), followed by Mjini Magharibi (2,219 ha; 17.0 percent), while Kusini Pemba reported the lowest percent (685 ha; 3.0 percent) (Figure 4.5).

**Figure 4.5: Area Planted with Improved Seeds by Region During 2022/23 Agricultural Year, Zanzibar**



Source: Annex Table (4-4) in the Statistical Tables of AASS 2022/23

## 4.2.2 Fertilizer Use

### 4.2.2.1 Agricultural Households using Fertilizer

The results reveal that, out of agricultural households engaged in crop production, 3,941,231 households (44.7 percent) reported to use fertilizers; of which 3,865,873 households were in Mainland Tanzania and 75,357 in Zanzibar. In Mainland Tanzania, Njombe region had the highest percent of agricultural households reported to use fertilizer (91.1 percent), followed by Kilimanjaro (85.5 percent), while Lindi reported the lowest (3.2 percent). In Zanzibar, Mjini Magharibi led with 67.8 percent, followed by Kusini Unguja (53.5 percent), while Kaskazini Pemba recorded the lowest percent (38.2 percent) (Table 4.4).

**Table 4.4: Number and Percentage of Agricultural Households Engaged in Crop Production Reported to Use Fertilizer by Type During 2022/23 Agricultural Year, Tanzania**

Coverage	Households Engaged in Crop Production	Households applied Fertilizers		Households by Type of Fertilizer			
		Number	Percent	Organic Fertilizer		Inorganic Fertilizer	
				Number	Percent	Number	Percent
Mainland Tanzania	8,663,996	3,865,873	44.6	2,337,704	60.5	2,182,538	56.5
Zanzibar	152,126	75,357	49.5	63,101	83.7	27,189	36.1
Tanzania	8,816,122	3,941,230	44.7	2,400,805	60.9	2,209,727	56.1

*Source: Annex Table (4-8) in the Statistical Tables of AASS 2022/23*

The findings further depict that, the use of organic fertilizer was prevalent among agricultural households that reported to use fertilizer (2,400,806 households; 60.9 percent), with 2,337,704 households in Mainland Tanzania and 63,101 in Zanzibar. Regional estimates for Mainland Tanzania show that, 98.5 percent of agricultural households in Kagera region used organic fertilizer, followed by Singida (95.8 percent), while Songwe reported the lowest (25.1 percent). In Zanzibar, Mjini Magharibi had the highest percentage of agricultural households reported to use organic fertilizer (95.3 percent), followed by Kusini Unguja (87.1 percent), while Kusini Pemba had the lowest (64.2 percent).

Correspondingly, 2,209,727 agricultural households, equivalent to 56.1 percent reported to use inorganic fertilizer, whereas 2,182,538 households were in Mainland Tanzania and 27,189 households in Zanzibar. Regional wide, the use of inorganic fertilizer was mostly reported in Ruvuma (94.4 percent), followed by Songwe (91.7 percent), while Kagera was the least with 5.6 percent. On the other hand, the use of inorganic fertilizer in Zanzibar was mostly reported in Kusini Pemba (69.4 percent), followed by Kaskazini Unguja (40.8 percent) and lowest in Mjini Magharibi (19.4 percent) (Table 4.5).

**Table 4.5: Number and Percentage of Agricultural Households Engaged in Crop Production Reported to Use Fertilizer by Type and Region During 2022/23 Agricultural Year, Tanzania**

Region	Households Engaged in Crop Production	Household Applied Fertilizers		Type of Fertilizers			
		Number	Percent	Organic Fertilizers		Inorganic Fertilizers	
				Number	Percent	Number	Percent
Dodoma	549,931	75,093	13.7	69,677	92.8	6,357	8.5
Arusha	285,716	155,628	54.5	115,251	74.1	56,741	36.5
Kilimanjaro	326,175	278,873	85.5	229,694	82.4	162,280	58.2
Tanga	458,973	144,860	31.6	107,727	74.4	74,776	51.6
Morogoro	555,617	165,301	29.8	70,025	42.4	124,833	75.5
Pwani	248,579	72,689	29.2	43,036	59.2	38,836	53.4
Dar es Salaam	214,659	123,102	57.3	84,833	68.9	59,974	48.7
Lindi	276,926	8,961	3.2	3,890	43.4	7,664	85.5
Mtwara	394,048	56,801	14.4	30,069	52.9	34,169	60.2
Ruvuma	376,275	282,233	75	78,347	27.8	266,502	94.4
Iringa	235,319	188,129	79.9	75,714	40.2	168,421	89.5
Mbeya	386,423	307,042	79.5	120,686	39.3	249,243	81.2
Singida	306,946	140,951	45.9	135,012	95.8	13,918	9.9
Tabora	441,841	252,758	57.2	117,760	46.6	161,693	64
Rukwa	247,649	85,090	34.4	38,154	44.8	55,056	64.7
Kigoma	319,151	163,814	51.3	46,911	28.6	147,125	89.8
Shinyanga	274,931	119,615	43.5	94,527	79	34,711	29
Kagera	548,229	195,344	35.6	192,430	98.5	10,854	5.6
Mwanza	397,632	158,913	40	139,749	87.9	38,382	24.2
Mara	316,667	172,054	54.3	141,905	82.5	43,903	25.5
Manyara	296,749	143,474	48.3	134,696	93.9	29,415	20.5
Njombe	192,992	175,748	91.1	54,464	31	160,626	91.4
Katavi	150,583	67,941	45.1	26,008	38.3	48,832	71.9
Simiyu	254,526	53,893	21.2	51,574	95.7	4,779	8.9
Geita	361,603	102,598	28.4	91,718	89.4	23,004	22.4
Songwe	245,857	174,965	71.2	43,846	25.1	160,444	91.7
<b>Mainland Tanzania</b>	<b>8,663,996</b>	<b>3,865,873</b>	<b>44.6</b>	<b>2,337,705</b>	<b>60.5</b>	<b>2,182,538</b>	<b>56.5</b>
Kaskazini Unguja	27,167	12,446	45.8	9,709	78	5,079	40.8
Kusini Unguja	26,872	14,386	53.5	12,533	87.1	5,206	36.2
Mjini Magharibi	37,264	25,252	67.8	24,068	95.3	4,895	19.4
Kaskazini Pemba	31,997	12,231	38.2	9,703	79.3	4,344	35.5
Kusini Pemba	28,825	11,042	38.3	7,088	64.2	7,665	69.4
<b>Zanzibar</b>	<b>152,126</b>	<b>75,357</b>	<b>49.5</b>	<b>63,101</b>	<b>83.7</b>	<b>27,189</b>	<b>36.1</b>
<b>Tanzania</b>	<b>8,816,122</b>	<b>3,941,230</b>	<b>44.7</b>	<b>2,400,806</b>	<b>60.9</b>	<b>2,209,727</b>	<b>56.1</b>

Source: Annex Table (4-8) in the Statistical Tables of AASS 2022/23

#### 4.2.2.2 Area Applied with Fertilizer

The results reveal that, a total of 5,542,512 ha equivalent to 32.1 percent of area planted with crops in Tanzania was applied with fertilizer. Area applied with fertilizer by agricultural households was 5,309,646 ha (31.5 percent), while large scale farms had 232,865 ha (61.4 percent). For agricultural households, out of the total area planted with crops in Mainland

Tanzania, 5,265,761 ha (31.5 percent) were applied with fertilizer, while in Zanzibar was 43,886 ha (32.5 percent) (Table 4.6).

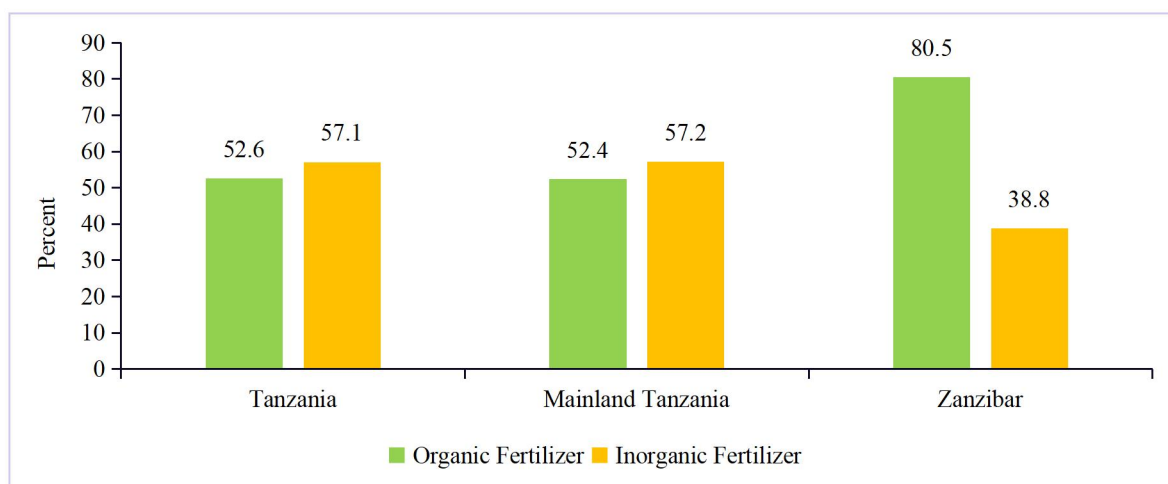
**Table 4.6: Area Applied with Fertilizer by Type During 2022/23 Agricultural Year, Tanzania**

Coverage	Holding Category	Total Area Planted (ha)	Area Applied with Fertilizer	
			(ha)	Percent
Mainland Tanzania	Agricultural Households	16,726,471	5,265,761	31.5
	Large scale farms	376,125	231,128	61.4
	<b>All Holdings</b>	<b>17,102,596</b>	<b>5,496,889</b>	<b>32.1</b>
Zanzibar	Agricultural Households	134,997	43,886	32.5
	Large scale farms	3,149	1,737	55.2
	<b>All Holdings</b>	<b>138,146</b>	<b>45,623</b>	<b>33.0</b>
Tanzania	Agricultural Households	<b>16,861,468</b>	5,309,646	31.5
	Large scale farms	<b>379,274</b>	232,865	61.4
	<b>All Holdings</b>	<b>17,240,742</b>	<b>5,542,512</b>	<b>32.1</b>

*Source: Annex Table (4-18) in the Statistical Tables of AASS 2022/23*

Results show that, agricultural households and large scale farms reported using organic, inorganic fertilizer or both. Standalone analysis of fertilizer uses by type show that, 2,915,700 ha equivalent to 52.6 percent was applied with organic fertilizer and 3,163,878 ha (57.1 percent) with inorganic fertilizer. Furthermore, in Mainland Tanzania, 2,878,985 ha (52.4 percent) was applied with organic fertilizer and 3,146,190 ha (57.2 percent) with inorganic fertilizer. In Zanzibar, 36,715 ha (80.5 percent) was applied with organic fertilizer and 17,688 ha (38.8 percent) with inorganic fertilizer (Figure 4.6).

**Figure 4.6: Percentage of Area Applied with Fertilizer by Type During 2022/23 Agricultural Year, Tanzania**



Source: Annex Table (4-18) in the Statistical Tables of AASS 2022/23

Within regions in Mainland Tanzania, Njombe had the highest percentage of the planted area applied with fertilizer (85.5 percent), followed by Kilimanjaro (75.9 percent) and Iringa (72.4 percent), while Lindi region had the least (0.7 percent). In Zanzibar, Mjini Magharibi had the highest percentage of the area applied with fertilizer (55.2 percent), followed by Kusini Unguja (41.9 percent), whereas Kusini Pemba region recorded the lowest (17.5 percent) (Table 4.7).

**Table 4.7: Area Planted with Crops, Area and Percentage Applied with Fertilizer by Region During 2022/23 Agricultural Year, Tanzania**

Region	Area Planted with Crops (ha)	Area Applied with Fertilizer	
		Area (ha)	Percent
Dodoma	1,161,360	103,242	8.9
Arusha	400,809	181,903	45.4
Kilimanjaro	389,702	295,851	75.9
Tanga	797,988	146,591	18.4
Morogoro	1,087,990	246,217	22.6
Pwani	403,613	114,038	28.3
Dar es Salaam	616,811	392,908	63.7
Lindi	717,587	5,013	0.7
Mtwara	1,180,243	101,865	8.6
Ruvuma	1,143,122	456,793	40.0
Iringa	307,226	222,307	72.4
Mbeya	668,765	449,514	67.2
Singida	763,538	192,366	25.2
Tabora	764,187	330,383	43.2
Rukwa	465,440	146,822	31.5
Kigoma	347,972	150,520	43.3
Shinyanga	550,867	151,361	27.5
Kagera	941,199	230,795	24.5
Mwanza	527,691	143,856	27.3
Mara	516,368	225,973	43.8
Manyara	616,304	185,645	30.1
Njombe	281,440	240,724	85.5
Katavi	281,101	87,269	31.0
Simiyu	723,731	84,363	11.7

Geita	588,017	132,163	22.5
Songwe	483,400	247,278	51.2
<b>Mainland Tanzania</b>	<b>16,726,471</b>	<b>5,265,761</b>	<b>31.5</b>
Kaskazini Unguja	24,612	7,712	31.3
Kusini Unguja	26,110	10,948	41.9
Mjini Magharibi	21,963	12,123	55.2
Kaskazini Pemba	25,110	6,576	26.2
Kusini Pemba	37,202	6,526	17.5
<b>Zanzibar</b>	<b>134,997</b>	<b>43,886</b>	<b>32.5</b>
<b>Tanzania</b>	<b>16,861,468</b>	<b>5,309,646</b>	<b>31.5</b>

Source: Annex Table (4-18) in the Statistical Tables of AASS 2022/23

In Mainland Tanzania, Kagera region had the highest percentage of the planted area applied with organic fertilizer (98.2 percent), followed by Simiyu (97.5 percent) and Singida (96.8 percent), while Ruvuma had the lowest (18.2 percent). In Zanzibar, Mjini Magharibi had highest percentage of area applied with organic fertilizer (92.3 percent), followed by Kusini Unguja (88.1 percent) and Kaskazini Unguja (79.9 percent), while Kusini Pemba had the lowest (67.8 percent) (Table 4.8).

In Mainland Tanzania, Njombe region had the highest percentage of the planted area applied with inorganic fertilizer (91.2 percent), followed by Ruvuma (89.8 percent), and Lindi (88.3 percent), while Kagera had the lowest (3.7 percent). In Zanzibar, Kusini Pemba had highest percentage of area applied with inorganic fertilizer (56.2 percent), followed by Kaskazini Pemba (37.4 percent) and Kusini Unguja (34.5 percent), while Mjini Magharibi had the lowest (29.0 percent) (Table 4.8).

**Table 4.8: Area and Percentage Applied with Fertilizer by Type and Region During 2022/23 Agricultural Year, Tanzania**

Region	Total Area Applied with Fertilizer (ha)	Area Applied with Organic Fertilizer		Area Applied with Inorganic Fertilizer	
		Area (ha)	Percent	Area (ha)	Percent
Dodoma	103,242	98,020	94.9	5,412	5.2
Arusha	181,903	133,079	73.2	59,432	32.7
Kilimanjaro	295,851	183,394	62.0	166,340	56.2
Tanga	146,591	110,828	75.6	68,373	46.6
Morogoro	246,217	82,271	33.4	183,548	74.5
Pwani	114,038	33,835	29.7	87,900	77.1
Dar es Salaam	392,908	159,041	40.5	251,141	63.9
Lindi	5,013	1,307	26.1	4,425	88.3
Mtwara	101,865	59,833	58.7	48,187	47.3
Ruvuma	456,793	83,356	18.2	410,229	89.8
Iringa	222,307	67,130	30.2	193,342	87.0
Mbeya	449,514	193,041	42.9	315,285	70.1
Singida	192,366	186,146	96.8	12,779	6.6
Tabora	330,383	154,057	46.6	199,266	60.3
Rukwa	146,822	71,817	48.9	95,358	64.9
Kigoma	150,520	28,511	18.9	124,823	82.9
Shinyanga	151,361	106,924	70.6	51,330	33.9



Kagera	230,795	226,672	98.2	8,483	3.7
Mwanza	143,856	121,713	84.6	31,665	22.0
Mara	225,973	171,724	76.0	60,907	27.0
Manyara	185,645	151,493	81.6	49,095	26.4
Njombe	240,724	55,043	22.9	219,431	91.2
Katawi	87,269	36,543	41.9	56,003	64.2
Simiyu	84,363	82,261	97.5	4,001	4.7
Geita	132,163	114,848	86.9	27,828	21.1
Songwe	247,278	56,797	23.0	215,209	87.0
<b>Mainland Tanzania</b>	<b>5,265,761</b>	<b>2,769,685</b>	<b>52.6</b>	<b>2,949,793</b>	<b>56.0</b>
Kaskazini Unguja	7,712	6,159	79.9	2,549	33.0
Kusini Unguja	10,948	9,643	88.1	3,780	34.5
Mjini Magharibi	12,123	11,187	92.3	3,521	29.0
Kaskazini Pemba	6,576	4,956	75.4	2,457	37.4
Kusini Pemba	6,526	4,425	67.8	3,665	56.2
<b>Zanzibar</b>	<b>43,886</b>	<b>36,371</b>	<b>82.9</b>	<b>15,972</b>	<b>36.4</b>
<b>Tanzania</b>	<b>5,309,646</b>	<b>2,806,056</b>	<b>52.8</b>	<b>2,965,765</b>	<b>55.9</b>

Source: Annex Table (4-18) in the Statistical Tables of AASS 2022/23

### 4.2.3 Pesticides Use

Pesticides are chemicals intended to kill or control pests which includes insects, weeds, fungi etc. This sub-section presents the use of these chemicals by agricultural households and planted area applied with pesticides.

#### 4.2.3.1 Agricultural Households Applied Pesticides

The results reveal that, a total of 3,243,515 agricultural households (36.8 percent) practising crop production in Tanzania applied pesticides during the 2022/23 agricultural year. In Mainland Tanzania, 3,214,410 households (37.1 percent) applied pesticides, whereas in Zanzibar were 29,105 (19.1 percent). Regional estimates for Mainland Tanzania show that, application of pesticide was higher in Njombe (78.4 percent), followed by Lindi (74.2 percent) and Kilimanjaro (62.6 percent), while Dodoma region recorded the lowest (4.8 percent). In Zanzibar, the highest percentage was reported in Kaskazini Unguja (25.7 percent), followed by Kusini Unguja (23.2 percent), while Mjini Magharibi had the lowest (14.4 percent) (Table 4.9).

**Table 4.9: Number and Percentage of Agricultural Households Engaged in Crop Production Applied Pesticides by Region During 2022/23 Agricultural Year, Tanzania**

Region	Households Engaged in Crop Production	Households Applied Pesticides	
		Number	Percent
Dodoma	549,931	26,294	4.8
Arusha	285,716	166,100	58.1
Kilimanjaro	326,175	204,121	62.6
Tanga	458,973	101,837	22.2
Morogoro	555,617	315,876	56.9
Pwani	248,579	83,728	33.7
Dar es Salaam	214,659	82,736	38.5
Lindi	276,926	205,561	74.2
Mtwara	394,048	224,273	56.9
Ruvuma	376,275	174,836	46.5
Iringa	235,319	132,546	56.3
Mbeya	386,423	187,870	48.6
Singida	306,946	56,898	18.5
Tabora	441,841	102,855	23.3
Rukwa	247,649	73,364	29.6
Kigoma	319,151	31,674	9.9
Shinyanga	274,931	77,760	28.3
Kagera	548,229	59,049	10.8
Mwanza	397,632	130,448	32.8
Mara	316,667	48,242	15.2
Manyara	296,749	110,510	37.2

Region	Households Engaged in Crop Production	Households Applied Pesticides	
		Number	Percent
Njombe	192,992	151,212	78.4
Katavi	150,583	51,666	34.3
Simiyu	254,526	146,029	57.4
Geita	361,603	146,160	40.4
Songwe	245,857	122,766	49.9
<b>Mainland Tanzania</b>	<b>8,663,996</b>	<b>3,214,410</b>	<b>37.1</b>
Kaskazini Unguja	27,167	6,972	25.7
Kusini Unguja	26,872	6,229	23.2
Mjini Magharibi	37,264	5,375	14.4
Kaskazini Pemba	31,997	4,638	14.5
Kusini Pemba	28,825	5,890	20.4
<b>Zanzibar</b>	<b>152,126</b>	<b>29,105</b>	<b>19.1</b>
<b>Tanzania</b>	<b>8,816,122</b>	<b>3,243,515</b>	<b>36.8</b>

*Source: Annex Table (4-19) in the Statistical Tables of AASS 2022/23*

Additionally, among the agricultural households applied pesticides in Tanzania, 83.4 percent reported to apply insecticides, 27.0 percent herbicides and 13.2 percent fungicides. In Mainland Tanzania, application of insecticides was prevalent in Singida and Simiyu regions, whereby all households (100 percent) applied insecticides. Similarly, Manyara (99.5 percent) and Tabora (99.3 percent) regions had also high proportion of agricultural households applied insecticides. On the other hand, the proportion of agricultural households applied insecticides was slightly lower in Morogoro (52.9 percent) and Mbeya (59.2 percent). In Zanzibar, Mjini Magharibi (79.5 percent) and Kaskazini Pemba (72.7 percent) had higher proportion of agricultural households applied insecticides. In contrast, lowest proportion of agricultural households applied insecticides recorded in Kusini Pemba (50.2 percent) (Table 4.10).

**Table 4.10: Number and Percentage of Agricultural Households Engaged in Crop Production Applied Pesticides by Types and Region, During 2022/23 Agricultural Year, Tanzania**

Region	Households Applied Pesticides	Type of Pesticides									
		Insecticide		Herbicide		Fungicide		Rodenticide		Other Pesticide	
		Households	Percent	Households	Percent	Households	Percent	Households	Percent	Households	Percent
Dodoma	26,294	24,360	92.6	2,191	8.3	683	2.6	-	-	-	-
Arusha	166,100	160,908	96.9	18,374	11.1	11,087	6.7	1,513	0.9	399	0.2
Kilimanjaro	204,121	201,773	98.8	12,413	6.1	12,450	6.1	925	0.5	-	-
Tanga	101,837	95,315	93.6	8,444	8.3	20,792	20.4	-	-	-	-
Morogoro	315,876	167,224	52.9	226,892	71.8	29,655	9.4	1,562	0.5	2,836	0.9
Pwani	83,728	68,844	82.2	18,225	21.8	15,553	18.6	1,228	1.5	2,634	3.1
Dar es Salaam	82,736	72,594	87.7	19,810	23.9	14,328	17.3	750	0.9	-	-
Lindi	205,561	170,383	82.9	91,416	44.5	30,803	15.0	-	-	4,240	2.1
Mtwara	224,273	161,373	72.0	89,229	39.8	74,071	33.0	-	-	3,251	1.4
Ruvuma	174,836	120,131	68.7	83,298	47.6	24,318	13.9	-	-	4,908	2.8
Iringa	132,546	124,838	94.2	15,692	11.8	36,463	27.5	-	-	1,517	1.1
Mbeya	187,870	111,260	59.2	107,589	57.3	43,071	22.9	638	0.3	3,396	1.8
Singida	56,898	56,898	100.0	806	1.4	4,371	7.7	-	-	1,843	3.2
Tabora	102,855	102,101	99.3	2,744	2.7	3,452	3.4	610	0.6	-	-
Rukwa	73,364	70,070	95.5	6,802	9.3	1,269	1.7	-	-	-	-
Kigoma	31,674	25,728	81.2	6,432	20.3	2,854	9.0	-	-	-	-
Shinyanga	77,760	76,736	98.7	4,709	6.1	6,318	8.1	-	-	507	0.7
Kagera	59,049	44,194	74.8	16,312	27.6	7,266	12.3	-	-	7,954	13.5
Mwanza	130,448	125,651	96.3	5,427	4.2	3,762	2.9	902	0.7	254	0.2
Mara	48,242	31,190	64.7	19,105	39.6	4,197	8.7	-	-	-	-
Manyara	110,510	110,000	99.5	3,171	2.9	10,749	9.7	505	0.5	320	0.3
Njombe	151,212	144,846	95.8	17,692	11.7	32,882	21.7	752	0.5	-	-
Katavi	51,666	48,133	93.2	5,839	11.3	3,612	7.0	535	1.0	-	-
Simiyu	146,029	146,029	100.0	1,668	1.1	11,164	7.6	728	0.5	-	-
Geita	146,160	143,143	97.9	5,267	3.6	7,931	5.4	-	-	746	0.5
Songwe	122,766	83,363	67.9	71,694	58.4	12,927	10.5	-	-	5,111	4.2
Mainland Tanzania	3,214,410	2,687,086	83.6	861,241	26.8	426,027	13.3	10,648	0.3	39,915	1.2
Kaskazini Unguja	6,972	4,136	59.3	3,316	47.6	334	4.8	-	-	49	0.7
Kusini Unguja	6,229	3,816	61.3	4,247	68.2	1,066	17.1	155	2.5	168	2.7
Mjini Magharibi	5,375	4,276	79.5	1,945	36.2	168	3.1	-	-	-	-
Kaskazini Pemba	4,638	3,372	72.7	1,783	38.4	127	2.7	-	-	-	-
Kusini Pemba	5,890	2,956	50.2	3,510	59.6	227	3.9	-	-	-	-
Zanzibar	29,105	18,555	63.8	14,801	50.9	1,922	6.6	155	0.5	217	0.7
Tanzania	3,243,515	2,705,641	83.4	876,042	27.0	427,949	13.2	10,803	0.3	40,133	1.2

Source: Annex Table (4-19) in the Statistical Tables of AASS 2022/23

“– “ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

#### 4.2.3.1 Area applied with Pesticides

The results show that, out of the total planted area, 5,632,387 ha (32.7 percent) was applied with pesticides, whereby 5,383,858 ha were from agricultural households and 248,529 ha from large scale farms. Out of the total area applied with pesticides by agricultural households, 5,366,347 ha were from Mainland Tanzania and 17,511 ha from Zanzibar. Within regions in Mainland Tanzania, the highest percent of area applied with pesticides was reported in Njombe (73.2 percent), followed by Kilimanjaro (58.5 percent) and Lindi (58.4 percent), while Dodoma region had the lowest (2.7 percent). In Zanzibar, Kaskazini Unguja had the highest percentage of the planted area applied with pesticides (17.0 percent), followed by Kusini Unguja (15.9 percent), whereas Kaskazini Pemba region recorded the lowest (9.0 percent) (Table 4.11).

**Table 4.11: Area and Percentage Applied with Pesticides by Region During 2022/23 Agricultural Year, Tanzania**

Holding Category	Region	Area Planted with Crops (ha)	Area Applied with Pesticides	
			Area (ha)	Percent
Agricultural Households	Dodoma	1,161,360	31,193	2.7
	Arusha	400,809	226,526	56.5
	Kilimanjaro	389,702	228,118	58.5
	Tanga	797,988	152,279	19.1
	Morogoro	1,087,990	517,580	47.6
	Pwani	403,613	167,966	41.6
	Dar es Salaam	616,811	263,141	42.7
	Lindi	717,587	419,227	58.4
	Mtwara	1,180,243	652,490	55.3
	Ruvuma	1,143,122	390,354	34.1
	Iringa	307,226	168,418	54.8
	Mbeya	668,765	272,373	40.7
	Singida	763,538	75,458	9.9
	Tabora	764,187	138,107	18.1
	Rukwa	465,440	146,064	31.4
	Kigoma	347,972	26,425	7.6
	Shinyanga	550,867	133,058	24.2
	Kagera	941,199	91,665	9.7
	Mwanza	527,691	140,675	26.7
	Mara	516,368	54,345	10.5
	Manyara	616,304	173,223	28.1
	Njombe	281,440	206,092	73.2
	Katavi	281,101	69,921	24.9
	Simiyu	723,731	250,767	34.6

Holding Category	Region	Area Planted with Crops (ha)	Area Applied with Pesticides Area (ha)	Percent
	Geita	588,017	183,171	31.2
	Songwe	483,400	187,711	38.8
	<b>Mainland Tanzania</b>	<b>16,726,471</b>	<b>5,366,347</b>	<b>32.1</b>
	Kaskazini Unguja	24,612	4,188	17.0
	Kusini Unguja	26,110	4,157	15.9
	Mjini Magharibi	21,963	3,181	14.5
	Kaskazini Pemba	25,110	2,260	9.0
	Kusini Pemba	37,202	3,726	10.0
	<b>Zanzibar</b>	<b>134,997</b>	<b>17,511</b>	<b>13.0</b>
	<b>Tanzania</b>	<b>16,861,468</b>	<b>5,383,858</b>	<b>31.9</b>
Large Farms	Mainland Tanzania	376,125	246,852	65.6
	Zanzibar	3,149	1,677	53.2
	<b>Tanzania</b>	<b>379,274</b>	<b>248,529</b>	<b>65.5</b>
All Holdings	Mainland Tanzania	17,102,596	5,613,199	32.8
	Zanzibar	138,146	19,188	13.9
	<b>Tanzania</b>	<b>17,240,742</b>	<b>5,632,387</b>	<b>32.7</b>

Source: Annex Table (4-20) in the Statistical Tables of AASS 2022/23

#### 4.2.3.1 Area Applied with Pesticides by Type

##### Insecticides

The findings show that, out of the total area applied with insecticides, 4,259,829 ha occupied by agricultural households and 184,653 ha by large scale farms. In agricultural households, the area applied with insecticide was 4,249,867 ha in Mainland Tanzania and 9,963 ha in Zanzibar. Furthermore, the proportion of area applied with insecticides in Mainland Tanzania was higher in Simiyu (99.8 percent), Tabora (99.5 percent), Manyara (99.2 percent) and Dodoma (99.2 percent), and relatively lower in Mbeya (52.6 percent) and Morogoro (45.2 percent) regions. In Zanzibar, the proportion of area applied with insecticides was higher in Kaskazini Unguja (66.4 percent), Kusini Unguja (63.3 percent) and Mjini Magharibi (62.5 percent), while Kusini Pemba recorded lower (30.9 percent) (Table 4.12).

##### Herbicides

In Tanzania, 1,583,020 ha of the total planted area were applied with herbicides, whereby 1,420,819 ha were applied by agricultural households and 162,200 ha by large scale farms. Out of the total area applied with herbicides by agricultural households, 1,411,950 ha were in Mainland Tanzania and 8,870 ha in Zanzibar. In Mainland Tanzania, Morogoro and Mbeya

regions had highest proportion of area applied with herbicides with 64.1 and 62.7 percent respectively, whereas Tabora (1.6 percent), Manyara (2.6 percent) and Geita (3.0 percent) reported the lowest. In Zanzibar, Kusini Unguja and Kusini Pemba had the highest percent (72.1 and 70.8 respectively) of area applied with herbicides. On the contrary, area applied with herbicides was low in Kaskazini Unguja (25.7 percent) (Table 4.12).

### **Fungicides**

During the 2022/23 agricultural year, 811,592 ha were applied with fungicides, of which 762,901 ha was occupied by agricultural households and 48,691 ha by large scale farms. Out of the total planted area applied with fungicides by agricultural households, 761,597 ha were in Mainland Tanzania and 1,305 ha in Zanzibar. In Mainland Tanzania, highest proportion of area applied with fungicides was reported in Mtwara (39.3 percent), Dar es Salaam (34.7 percent) and Ruvuma (23.5 percent), while Tabora (2.9 percent), Mwanza (2.4 percent) and Katavi (1.9 percent) had lowest proportion. In Zanzibar, the proportion of planted area applied with fungicides in Kaskazini Unguja was 14.2 percent and 11.5 percent in Kusini Unguja (Table 4.12).

**Table 4.12: Area and Percentage Applied with Pesticides by Type and Region During 2022/23 Agricultural Year, Tanzania**

Holding Category	Region	Total Area Planted with Crops (ha)	Planted Area Applied with Pesticides		Pesticides Type									
					Insecticides		Herbicides		Fungicides		Rodenticides		Other pesticides	
			Area (ha)	Percent	Area (ha)	Percent	Area (ha)	Percent	Area (ha)	Percent	Area (ha)	Percent	Area (ha)	Percent
Agricultural Households	Dodoma	1,161,360	31,193	2.7	30,938	99.2	-	-	-	-	-	-	-	-
	Arusha	400,809	226,526	56.5	219,104	96.7	22,073	9.7	10,131	4.5	653	0.3	-	-
	Kilimanjaro	389,702	228,118	58.5	225,304	98.8	11,519	5.0	13,049	5.7	-	-	-	-
	Tanga	797,988	152,279	19.1	131,277	86.2	23,344	15.3	13,710	9.0	-	-	-	-
	Morogoro	1,087,990	517,580	47.6	233,699	45.2	331,774	64.1	37,429	7.2	-	-	2,056	0.4
	Pwani	403,613	167,966	41.6	146,554	87.3	22,406	13.3	13,132	7.8	-	-	831	0.5
	Dar es Salaam	616,811	263,141	42.7	220,994	84.0	47,592	18.1	91,378	34.7	-	-	-	-
	Lindi	717,587	419,227	58.4	353,391	84.3	165,792	39.5	59,374	14.2	-	-	10,182	2.4
	Mtwara	1,180,243	652,490	55.3	468,051	71.7	217,197	33.3	256,411	39.3	-	-	9,634	1.5
	Ruvuma	1,143,122	390,354	34.1	237,987	61.0	149,360	38.3	91,566	23.5	-	-	12,948	3.3
	Iringa	307,226	168,418	54.8	150,937	89.6	19,693	11.7	29,453	17.5	-	-	1,920	1.1
	Mbeya	668,765	272,373	40.7	143,401	52.6	170,686	62.7	36,645	13.5	-	-	11,877	4.4
	Singida	763,538	75,458	9.9	74,791	99.1	-	-	5,810	7.7	-	-	-	-
	Tabora	764,187	138,107	18.1	137,414	99.5	2,182	1.6	3,949	2.9	-	-	-	-
	Rukwa	465,440	146,064	31.4	125,082	85.6	20,982	14.4	-	-	-	-	-	-
	Kigoma	347,972	26,425	7.6	22,206	84.0	3,859	14.6	794	3.0	-	-	-	-
	Shinyanga	550,867	133,058	24.2	123,500	92.8	16,284	12.2	9,649	7.3	-	-	-	-
	Kagera	941,199	91,665	9.7	52,173	56.9	20,259	22.1	3,815	4.2	-	-	22,976	25.1
	Mwanza	527,691	140,675	26.7	133,128	94.6	6,888	4.9	3,399	2.4	-	-	-	-
	Mara	516,368	54,345	10.5	33,712	62.0	21,528	39.6	2,785	5.1	-	-	-	-
	Manyara	616,304	173,223	28.1	171,882	99.2	4,557	2.6	16,526	9.5	-	-	-	-
	Njombe	281,440	206,092	73.2	198,386	96.3	25,984	12.6	31,322	15.2	-	-	-	-
	Katavi	281,101	69,921	24.9	61,031	87.3	8,371	12.0	1,343	1.9	-	-	-	-
	Simiyu	723,731	250,767	34.6	250,218	99.8	-	-	14,703	5.9	-	-	-	-
	Geita	588,017	183,171	31.2	177,079	96.7	5,549	3.0	6,840	3.7	-	-	-	-
	Songwe	483,400	187,711	38.8	127,628	68.0	88,872	47.3	7,220	3.8	-	-	4,629	2.5
	<b>Mainland Tanzania</b>	<b>16,726,471</b>	<b>5,366,347</b>	<b>32.1</b>	<b>4,249,867</b>	<b>79.2</b>	<b>1,411,950</b>	<b>26.3</b>	<b>761,597</b>	<b>14.2</b>	<b>7,945</b>	<b>0.1</b>	<b>81,274</b>	<b>1.5</b>
	Kaskazini Unguja	24,612	4,188	17.0	2,782	66.4	1,078	25.7	595	14.2	-	-	-	-
	Kusini Unguja	26,110	4,157	15.9	2,673	64.3	2,999	72.1	480	11.5	-	-	-	-
	Mjini Magharibi	21,963	3,181	14.5	1,989	62.5	1,235	38.8	-	-	-	-	-	-
	Kaskazini Pemba	25,110	2,260	9.0	1,366	60.5	918	40.6	-	-	-	-	-	-
	Kusini Pemba	37,202	3,726	10.0	1,152	30.9	2,640	70.8	-	-	-	-	-	-
	<b>Zanzibar</b>	<b>134,997</b>	<b>17,511</b>	<b>13.0</b>	<b>9,963</b>	<b>56.9</b>	<b>8,870</b>	<b>50.7</b>	<b>1,305</b>	<b>7.5</b>	<b>-</b>	<b>-</b>	<b>167</b>	<b>1.0</b>
	<b>Tanzania</b>	<b>16,861,468</b>	<b>5,383,858</b>	<b>31.9</b>	<b>4,259,829</b>	<b>79.1</b>	<b>1,420,819</b>	<b>26.4</b>	<b>762,901</b>	<b>14.2</b>	<b>7,961</b>	<b>0.1</b>	<b>81,441</b>	<b>1.5</b>
Large Scale Farms	Mainland Tanzania	376,125	246,852	65.6	184,402	74.7	160,568	65.0	48,678	19.7	1,171	0.5	1,158	0.5
	Zanzibar	3,149	1,677	53.2	251	15.0	1,633	97.4	13	0.8	-	-	-	-
	<b>Tanzania</b>	<b>379,274</b>	<b>248,529</b>	<b>65.5</b>	<b>184,653</b>	<b>74.3</b>	<b>162,200</b>	<b>65.3</b>	<b>48,691</b>	<b>19.6</b>	<b>1,171</b>	<b>0.5</b>	<b>1,158</b>	<b>0.5</b>
Total	Mainland Tanzania	17,102,596	5,613,199	32.8	4,434,269	79.0	1,572,518	28.0	810,274	14.4	9,117	0.2	82,432	1.5
	Zanzibar	138,146	19,188	13.9	10,213	53.2	10,502	54.7	1,318	6.9	-	-	167	0.9
	<b>Tanzania</b>	<b>17,240,742</b>	<b>5,632,387</b>	<b>32.7</b>	<b>4,444,483</b>	<b>78.9</b>	<b>1,583,020</b>	<b>28.1</b>	<b>811,592</b>	<b>14.4</b>	<b>9,132</b>	<b>0.2</b>	<b>82,599</b>	<b>1.5</b>

Source: Annex Table (4-20) in the Statistical Tables of AASS 2022/23



### 5.1 Introduction

Access to financial services, particularly credit plays a critical role in advancing agricultural production in Tanzania. Farmers, who form the backbone of the country's economy, often require capital to invest in improved seeds and breeds, fertilizers, machinery, livestock and aquaculture production and inputs etc. Efforts to improve this access through micro-finance institutions, government-backed programs, and innovative financial technology solutions are essential to empower farmers, boost productivity, and enhance food security in the country, ultimately contributing to Tanzania's broader economic growth.

### 5.2. Access to Loans

The results show that, in Tanzania, 4.9 percent of agricultural households and 11.5 percent of large scale farms accessed loans for various agricultural purposes. The most common loan providers to agricultural households were private money lenders (29.7 percent), followed by friends or family living in the country (21.1 percent), micro-finance institutions (18.7 percent), cooperatives (11.5 percent) and the NGOs (7.0 percent). However, public banks or other government institutions and commercial banks contributed a smaller share (less than 6 percent) (Table 5.1).

In Mainland Tanzania, 5.0 percent of agricultural households received loans with a similar distribution of loan providers, while in Zanzibar, only 0.7 percent of agricultural households took loans, with a higher dependence on micro-finance institutions (29.3 percent) and NGOs (21.0 percent). Large scale farms in Mainland Tanzania depended more on commercial banks (41.4 percent), whereas Zanzibar relied more on public banks and private money lenders each with 33.3 percent. These findings reflect notable differences in the prevalence and sources of agricultural loans between the Mainland and Zanzibar, suggesting varying access to and reliance on different financial institutions (Table 5.1).

**Table 5.1: Number and Percentages of Agricultural Households with Agricultural Loans, by Region and Type of Lender, During 2022/23 Agricultural year, Tanzania**

Holding category	Agricultural Household			Large Scale farms		
Area	Mainland Tanzania	Zanzibar	Tanzania	Mainland Tanzania	Zanzibar	Tanzania
<b>Contracted a Loan for Agricultural Purposes</b>						
Number of Holdings	441,385	1,099	<b>442,485</b>	128	9	<b>137</b>
Percent of Holdings	5	0.7	<b>4.9</b>	11.8	9	<b>11.5</b>
<b>Main Loan Provider</b>						
Public banks or other gov Institutions	5.3	15.6	<b>5.4</b>	25.8	33.3	<b>26.3</b>
Commercial banks	5	11.8	<b>5.1</b>	41.4	22.2	<b>40.1</b>
Insurance companies	0.2	0	<b>0.2</b>	0	0	<b>0</b>
Microfinance institutions	18.7	29.3	<b>18.7</b>	6.3	11.1	<b>6.6</b>
NGOs	7	21	<b>7</b>	0	0	<b>0</b>
Production cooperatives	11.5	14.5	<b>11.5</b>	9.4	0	<b>8.8</b>
Private money lender	29.8	1	<b>29.7</b>	9.4	33.3	<b>10.9</b>
Friends or family- living in the country	21.2	6.9	<b>21.1</b>	4.7	0	<b>4.4</b>
Friends or family- living abroad	0.3	0	<b>0.3</b>	0.8	0	<b>0.7</b>
Other	1	0	<b>1</b>	2.3	0	<b>2.2</b>

Source: Annex Table (9-2) in Statistical Table of AASS 2022/23



**Table 2-1: Number and Percentage of Agricultural Households by Season and Region in Tanzania for 2022/23 Agricultural Year**

Holding Category	Region	Short Rainy Season		Long Rainy Season		Agricultural year					
		Number of Cropping Households	Percent of Cropping Households*	Number of Cropping Households	Percent of Cropping Households*	Number of Cropping Households	Percent of Cropping Households*	Number of Livestock Households	Percent of Livestock Households*	Number of Agricultural Households	Percent of Agricultural Households*
Agricultural Household	Dodoma	15,027	0.3	548,049	8.4	549,931	6.3	266,731	5.0	553,124	6.3
	Arusha	130,523	2.5	217,382	3.3	285,716	3.3	279,257	5.2	337,055	3.8
	Kilimanjaro	276,494	5.4	315,174	4.8	326,175	3.8	290,907	5.5	335,627	3.8
	Tanga	361,811	7.0	409,526	6.3	458,973	5.3	237,264	4.4	462,923	5.3
	Morogoro	432,760	8.4	355,052	5.5	555,617	6.4	227,476	4.3	560,248	6.4
	Pwani	199,521	3.9	200,036	3.1	248,579	2.9	156,591	2.9	261,038	3.0
	Dar es Salaam	188,555	3.7	131,329	2.0	214,659	2.5	51,485	1.0	240,681	2.7
	Lindi	102,376	2.0	276,926	4.3	276,926	3.2	99,640	1.9	278,215	3.2
	Mtwara	388,723	7.6	192,799	3.0	394,048	4.5	175,707	3.3	394,048	4.5
	Ruvuma	70,315	1.4	376,275	5.8	376,275	4.3	101,063	1.9	376,275	4.3
	Iringa	91,315	1.8	170,404	2.6	235,319	2.7	156,140	2.9	236,483	2.7
	Mbeya	157,170	3.1	334,012	5.1	386,423	4.5	215,681	4.0	392,725	4.5
	Singida	10,726	0.2	306,946	4.7	306,946	3.5	267,432	5.0	308,882	3.5
	Tabora	127,485	2.5	321,174	4.9	441,841	5.1	333,336	6.2	444,349	5.0
	Rukwa	14,460	0.3	242,224	3.7	247,649	2.9	131,974	2.5	247,649	2.8
	Kigoma	231,408	4.5	153,316	2.4	319,151	3.7	144,856	2.7	319,151	3.6
	Shinyanga	61,366	1.2	256,640	3.9	274,931	3.2	177,699	4.1	275,456	3.1
	Kagera	542,683	10.6	509,650	7.8	548,229	6.3	348,605	6.5	548,229	6.2
	Mwanza	360,307	7.0	170,952	2.6	397,632	4.6	283,285	5.3	401,578	4.6
	Mara	276,857	5.4	265,186	4.1	316,667	3.7	254,341	4.8	322,464	3.7
	Manyara	229,585	4.5	117,814	1.8	296,749	3.4	241,858	4.5	306,858	3.5
	Njombe	36,183	0.7	192,259	3.0	192,992	2.2	126,255	2.4	195,146	2.2
	Katavi	149,060	2.9	14,209	0.2	150,583	1.7	115,999	2.2	150,583	1.7
	Simiyu	250,702	4.9	57,947	0.9	254,526	2.9	225,414	4.2	257,261	2.9
	Geita	341,002	6.6	157,608	2.4	361,603	4.2	205,658	3.9	362,130	4.1
	Songwe	86,213	1.7	213,194	3.3	245,857	2.8	181,002	3.4	246,468	2.8
	<b>Mainland Tanzania</b>	<b>5,132,624</b>	<b>100</b>	<b>6,506,085</b>	<b>100</b>	<b>8,663,996</b>	<b>100</b>	<b>5,335,658</b>	<b>100</b>	<b>8,814,646</b>	<b>100</b>
	Kaskazini Unguja	24,890	17.8	24,065	16.5	27,167	17.9	18,013	18.3	27,489	17.7
	Kusini Unguja	25,249	18.1	26,598	18.3	26,872	17.7	18,112	18.4	27,506	17.7
	Mjini Magharibi	34,288	24.5	34,976	24.0	37,264	24.5	15,257	15.5	38,983	25.1
	Kaskazini Pemba	27,648	19.8	31,476	21.6	31,997	21.0	23,960	24.3	32,207	20.7
	Kusini Pemba	27,659	19.8	28,482	19.6	28,825	18.9	23,208	23.5	29,265	18.8
	<b>Zanzibar</b>	<b>139,734</b>	<b>100</b>	<b>145,598</b>	<b>100</b>	<b>152,126</b>	<b>100</b>	<b>98,550</b>	<b>100</b>	<b>155,450</b>	<b>100</b>
	<b>Tanzania</b>	<b>5,272,358</b>	<b>100</b>	<b>6,651,682</b>	<b>100</b>	<b>8,816,122</b>	<b>100</b>	<b>5,434,209</b>	<b>100</b>	<b>8,970,096</b>	<b>100</b>
Large Scale Farms	Mainland Tanzania	497	94.8	840	96.9	881	96.7	630	92.4	1,040	93.6
	Zanzibar	27	5.2	27	3.1	30	3.3	52	7.6	71	6.4
	<b>Tanzania</b>	<b>524</b>	<b>100</b>	<b>867</b>	<b>100</b>	<b>911</b>	<b>100</b>	<b>682</b>	<b>100</b>	<b>1,111</b>	<b>100</b>

**Table 3-1: Number and Percentage of Agricultural Households, by Type of Farm Activities and Sex of Head in Tanzania for 2022/23 Agricultural Year**

Region	Agricultural Households Engaged in Crop Production			Agricultural Households Engaged in Livestock Production Out of Total			Agricultural Households Engaged in Aquaculture Production Out of Total Agricultural Households			Total		
	Male-Headed	Female-Headed	All	Male-Headed	Female-Headed	All	Male-Headed	Female-Headed	All	Male-Headed	Female-Headed	All
Dodoma	99.2	100.0	99.4	50.7	41.5	48.2	0.0	0.0	0.0	404,505	148,619	553,124
Arusha	87.8	79.6	84.8	83.2	82.3	82.9	0.3	0.0	0.2	213,194	123,861	337,055
Kilimanjaro	96.1	99.5	97.2	86.2	87.7	86.7	0.7	0.0	0.5	224,963	110,664	335,627
Tanga	99.1	99.2	99.1	53.3	45.6	51.3	0.7	0.0	0.6	341,187	121,736	462,923
Morogoro	99.2	99.2	99.2	45.2	27.9	40.6	0.1	0.0	0.1	411,396	148,852	560,248
Pwani	95.6	93.9	95.2	61.9	54.0	60.0	4.8	0.0	3.7	197,348	63,690	261,038
Dar es Salaam	89.0	89.6	89.2	23.8	16.4	21.4	2.2	0.0	1.5	161,400	79,281	240,681
Lindi	100	98.6	99.5	35.2	37.2	35.8	0.0	0.0	0.0	187,764	90,451	278,215
Mtwara	100	100	100	45.8	41.8	44.6	0.0	0.0	0.0	277,727	116,321	394,048
Ruvuma	100	100	100	31.1	14.3	26.9	0.7	1.2	0.8	281,973	94,303	376,275
Iringa	99.2	100	99.5	67.2	63.9	66.0	0.6	0.3	0.5	152,818	83,665	236,483
Mbeya	98.5	98.1	98.4	58.0	47.6	54.9	0.6	0.0	0.4	276,102	116,623	392,725
Singida	99.2	100	99.4	86.8	85.9	86.6	0.0	0.0	0.0	241,932	66,950	308,882
Tabora	99.3	100	99.4	78.0	65.0	75.0	0.7	0.0	0.5	342,464	101,885	444,349
Rukwa	100	100	100	54.5	49.1	53.3	0.4	0.0	0.3	193,806	53,843	247,649
Kigoma	100	100	100	51.3	30.7	45.4	0.0	0.0	0.0	227,605	91,546	319,151
Shinyanga	100	99.0	99.8	78.4	81.6	79.0	0.0	0.0	0.0	221,279	54,177	275,456
Kagera	100	100	100.0	66.8	54.6	63.6	0.4	0.0	0.3	404,075	144,154	548,229
Mwanza	99.2	98.5	99.0	71.9	66.7	70.5	0.2	0.0	0.2	297,575	104,003	401,578
Mara	98.2	98.1	98.2	83.0	69.0	78.9	0.2	0.0	0.1	227,839	94,625	322,464
Manyara	97.2	95.3	96.7	78.4	79.9	78.8	0.0	0.0	0.0	228,226	78,632	306,858
Njombe	98.4	100	98.9	71.2	50.6	64.7	0.0	0.0	0.0	133,614	61,532	195,146
Katavi	100	100	100	80.2	62.2	77.0	0.2	0.0	0.2	123,808	26,775	150,583
Simiyu	98.6	100	98.9	87.5	88.1	87.6	0.0	0.0	0.0	199,913	57,348	257,261
Geita	99.8	100	99.9	58.1	52.8	56.8	0.5	0.0	0.4	271,787	90,343	362,130
Songwe	100.0	99.1	99.8	76.5	64.7	73.4	1.8	0.7	1.5	181,923	64,545	246,468
<b>Mainland Tanzania</b>	<b>98.5</b>	<b>97.8</b>	<b>98.3</b>	<b>62.9</b>	<b>54.3</b>	<b>60.5</b>	<b>0.5</b>	<b>0.1</b>	<b>0.4</b>	<b>6,426,225</b>	<b>2,388,421</b>	<b>8,814,646</b>
Kaskazini Unguja	99.2	97.1	98.8	67.5	55.9	65.5	1.8	4.3	2.3	22,888	4,601	27,489
Kusini Unguja	97.2	100	97.7	67.7	57.8	65.8	8.2	11.0	8.7	22,443	5,063	27,506
Mjini Magharibi	96.0	93.8	95.6	39.1	39.4	39.1	0.0	0.0	0.0	32,200	6,783	38,983
Kaskazini Pemba	99.2	100	99.3	76.6	66.2	74.4	14.5	16.2	14.9	25,422	6,785	32,207
Kusini Pemba	99.4	94.8	98.5	81.3	71.1	79.3	1.8	0.0	1.4	23,447	5,818	29,265
<b>Zanzibar</b>	<b>98.0</b>	<b>97.1</b>	<b>97.9</b>	<b>64.7</b>	<b>57.8</b>	<b>63.4</b>	<b>5.0</b>	<b>6.4</b>	<b>5.3</b>	<b>126,399</b>	<b>29,051</b>	<b>155,450</b>
<b>Tanzania</b>	<b>98.5</b>	<b>97.8</b>	<b>98.3</b>	<b>62.9</b>	<b>54.3</b>	<b>60.6</b>	<b>0.6</b>	<b>0.2</b>	<b>0.5</b>	<b>6,552,624</b>	<b>2,417,472</b>	<b>8,970,096</b>

**Table 3-4: Land Area by Use for Short and Long Rainy Seasons in Mainland, Zanzibar and Tanzania for 2022/23 Agriculture Year**

Holding Category	State	Land Use	Short Rainy Season				Long Rainy Season			
			Average (Ha)	Total (Ha)	Percent of Agricultural Households	Total Households	Average (Ha)	Total (Ha)	Percent of Agricultural Households	Total Households
Agricultural Households	Mainland Tanzania	Area under Temporary Mono Crop	0.6	3,262,629	49.4	2,871,575	0.8	6,020,346	63.1	4,500,999
		Area under Temporary Mixed Crops	0.4	2,275,570	48.3	2,806,245	0.3	2,392,373	38.8	2,765,769
		Area under Fallow	0.3	1,707,922	16	928,128	0.2	1,540,798	13.8	982,740
		Area under Permanent /Temporary mix	0.2	1,088,386	20.8	1,205,181	0.1	937,934	13.8	986,226
		Area under Permanent Mono Crops	0.1	693,749	9.7	565,910	0.1	713,386	8.4	595,641
		Area under Permanent Mixed Crops	0.1	636,047	24.9	1,448,073	0.1	596,334	17.4	1,243,653
	Zanzibar Tanzania	Area under Temporary Mono Crop	0.2	23,817	56.8	79,483	0.2	33,554	62.4	90,841
		Area under Temporary Mixed Crops	0.1	12,428	43	60,201	0.1	13,711	45.6	66,355
		Area under Fallow	0	303	0.8	1,077	0	106	0.4	552
		Area under Permanent /Temporary mix	0.1	18,606	35.3	49,392	0.1	18,346	33.8	49,174
		Area under Permanent Mono Crops	0.1	9,635	36.9	51,638	0.1	8,581	33.6	48,980
		Area under Permanent Mixed Crops	0.1	16,007	44	61,564	0.1	16,290	41.8	60,825
	Tanzania	Area under Temporary Mono Crop	0.6	3,286,446	49.6	2,951,057	0.8	6,053,900	63.1	4,591,840
		Area under Temporary Mixed Crops	0.4	2,287,998	48.2	2,866,446	0.3	2,406,084	38.9	2,832,124
		Area under Fallow	0.3	1,708,224	15.6	929,205	0.2	1,540,904	13.5	983,292
		Area under Permanent /Temporary mix	0.2	1,106,992	21.1	1,254,573	0.1	956,280	14.2	1,035,401
		Area under Permanent Mono Crops	0.1	703,383	10.4	617,548	0.1	721,967	8.9	644,621
		Area under Permanent Mixed Crops	0.1	652,054	25.4	1,509,637	0.1	612,623	17.9	1,304,478
Large Scale Farms	Mainland Tanzania	Area under Temporary Mono Crop	38.3	21,652	28.5	161	48.4	41,931	59.6	517
		Area under Temporary Mixed Crops	2.4	1,344	11.3	64	1.8	1,552	16.5	143
		Area under Fallow	27.4	15,499	16.5	93	17.9	15,514	7.8	68
		Area under Permanent /Temporary mix	7.6	4,318	3.7	21	2.2	1,920	6.2	54
		Area under Permanent Mono Crops	259	146,307	59.8	338	175.5	152,149	44.2	383
		Area under Permanent Mixed Crops	6.6	3,751	7.1	40	2.3	1,977	8.8	76
	Zanzibar	Area under Temporary Mono Crop	3.6	100	57.1	16	5.2	145	60.7	17
		Area under Temporary Mixed Crops	0	0	3.6	1	0	0	0	-
		Area under Fallow	1.5	42	7.1	2	28.4	796	3.6	1
		Area under Permanent /Temporary mix	0	0	3.6	1	0	0	0	-
		Area under Permanent Mono Crops	84.6	2,368	60.7	17	19.1	535	39.3	11
		Area under Permanent Mixed Crops	0	1	7.1	2	0	1	3.6	1
	Tanzania	Area under Temporary Mono Crop	36.7	21,752	29.8	177	47	42,076	59.7	534
		Area under Temporary Mixed Crops	2.3	1,344	11	65	1.7	1,552	16	143
		Area under Fallow	26.2	15,541	16	95	18.2	16,310	7.7	69
		Area under Permanent /Temporary mix	7.3	4,318	3.7	22	2.1	1,920	6	54
		Area under Permanent Mono Crops	250.7	148,675	59.9	355	170.6	152,683	44	394
		Area under Permanent Mixed Crops	6.3	3,752	7.1	42	2.2	1,978	8.6	77

**Table 3-6: Proportion of Land by Ownership Status within Region in Tanzania for 2022/23 Agricultural Year**

Holdings Category	Region	Customary right of occupancy	Granted right of occupancy	Purchased	Rented/ Leased in	Share cropped in	Borrowed for free	Moved in without permission	Communal land rights	Other	Total
Agricultural Households	Dodoma	51.7	0	25.3	18.8	0	0.9	2.8	0.3	0.2	100
	Arusha	64.4	1.5	12	14.6	2.1	4.5	0	0.7	0.2	100
	Kilimanjaro	53.1	1.9	16.8	15.7	2	7.6	0.1	1.2	1.6	100
	Tanga	60.1	1.1	21.4	5.8	0	5.9	0.4	0.7	4.5	100
	Morogoro	44.6	2.3	19.2	19.8	0.1	6.5	0.8	6.7	0	100
	Pwani	47.1	0.5	30	5.9	0	13.1	2.4	0.8	0.2	100
	Dar es Salaam	34.2	2.7	6.9	6	0	27.1	23	0.1	0	100
	Lindi	48.4	0	14.2	4.9	0.1	8.9	11.9	0	11.6	100
	Mtwara	48.7	0.3	37.9	2.3	0	2.3	8.1	0.4	0	100
	Ruvuma	60.4	0	29.2	4.8	0	1.9	2.8	0.8	0	100
	Iringa	65.9	1.3	18.9	9.9	0.6	2.6	0.1	0.5	0.1	100
	Mbeya	59	0.3	24.3	12.5	0.2	2.4	0.4	0.1	0.9	100
	Singida	44.3	0	44	6.3	0.1	2.5	2.1	0.1	0.7	100
	Tabora	70.3	2.1	19.1	6.4	0.2	1.7	0	0.3	0	100
	Rukwa	44.2	1.1	40.7	8.9	0	1.4	0	3.6	0	100
	Kigoma	38.6	0	45	8.6	0	4.1	2.7	0.7	0.3	100
	Shinyanga	46.8	0.1	32.1	15.8	0	2.7	0.2	1.9	0.3	100
	Kagera	47.6	0	42.7	5	0.3	3.1	0	0.9	0.5	100
	Mwanza	53.9	0.7	24.1	14.2	0.1	4.7	0.2	2.1	0	100
	Mara	79.1	2.5	9.8	7.6	0	1	0	0	0	100
	Manyara	54	1.2	20.1	12.4	0.2	5.3	2.8	3.7	0.3	100
	Njombe	71.5	0	15.4	11.7	0	0.9	0	0.5	0	100
	Katavi	13.6	0	59.5	19.5	0	4.6	0.7	1.3	0.7	100
	Simiyu	83.3	0.3	3.6	12	0.1	0.6	0	0	0.2	100
	Geita	34.2	0	44.9	17.7	0.1	2.1	0.1	0.9	0	100
	Songwe	38.6	2.1	23.4	10.4	0	3.6	9.1	3	9.8	100
	<b>Mainland Tanzania</b>	<b>52.3</b>	<b>0.8</b>	<b>25.9</b>	<b>10.3</b>	<b>0.2</b>	<b>4.8</b>	<b>3.3</b>	<b>1.3</b>	<b>1.1</b>	<b>100</b>
	Kaskazini Unguja	58.1	2.6	5.4	3.2	0	27.1	0.4	3.2	0	100
	Kusini Unguja	47.3	1.5	36.1	2.1	0.5	10.7	0.9	0.7	0.2	100
	Mjini Magharibi	15.7	24.7	23.8	0.5	0.6	25.4	3.1	6.1	0	100
	Kaskazini Pemba	47.8	1.8	6.8	0.4	0.1	37.7	0	2.9	2.4	100
	Kusini Pemba	49.7	0.2	7.1	1.2	0.1	41.4	0	0.4	0	100
	<b>Zanzibar</b>	<b>44.4</b>	<b>5.4</b>	<b>16.3</b>	<b>1.5</b>	<b>0.3</b>	<b>28.5</b>	<b>0.8</b>	<b>2.4</b>	<b>0.5</b>	<b>100</b>
	<b>Tanzania</b>	<b>52.3</b>	<b>0.9</b>	<b>25.9</b>	<b>10.3</b>	<b>0.2</b>	<b>4.9</b>	<b>3.3</b>	<b>1.3</b>	<b>1</b>	<b>100</b>
Large Scale Farms	Mainland Tanzania	-	-	-	-	-	-	-	-	-	-
	Zanzibar	-	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	-	-	-	-	-	-	-	-	-	-
All Holdings	Mainland Tanzania	52.3	0.8	25.9	10.3	0.2	4.8	3.3	1.3	1.1	100
	Zanzibar	44.4	5.4	16.3	1.5	0.3	28.5	0.8	2.4	0.5	100
	<b>Tanzania</b>	<b>52.3</b>	<b>0.9</b>	<b>25.9</b>	<b>10.3</b>	<b>0.2</b>	<b>4.9</b>	<b>3.3</b>	<b>1.3</b>	<b>1</b>	<b>100</b>

“-” Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 4-2: Number and Percentage of Agricultural Holdings with an Irrigation System and total Area Irrigated by Method of Irrigation and Region During 2022/23 Agricultural Year, Tanzania - Short Rainy Season**

Holding Category	Region	Number of Holding	Number of Holdings Irrigated		Method of irrigation									
					Watering cans method		Sprinkler method		Drip method		Flooding method		Other methods	
			Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Agricultural Households	Dodoma	15,027	8,524	56.7	707	4.7	4,122	27.4	3,894	25.9	6,303	41.9	0	0.0
	Arusha	130,523	14,910	11.4	26,000	19.9	4,612	3.5	0	0.0	94,382	72.3	9,515	7.3
	Kilimanjaro	276,494	86,802	31.4	40,694	14.7	14,252	5.2	1,585	0.6	185,941	67.2	36,969	13.4
	Tanga	361,811	10,346	2.9	210,885	58.3	31,688	8.8	0	0.0	58,806	16.3	60,432	16.7
	Morogoro	432,760	43,968	10.2	132,971	30.7	22,305	5.2	0	0.0	218,486	50.5	68,110	15.7
	Pwani	199,521	14,798	7.4	180,485	90.5	10,197	5.1	0	0.0	8,840	4.4	0	0.0
	Dar es Salaam	188,555	28,113	14.9	118,364	62.8	42,177	22.4	17,381	9.2	2,810	1.5	15,052	8.0
	Lindi	102,376	1,297	1.3	-	-	-	-	-	-	-	-	-	-
	Mtwara	388,723	6,969	1.8	294,771	75.8	46,976	12.1	0	0.0	0	0.0	46,976	12.1
	Ruvuma	70,315	5,741	8.2	39,387	56.0	9,298	13.2	9,298	13.2	24,920	35.4	0	0.0
	Iringa	91,315	11,685	12.8	55,449	60.7	20,789	22.8	0	0.0	8,780	9.6	6,297	6.9
	Mbeya	157,170	16,901	10.8	106,706	67.9	25,152	16.0	0	0.0	7,104	4.5	18,207	11.6
	Singida	10,726	6,325	59.0	10,726	100.0	0	0.0	0	0.0	0	0.0	0	0.0
	Tabora	127,485	15,033	11.8	39,059	30.6	0	0.0	0	0.0	88,425	69.4	0	0.0
	Rukwa	14,460	898	6.2	-	-	-	-	-	-	-	-	-	-
	Kigoma	231,408	4,245	1.8	72,120	31.2	0	0.0	0	0.0	63,001	27.2	96,287	41.6
	Shinyanga	61,366	1,033	1.7	-	-	-	-	-	-	-	-	-	-
	Kagera	542,683	5,623	1.0	252,534	46.5	0	0.0	0	0.0	195,097	36.0	95,052	17.5
	Mwanza	360,307	33,310	9.2	61,558	17.1	13,458	3.7	0	0.0	282,282	78.3	4,877	1.4
	Mara	276,857	8,392	3.0	91,946	33.2	102,874	37.2	11,906	4.3	0	0.0	70,132	25.3
	Manyara	229,585	8,268	3.6	24,622	10.7	44,431	19.4	28,319	12.3	95,753	41.7	44,601	19.4
	Njombe	36,183	16,041	44.3	22,915	63.3	10,505	29.0	0	0.0	0	0.0	2,763	7.6
	Katavi	149,060	1,230	0.8	37,040	24.8	0	0.0	0	0.0	112,019	75.2	0	0.0
	Simiyu	250,702	1,797	0.7	54,747	21.8	0	0.0	0	0.0	70,963	28.3	124,992	49.9
	Geita	341,002	6,839	2.0	240,967	70.7	60,704	17.8	0	0.0	64,427	18.9	12,111	3.6
	Songwe	86,213	6,564	7.6	38,741	44.9	2,628	3.0	0	0.0	7,575	8.8	37,269	43.2
	<b>Mainland Tanzania</b>	<b>5,132,624</b>	<b>365,654</b>	<b>7.1</b>	<b>1,936,561</b>	<b>37.7</b>	<b>513,194</b>	<b>10.0</b>	<b>104,408</b>	<b>2.0</b>	<b>2,090,888</b>	<b>40.7</b>	<b>566,520</b>	<b>11.0</b>
	Kaskazini Unguja	24,890	4,202	16.9	15,603	62.7	4,699	18.9	849	3.4	4,108	16.5	0	0.0
	Kusini Unguja	25,249	5,070	20.1	7,281	28.8	3,739	14.8	7,818	31.0	7,789	30.8	0	0.0
	Mjini Magharibi	34,288	11,296	32.9	21,903	63.9	4,667	13.6	4,936	14.4	2,359	6.9	1,028	3.0
	Kaskazini Pemba	27,648	3,484	12.6	19,908	72.0	1,526	5.5	1,820	6.6	5,116	18.5	0	0.0
	Kusini Pemba	27,659	2,054	7.4	7,205	26.0	0	0.0	1,562	5.6	15,836	57.3	3,056	11.0
	<b>Zanzibar</b>	<b>139,734</b>	<b>26,106</b>	<b>18.7</b>	<b>76,838</b>	<b>55.0</b>	<b>17,524</b>	<b>12.5</b>	<b>19,722</b>	<b>14.1</b>	<b>25,990</b>	<b>18.6</b>	<b>3,027</b>	<b>2.2</b>
	<b>Tanzania</b>	<b>5,272,358</b>	<b>391,760</b>	<b>7.4</b>	<b>2,049,920</b>	<b>38.9</b>	<b>536,099</b>	<b>10.2</b>	<b>149,691</b>	<b>2.8</b>	<b>2,070,033</b>	<b>39.3</b>	<b>550,775</b>	<b>10.4</b>
Large Scale Farms	Mainland Tanzania	497	154	31.0	77	15.6	148	29.9	161	32.5	113	22.7	35	7.1
	Zanzibar	27	15	55.6	11	40.0	2	6.7	9	33.3	5	20.0	0	0.0
	<b>Tanzania</b>	<b>524</b>	<b>169</b>	<b>32.3</b>	<b>93</b>	<b>17.8</b>	<b>146</b>	<b>27.8</b>	<b>171</b>	<b>32.5</b>	<b>118</b>	<b>22.5</b>	<b>34</b>	<b>6.5</b>

“-” Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)



**Table 4-2 (ctd): Number and Percentage of Agricultural Holdings with an Irrigation System and total Area Irrigated by Method of Irrigation and Region During 2022/23 Agricultural Year, Tanzania - Long Rainy Season**

Holding Category	Region	Number of Holding Engaged in Crop Production	Number of Holdings Irrigated		Number of Holding using Watering cans method		Number of Holding using Sprinkler method		Method of irrigation					
									Number of Holding using Drip method		Number of Holding using Flooding method		Number of Holding using Other methods	
			Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Agricultural Households	Dodoma	548,049	5,626	1.0	49,594	9.0	136,158	24.8	0	0.0	256,672	46.8	39,064	7.1
	Arusha	217,382	24,177	11.1	27,017	12.4	14,649	6.7	1,831	0.8	160,046	73.6	9,102	4.2
	Kilimanjaro	315,174	67,278	21.3	42,779	13.6	14,751	4.7	0	0.0	190,112	60.3	23,502	7.5
	Tanga	409,526	7,880	1.9	220,880	53.9	122,326	29.9	0	0.0	66,320	16.2	12,910	3.2
	Morogoro	355,052	60,143	16.9	147,630	41.6	20,176	5.7	0	0.0	175,903	49.5	16,809	4.7
	Pwani	200,036	15,227	7.6	190,101	95.0	9,935	5.0	0	0.0	0	0.0	0	0.0
	Dar es Salaam	131,329	40,086	30.5	93,463	71.2	13,541	10.3	6,597	5.0	29,617	22.6	0	0.0
	Lindi	276,926	1,297	0.5	-	-	-	-	-	-	-	-	-	-
	Mtwara	192,799	4,226	2.2	135,644	70.4	0	0.0	0	0.0	0	0.0	0	0.0
	Ruvuma	376,275	20,816	5.5	109,336	29.1	0	0.0	0	0.0	117,662	31.3	149,277	39.7
	Iringa	170,404	25,598	15.0	98,472	57.8	18,884	11.1	0	0.0	45,957	27.0	2,682	1.6
	Mbeya	334,012	16,646	5.0	9,478	2.8	52,452	15.7	0	0.0	148,163	44.4	110,487	33.1
	Singida	306,946	14,304	4.7	239,390	78.0	0	0.0	0	0.0	67,556	22.0	0	0.0
	Tabora	321,174	4,735	1.5	98,110	30.5	0	0.0	22,561	7.0	188,054	58.6	0	0.0
	Rukwa	242,224	14,551	6.0	31,769	13.1	0	0.0	0	0.0	131,611	54.3	36,080	14.9
	Kigoma	153,316	8,910	5.8	139,619	91.1	0	0.0	0	0.0	13,697	8.9	0	0.0
	Shinyanga	256,640	5,364	2.1	181,237	70.6	0	0.0	25,977	10.1	0	0.0	98,850	38.5
	Kagera	509,650	6,833	1.3	358,891	70.4	0	0.0	0	0.0	150,760	29.6	0	0.0
	Mwanza	170,952	9,495	5.6	95,821	56.1	14,296	8.4	9,429	5.5	40,039	23.4	16,235	9.5
	Mara	265,186	4,942	1.9	143,721	54.2	121,465	45.8	0	0.0	0	0.0	0	0.0
	Manyara	117,814	7,353	6.2	28,627	24.3	8,492	7.2	0	0.0	52,930	44.9	32,462	27.6
	Njombe	192,259	8,635	4.5	81,825	42.6	74,620	38.8	10,419	5.4	0	0.0	25,395	13.2
	Katavi	14,209	5,792	40.8	7,127	50.2	1,162	8.2	0	0.0	3,106	21.9	2,814	19.8
	Simiyu	57,947	1,624	2.8	-	-	-	-	-	-	-	-	-	-
	Geita	157,608	8,637	5.5	157,608	100.0	13,617	8.6	0	0.0	4,968	3.2	0	0.0
	Songwe	213,194	12,350	5.8	97,343	45.7	19,911	9.3	0	0.0	9,955	4.7	85,986	40.3
	<b>Mainland Tanzania</b>	<b>6,506,085</b>	<b>402,525</b>	<b>6.2</b>	<b>2,764,807</b>	<b>42.5</b>	<b>510,751</b>	<b>7.9</b>	<b>66,017</b>	<b>1.0</b>	<b>2,395,998</b>	<b>36.8</b>	<b>630,673</b>	<b>9.7</b>
	Kaskazini Unguja	24,065	2,950	12.3	16,763	69.7	3,571	14.8	1,771	7.4	3,149	13.1	0	0.0
	Kusini Unguja	26,598	6,043	22.7	11,981	45.0	3,188	12.0	6,586	24.8	5,380	20.2	0	0.0
	Mjini Magharibi	34,976	16,595	47.4	20,824	59.5	4,697	13.4	3,427	9.8	3,017	8.6	3,556	10.2
	Kaskazini Pemba	31,476	3,374	10.7	22,433	71.3	946	3.0	1,386	4.4	6,733	21.4	754	2.4
	Kusini Pemba	28,482	3,031	10.6	6,769	23.8	0	0.0	0	0.0	19,327	67.9	2,386	8.4
	<b>Zanzibar</b>	<b>145,598</b>	<b>31,992</b>	<b>22.0</b>	<b>80,926</b>	<b>55.6</b>	<b>15,893</b>	<b>10.9</b>	<b>15,873</b>	<b>10.9</b>	<b>26,477</b>	<b>18.2</b>	<b>9,202</b>	<b>6.3</b>
	<b>Tanzania</b>	<b>6,651,682</b>	<b>434,516</b>	<b>6.5</b>	<b>2,890,768</b>	<b>43.5</b>	<b>537,192</b>	<b>8.1</b>	<b>115,917</b>	<b>1.7</b>	<b>2,358,321</b>	<b>35.5</b>	<b>628,264</b>	<b>9.4</b>
Large Scale Farms	Mainland Tanzania	840	184	21.9	164	19.6	233	27.7	219	26.1	173	20.7	59	7.1
	Zanzibar	27	11	40.7	7	27.3	2	9.1	12	45.5	5	18.2	0	0.0
	<b>Tanzania</b>	<b>867</b>	<b>195</b>	<b>22.5</b>	<b>173</b>	<b>20.0</b>	<b>231</b>	<b>26.7</b>	<b>236</b>	<b>27.2</b>	<b>178</b>	<b>20.5</b>	<b>58</b>	<b>6.7</b>

“ - “ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 4-2 (ctd): Number and Percentage of Agricultural Holdings with an Irrigation System and total Area Irrigated by Method of Irrigation and Region During 2022/23 Agricultural Year, Tanzania – (Short and Long Rainy Season)**

Holding Category	Region	Number of Holdings Engaged in Crop Production	Number of Holdings Irrigated		Method of irrigation									
					Number of Holding using Watering cans method		Number of Holding using Sprinkler method		Number of Holding using Drip method		Number of Holding using Flooding method		Number of Holding using Other methods	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	
Agricultural Households	Dodoma	549,931	12,070	2.2	41,471	7.5	106,549	19.4	100,652	18.3	251,850	45.8	18,273	3.3
	Arusha	285,716	29,380	10.3	44,104	15.4	20,968	7.3	1,980	0.7	205,787	72.0	17,306	6.1
	Kilimanjaro	326,175	98,264	30.1	42,407	13.0	14,852	4.6	1,652	0.5	227,144	69.6	45,961	14.1
	Tanga	458,973	15,300	3.3	260,248	56.7	84,078	18.3	0	0.0	88,727	19.3	59,294	12.9
	Morogoro	555,617	83,701	15.1	195,037	35.1	31,584	5.7	0	0.0	283,080	50.9	52,061	9.4
	Pwani	248,579	21,569	8.7	232,307	93.5	8,716	3.5	0	0.0	7,556	3.0	0	0.0
	Dar es Salaam	214,659	52,352	24.4	145,441	67.8	25,785	12.0	14,744	6.9	38,785	18.1	9,202	4.3
	Lindi	276,926	2,593	0.9	-	-	-	-	-	-	-	-	-	-
	Mtwara	394,048	8,221	2.1	253,278	64.3	40,363	10.2	0	0.0	0	0.0	40,363	10.2
	Ruvuma	376,275	23,812	6.3	118,926	31.6	11,996	3.2	11,996	3.2	119,100	31.7	130,498	34.7
	Iringa	235,319	32,274	13.7	143,652	61.0	37,208	15.8	0	0.0	53,273	22.6	5,876	2.5
	Mbeya	386,423	31,404	8.1	147,007	38.0	65,448	16.9	0	0.0	100,260	25.9	82,294	21.3
	Singida	306,946	16,828	5.5	249,525	81.3	0	0.0	0	0.0	57,422	18.7	0	0.0
	Tabora	441,841	18,916	4.3	121,461	27.5	0	0.0	7,769	1.8	308,325	69.8	0	0.0
	Rukwa	247,649	15,449	6.2	30,592	12.4	0	0.0	0	0.0	141,133	57.0	34,744	14.0
	Kigoma	319,151	11,833	3.7	218,858	68.6	0	0.0	0	0.0	52,646	16.5	47,646	14.9
	Shinyanga	274,931	5,364	2.0	194,154	70.6	0	0.0	27,829	10.1	0	0.0	105,895	38.5
	Kagera	548,229	10,434	1.9	390,286	71.2	0	0.0	0	0.0	106,202	19.4	51,742	9.4
	Mwanza	397,632	40,804	10.3	95,558	24.0	12,125	3.0	5,103	1.3	275,982	69.4	13,181	3.3
	Mara	316,667	11,416	3.6	143,277	45.2	104,414	33.0	10,010	3.2	0	0.0	58,966	18.6
	Manyara	296,749	13,613	4.6	54,674	18.4	34,881	11.8	22,232	7.5	140,795	47.4	68,066	22.9
	Njombe	192,992	23,535	12.2	104,085	53.9	65,672	34.0	3,837	2.0	0	0.0	19,398	10.1
	Katavi	150,583	7,022	4.7	68,848	45.7	10,157	6.7	0	0.0	46,977	31.2	24,600	16.3
	Simiyu	254,526	2,525	1.0	39,553	15.5	0	0.0	0	0.0	124,671	49.0	90,302	35.5
	Geita	361,603	13,512	3.7	320,524	88.6	32,581	9.0	0	0.0	41,864	11.6	6,500	1.8
	Songwe	245,857	15,358	6.2	107,521	43.7	21,668	8.8	0	0.0	18,464	7.5	98,204	39.9
	Mainland Tanzania	8,663,996	617,548	7.1	3,510,914	40.5	747,214	8.6	147,496	1.7	3,439,690	39.7	968,831	11.2
	Kaskazini Unguja	27,167	5,160	19.0	17,383	64.0	4,576	16.8	1,536	5.7	4,767	17.5	0	0.0
	Kusini Unguja	26,872	6,707	25.0	12,035	44.8	3,389	12.6	7,526	28.0	6,267	23.3	0	0.0
	Mjini Magharibi	37,264	18,760	50.3	24,596	66.0	4,668	12.5	3,230	8.7	2,843	7.6	3,351	9.0
	Kaskazini Pemba	31,997	4,701	14.7	24,880	77.8	1,309	4.1	1,561	4.9	6,100	19.1	550	1.7
	Kusini Pemba	28,825	3,715	12.9	5,589	19.4	0	0.0	900	3.1	18,604	64.5	3,732	12.9
	Zanzibar	152,126	39,043	25.7	89,865	59.1	16,589	10.9	16,137	10.6	28,033	18.4	8,762	5.8
	Tanzania	8,816,122	656,591	7.4	3,669,802	41.6	772,289	8.8	196,769	2.2	3,388,564	38.4	957,417	10.9
Large Scale Farms	Mainland Tanzania	881	219	24.9	193	21.9	257	29.2	245	27.9	197	22.4	76	8.7
	Zanzibar	30	16	53.3	11	37.5	2	6.3	9	31.3	8	25.0	0	0.0
	Tanzania	911	235	25.8	209	23.0	252	27.7	256	28.1	205	22.6	74	8.1

“ - “ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 4-2 (ctd): Number and Percentage of Agricultural Holdings with an Irrigation System and total Area Irrigated by Method of Irrigation and Region During 2022/23 Agricultural Year, Tanzania - Long Rainy Season**

Holding Category	Region	Number of Holding Engaged in Crop Production	Number of Holdings Irrigated		Method of irrigation									
					Number of Holding using Watering cans method		Number of Holding using Sprinkler method		Number of Holding using Drip method		Number of Holding using Flooding method		Number of Holding using Other methods	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	
Agricultural Households	Dodoma	548,049	5,626	1.0	49,594	9.0	136,158	24.8	0	0.0	256,672	46.8	39,064	7.1
	Arusha	217,382	24,177	11.1	27,017	12.4	14,649	6.7	1,831	0.8	160,046	73.6	9,102	4.2
	Kilimanjaro	315,174	67,278	21.3	42,779	13.6	14,751	4.7	0	0.0	190,112	60.3	23,502	7.5
	Tanga	409,526	7,880	1.9	220,880	53.9	122,326	29.9	0	0.0	66,320	16.2	12,910	3.2
	Morogoro	355,052	60,143	16.9	147,630	41.6	20,176	5.7	0	0.0	175,903	49.5	16,809	4.7
	Pwani	200,036	15,227	7.6	190,101	95.0	9,935	5.0	0	0.0	0	0.0	0	0.0
	Dar es Salaam	131,329	40,086	30.5	93,463	71.2	13,541	10.3	6,597	5.0	29,617	22.6	0	0.0
	Lindi	276,926	1,297	0.5	-	-	-	-	-	-	-	-	-	-
	Mtwara	192,799	4,226	2.2	135,644	70.4	0	0.0	0	0.0	0	0.0	0	0.0
	Ruvuma	376,275	20,816	5.5	109,336	29.1	0	0.0	0	0.0	117,662	31.3	149,277	39.7
	Iringa	170,404	25,598	15.0	98,472	57.8	18,884	11.1	0	0.0	45,957	27.0	2,682	1.6
	Mbeya	334,012	16,646	5.0	9,478	2.8	52,452	15.7	0	0.0	148,163	44.4	110,487	33.1
	Singida	306,946	14,304	4.7	239,390	78.0	0	0.0	0	0.0	67,556	22.0	0	0.0
	Tabora	321,174	4,735	1.5	98,110	30.5	0	0.0	22,561	7.0	188,054	58.6	0	0.0
	Rukwa	242,224	14,551	6.0	31,769	13.1	0	0.0	0	0.0	131,611	54.3	36,080	14.9
	Kigoma	153,316	8,910	5.8	139,619	91.1	0	0.0	0	0.0	13,697	8.9	0	0.0
	Shinyanga	256,640	5,364	2.1	181,237	70.6	0	0.0	25,977	10.1	0	0.0	98,850	38.5
	Kagera	509,650	6,833	1.3	358,891	70.4	0	0.0	0	0.0	150,760	29.6	0	0.0
	Mwanza	170,952	9,495	5.6	95,821	56.1	14,296	8.4	9,429	5.5	40,039	23.4	16,235	9.5
	Mara	265,186	4,942	1.9	143,721	54.2	121,465	45.8	0	0.0	0	0.0	0	0.0
	Manyara	117,814	7,353	6.2	28,627	24.3	8,492	7.2	0	0.0	52,930	44.9	32,462	27.6
	Njombe	192,259	8,635	4.5	81,825	42.6	74,620	38.8	10,419	5.4	0	0.0	25,395	13.2
	Katavi	14,209	5,792	40.8	7,127	50.2	1,162	8.2	0	0.0	3,106	21.9	2,814	19.8
	Simiyu	57,947	1,624	2.8	-	-	-	-	-	-	-	-	-	-
	Geita	157,608	8,637	5.5	157,608	100.0	13,617	8.6	0	0.0	4,968	3.2	0	0.0
	Songwe	213,194	12,350	5.8	97,343	45.7	19,911	9.3	0	0.0	9,955	4.7	85,986	40.3
	<b>Mainland Tanzania</b>	<b>6,506,085</b>	<b>402,525</b>	<b>6.2</b>	<b>2,764,807</b>	<b>42.5</b>	<b>510,751</b>	<b>7.9</b>	<b>66,017</b>	<b>1.0</b>	<b>2,395,998</b>	<b>36.8</b>	<b>630,673</b>	<b>9.7</b>
	Kaskazini Unguja	24,065	2,950	12.3	16,763	69.7	3,571	14.8	1,771	7.4	3,149	13.1	0	0.0
	Kusini Unguja	26,598	6,043	22.7	11,981	45.0	3,188	12.0	6,586	24.8	5,380	20.2	0	0.0
	Mjini Magharibi	34,976	16,595	47.4	20,824	59.5	4,697	13.4	3,427	9.8	3,017	8.6	3,556	10.2
	Kaskazini Pemba	31,476	3,374	10.7	22,433	71.3	946	3.0	1,386	4.4	6,733	21.4	754	2.4
	Kusini Pemba	28,482	3,031	10.6	6,769	23.8	0	0.0	0	0.0	19,327	67.9	2,386	8.4
	<b>Zanzibar</b>	<b>145,598</b>	<b>31,992</b>	<b>22.0</b>	<b>80,926</b>	<b>55.6</b>	<b>15,893</b>	<b>10.9</b>	<b>15,873</b>	<b>10.9</b>	<b>26,477</b>	<b>18.2</b>	<b>9,202</b>	<b>6.3</b>
	<b>Tanzania</b>	<b>6,651,682</b>	<b>434,516</b>	<b>6.5</b>	<b>2,890,768</b>	<b>43.5</b>	<b>537,192</b>	<b>8.1</b>	<b>115,917</b>	<b>1.7</b>	<b>2,358,321</b>	<b>35.5</b>	<b>628,264</b>	<b>9.4</b>
Large Scale Farms	Mainland Tanzania	840	184	21.9	164	19.6	233	27.7	219	26.1	173	20.7	59	7.1
	Zanzibar	27	11	40.7	7	27.3	2	9.1	12	45.5	5	18.2	0	0.0
	<b>Tanzania</b>	<b>867</b>	<b>195</b>	<b>22.5</b>	<b>173</b>	<b>20.0</b>	<b>231</b>	<b>26.7</b>	<b>236</b>	<b>27.2</b>	<b>178</b>	<b>20.5</b>	<b>58</b>	<b>6.7</b>

“ - “ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 4-2 (ctd): Number and Percentage of Agricultural Holdings with an Irrigation System and total Area Irrigated by Method of Irrigation and Region During 2022/23 Agricultural Year, Tanzania – (Short and Long Rainy Season)**

Holding Category	Region	Number of Holdings Engaged in Crop Production	Number of Holdings Irrigated		Method of irrigation								Number of Holding using Flooding method		Number of Holding using Other methods	
					Number of Holding using Watering cans method		Number of Holding using Sprinkler method		Number of Holding using Drip method							
		Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	
Agricultural Households	Dodoma	549,931	12,070	2.2	41,471	7.5	106,549	19.4	100,652	18.3	251,850	45.8	18,273	3.3		
	Arusha	285,716	29,380	10.3	44,104	15.4	20,968	7.3	1,980	0.7	205,787	72.0	17,306	6.1		
	Kilimanjaro	326,175	98,264	30.1	42,407	13.0	14,852	4.6	1,652	0.5	227,144	69.6	45,961	14.1		
	Tanga	458,973	15,300	3.3	260,248	56.7	84,078	18.3	0	0.0	88,727	19.3	59,294	12.9		
	Morogoro	555,617	83,701	15.1	195,037	35.1	31,584	5.7	0	0.0	283,080	50.9	52,061	9.4		
	Pwani	248,579	21,569	8.7	232,307	93.5	8,716	3.5	0	0.0	7,556	3.0	0	0.0		
	Dar es Salaam	214,659	52,352	24.4	145,441	67.8	25,785	12.0	14,744	6.9	38,785	18.1	9,202	4.3		
	Lindi	276,926	2,593	0.9	-	-	-	-	-	-	-	-	-	-		
	Mtwara	394,048	8,221	2.1	253,278	64.3	40,363	10.2	0	0.0	0	0.0	40,363	10.2		
	Ruvuma	376,275	23,812	6.3	118,926	31.6	11,996	3.2	11,996	3.2	119,100	31.7	130,498	34.7		
	Iringa	235,319	32,274	13.7	143,652	61.0	37,208	15.8	0	0.0	53,273	22.6	5,876	2.5		
	Mbeya	386,423	31,404	8.1	147,007	38.0	65,448	16.9	0	0.0	100,260	25.9	82,294	21.3		
	Singida	306,946	16,828	5.5	249,525	81.3	0	0.0	0	0.0	57,422	18.7	0	0.0		
	Tabora	441,841	18,916	4.3	121,461	27.5	0	0.0	7,769	1.8	308,325	69.8	0	0.0		
	Rukwa	247,649	15,449	6.2	30,592	12.4	0	0.0	0	0.0	141,133	57.0	34,744	14.0		
	Kigoma	319,151	11,833	3.7	218,858	68.6	0	0.0	0	0.0	52,646	16.5	47,646	14.9		
	Shinyanga	274,931	5,364	2.0	194,154	70.6	0	0.0	27,829	10.1	0	0.0	105,895	38.5		
	Kagera	548,229	10,434	1.9	390,286	71.2	0	0.0	0	0.0	106,202	19.4	51,742	9.4		
	Mwanza	397,632	40,804	10.3	95,558	24.0	12,125	3.0	5,103	1.3	275,982	69.4	13,181	3.3		
	Mara	316,667	11,416	3.6	143,277	45.2	104,414	33.0	10,010	3.2	0	0.0	58,966	18.6		
	Manyara	296,749	13,613	4.6	54,674	18.4	34,881	11.8	22,232	7.5	140,795	47.4	68,066	22.9		
	Njombe	192,992	23,535	12.2	104,085	53.9	65,672	34.0	3,837	2.0	0	0.0	19,398	10.1		
	Katavi	150,583	7,022	4.7	68,848	45.7	10,157	6.7	0	0.0	46,977	31.2	24,600	16.3		
	Simiyu	254,526	2,525	1.0	39,553	15.5	0	0.0	0	0.0	124,671	49.0	90,302	35.5		
	Geita	361,603	13,512	3.7	320,524	88.6	32,581	9.0	0	0.0	41,864	11.6	6,500	1.8		
	Songwe	245,857	15,358	6.2	107,521	43.7	21,668	8.8	0	0.0	18,464	7.5	98,204	39.9		
	<b>Mainland Tanzania</b>	<b>8,663,996</b>	<b>617,548</b>	<b>7.1</b>	<b>3,510,914</b>	<b>40.5</b>	<b>747,214</b>	<b>8.6</b>	<b>147,496</b>	<b>1.7</b>	<b>3,439,690</b>	<b>39.7</b>	<b>968,831</b>	<b>11.2</b>		
	Kaskazini Unguja	27,167	5,160	19.0	17,383	64.0	4,576	16.8	1,536	5.7	4,767	17.5	0	0.0		
	Kusini Unguja	26,872	6,707	25.0	12,035	44.8	3,389	12.6	7,526	28.0	6,267	23.3	0	0.0		
	Mjini Magharibi	37,264	18,760	50.3	24,596	66.0	4,668	12.5	3,230	8.7	2,843	7.6	3,351	9.0		
	Kaskazini Pemba	31,997	4,701	14.7	24,880	77.8	1,309	4.1	1,561	4.9	6,100	19.1	550	1.7		
	Kusini Pemba	28,825	3,715	12.9	5,589	19.4	0	0.0	900	3.1	18,604	64.5	3,732	12.9		
	<b>Zanzibar</b>	<b>152,126</b>	<b>39,043</b>	<b>25.7</b>	<b>89,865</b>	<b>59.1</b>	<b>16,589</b>	<b>10.9</b>	<b>16,137</b>	<b>10.6</b>	<b>28,033</b>	<b>18.4</b>	<b>8,762</b>	<b>5.8</b>		
	<b>Tanzania</b>	<b>8,816,122</b>	<b>656,591</b>	<b>7.4</b>	<b>3,669,802</b>	<b>41.6</b>	<b>772,289</b>	<b>8.8</b>	<b>196,769</b>	<b>2.2</b>	<b>3,388,564</b>	<b>38.4</b>	<b>957,417</b>	<b>10.9</b>		
Large Scale Farms	Mainland Tanzania	881	219	24.9	193	21.9	257	29.2	245	27.9	197	22.4	76	8.7		
	Zanzibar	30	16	53.3	11	37.5	2	6.3	9	31.3	8	25.0	0	0.0		
	<b>Tanzania</b>	<b>911</b>	<b>235</b>	<b>25.8</b>	<b>209</b>	<b>23.0</b>	<b>252</b>	<b>27.7</b>	<b>256</b>	<b>28.1</b>	<b>205</b>	<b>22.6</b>	<b>74</b>	<b>8.1</b>		

“ - “ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 4-2 (ctd): Area Planted under Irrigation by Method of Irrigation and Region During 2022/23 Agricultural Year, Tanzania - Short Rainy Season**

Holdings Category	Region	Total Area Planted with all Crops (ha)	Total Area Irrigated for all methods		Watering cans or buckets		Sprinkler		Drip		Flooding/ surface		Others	
			Area (ha)	Percent	Area (ha)	Percent	Area (ha)	Percent	Area (ha)	Percent	Area (ha)	Percent	Area (ha)	Percent
Agricultural Households	Dodoma	14,076	2,892	20.5	-	-	-	-	-	-	1,464	50.6	-	-
	Arusha	136,724	11,030	8.1	1,622	14.7	-	-	-	-	8,675	78.6	627	5.7
	Kilimanjaro	164,769	42,507	25.8	2,647	6.2	2,726	6.4	-	-	28,656	67.4	8,378	19.7
	Tanga	364,552	5,237	1.4	2,955	56.4	-	-	-	-	-	-	-	-
	Morogoro	664,154	29,502	4.4	5,373	18.2	-	-	-	-	14,396	48.8	9,200	31.2
	Pwani	189,931	1,733	0.9	1,183	68.3	-	-	-	-	-	-	-	-
	Dar es Salaam	355,832	14,750	4.1	4,294	29.1	7,557	51.2	1,180	8.0	-	-	-	-
	Lindi	172,519	-	-	-	-	-	-	-	-	-	-	-	-
	Mtwara	830,700	2,449	0.3	1,180	48.2	-	-	-	-	-	-	-	-
	Ruvuma	136,311	2,336	1.7	725	31.0	-	-	-	-	-	-	-	-
	Iringa	105,352	5,144	4.9	1,431	27.8	2,677	52.0	-	-	608	11.8	-	-
	Mbeya	168,136	27,919	16.6	10,904	39.1	6,191	22.2	-	-	-	-	10,669	38.2
	Singida	15,344	4,695	30.6	4,695	100.0	-	-	-	-	-	-	-	-
	Tabora	162,142	11,521	7.1	2,297	19.9	-	-	-	-	9,224	80.1	-	-
	Rukwa	9,890	-	-	-	-	-	-	-	-	-	-	-	-
	Kigoma	211,806	2,028	1.0	-	-	-	-	-	-	-	-	-	-
	Shinyanga	83,136	-	-	-	-	-	-	-	-	-	-	-	-
	Kagera	517,456	1,825	0.4	-	-	-	-	-	-	-	-	-	-
	Mwanza	391,865	24,453	6.2	2,563	10.5	451	1.8	-	-	21,257	86.9	-	-
	Mara	278,814	5,272	1.9	1,765	33.5	1,416	26.9	-	-	-	-	1,945	36.9
	Manyara	425,826	7,928	1.9	455	5.7	1,821	23.0	-	-	3,699	46.7	1,695	21.4
	Njombe	49,744	15,314	30.8	7,257	47.4	7,313	47.8	-	-	-	-	-	-
	Katavi	267,413	2,439	0.9	-	-	-	-	-	-	2,068	84.8	-	-
	Simiyu	664,480	436	0.1	-	-	-	-	-	-	-	-	-	-
	Geita	457,637	5,012	1.1	3,100	61.8	-	-	-	-	1,111	22.2	-	-
	Songwe	88,795	4,164	4.7	1,786	42.9	-	-	-	-	-	-	2,315	55.6
	<b>Mainland Tanzania</b>	<b>6,927,404</b>	<b>233,188</b>	<b>3.4</b>	<b>57,522</b>	<b>24.7</b>	<b>33,579</b>	<b>14.4</b>	<b>2,569</b>	<b>1.1</b>	<b>97,433</b>	<b>41.8</b>	<b>42,085</b>	<b>18.0</b>
	Kaskazini Unguja	12,501	1,705	13.6	839	49.2	579	34.0	-	-	139	8.2	-	-
	Kusini Unguja	13,346	2,078	15.6	353	17.0	88	4.3	1,205	58.0	431	20.7	-	-
	Mjini Magharibi	10,192	1,831	18.0	615	33.6	404	22.0	626	34.2	185	10.1	-	-
	Kaskazini Pemba	10,698	873	8.2	296	33.9	72	8.3	167	19.1	338	38.7	-	-
	Kusini Pemba	15,800	1,053	6.7	184	17.4	-	-	-	-	731	69.4	-	-
	<b>Zanzibar</b>	<b>62,538</b>	<b>7,539</b>	<b>12.1</b>	<b>2,286</b>	<b>30.3</b>	<b>1,143</b>	<b>15.2</b>	<b>2,193</b>	<b>29.1</b>	<b>1,823</b>	<b>24.2</b>	<b>94</b>	<b>1.2</b>
	<b>Tanzania</b>	<b>6,989,941</b>	<b>240,728</b>	<b>3.4</b>	<b>59,809</b>	<b>24.8</b>	<b>34,722</b>	<b>14.4</b>	<b>4,762</b>	<b>2.0</b>	<b>99,256</b>	<b>41.2</b>	<b>42,179</b>	<b>17.5</b>
Large Scale Farms	Mainland Tanzania	175,663	47,917	27.3	976	2.0	27,808	58.0	9,139	19.1	4,888	10.2	5,106	10.7
	Zanzibar	2,468	19	0.8	7	37.2	-	-	6	32.2	5	28.5	-	-
	<b>Tanzania</b>	<b>178,132</b>	<b>47,936</b>	<b>26.9</b>	<b>983</b>	<b>2.1</b>	<b>27,809</b>	<b>58.0</b>	<b>9,145</b>	<b>19.1</b>	<b>4,893</b>	<b>10.2</b>	<b>5,106</b>	<b>10.7</b>
All Holdings	Mainland Tanzania	7,103,067	281,106	4.0	58,499	20.8	61,387	21.8	11,708	4.2	102,321	36.4	47,191	16.8
	Zanzibar	65,006	7,559	11.6	2,294	30.3	1,144	15.1	2,199	29.1	1,829	24.2	94	1.2
	<b>Tanzania</b>	<b>7,168,073</b>	<b>288,664</b>	<b>4.0</b>	<b>60,792</b>	<b>21.1</b>	<b>62,531</b>	<b>21.7</b>	<b>13,907</b>	<b>4.8</b>	<b>104,149</b>	<b>36.1</b>	<b>47,285</b>	<b>16.4</b>

“ - “ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 4-2 (ctd): Area planted under Irrigation by Method of Irrigation and Region During 2022/23 Agricultural Year, Tanzania - Long Rainy Season**

Holding Category	Region	Total Area Planted with all Crops (ha)	Total Area Irrigated for all methods (ha)		Watering cans or buckets		Sprinkler		Drip		Flooding/ surface		Others	
			Area (ha)	Percent	Area (ha)	Percent	Area (ha)	Percent	Area (ha)	Percent	Area (ha)	Percent	Area (ha)	Percent
Agricultural Households			3,387	0.3	-	-	-	-	-	-	2,878	85.0	-	-
	Arusha	264,085	18,356	7.0	2,269	12.4	2,527	13.8	-	-	12,551	68.4	998	5.4
	Kilimanjaro	224,933	28,450	12.6	1,914	6.7	2,552	9.0	-	-	20,608	72.4	3,376	11.9
	Tanga	433,436	2,846	0.7	1,755	61.7	568	20.0	-	-	-	-	-	-
	Morogoro	423,836	27,572	6.5	5,910	21.4	5,087	18.4	-	-	14,370	52.1	2,206	8.0
	Pwani	213,682	7,710	3.6	7,691	99.8	-	-	-	-	-	-	-	-
	Dar es Salaam	260,979	53,279	20.4	21,517	40.4	6,378	12.0	-	-	24,901	46.7	-	-
	Lindi	545,069	-	-	-	-	-	-	-	-	-	-	-	-
	Mtwara	349,543	1,381	0.4	1,381	100.0	-	-	-	-	-	-	-	-
	Ruvuma	1,006,811	10,560	1.0	1,368	13.0	-	-	-	-	4,395	41.6	4,798	45.4
	Iringa	201,875	10,122	5.0	2,745	27.1	636	6.3	-	-	6,577	65.0	-	-
	Mbeya	500,629	20,293	4.1	-	-	1,578	7.8	-	-	14,015	69.1	4,508	22.2
	Singida	748,195	5,911	0.8	3,032	51.3	-	-	-	-	2,879	48.7	-	-
	Tabora	602,044	3,137	0.5	304	9.7	-	-	-	-	2,699	86.0	-	-
	Rukwa	455,550	7,131	1.6	-	-	-	-	-	-	5,434	76.2	-	-
	Kigoma	136,167	1,966	1.4	1,515	77.1	-	-	-	-	-	-	-	-
	Shinyanga	467,731	6,127	1.3	2,035	33.2	-	-	-	-	-	-	-	-
	Kagera	423,743	3,071	0.7	2,120	69.0	-	-	-	-	-	-	-	-
	Mwanza	135,826	6,152	4.5	1,093	17.8	-	-	-	-	2,031	33.0	-	-
	Mara	237,554	1,588	0.7	672	42.3	-	-	-	-	-	-	-	-
	Manyara	190,478	5,514	2.9	260	4.7	-	-	-	-	2,080	37.7	2,584	46.9
	Njombe	231,695	6,482	2.8	2,640	40.7	2,032	31.3	-	-	-	-	-	-
	Katavi	13,688	1,648	12.0	494	30.0	-	-	-	-	387	23.5	-	-
	Simiyu	59,251	-	-	-	-	-	-	-	-	-	-	-	-
	Geita	130,379	5,167	4.0	3,519	68.1	-	-	-	-	-	-	-	-
	Songwe	394,606	9,821	2.5	1,618	16.5	-	-	-	-	-	-	5,635	57.4
	<b>Mainland Tanzania</b>	<b>9,799,068</b>	<b>249,068</b>	<b>2.5</b>	<b>66,652</b>	<b>26.8</b>	<b>27,400</b>	<b>11.0</b>	<b>3,504</b>	<b>1.4</b>	<b>118,648</b>	<b>47.6</b>	<b>32,864</b>	<b>13.2</b>
	Kaskazini Unguja	12,111	1,170	9.7	558	47.7	334	28.5	155	13.2	124	10.6	-	-
	Kusini Unguja	12,764	1,701	13.3	218	12.8	110	6.4	1,022	60.1	350	20.6	-	-
	Mjini Magharibi	11,771	3,527	30.0	904	25.6	555	15.7	1,002	28.4	345	9.8	721	20.5
	Kaskazini Pemba	14,412	886	6.1	311	35.1	-	-	-	-	358	40.5	-	-
	Kusini Pemba	21,402	1,048	4.9	221	21.1	-	-	-	-	801	76.5	-	-
	<b>Zanzibar</b>	<b>72,459</b>	<b>8,331</b>	<b>11.5</b>	<b>2,212</b>	<b>26.5</b>	<b>1,056</b>	<b>12.7</b>	<b>2,304</b>	<b>27.7</b>	<b>1,979</b>	<b>23.8</b>	<b>780</b>	<b>9.4</b>
	<b>Tanzania</b>	<b>9,871,527</b>	<b>257,399</b>	<b>2.6</b>	<b>68,864</b>	<b>26.8</b>	<b>28,456</b>	<b>11.1</b>	<b>5,808</b>	<b>2.3</b>	<b>120,627</b>	<b>46.9</b>	<b>33,644</b>	<b>13.1</b>
Large Scale Farms	Mainland Tanzania	200,461	59,115	29.5	1,246	2.1	29,295	49.6	11,326	19.2	6,923	11.7	10,325	17.5
	Zanzibar	681	16	2.3	4	22.8	-	-	8	49.4	-	-	-	-
	<b>Tanzania</b>	<b>201,143</b>	<b>59,131</b>	<b>29.4</b>	<b>1,250</b>	<b>2.1</b>	<b>29,296</b>	<b>49.5</b>	<b>11,333</b>	<b>19.2</b>	<b>6,927</b>	<b>11.7</b>	<b>10,325</b>	<b>17.5</b>
All Holdings	Mainland Tanzania	9,999,529	308,184	3.1	67,899	22.0	56,695	18.4	14,829	4.8	125,571	40.7	43,190	14.0
	Zanzibar	73,141	8,347	11.4	2,215	26.5	1,056	12.7	2,312	27.7	1,983	23.8	780	9.3
	<b>Tanzania</b>	<b>10,072,670</b>	<b>316,531</b>	<b>3.1</b>	<b>70,114</b>	<b>22.2</b>	<b>57,751</b>	<b>18.2</b>	<b>17,141</b>	<b>5.4</b>	<b>127,554</b>	<b>40.3</b>	<b>43,969</b>	<b>13.9</b>

“ - “ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 4-2 (ctd): Area planted under Irrigation by Method of Irrigation and Region During 2022/23 Agricultural Year, Tanzania – (Short and Long Rainy Season)**

Holding Category	Region	Total Area Planted with all Crops (ha)	Total Area Irrigated for all methods (ha)		Watering cans or buckets		Sprinkler		Drip		Flooding/ surface		Others	
			Area (ha)	Percent	Area (ha)	Percent	Area (ha)	Percent	Area (ha)	Percent	Area (ha)	Percent	Area (ha)	Percent
Agricultural Households	Arusha	400,809	6,279	0.5	-	-	-	-	-	-	4,342	69.1	-	-
	Kilimanjaro	389,702	29,386	7.3	3,891	13.2	2,634	9.0	-	-	21,226	72.2	1,625	5.5
	Tanga	797,988	70,957	18.2	4,561	6.4	5,278	7.4	-	-	49,264	69.4	11,754	16.6
	Morogoro	797,988	8,082	1.0	4,709	58.3	937	11.6	-	-	857	10.6	1,580	19.5
	Morogoro	1,087,990	57,074	5.2	11,283	19.8	5,620	9.8	-	-	28,766	50.4	11,405	20.0
	Pwani	403,613	9,444	2.3	8,875	94.0	-	-	-	-	-	-	-	-
	Dar es Salaam	616,811	68,029	11.0	25,810	37.9	13,935	20.5	1,664	2.4	25,240	37.1	-	-
	Lindi	717,587	-	-	-	-	-	-	-	-	-	-	-	-
	Mtwara	1,180,243	3,831	0.3	2,562	66.9	-	-	-	-	-	-	-	-
	Ruvuma	1,143,122	12,896	1.1	2,093	16.2	-	-	-	-	5,218	40.5	4,798	37.2
	Iringa	307,226	15,266	5.0	4,176	27.4	3,313	21.7	-	-	7,186	47.1	-	-
	Mbeya	668,765	48,212	7.2	11,095	23.0	7,769	16.1	-	-	14,170	29.4	15,177	31.5
	Singida	763,538	10,606	1.4	7,727	72.9	-	-	-	-	2,879	27.1	-	-
	Tabora	764,187	14,658	1.9	2,601	17.7	-	-	-	-	11,923	81.3	-	-
	Rukwa	465,440	8,221	1.8	-	-	-	-	-	-	6,524	79.4	-	-
	Kigoma	347,972	3,995	1.1	1,783	44.6	-	-	-	-	-	-	-	-
	Shinyanga	550,867	7,381	1.3	2,035	27.6	-	-	-	-	-	-	-	-
	Kagera	941,199	4,896	0.5	2,466	50.4	-	-	-	-	-	-	-	-
	Mwanza	527,691	30,605	5.8	3,656	11.9	721	2.4	-	-	23,288	76.1	821	2.7
	Mara	516,368	6,860	1.3	2,437	35.5	2,332	34.0	-	-	-	-	1,945	28.4
	Manyara	616,304	13,442	2.2	715	5.3	2,411	17.9	-	-	5,779	43.0	4,279	31.8
	Njombe	281,440	21,796	7.7	9,897	45.4	9,345	42.9	-	-	-	-	-	-
	Katavi	281,101	4,088	1.5	865	21.2	-	-	-	-	2,455	60.1	-	-
	Simiyu	723,731	1,308	0.2	-	-	-	-	-	-	-	-	-	-
	Geita	588,017	10,179	1.7	6,619	65.0	-	-	-	-	1,249	12.3	-	-
	Songwe	483,400	13,985	2.9	3,404	24.3	2,455	17.6	-	-	-	-	7,951	56.9
	<b>Mainland Tanzania</b>	<b>16,726,471</b>	<b>482,257</b>	<b>2.9</b>	<b>124,175</b>	<b>25.7</b>	<b>60,979</b>	<b>12.6</b>	<b>6,073</b>	<b>1.3</b>	<b>216,081</b>	<b>44.8</b>	<b>74,950</b>	<b>15.5</b>
	Kaskazini Unguja	24,612	2,875	11.7	1,397	48.6	913	31.7	303	10.5	263	9.1	-	-
	Kusini Unguja	26,110	3,778	14.5	572	15.1	198	5.2	2,227	59.0	781	20.7	-	-
	Mjini Magharibi	21,963	5,358	24.4	1,519	28.4	958	17.9	1,628	30.4	530	9.9	723	13.5
	Kaskazini Pemba	25,110	1,758	7.0	606	34.5	130	7.4	292	16.6	696	39.6	-	-
	Kusini Pemba	37,202	2,101	5.6	405	19.3	-	-	-	-	1,531	72.9	-	-
	<b>Zanzibar</b>	<b>134,997</b>	<b>15,870</b>	<b>11.8</b>	<b>4,498</b>	<b>28.3</b>	<b>2,199</b>	<b>13.9</b>	<b>4,497</b>	<b>28.3</b>	<b>3,802</b>	<b>24.0</b>	<b>873</b>	<b>5.5</b>
	<b>Tanzania</b>	<b>16,861,468</b>	<b>498,127</b>	<b>3.0</b>	<b>128,673</b>	<b>25.8</b>	<b>63,178</b>	<b>12.7</b>	<b>10,570</b>	<b>2.1</b>	<b>219,883</b>	<b>44.1</b>	<b>75,823</b>	<b>15.2</b>
Large Scale Farms	Mainland Tanzania	376,125	107,033	28.5	2,223	2.1	57,104	53.4	20,464	19.1	11,811	11.0	15,431	14.4
	Zanzibar	3,149	35	1.1	11	30.6	-	-	14	40.0	10	27.1	-	-
	<b>Tanzania</b>	<b>379,274</b>	<b>107,068</b>	<b>28.2</b>	<b>2,234</b>	<b>2.1</b>	<b>57,105</b>	<b>53.3</b>	<b>20,478</b>	<b>19.1</b>	<b>11,820</b>	<b>11.0</b>	<b>15,431</b>	<b>14.4</b>
All Holdings	Mainland Tanzania	17,102,596	589,290	3.4	126,397	21.4	118,082	20.0	26,537	4.5	227,892	38.7	90,381	15.3
	Zanzibar	138,146	15,905	11.5	4,509	28.3	2,200	13.8	4,511	28.4	3,812	24.0	873	5.5
	<b>Tanzania</b>	<b>17,240,742</b>	<b>605,195</b>	<b>3.5</b>	<b>130,906</b>	<b>21.6</b>	<b>120,282</b>	<b>19.9</b>	<b>31,048</b>	<b>5.1</b>	<b>231,703</b>	<b>38.3</b>	<b>91,254</b>	<b>15.1</b>

“ - “ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 4-3: Percentage Distribution of Agricultural Households, by Type of Seeds Used in Short Rainy Season During 2022/23 Agricultural Year, Tanzania**

Regions	Total Number of Agricultural Households Practicing Cropping	Agricultural Households that used seeds	Type of Seeds		
			Improved (%)	Traditional (%)	Improved, Recycled (%)
Dodoma	15,027	12,997	34.6	72.7	12.5
Arusha	130,523	119,307	69.6	52.2	13.1
Kilimanjaro	276,494	189,895	53.1	74.4	17.4
Tanga	361,811	343,962	36.6	83	11
Morogoro	432,760	420,566	16.6	86.7	13.1
Pwani	199,521	180,629	21.6	83.2	21.1
Dar es Salaam	188,555	168,526	46.2	66.9	8.7
Lindi	102,376	3,767	34.4	100	-
Mtwara	388,723	366,975	8.6	96.7	5.2
Ruvuma	70,315	10,628	20.7	75.6	30.1
Iringa	91,315	89,970	46.4	41.2	37.7
Mbeya	157,170	128,965	57.5	59.7	9.7
Singida	10,726	4,126	61.1	100	-
Tabora	127,485	127,485	40	83.6	9.4
Rukwa	14,460	13,513	73.2	60.5	-
Kigoma	231,408	230,226	30.1	87.3	17.4
Shinyanga	61,366	57,895	59.7	84.3	5
Kagera	542,683	526,068	21	75.7	34.2
Mwanza	360,307	357,921	54.6	89.1	2.5
Mara	276,857	275,800	45.1	62.3	19.9
Manyara	229,585	228,220	66.1	77.2	13.7
Njombe	36,183	33,902	24.5	71.8	21.7
Katavi	149,060	149,060	53.9	76.1	27
Simiyu	250,702	250,702	93.4	57.9	18.2
Geita	341,002	340,255	52.6	81.9	16.1
Songwe	86,213	64,630	56.1	54.7	28
<b>Mainland Tanzania</b>	<b>5,132,624</b>	<b>4,695,991</b>	<b>41.3</b>	<b>77.5</b>	<b>16.2</b>
Kaskazini Unguja	24,890	22,031	16.6	70.5	29.8
Kusini Unguja	25,249	23,253	26.4	35.6	59
Mjini Magharibi	34,288	25,681	16.2	68.6	25.5
Kaskazini Pemba	27,648	26,024	14.6	73.1	26.2
Kusini Pemba	27,659	24,439	4	59.4	40.3
<b>Zanzibar</b>	<b>139,734</b>	<b>121,428</b>	<b>15.4</b>	<b>61.8</b>	<b>35.9</b>
<b>Tanzania</b>	<b>5,272,358</b>	<b>4,817,419</b>	<b>40.6</b>	<b>77.1</b>	<b>16.7</b>

“ - “ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)



**Table 4-3 (ctd): Percentage Distribution of Agricultural Households, by Type of Seeds Used in Long Rainy Season During 2022/23 Agricultural Year, Tanzania**

Regions	Agricultural Households Practicing Cropping	Agricultural Households that used seeds	Type of Seeds		
			Improved (%)	Traditional (%)	Improved, Recycled (%)
Dodoma	15,027	548,049	18	90.9	10.1
Arusha	130,523	210,671	68.5	56.8	15.2
Kilimanjaro	276,494	281,406	56.3	75	15.5
Tanga	361,811	401,632	26.4	83.4	8.3
Morogoro	432,760	334,651	22.9	76.6	18.3
Pwani	199,521	186,556	18.3	85.3	11.1
Dar es Salaam	188,555	118,008	47.4	66.8	3.8
Lindi	102,376	272,143	11.4	94	7
Mtwara	388,723	107,891	7.4	97.7	2.3
Ruvuma	70,315	372,766	29.4	81.5	23.4
Iringa	91,315	169,117	37.8	52.8	39.9
Mbeya	157,170	317,298	42.3	73.9	13.4
Singida	10,726	305,976	54.7	84.5	15.2
Tabora	127,485	321,174	48.3	77.1	23.3
Rukwa	14,460	242,224	38.9	78.0	17.9
Kigoma	231,408	150,533	23.2	75.7	26.8
Shinyanga	61,366	254,612	56.4	73.5	20.5
Kagera	542,683	460,400	9.3	76.5	26.5
Mwanza	360,307	169,879	33.2	80.4	3.5
Mara	276,857	263,380	40.6	55.2	21.6
Manyara	229,585	113,032	46.7	79.4	6.3
Njombe	36,183	191,330	38.0	75.4	13.3
Katavi	149,060	13,977	46.0	55.6	10.1
Simiyu	250,702	57,947	50.8	63.5	11.7
Geita	341,002	139,632	34.1	70.1	10.8
Songwe	86,213	212,259	58.5	63.7	22.7
<b>Mainland Tanzania</b>	<b>5,132,624</b>	<b>6,216,539</b>	<b>34.7</b>	<b>77.0</b>	<b>16.3</b>
Kaskazini Unguja	24,890	21,861	15.2	76.5	29.2
Kusini Unguja	25,249	24,487	26.1	26.8	58.6
Mjini Magharibi	34,288	27,876	16.7	71.8	25.7
Kaskazini Pemba	27,648	30,418	12.9	74.4	28.3
Kusini Pemba	27,659	26,957	4.6	59.5	42.9
<b>Zanzibar</b>	<b>139,734</b>	<b>131,599</b>	<b>14.8</b>	<b>62.3</b>	<b>36.5</b>
<b>Tanzania</b>	<b>5,272,358</b>	<b>6,348,137</b>	<b>34.3</b>	<b>76.7</b>	<b>16.8</b>

**Table 4-3 (ctd): Percentage Distribution of Agricultural Households, by Type of Seeds Used During 2022/23 Agricultural Year**

Region	Agricultural Households Practicing Cropping	Agricultural Households that used seeds	Type of Seed Used		
			Percentage of Improved seeds	Percentage of Traditional seeds	Percentage of Improved seeds, Recycled
Dodoma	15,027	549,931	18	91.4	10.1
Arusha	130,523	279,522	73	58.4	16
Kilimanjaro	276,494	299,414	64.5	78.4	19.5
Tanga	361,811	450,384	38.3	87.6	11.4
Morogoro	432,760	549,691	21.8	85.1	18.2
Pwani	199,521	240,622	23.3	89.2	16.9
Dar es Salaam	188,555	195,062	46.5	66.3	8.3
Lindi	102,376	272,143	11.4	94.4	7
Mtwara	388,723	375,816	9.8	96.8	5.4
Ruvuma	70,315	372,766	29.7	81.6	23.6
Iringa	91,315	235,057	43	50.1	39.7
Mbeya	157,170	374,350	52.9	74.4	13.5
Singida	10,726	305,976	54.7	84.5	15.2
Tabora	127,485	441,841	45.8	79.7	19.7
Rukwa	14,460	247,649	42.1	78.1	17.5
Kigoma	231,408	317,759	29.4	88.1	19.8
Shinyanga	61,366	273,901	61.6	75.9	20.1
Kagera	542,683	544,274	22.2	76.6	34.1
Mwanza	360,307	395,967	54.3	90.6	3.3
Mara	276,857	316,667	45.4	66.1	20.9
Manyara	229,585	296,749	65.6	79	12
Njombe	36,183	192,062	39.2	76	14.3
Katavi	149,060	150,583	54.1	76.3	27
Simiyu	250,702	254,526	93.5	61.6	19.8
Geita	341,002	361,603	52.5	84.2	16.2
Songwe	86,213	245,154	59.9	63.9	23.1
<b>Mainland Tanzania</b>	<b>5,132,624</b>	<b>8,539,465</b>	<b>41.6</b>	<b>79.9</b>	<b>17.2</b>
Kaskazini Unguja	24,890	25,948	19.8	79.4	30.6
Kusini Unguja	25,249	25,425	31	40.5	63.1
Mjini Magharibi	34,288	30,500	22.1	71.6	29.5
Kaskazini Pemba	27,648	31,069	16.9	76.1	30.3
Kusini Pemba	27,659	27,446	5.4	62.2	43.7
<b>Zanzibar</b>	<b>139,734</b>	<b>140,387</b>	<b>18.9</b>	<b>66.6</b>	<b>38.7</b>
<b>Tanzania</b>	<b>5,272,358</b>	<b>8,679,852</b>	<b>41.3</b>	<b>79.6</b>	<b>17.5</b>

**Table 4-4: Cropped Area Planted with Improved Seeds in Short and Long Rainy Season During 2022/23 Agricultural Year, Tanzania**

Region	Short Rainy Season		Long Rainy Season	
	Crop area planted with seeds	Crop area under improved seeds	Crop area planted with seeds	Crop area under improved seeds
Dodoma	12,345	1,125	1,098,021	123,564
Arusha	121,890	67,406	241,523	123,364
Kilimanjaro	114,383	53,181	176,479	76,583
Tanga	288,182	68,473	376,674	86,528
Morogoro	603,590	91,498	378,385	61,536
Pwani	153,167	22,628	191,623	32,134
Dar es Salaam	256,612	64,299	156,660	51,806
Lindi	1,837	-	359,438	17,607
Mtwara	423,143	24,923	109,379	3,594
Ruvuma	6,215	-	718,736	129,087
Iringa	103,964	38,041	200,536	83,393
Mbeya	130,700	69,093	463,741	118,647
Singida	3,389	-	733,949	187,484
Tabora	160,391	41,456	601,876	182,580
Rukwa	9,501	6,803	448,305	113,387
Kigoma	199,839	36,030	126,064	20,629
Shinyanga	79,660	28,422	463,471	148,124
Kagera	340,956	53,937	251,112	21,368
Mwanza	387,141	124,901	134,004	32,853
Mara	272,863	102,316	231,091	97,738
Manyara	385,709	139,757	173,039	52,319
Njombe	42,821	6,553	225,990	81,669
Katavi	265,367	87,678	12,187	5,157
Simiyu	657,695	468,565	59,251	26,097
Geita	447,426	138,165	116,837	34,109
Songwe	69,416	31,714	364,351	129,520
<b>Mainland Tanzania</b>	<b>5,538,200</b>	<b>1,768,106</b>	<b>8,412,719</b>	<b>2,040,877</b>
Kaskazini Unguja	7,514	1,103	8,309	893
Kusini Unguja	6,694	1,590	6,372	1,706
Mjini Magharibi	5,829	963	7,219	1,256
Kaskazini Pemba	7,423	887	11,168	1,059
Kusini Pemba	8,785	318	14,196	366
<b>Zanzibar</b>	<b>36,245</b>	<b>4,862</b>	<b>47,265</b>	<b>5,281</b>
<b>Tanzania</b>	<b>5,574,444</b>	<b>1,772,967</b>	<b>8,459,984</b>	<b>2,046,158</b>

“ - “ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 4-4 (ctd): Cropped Area Planted with Improved Seeds During 2022/23 Agricultural Year During 2022/23 Agricultural Year, Tanzania**

<b>Region</b>	<b>Total crop area planted with seeds</b>	<b>Crop area under improved seeds</b>
Dodoma	1,110,366	124,689
Arusha	363,413	190,770
Kilimanjaro	290,862	129,764
Tanga	664,855	155,001
Morogoro	981,975	153,034
Pwani	344,791	54,762
Dar es Salaam	413,272	116,105
Lindi	361,274	17,801
Mtwara	532,522	28,517
Ruvuma	724,951	129,698
Iringa	304,500	121,434
Mbeya	594,441	187,740
Singida	737,338	187,820
Tabora	762,267	224,036
Rukwa	457,806	120,191
Kigoma	325,903	56,659
Shinyanga	543,131	176,545
Kagera	592,068	75,306
Mwanza	521,145	157,754
Mara	503,954	200,054
Manyara	558,748	192,076
Njombe	268,811	88,222
Katavi	277,553	92,836
Simiyu	716,945	494,661
Geita	564,262	172,274
Songwe	433,767	161,234
<b>Mainland</b>	<b>13,950,918</b>	<b>3,808,982</b>
Kaskazini Unguja	15,824	1,997
Kusini Unguja	13,066	3,296
Mjini Magharibi	13,048	2,219
Kaskazini Pemba	18,591	1,946
Kusini Pemba	22,981	685
<b>Zanzibar</b>	<b>83,510</b>	<b>10,143</b>
<b>Tanzania</b>	<b>14,034,428</b>	<b>3,819,125</b>

**Table 4-8: Percentage of Agricultural Households using Fertilizers (Organic and Inorganic) in Short Rainy Season During 2022/23 Agricultural Year, Tanzania**

Holding Categories	Region	Agricultural Households with Crop Production	Percent of Agricultural Households with Crop Production Applying Fertilizers	Type of Fertilizer	
				Organic Fertilizers	Inorganic Fertilizer
Agricultural Households	Dodoma	15,027	43.2	69.9	30.1
	Arusha	130,523	51.6	76.3	34.0
	Kilimanjaro	276,494	87.5	86.4	37.0
	Tanga	361,811	30.5	71.1	54.7
	Morogoro	432,760	25.4	40.5	75.4
	Pwani	199,521	27.5	63.0	48.3
	Dar es Salaam	188,555	55.1	69.6	47.5
	Lindi	102,376	1.3	-	-
	Mtwara	388,723	14.4	53.9	56.2
	Ruvuma	70,315	31.8	76.6	62.4
	Iringa	91,315	71.9	34.8	88.0
	Mbeya	157,170	77.9	45.9	75.3
	Singida	10,726	64.4	100.0	26.8
	Tabora	127,485	46.0	64.1	44.7
	Rukwa	14,460	19.6	31.6	68.4
	Kigoma	231,408	52.3	31.9	89.5
	Shinyanga	61,366	42.7	60.6	50.8
	Kagera	542,683	33.6	99.4	4.2
	Mwanza	360,307	38.9	87.6	21.8
	Mara	276,857	50.7	80.6	28.2
	Manyara	229,585	49.3	94.0	17.7
	Njombe	36,183	87.3	30.7	90.5
	Katavi	149,060	44.0	37.7	70.1
	Simiyu	250,702	21.5	95.7	8.9
	Geita	341,002	28.4	89.3	21.0
	Songwe	86,213	65.7	23.5	97.3
	<b>Mainland Tanzania</b>	<b>5,132,624</b>	<b>40.1</b>	<b>69.6</b>	<b>45.4</b>
	Kaskazini Unguja	24,890	44.1	78.8	39.8
	Kusini Unguja	25,249	53.3	84.4	35.4
	Mjini Magharibi	34,288	64.3	97.5	16.0
	Kaskazini Pemba	27,648	29.1	88.0	21.6
	Kusini Pemba	27,659	22.7	85.7	40.5
	<b>Zanzibar</b>	<b>139,734</b>	<b>43.5</b>	<b>88.7</b>	<b>27.8</b>
	<b>Tanzania</b>	<b>5,272,358</b>	<b>40.2</b>	<b>70.1</b>	<b>44.9</b>
Large Scale Farms	Mainland Tanzania	497	66.8	70.8	66.3
	Zanzibar	27	85.2	73.9	69.6
	<b>Tanzania</b>	<b>524</b>	<b>67.7</b>	<b>71.0</b>	<b>66.5</b>
All Holdings	Mainland Tanzania		40.1	69.6	45.4
	Zanzibar		43.5	88.7	27.8
	<b>Tanzania</b>		<b>40.2</b>	<b>70.1</b>	<b>44.9</b>

“ - “ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 4-8 (ctd): Percentage of Agricultural Households using Fertilizers (Organic and Inorganic) in Long Rainy Season During 2022/23 Agricultural Year, Tanzania**

Holding Categories	Region	Agricultural Households with Crop Production	Percent of Agricultural Households with Crop Production Applying Fertilizers	Type of Fertilizer	
				Organic Fertilizers	Inorganic Fertilizer
Agricultural Households	Dodoma	548,049	12.7	95.0	6.3
	Arusha	217,382	57.3	72.5	38.2
	Kilimanjaro	315,174	80.8	82.8	54.3
	Tanga	409,526	23.4	77.4	47.2
	Morogoro	355,052	30.3	45.7	73.3
	Pwani	200,036	25.3	58.9	52.5
	Dar es Salaam	131,329	61.7	67.6	53.4
	Lindi	276,926	3.2	28.9	85.5
	Mtwara	192,799	10.4	57.5	57.4
	Ruvuma	376,275	74.7	27.3	94.7
	Iringa	170,404	83.2	40.0	88.9
	Mbeya	334,012	73.0	37.4	78.7
	Singida	306,946	45.6	95.8	9.2
	Tabora	321,174	61.7	40.7	70.4
	Rukwa	242,224	34.3	44.9	64.9
	Kigoma	153,316	47.3	18.8	88.2
	Shinyanga	256,640	38.8	81.6	26.6
	Kagera	509,650	22.8	98.4	8.5
	Mwanza	170,952	25.6	83.9	35.4
	Mara	265,186	46.0	78.2	24.4
	Manyara	117,814	46.2	88.9	29.4
	Njombe	192,259	88.4	30.7	91.1
	Katavi	14,209	60.6	27.3	93.3
	Simiyu	57,947	10.3	100.0	-
	Geita	157,608	14.5	87.7	31.9
	Songwe	213,194	68.7	25.6	89.9
	<b>Mainland Tanzania</b>	<b>6,506,085</b>	<b>42.5</b>	<b>57.0</b>	<b>60.0</b>
	Kaskazini Unguja	24,065	31.2	84.9	26.8
	Kusini Unguja	26,598	42.3	87.2	32.3
	Mjini Magharibi	34,976	61.5	94.2	20.7
	Kaskazini Pemba	31,476	34.1	76.4	37.0
	Kusini Pemba	28,482	34.9	61.6	69.1
	<b>Zanzibar</b>	<b>145,598</b>	<b>41.8</b>	<b>83.3</b>	<b>34.4</b>
	<b>Tanzania</b>	<b>6,651,682</b>	<b>42.5</b>	<b>57.5</b>	<b>59.4</b>
Large Scale Farms	Mainland Tanzania	840	65.6	64.6	70.6
	Zanzibar	27	74.1	60.0	80.0
	<b>Tanzania</b>	<b>867</b>	<b>65.9</b>	<b>64.4</b>	<b>70.9</b>
All Holdings	Mainland Tanzania		42.5	57.0	60.0
	Zanzibar		41.9	83.3	34.4
	<b>Tanzania</b>		<b>42.5</b>	<b>57.5</b>	<b>59.4</b>

“ - “ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 4-8 (ctd): Percentage of Agricultural Households using Fertilizers (Organic and Inorganic) During 2022/23 Agricultural Year**

Holding Categories	Region	Total number of Ag. HHs with crop production	Percent of Agricultural Households with Crop Production Applying Fertilizers	Type of Fertilizer	
				Organic Fertilizers	Inorganic Fertilizer
<b>Agricultural Households</b>	Dodoma	549,931	92.8	8.5	13.7
	Arusha	285,716	74.1	36.5	54.5
	Kilimanjaro	326,175	82.4	58.2	85.5
	Tanga	458,973	74.4	51.6	31.6
	Morogoro	555,617	42.4	75.5	29.8
	Pwani	248,579	59.2	53.4	29.2
	Dar es Salaam	214,659	68.9	48.7	57.3
	Lindi	276,926	43.4	85.5	3.2
	Mtwara	394,048	52.9	60.2	14.4
	Ruvuma	376,275	27.8	94.4	75.0
	Iringa	235,319	40.2	89.5	79.9
	Mbeya	386,423	39.3	81.2	79.5
	Singida	306,946	95.8	9.9	45.9
	Tabora	441,841	46.6	64.0	57.2
	Rukwa	247,649	44.8	64.7	34.4
	Kigoma	319,151	28.6	89.8	51.3
	Shinyanga	274,931	79.0	29.0	43.5
	Kagera	548,229	98.5	5.6	35.6
	Mwanza	397,632	87.9	24.2	40.0
	Mara	316,667	82.5	25.5	54.3
	Manyara	296,749	93.9	20.5	48.3
	Njombe	192,992	31.0	91.4	91.1
	Katavi	150,583	38.3	71.9	45.1
	Simiyu	254,526	95.7	8.9	21.2
	Geita	361,603	89.4	22.4	28.4
	Songwe	245,857	25.1	91.7	71.2
	<b>Mainland Tanzania</b>	<b>8,663,996</b>	<b>60.5</b>	<b>56.5</b>	<b>44.6</b>
	Kaskazini Unguja	27,167	78.0	40.8	45.8
	Kusini Unguja	26,872	87.1	36.2	53.5
	Mjini Magharibi	37,264	95.3	19.4	67.8
	Kaskazini Pemba	31,997	79.3	35.5	38.2
	Kusini Pemba	28,825	64.2	69.4	38.3
	<b>Zanzibar</b>	<b>152,126</b>	<b>83.7</b>	<b>36.1</b>	<b>49.5</b>
	<b>Tanzania</b>	<b>8,816,122</b>	<b>60.9</b>	<b>56.1</b>	<b>44.7</b>
<b>Large Scale Farms</b>	Mainland Tanzania	881	66.9	71.2	70.0
	Zanzibar	30	73.1	76.9	86.7
	<b>Tanzania</b>	<b>911</b>	<b>67.2</b>	<b>71.4</b>	<b>70.6</b>
<b>All Holdings</b>	Mainland Tanzania		<b>60.5</b>	<b>56.5</b>	<b>44.6</b>
	Zanzibar		83.7	36.1	49.5
	<b>Tanzania</b>		<b>60.9</b>	<b>56.1</b>	<b>44.7</b>

**Table 4-8 (ctd): Percentage of Agricultural Households using Fertilizers (Organic and Inorganic) in Short Rainy Season During 2022/23 Agricultural Year, Tanzania**

Holding Categories	Region	Agricultural Households with Crop Production	Percent of Agricultural Households with Crop Production Applying Fertilizers	Type of Fertilizer	
				Organic Fertilizers	Inorganic Fertilizer
<b>Agricultural Households</b>	Dodoma	15,027	43.2	69.9	30.1
	Arusha	130,523	51.6	76.3	34.0
	Kilimanjaro	276,494	87.5	86.4	37.0
	Tanga	361,811	30.5	71.1	54.7
	Morogoro	432,760	25.4	40.5	75.4
	Pwani	199,521	27.5	63.0	48.3
	Dar es Salaam	188,555	55.1	69.6	47.5
	Lindi	102,376	1.3	-	-
	Mtwara	388,723	14.4	53.9	56.2
	Ruvuma	70,315	31.8	76.6	62.4
	Iringa	91,315	71.9	34.8	88.0
	Mbeya	157,170	77.9	45.9	75.3
	Singida	10,726	64.4	100.0	26.8
	Tabora	127,485	46.0	64.1	44.7
	Rukwa	14,460	19.6	31.6	68.4
	Kigoma	231,408	52.3	31.9	89.5
	Shinyanga	61,366	42.7	60.6	50.8
	Kagera	542,683	33.6	99.4	4.2
	Mwanza	360,307	38.9	87.6	21.8
	Mara	276,857	50.7	80.6	28.2
	Manyara	229,585	49.3	94.0	17.7
	Njombe	36,183	87.3	30.7	90.5
	Katavi	149,060	44.0	37.7	70.1
	Simiyu	250,702	21.5	95.7	8.9
	Geita	341,002	28.4	89.3	21.0
	Songwe	86,213	65.7	23.5	97.3
	<b>Mainland Tanzania</b>	<b>5,132,624</b>	<b>40.1</b>	<b>69.6</b>	<b>45.4</b>
	Kaskazini Unguja	24,890	44.1	78.8	39.8
	Kusini Unguja	25,249	53.3	84.4	35.4
	Mjini Magharibi	34,288	64.3	97.5	16.0
	Kaskazini Pemba	27,648	29.1	88.0	21.6
	Kusini Pemba	27,659	22.7	85.7	40.5
	<b>Zanzibar</b>	<b>139,734</b>	<b>43.5</b>	<b>88.7</b>	<b>27.8</b>
	<b>Tanzania</b>	<b>5,272,358</b>	<b>40.2</b>	<b>70.1</b>	<b>44.9</b>
<b>Large Scale Farms</b>	Mainland	497	66.8	70.8	66.3
	Zanzibar	27	85.2	73.9	69.6
	<b>Tanzania</b>	<b>524</b>	<b>67.7</b>	<b>71.0</b>	<b>66.5</b>
<b>All Holdings</b>	Mainland Tanzania		40.1	69.6	45.4
	Zanzibar		43.5	88.7	27.8
	<b>Tanzania</b>		<b>40.2</b>	<b>70.1</b>	<b>44.9</b>

“ - “ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)



**Table 4-8 (ctd): Percentage of Agricultural Households using fertilizers (Organic and Inorganic) in Long Rainy Season During 2022/23 Agricultural Year, Tanzania**

Holding Categories	Region	Agricultural Households with Crop Production	Percent of Agricultural Households with Crop Production Applying Fertilizers	Type of Fertilizer	
				Organic Fertilizers	Inorganic Fertilizer
Agricultural Households	Dodoma	548,049	12.7	95.0	6.3
	Arusha	217,382	57.3	72.5	38.2
	Kilimanjaro	315,174	80.8	82.8	54.3
	Tanga	409,526	23.4	77.4	47.2
	Morogoro	355,052	30.3	45.7	73.3
	Pwani	200,036	25.3	58.9	52.5
	Dar es Salaam	131,329	61.7	67.6	53.4
	Lindi	276,926	3.2	28.9	85.5
	Mtwara	192,799	10.4	57.5	57.4
	Ruvuma	376,275	74.7	27.3	94.7
	Iringa	170,404	83.2	40.0	88.9
	Mbeya	334,012	73.0	37.4	78.7
	Singida	306,946	45.6	95.8	9.2
	Tabora	321,174	61.7	40.7	70.4
	Rukwa	242,224	34.3	44.9	64.9
	Kigoma	153,316	47.3	18.8	88.2
	Shinyanga	256,640	38.8	81.6	26.6
	Kagera	509,650	22.8	98.4	8.5
	Mwanza	170,952	25.6	83.9	35.4
	Mara	265,186	46.0	78.2	24.4
	Manyara	117,814	46.2	88.9	29.4
	Njombe	192,259	88.4	30.7	91.1
	Katavi	14,209	60.6	27.3	93.3
	Simiyu	57,947	10.3	100.0	-
	Geita	157,608	14.5	87.7	31.9
	Songwe	213,194	68.7	25.6	89.9
	<b>Mainland Tanzania</b>	<b>6,506,085</b>	<b>42.5</b>	<b>57.0</b>	<b>60.0</b>
	Kaskazini Unguja	24,065	31.2	84.9	26.8
	Kusini Unguja	26,598	42.3	87.2	32.3
	Mjini Magharibi	34,976	61.5	94.2	20.7
	Kaskazini Pemba	31,476	34.1	76.4	37.0
	Kusini Pemba	28,482	34.9	61.6	69.1
	<b>Zanzibar</b>	<b>145,598</b>	<b>41.8</b>	<b>83.3</b>	<b>34.4</b>
	<b>Tanzania</b>	<b>6,651,682</b>	<b>42.5</b>	<b>57.5</b>	<b>59.4</b>
Large Scale Farms	Mainland Tanzania	840	65.6	64.6	70.6
	Zanzibar	27	74.1	60.0	80.0
	<b>Tanzania</b>	<b>867</b>	<b>65.9</b>	<b>64.4</b>	<b>70.9</b>
All Holdings	Mainland Tanzania		42.5	57.0	60.0
	Zanzibar		41.9	83.3	34.4
	<b>Tanzania</b>		<b>42.5</b>	<b>57.5</b>	<b>59.4</b>

“ - “ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 4-8 (Ctd): Percentage of Agricultural Households using fertilizers (Organic and Inorganic) During 2022/23 Agricultural Year - Tanzania**

Holding Categories	Region	Total number of Ag. HHs with crop production	Percent of Agricultural Households with Crop Production Applying Fertilizers	Type of Fertilizer	
				Organic Fertilizers	Inorganic Fertilizer
Agricultural Households	Dodoma	549,931	92.8	8.5	13.7
	Arusha	285,716	74.1	36.5	54.5
	Kilimanjaro	326,175	82.4	58.2	85.5
	Tanga	458,973	74.4	51.6	31.6
	Morogoro	555,617	42.4	75.5	29.8
	Pwani	248,579	59.2	53.4	29.2
	Dar es Salaam	214,659	68.9	48.7	57.3
	Lindi	276,926	43.4	85.5	3.2
	Mtwara	394,048	52.9	60.2	14.4
	Ruvuma	376,275	27.8	94.4	75.0
	Iringa	235,319	40.2	89.5	79.9
	Mbeya	386,423	39.3	81.2	79.5
	Singida	306,946	95.8	9.9	45.9
	Tabora	441,841	46.6	64.0	57.2
	Rukwa	247,649	44.8	64.7	34.4
	Kigoma	319,151	28.6	89.8	51.3
	Shinyanga	274,931	79.0	29.0	43.5
	Kagera	548,229	98.5	5.6	35.6
	Mwanza	397,632	87.9	24.2	40.0
	Mara	316,667	82.5	25.5	54.3
	Manyara	296,749	93.9	20.5	48.3
	Njombe	192,992	31.0	91.4	91.1
	Katavi	150,583	38.3	71.9	45.1
	Simiyu	254,526	95.7	8.9	21.2
	Geita	361,603	89.4	22.4	28.4
	Songwe	245,857	25.1	91.7	71.2
	<b>Mainland Tanzania</b>	<b>8,663,996</b>	<b>60.5</b>	<b>56.5</b>	<b>44.6</b>
	Kaskazini Unguja	27,167	78.0	40.8	45.8
	Kusini Unguja	26,872	87.1	36.2	53.5
	Mjini Magharibi	37,264	95.3	19.4	67.8
	Kaskazini Pemba	31,997	79.3	35.5	38.2
	Kusini Pemba	28,825	64.2	69.4	38.3
	<b>Zanzibar</b>	<b>152,126</b>	<b>83.7</b>	<b>36.1</b>	<b>49.5</b>
	<b>Tanzania</b>	<b>8,816,122</b>	<b>60.9</b>	<b>56.1</b>	<b>44.7</b>
Large Scale Farms	Mainland Tanzania	881	66.9	71.2	70.0
	Zanzibar	30	73.1	76.9	86.7
	<b>Tanzania</b>	<b>911</b>	<b>67.2</b>	<b>71.4</b>	<b>70.6</b>
All Holdings	Mainland Tanzania		<b>60.5</b>	<b>56.5</b>	<b>44.6</b>
	Zanzibar		83.7	36.1	49.5
	<b>Tanzania</b>		<b>60.9</b>	<b>56.1</b>	<b>44.7</b>

**Table 4-19 : Area Planted with Use of Fertilizer by Fertilizer Type, Season and Region During 2022/23 Agricultural Year, Tanzania**

Holding Category	Region	Short Rainy Season			Long Rainy Season			Agricultural year		
		Total Area Applied with Fertilizer (ha)	Area Applied with Organic Fertilizer (ha)	Area Applied with Inorganic Fertilizer (ha)	Total Area Applied with Fertilizer (ha)	Area Applied with Organic Fertilizer (ha)	Area Applied with Inorganic Fertilizer (ha)	Total Area Applied with Fertilizer (ha)	Area Applied with Organic Fertilizer (ha)	Area Applied with Inorganic Fertilizer (ha)
Agricultural Households	Dodoma	2,610	1,287	-	100,632	96,733	4,089	103,242	98,020	5,412
	Arusha	56,880	42,818	18,377	125,023	90,262	41,056	181,903	133,079	59,432
	Kilimanjaro	130,584	88,741	66,239	165,267	94,653	100,102	295,851	183,394	166,340
	Tanga	78,026	59,698	36,066	68,565	51,130	32,307	146,591	110,828	68,373
	Morogoro	144,996	42,545	113,845	101,221	39,726	69,702	246,217	82,271	183,548
	Pwani	44,768	15,257	30,379	69,270	18,578	57,520	114,038	33,835	87,900
	Dar es Salaam	216,061	110,679	116,696	176,846	48,362	134,444	392,908	159,041	251,141
	Lindi	-	-	-	4,756	-	4,231	5,013	1,307	4,425
	Mtwara	77,341	44,308	37,981	24,524	15,524	10,206	101,865	59,833	48,187
	Ruvuma	16,113	7,415	12,696	440,680	75,941	397,533	456,793	83,356	410,229
	Iringa	62,976	24,253	58,002	159,332	42,877	135,340	222,307	67,130	193,342
	Mbeya	131,294	58,018	95,969	318,220	135,023	219,316	449,514	193,041	315,285
	Singida	13,542	13,542	-	178,824	172,604	11,864	192,366	186,146	12,779
	Tabora	55,481	29,892	27,752	274,902	124,166	171,513	330,383	154,057	199,266
	Rukwa	1,966	-	-	144,856	71,092	94,117	146,822	71,817	95,358
	Kigoma	91,414	16,191	77,455	59,106	12,321	47,368	150,520	28,511	124,823
	Shinyanga	31,049	16,564	18,342	120,312	90,359	32,988	151,361	106,924	51,330
	Kagera	146,464	145,440	3,355	84,331	81,233	5,128	230,795	226,672	8,483
	Mwanza	112,644	97,298	22,051	31,212	24,415	9,614	143,856	121,713	31,665
	Mara	119,679	92,443	31,622	106,294	79,281	29,285	225,973	171,724	60,907
	Manyara	127,230	112,386	24,983	58,415	39,107	24,112	185,645	151,493	49,095
	Njombe	39,223	7,584	32,135	201,501	47,459	187,297	240,724	55,043	219,431
	Katavi	78,868	35,561	48,374	8,401	982	7,629	87,269	36,543	56,003
	Simiyu	79,685	77,583	4,001	4,679	4,679	-	84,363	82,261	4,001
	Geita	111,941	95,895	22,943	20,221	18,953	4,885	132,163	114,848	27,828
	Songwe	54,120	9,612	51,177	193,158	47,185	164,032	247,278	56,797	215,209
	<b>Mainland Tanzania</b>	<b>2,025,213</b>	<b>1,245,993</b>	<b>954,113</b>	<b>3,240,548</b>	<b>1,523,692</b>	<b>1,995,679</b>	<b>5,265,761</b>	<b>2,769,685</b>	<b>2,949,793</b>
	Kaskazini Unguja	4,680	3,531	1,691	3,032	2,628	857	7,712	6,159	2,549
	Kusini Unguja	5,992	5,187	2,168	4,956	4,457	1,612	10,948	9,643	3,780
	Mjini Magharibi	5,775	5,570	1,265	6,348	5,617	2,256	12,123	11,187	3,521
	Kaskazini Pemba	2,599	2,018	914	3,978	2,938	1,543	6,576	4,956	2,457
	Kusini Pemba	2,683	2,292	1,207	3,843	2,134	2,459	6,526	4,425	3,665
	<b>Zanzibar</b>	<b>21,729</b>	<b>18,597</b>	<b>7,245</b>	<b>22,157</b>	<b>17,774</b>	<b>8,727</b>	<b>43,886</b>	<b>36,371</b>	<b>15,972</b>
	<b>Tanzania</b>	<b>2,046,942</b>	<b>1,264,590</b>	<b>961,358</b>	<b>3,262,704</b>	<b>1,541,466</b>	<b>2,004,407</b>	<b>5,309,646</b>	<b>2,806,056</b>	<b>2,965,765</b>
Large Scale Farms	Mainland	106,561	56,345	89,777	124,567	52,955	106,620	231,128	109,300	196,397
	Zanzibar	1,358	103	1,348	379	241	368	1,737	344	1,716
	<b>Tanzania</b>	<b>107,919</b>	<b>56,447</b>	<b>91,124</b>	<b>124,947</b>	<b>53,196</b>	<b>106,988</b>	<b>232,865</b>	<b>109,644</b>	<b>198,113</b>
All Holdings	Mainland Tanzania	2,131,774	1,302,338	1,043,890	3,365,115	1,576,647	2,102,299	5,496,889	2,878,985	3,146,190
	Zanzibar	23,087	18,700	8,592	22,536	18,015	9,096	45,622	36,715	17,688
	<b>Tanzania</b>	<b>2,154,861</b>	<b>1,321,037</b>	<b>1,052,483</b>	<b>3,387,651</b>	<b>1,594,662</b>	<b>2,111,395</b>	<b>5,542,512</b>	<b>2,915,700</b>	<b>3,163,878</b>

“ - “ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 4-19 (Ctd): Percentage of Agricultural Holding using Pesticides by Pesticides Type and Region During 2022/23 Agricultural Year, Tanzania - Short Rainy Season**

Holding Category	Region	Number of Holdings Engaged in Crop Production	Number of Holdings Applied Any Pesticides		Number of Holdings by Type of Pesticides									
			Holdings	Percent	Insecticides		Herbicides		Fungicide		Rodenticide		Other Pesticides	
					Holdings	Percent	Holdings	Percent	Holdings	Percent	Holdings	Percent	Holdings	Percent
Agricultural Households	Dodoma	15,027	4,640	30.9	4,640	100.0	0	0.0	0	0.0	0	0.0	0	0.0
	Arusha	130,523	64,846	49.7	63,465	97.9	4,518	7.0	3,274	5.0	730	1.1	200	0.3
	Kilimanjaro	276,494	127,135	46.0	124,813	98.2	7,601	6.0	9,189	7.2	925	0.7	0	0.0
	Tanga	361,811	67,173	18.6	62,410	92.9	2,956	4.4	14,607	21.7	0	0.0	0	0.0
	Morogoro	432,760	214,276	49.5	111,729	52.1	154,550	72.1	8,906	4.2	0	0.0	1,249	0.6
	Pwani	199,521	55,988	28.1	48,808	87.2	3,973	7.1	10,668	19.1	0	0.0	672	1.2
	Dar es Salaam	188,555	69,270	36.7	61,299	88.5	17,639	25.5	12,742	18.4	750	1.1	0	0.0
	Lindi	102,376	42,639	41.6	34,265	80.4	2,920	6.8	17,696	41.5	0	0.0	4,240	9.9
	Mtwara	388,723	211,813	54.5	159,392	75.3	76,507	36.1	71,628	33.8	0	0.0	3,251	1.5
	Ruvuma	70,315	31,882	45.3	28,554	89.6	9,176	28.8	10,334	32.4	0	0.0	0	0.0
	Iringa	91,315	39,407	43.2	38,235	97.0	2,002	5.1	12,656	32.1	0	0.0	1,517	3.8
	Mbeya	157,170	56,968	36.2	38,543	67.7	29,937	52.6	7,456	13.1	638	1.1	1,853	3.3
	Singida	10,726	2,523	23.5	-	-	-	-	-	-	-	-	-	-
	Tabora	127,485	15,666	12.3	15,666	100.0	962	6.1	1,388	8.9	0	0.0	0	0.0
	Rukwa	14,460	4,931	34.1	4,931	100.0	0.0	0.0	0.0	0.0	0	0.0	0	0.0
	Kigoma	231,408	18,937	8.2	17,753	93.7	796	4.2	1,980	10.5	0	0.0	0	0.0
	Shinyanga	61,366	19,360	31.5	18,824	97.2	390	2.0	2,112	10.9	0	0.0	0	0.0
	Kagera	542,683	53,415	9.8	37,360	69.9	12,782	23.9	3,263	6.1	0	0.0	7,954	14.9
	Mwanza	360,307	118,976	33.0	114,415	96.2	5,191	4.4	3,762	3.2	902	0.8	254	0.2
	Mara	276,857	42,088	15.2	26,890	63.9	17,252	41.0	3,750	8.9	0	0.0	0	0.0
	Manyara	229,585	84,405	36.8	83,385	98.8	1,562	1.9	8,886	10.5	268	0.3	320	0.4
	Njombe	36,183	22,929	63.4	22,929	100.0	1,957	8.5	4,366	19.0	0	0.0	0	0.0
	Katavi	149,060	49,448	33.2	45,380	91.8	5,839	11.8	2,000	4.0	535	1.1	0	0.0
	Simiyu	250,702	143,114	57.1	143,114	100.0	1,668	1.2	9,610	6.7	0	0.0	0	0.0
	Geita	341,002	137,435	40.3	134,417	97.8	4,320	3.1	4,732	3.4	0	0.0	746	0.5
	Songwe	86,213	32,970	38.2	25,330	76.8	10,729	32.5	3,494	10.6	0	0.0	297	0.9
	<b>Mainland Tanzania</b>	<b>5,132,624</b>	<b>1,732,233</b>	<b>33.7</b>	<b>1,468,184</b>	<b>84.8</b>	<b>375,225</b>	<b>21.7</b>	<b>229,387</b>	<b>13.2</b>	<b>4,748</b>	<b>0.3</b>	<b>22,551</b>	<b>1.3</b>
	Kaskazini Unguja	24,890	5,549	22.3	3,180	57.3	2,615	47.1	185	3.3	0.00	0.0	49	0.9
	Kusini Unguja	25,249	5,646	22.4	3,436	60.9	3,731	66.1	1,066	18.9	155	2.7	122	2.2
	Mjini Magharibi	34,288	4,350	12.7	2,997	68.9	1,521	35.0	168	3.9	0	0.0	0	0.0
	Kaskazini Pemba	27,648	2,703	9.8	2,216	82.0	668	24.7	127	4.7	0	0.0	0	0.0
	Kusini Pemba	27,659	3,800	13.7	2,729	71.8	1,036	27.3	227	6.0	0	0.0	0	0.0
	<b>Zanzibar</b>	<b>139,734</b>	<b>22,048</b>	<b>15.8</b>	<b>14,558</b>	<b>66.0</b>	<b>9,571</b>	<b>43.4</b>	<b>1,773</b>	<b>8.0</b>	<b>155</b>	<b>0.7</b>	<b>171</b>	<b>0.8</b>
	<b>Tanzania</b>	<b>5,272,358</b>	<b>1,754,281</b>	<b>33.3</b>	<b>1,482,742</b>	<b>84.5</b>	<b>384,796</b>	<b>21.9</b>	<b>231,160</b>	<b>13.2</b>	<b>4,903</b>	<b>0.3</b>	<b>22,723</b>	<b>1.3</b>
Large Scale Farms	Mainland Tanzania	497	318	64.0	272	85.5	122	38.4	87	27.4	2	0.6	12	3.8
	Zanzibar	27	18	66.7	17	94.4	6	33.3	3	16.7	0	0.0	0	0.0
	<b>Tanzania</b>	<b>524</b>	<b>336</b>	<b>64.1</b>	<b>289</b>	<b>86.0</b>	<b>128</b>	<b>38.1</b>	<b>90</b>	<b>26.8</b>	<b>2</b>	<b>0.6</b>	<b>12</b>	<b>3.6</b>

“ - “ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 4-19 (ctd): Percentage of Agricultural Holding using Pesticides by Pesticides Type and Region During 2022/23 Agricultural Year, Tanzania - Long Rainy Season**

Holding Category	Region	Number of Holdings Engaged in Crop Production	Number of Holdings Applied Any Pesticides		Number of Holdings by Type of Pesticides									
			Holdings	Percent	Insecticides		Herbicides		Fungicide		Rodenticide		Other Pesticides	
					Holdings	Percent	Holdings	Percent	Holdings	Percent	Holdings	Percent	Holdings	Percent
Agricultural Households	Dodoma	548,049	22,687	4.1	20,753	91.5	2,191	9.7	683	3.0	0	0.0	0	0.0
	Arusha	217,382	126,238	58.1	120,455	95.4	17,033	13.5	8,947	7.1	783	0.6	200	0.2
	Kilimanjaro	315,174	183,444	58.2	181,095	98.7	5,710	3.1	8,839	4.8	0	0.0	0	0.0
	Tanga	409,526	72,619	17.7	64,820	89.3	7,716	10.6	11,906	16.4	0	0.0	0	0.0
	Morogoro	355,052	184,452	52.0	117,835	63.9	99,744	54.1	25,570	13.9	1,562	0.8	2,836	1.5
	Pwani	200,036	64,125	32.1	54,377	84.8	14,251	22.2	7,013	10.9	1,228	1.9	1,962	3.1
	Dar es Salaam	131,329	56,823	43.3	50,268	88.5	13,386	23.6	9,459	16.6	0	0.0	0	0.0
	Lindi	276,926	193,354	69.8	159,438	82.5	89,956	46.5	17,300	8.9	0	0.0	1,320	0.7
	Mtwara	192,799	100,358	52.1	78,162	77.9	33,527	33.4	51,918	51.7	0	0.0	0	0.0
	Ruvuma	376,275	166,173	44.2	110,218	66.3	81,332	48.9	18,431	11.1	0	0.0	4,908	3.0
	Iringa	170,404	105,881	62.1	96,861	91.5	14,094	13.3	28,913	27.3	0	0.0	570	0.5
	Mbeya	334,012	147,678	44.2	84,304	57.1	86,471	58.6	37,185	25.2	0	0.0	2,181	1.5
	Singida	306,946	56,898	18.5	56,898	100.0	806	1.4	4,371	7.7	0	0.0	1,843	3.2
	Tabora	321,174	89,614	27.9	88,860	99.2	1,782	2.0	2,490	2.8	610	0.7	0	0.0
	Rukwa	242,224	70,391	29.1	67,097	95.3	6,802	9.7	1,269	1.8	0	0.0	0	0.0
	Kigoma	153,316	17,775	11.6	13,013	73.2	5,636	31.7	874	4.9	0	0.0	0	0.0
	Shinyanga	256,640	65,474	25.5	63,514	97.0	4,319	6.6	5,782	8.8	0	0.0	507	0.8
	Kagera	509,650	33,342	6.5	20,476	61.4	12,297	36.9	4,002	12.0	0	0.0	6,672	20.0
	Mwanza	170,952	37,514	21.9	37,278	99.4	235	0.6	794	2.1	0	0.0	0	0.0
	Mara	265,186	20,705	7.8	12,900	62.3	7,805	37.7	2,064	10.0	0	0.0	0	0.0
	Manyara	117,814	48,914	41.5	48,649	99.5	2,424	5.0	4,162	8.5	237	0.5	320	0.7
	Njombe	192,259	149,724	77.9	143,358	95.7	17,692	11.8	32,414	21.6	752	0.5	0	0.0
	Katavi	14,209	7,236	50.9	7,236	100.0	-	-	1,613	22.3	0	0.0	0	0.0
	Simiyu	57,947	12,006	20.7	11,278	93.9	-	-	1,554	12.9	728	6.1	0	0.0
	Geita	157,608	36,315	23.0	35,569	97.9	1,694	4.7	3,990	11.0	0	0.0	0	0.0
	Songwe	213,194	110,754	51.9	75,357	68.0	63,813	57.6	11,750	10.6	0	0.0	4,814	4.3
	<b>Mainland Tanzania</b>	<b>6,506,085</b>	<b>2,180,493</b>	<b>33.5</b>	<b>1,820,073</b>	<b>83.5</b>	<b>590,717</b>	<b>27.1</b>	<b>303,293</b>	<b>13.9</b>	<b>5,900</b>	<b>0.3</b>	<b>28,133</b>	<b>1.3</b>
	Kaskazini Unguja	24,065	3,369	14.0	2,390	70.9	1,093	32.4	188	5.6	0	0.0	0	0.0
	Kusini Unguja	26,598	4,735	17.8	3,237	68.4	3,151	66.5	1,020	21.5	0	0.0	46	1.0
	Mjini Magharibi	34,976	3,592	10.3	3,012	83.9	1,068	29.7	0	0	0	0.0	0	0.0
	Kaskazini Pemba	31,476	3,722	11.8	2,387	64.1	1,686	45.3	0	0	0	0.0	0	0.0
	Kusini Pemba	28,482	4,482	15.7	1,481	33.0	3,194	71.3	0	0	0	0.0	0	0.0
	<b>Zanzibar</b>	<b>145,598</b>	<b>19,901</b>	<b>13.7</b>	<b>12,507</b>	<b>62.8</b>	<b>10,192</b>	<b>51.2</b>	<b>1,207</b>	<b>6.1</b>	<b>0</b>	<b>0.0</b>	<b>46</b>	<b>0.2</b>
	<b>Tanzania</b>	<b>6,651,682</b>	<b>2,200,394</b>	<b>33.1</b>	<b>1,832,580</b>	<b>83.3</b>	<b>600,909</b>	<b>27.3</b>	<b>304,500</b>	<b>13.8</b>	<b>5,900</b>	<b>0.3</b>	<b>28,179</b>	<b>1.3</b>
Large Scale Farms	Mainland Tanzania	840	576	68.6	517	89.8	216	37.5	157	27.3	3	0.5	8	1.4
	Zanzibar	27	15	55.6	13	86.7	5	33.3	3	20.0	0	0	0	0
	<b>Tanzania</b>	<b>867</b>	<b>591</b>	<b>68.2</b>	<b>530</b>	<b>89.7</b>	<b>221</b>	<b>37.4</b>	<b>160</b>	<b>27.1</b>	<b>3</b>	<b>0.5</b>	<b>8</b>	<b>1.4</b>

“ - “ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 4-19 (Ctd): Percentage of Agricultural Holding using Pesticides by Pesticides Type and Region During 2022/23 Agricultural Year, Tanzania - (Short and Long Rainy Season)**

Holding Category	Region	Number of Holdings Engaged in Crop Production	Number of Holdings Applied Any Pesticides		Number of Holdings by Type of Pesticides									
			Holdings	Percent	Insecticides		Herbicides		Fungicide		Rodenticide		Other Pesticides	
					Holdings	Percent	Holdings	Percent	Holdings	Percent	Holdings	Percent	Holdings	Percent
Agricultural Households	Dodoma	549,931	26,294	4.8	24,360	92.6	2,191	8.3	683	2.6	0	0.0	0	0.0
	Arusha	285,716	166,100	58.1	160,908	96.9	18,374	11.1	11,087	6.7	1,513	0.9	399	0.2
	Kilimanjaro	326,175	204,121	62.6	201,773	98.8	12,413	6.1	12,450	6.1	925	0.5	0	0.0
	Tanga	458,973	101,837	22.2	95,315	93.6	8,444	8.3	20,792	20.4	0	0.0	0	0.0
	Morogoro	555,617	315,876	56.9	167,224	52.9	226,892	71.8	29,655	9.4	1,562	0.5	2,836	0.9
	Pwani	248,579	83,728	33.7	68,844	82.2	18,225	21.8	15,553	18.6	1,228	1.5	2,634	3.1
	Dar es Salaam	214,659	82,736	38.5	72,594	87.7	19,810	23.9	14,328	17.3	750	0.9	0	0.0
	Lindi	276,926	205,561	74.2	170,383	82.9	91,416	44.5	30,803	15.0	0	0.0	4,240	2.1
	Mtwara	394,048	224,273	56.9	161,373	72.0	89,229	39.8	74,071	33.0	0	0.0	3,251	1.4
	Ruvuma	376,275	174,836	46.5	120,131	68.7	83,298	47.6	24,318	13.9	0	0.0	4,908	2.8
	Iringa	235,319	132,546	56.3	124,838	94.2	15,692	11.8	36,463	27.5	0	0.0	1,517	1.1
	Mbeya	386,423	187,870	48.6	111,260	59.2	107,589	57.3	43,071	22.9	638	0.3	3,396	1.8
	Singida	306,946	56,898	18.5	56,898	100.0	806	1.4	4,371	7.7	0	0.0	1,843	3.2
	Tabora	441,841	102,855	23.3	102,101	99.3	2,744	2.7	3,452	3.4	610	0.6	0	0.0
	Rukwa	247,649	73,364	29.6	70,070	95.5	6,802	9.3	1,269	1.7	0	0.0	0	0.0
	Kigoma	319,151	31,674	9.9	25,728	81.2	6,432	20.3	2,854	9.0	0	0.0	0	0.0
	Shinyanga	274,931	77,760	28.3	76,736	98.7	4,709	6.1	6,318	8.1	0	0.0	507	0.7
	Kagera	548,229	59,049	10.8	44,194	74.8	16,312	27.6	7,266	12.3	0	0.0	7,954	13.5
	Mwanza	397,632	130,448	32.8	125,651	96.3	5,427	4.2	3,762	2.9	902	0.7	254	0.2
	Mara	316,667	48,242	15.2	31,190	64.7	19,105	39.6	4,197	8.7	0	0.0	0	0.0
	Manyara	296,749	110,510	37.2	110,000	99.5	3,171	2.9	10,749	9.7	505	0.5	320	0.3
	Njombe	192,992	151,212	78.4	144,846	95.8	17,692	11.7	32,882	21.7	752	0.5	0	0.0
	Katavi	150,583	51,666	34.3	48,133	93.2	5,839	11.3	3,612	7.0	535	1.0	0	0.0
	Simiyu	254,526	146,029	57.4	146,029	100.0	1,668	1.1	11,164	7.6	728	0.5	0	0.0
	Geita	361,603	146,160	40.4	143,143	97.9	5,267	3.6	7,931	5.4	0	0.0	746	0.5
	Songwe	245,857	122,766	49.9	83,363	67.9	71,694	58.4	12,927	10.5	0	0.0	5,111	4.2
	<b>Mainland Tanzania</b>	<b>8,663,996</b>	<b>3,214,410</b>	<b>37.1</b>	<b>2,687,086</b>	<b>83.6</b>	<b>861,241</b>	<b>26.8</b>	<b>426,027</b>	<b>13.3</b>	<b>10,648</b>	<b>0.3</b>	<b>39,915</b>	<b>1.2</b>
	Kaskazini Unguja	27,167	6,972	25.7	4,136	59.3	3,316	47.6	334	4.8	0	0.0	49	0.7
	Kusini Unguja	26,872	6,229	23.2	3,816	61.3	4,247	68.2	1,066	17.1	155	2.5	168	2.7
	Mjini Magharibi	37,264	5,375	14.4	4,276	79.5	1,945	36.2	168	3.1	0	0.0	0	0.0
	Kaskazini Pemba	31,997	4,638	14.5	3,372	72.7	1,783	38.4	127	2.7	0	0.0	0	0.0
	Kusini Pemba	28,825	5,890	20.4	2,956	50.2	3,510	59.6	227	3.9	0	0.0	0	0.0
	<b>Zanzibar</b>	<b>152,126</b>	<b>29,105</b>	<b>19.1</b>	<b>18,555</b>	<b>63.8</b>	<b>14,801</b>	<b>50.9</b>	<b>1,922</b>	<b>6.6</b>	<b>155</b>	<b>0.5</b>	<b>217</b>	<b>0.7</b>
	<b>Tanzania</b>	<b>8,816,122</b>	<b>3,243,515</b>	<b>36.8</b>	<b>2,705,641</b>	<b>83.4</b>	<b>876,042</b>	<b>27.0</b>	<b>427,949</b>	<b>13.2</b>	<b>10,803</b>	<b>0.3</b>	<b>40,133</b>	<b>1.2</b>
Large Scale Farms	Mainland Tanzania	881	651	73.9	590	90.6	252	38.7	178	27.3	5	0.8	18	2.8
	Zanzibar	30	20	66.7	18	90.0	7	35.0	5	25.0	0	0.0	0	0.0
	<b>Tanzania</b>	<b>911</b>	<b>671</b>	<b>73.7</b>	<b>608</b>	<b>90.6</b>	<b>259</b>	<b>38.6</b>	<b>183</b>	<b>27.3</b>	<b>5</b>	<b>0.7</b>	<b>18</b>	<b>2.7</b>

“ - “ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 4-20: Area Planted with Use of Pesticides, by Pesticide Type and Region in Short Rainy Season During 2022/23 Agricultural Year, Tanzania**

Holding Category	Region	Total Area Planted with Crops (ha)	Planted Area Applied with Pesticides		Type of Pesticide								Other pesticides	
			Area (ha)	Percent	Insecticides		Herbicides		Fungicides		Rodenticides		Other pesticides	
					Area (ha)	Percent	Area (ha)	Percent	Area (ha)	Percent	Area (ha)	Percent	Area (ha)	Percent
Agricultural Households	Dodoma	14,076	1,559	11.1	1,559	100.0	-	-	-	-	-	-	-	-
	Arusha	136,724	76,935	56.3	74,628	97.0	4,782	6.2	3,045	4.0	-	-	-	-
	Kilimanjaro	164,769	91,319	55.4	90,226	98.8	8,166	8.9	5,697	6.2	-	-	-	-
	Tanga	364,552	64,355	17.7	55,730	86.6	8,434	13.1	8,591	13.3	-	-	-	-
	Morogoro	664,154	315,029	47.4	133,061	42.2	224,904	71.4	8,215	2.6	-	-	-	-
	Pwani	189,931	64,219	33.8	59,913	93.3	2,514	3.9	9,033	14.1	-	-	-	-
	Dar es Salaam	355,832	145,408	40.9	112,216	77.2	27,991	19.3	56,868	39.1	-	-	-	-
	Lindi	172,519	67,681	39.2	56,826	84.0	-	-	31,167	46.0	-	-	8,045	11.9
	Mtwara	830,700	458,750	55.2	306,641	66.8	173,482	37.8	142,908	31.2	-	-	9,634	2.1
	Ruvuma	136,311	68,787	50.5	56,584	82.3	9,060	13.2	34,618	50.3	-	-	-	-
	Iringa	105,352	44,743	42.5	42,387	94.7	2,619	5.9	10,985	24.6	-	-	997	2.2
	Mbeya	168,136	81,579	48.5	48,895	59.9	48,010	58.9	4,795	5.9	-	-	10,290	12.6
	Singida	15,344	-	-	-	-	-	-	-	-	-	-	-	-
	Tabora	162,142	17,145	10.6	17,145	100.0	-	-	-	-	-	-	-	-
	Rukwa	9,890	2,815	28.5	2,815	100.0	-	-	-	-	-	-	-	-
	Kigoma	211,806	17,911	8.5	16,048	89.6	-	-	-	-	-	-	-	-
	Shinyanga	83,136	22,910	27.6	21,746	94.9	-	-	1,691	7.4	-	-	-	-
	Kagera	517,456	54,348	10.5	33,521	61.7	9,718	17.9	-	-	-	-	11,823	21.8
	Mwanza	391,865	109,637	28.0	102,233	93.2	6,745	6.2	3,023	2.8	-	-	-	-
	Mara	278,814	38,641	13.9	23,417	60.6	16,300	42.2	1,950	5.0	-	-	-	-
	Manyara	425,826	105,516	24.8	105,062	99.6	1,928	1.8	9,779	9.3	-	-	-	-
	Njombe	49,744	26,086	52.4	26,086	100.0	-	-	5,330	20.4	-	-	-	-
	Katavi	267,413	63,372	23.7	54,483	86.0	8,371	13.2	1,267	2.0	-	-	-	-
	Simiyu	664,480	240,244	36.2	239,842	99.8	-	-	14,221	5.9	-	-	-	-
	Geita	457,637	157,095	34.3	151,154	96.2	4,410	2.8	5,072	3.2	-	-	-	-
	Songwe	88,795	30,910	34.8	21,909	70.9	12,479	40.4	1,602	5.2	-	-	-	-
	<b>Mainland Tanzania</b>	<b>6,927,404</b>	<b>2,367,169</b>	<b>34.2</b>	<b>1,854,293</b>	<b>78.3</b>	<b>578,836</b>	<b>24.5</b>	<b>362,583</b>	<b>15.3</b>	<b>4,346</b>	<b>0.2</b>	<b>43,307</b>	<b>1.8</b>
	Kaskazini Unguja	12,501	2,752	22.0	1,543	56.1	877	31.9	431	15.7	-	-	-	-
	Kusini Unguja	13,346	2,209	16.6	1,246	56.4	1,637	74.1	185	8.4	-	-	-	-
	Mjini Magharibi	10,192	1,672	16.4	1,034	61.9	663	39.7	-	-	-	-	-	-
	Kaskazini Pemba	10,698	862	8.1	594	68.9	241	27.9	-	-	-	-	-	-
	Kusini Pemba	15,800	1,584	10.0	653	41.2	878	55.4	-	-	-	-	-	-
	<b>Zanzibar</b>	<b>62,538</b>	<b>9,080</b>	<b>14.5</b>	<b>5,071</b>	<b>55.9</b>	<b>4,296</b>	<b>47.3</b>	<b>846</b>	<b>9.3</b>	-	-	-	-
	<b>Tanzania</b>	<b>6,989,941</b>	<b>2,376,249</b>	<b>34.0</b>	<b>1,859,364</b>	<b>78.2</b>	<b>583,132</b>	<b>24.5</b>	<b>363,429</b>	<b>15.3</b>	<b>4,362</b>	<b>0.2</b>	<b>43,465</b>	<b>1.8</b>
Large Scale Farms	Mainland Tanzania	175,663	114,918	65.4	85,984	74.8	59,480	51.8	16,296	14.2	-	-	858	0.7
	Zanzibar	2,468	1,351	54.7	137	10.1	1,331	98.5	3	0.2	-	-	-	-
	<b>Tanzania</b>	<b>178,132</b>	<b>116,269</b>	<b>65.3</b>	<b>86,121</b>	<b>74.1</b>	<b>60,810</b>	<b>52.3</b>	<b>16,299</b>	<b>14.0</b>	-	-	<b>858</b>	<b>0.7</b>
All Holdings	Mainland Tanzania	7,103,067	2,482,087	34.9	1,940,278	78.2	638,316	25.7	378,880	15.3	4,395	0.2	44,165	1.8
	Zanzibar	65,006	10,430	16.0	5,208	49.9	5,626	53.9	849	8.1	-	-	-	-
	<b>Tanzania</b>	<b>7,168,073</b>	<b>2,492,517</b>	<b>34.8</b>	<b>1,945,485</b>	<b>78.1</b>	<b>643,942</b>	<b>25.8</b>	<b>379,728</b>	<b>15.2</b>	<b>4,410</b>	<b>0.2</b>	<b>44,323</b>	<b>1.8</b>

“ - “ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 4-20 (Ctd): Area planted with Use of Pesticides, by Pesticide Type and Region in Long Rainy Season During 2022/23 Agricultural Year – Tanzania**

Holding Category	Region	Total Area Planted with Crops (ha)	Planted Area Applied with Pesticides	Type of Pesticide									
				Insecticides		Herbicides		Fungicides		Rodenticides		Other pesticides	
				Area (ha)	Percent	Area (ha)	Percent	Area (ha)	Percent	Area (ha)	Percent	Area (ha)	Percent
Agricultural Households	Dodoma	1,147,284	29,634	2.6	29,379	99.1	-	-	-	-	-	-	-
	Arusha	264,085	149,591	56.6	144,476	96.6	17,291	11.6	7,087	4.7	-	-	-
	Kilimanjaro	224,933	136,799	60.8	135,079	98.7	3,354	2.5	7,351	5.4	-	-	-
	Tanga	433,436	87,924	20.3	75,547	85.9	14,910	17.0	5,119	5.8	-	-	-
	Morogoro	423,836	202,551	47.8	100,637	49.7	106,870	52.8	29,214	14.4	-	-	1,550 0.8
	Pwani	213,682	103,747	48.6	86,642	83.5	19,892	19.2	4,099	4.0	-	-	-
	Dar es Salaam	260,979	117,733	45.1	108,778	92.4	19,601	16.6	34,511	29.3	-	-	-
	Lindi	545,069	351,546	64.5	296,565	84.4	164,020	46.7	28,207	8.0	-	-	-
	Mtwara	349,543	193,740	55.4	161,410	83.3	43,715	22.6	113,503	58.6	-	-	-
	Ruvuma	1,006,811	321,567	31.9	181,403	56.4	140,300	43.6	56,948	17.7	-	-	12,948 4.0
	Iringa	201,875	123,676	61.3	108,550	87.8	17,073	13.8	18,469	14.9	-	-	-
	Mbeya	500,629	190,794	38.1	94,506	49.5	122,676	64.3	31,849	16.7	-	-	1,586 0.8
	Singida	748,195	75,283	10.1	74,625	99.1	-	-	5,801	7.7	-	-	-
	Tabora	602,044	120,962	20.1	120,269	99.4	1,793	1.5	3,484	2.9	-	-	-
	Rukwa	455,550	143,248	31.4	122,266	85.4	20,982	14.6	-	-	-	-	-
	Kigoma	136,167	8,514	6.3	6,158	72.3	2,356	27.7	-	-	-	-	-
	Shinyanga	467,731	110,148	23.5	101,754	92.4	15,338	13.9	7,958	7.2	-	-	-
	Kagera	423,743	37,317	8.8	18,652	50.0	10,541	28.2	1,999	5.4	-	-	11,153 29.9
	Mwanza	135,826	31,038	22.9	30,895	99.5	-	-	-	-	-	-	-
	Mara	237,554	15,703	6.6	10,294	65.6	5,228	33.3	-	-	-	-	-
	Manyara	190,478	67,707	35.5	66,820	98.7	2,629	3.9	6,747	10.0	-	-	-
	Njombe	231,695	180,006	77.7	172,300	95.7	22,622	12.6	25,993	14.4	-	-	-
	Katavi	13,688	6,549	47.8	6,549	100.0	-	-	76	1.2	-	-	-
	Simiyu	59,251	10,523	17.8	10,376	98.6	-	-	-	-	-	-	-
	Geita	130,379	26,076	20.0	25,925	99.4	1,139	4.4	1,769	6.8	-	-	-
	Songwe	394,606	156,801	39.7	105,719	67.4	76,392	48.7	5,619	3.6	-	-	4,508 2.9
	<b>Mainland Tanzania</b>	<b>9,799,068</b>	<b>2,999,178</b>	<b>30.6</b>	<b>2,395,574</b>	<b>79.9</b>	<b>833,114</b>	<b>27.8</b>	<b>399,013</b>	<b>13.3</b>	<b>3,599</b>	<b>0.1</b>	<b>37,967 1.3</b>
	Kaskazini Unguja	12,111	1,436	11.9	1,239	86.3	201	14.0	164	11.4	-	-	-
	Kusini Unguja	12,764	1,947	15.3	1,427	73.3	1,361	69.9	295	15.2	-	-	-
	Mjini Magharibi	11,771	1,509	12.8	954	63.3	572	37.9	-	-	-	-	-
	Kaskazini Pemba	14,412	1,398	9.7	772	55.2	678	48.5	-	-	-	-	-
	Kusini Pemba	21,402	2,142	10.0	498	23.3	1,762	82.3	-	-	-	-	-
	<b>Zanzibar</b>	<b>72,459</b>	<b>8,431</b>	<b>11.6</b>	<b>4,891</b>	<b>58.0</b>	<b>4,574</b>	<b>54.2</b>	<b>459</b>	<b>5.4</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>Tanzania</b>	<b>9,871,527</b>	<b>3,007,610</b>	<b>30.5</b>	<b>2,400,465</b>	<b>79.8</b>	<b>837,687</b>	<b>27.9</b>	<b>399,472</b>	<b>13.3</b>	<b>3,599</b>	<b>0.1</b>	<b>37,976 1.3</b>
Large Scale Farms	Mainland Tanzania	200,461	131,934	65.8	98,418	74.6	101,088	76.6	32,381	24.5	1,123	0.9	300 0.2
	Zanzibar	681	326	47.9	114	35.0	302	92.6	10	3.2	-	-	-
	<b>Tanzania</b>	<b>201,143</b>	<b>132,260</b>	<b>65.8</b>	<b>98,532</b>	<b>74.5</b>	<b>101,390</b>	<b>76.7</b>	<b>32,392</b>	<b>24.5</b>	<b>1,123</b>	<b>0.8</b>	<b>300 0.2</b>
All Holdings	Mainland Tanzania	9,999,529	3,131,112	31.3	2,493,991	79.7	934,202	29.8	431,395	13.8	4,722	0.2	38,267 1.2
	Zanzibar	73,141	8,757	12.0	5,006	57.2	4,876	55.7	469	5.4	-	-	-
	<b>Tanzania</b>	<b>10,072,670</b>	<b>3,139,870</b>	<b>31.2</b>	<b>2,498,997</b>	<b>79.6</b>	<b>939,077</b>	<b>29.9</b>	<b>431,864</b>	<b>13.8</b>	<b>4,722</b>	<b>0.2</b>	<b>38,277 1.2</b>

“ - “ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)



**Table 4-20 (Ctd): Area Planted with Use of Pesticides, by Pesticide Type and Region in Short and Long Rainy Season During 2022/23 Agricultural Year – Tanzania**

Holding Category	Region	Total Area Planted with Crops (ha)	Planted Area Applied with Pesticides		Type of Pesticide									
					Insecticides		Herbicides		Fungicides		Rodenticides		Other pesticides	
			Area (ha)	Percent	Area (ha)	Percent	Area (ha)	Percent	Area (ha)	Percent	Area (ha)	Percent	Area (ha)	Percent
Agricultural Households	Dodoma	1,161,360	31,193	2.7	30,938	99.2	-	-	-	-	-	-	-	-
	Arusha	400,809	226,526	56.5	219,104	96.7	22,073	9.7	10,131	4.5	653	0.3	-	-
	Kilimanjaro	389,702	228,118	58.5	225,304	98.8	11,519	5.0	13,049	5.7	-	-	-	-
	Tanga	797,988	152,279	19.1	131,277	86.2	23,344	15.3	13,710	9.0	-	-	-	-
	Morogoro	1,087,990	517,580	47.6	233,699	45.2	331,774	64.1	37,429	7.2	-	-	2,056	0.4
	Pwani	403,613	167,966	41.6	146,554	87.3	22,406	13.3	13,132	7.8	-	-	831	0.5
	Dar es Salaam	616,811	263,141	42.7	220,994	84.0	47,592	18.1	91,378	34.7	-	-	-	-
	Lindi	717,587	419,227	58.4	353,391	84.3	165,792	39.5	59,374	14.2	-	-	10,182	2.4
	Mtwara	1,180,243	652,490	55.3	468,051	71.7	217,197	33.3	256,411	39.3	-	-	9,634	1.5
	Ruvuma	1,143,122	390,354	34.1	237,987	61.0	149,360	38.3	91,566	23.5	-	-	12,948	3.3
	Iringa	307,226	168,418	54.8	150,937	89.6	19,693	11.7	29,453	17.5	-	-	1,920	1.1
	Mbeya	668,765	272,373	40.7	143,401	52.6	170,686	62.7	36,645	13.5	-	-	11,877	4.4
	Singida	763,538	75,458	9.9	74,791	99.1	-	-	5,810	7.7	-	-	-	-
	Tabora	764,187	138,107	18.1	137,414	99.5	2,182	1.6	3,949	2.9	-	-	-	-
	Rukwa	465,440	146,064	31.4	125,082	85.6	20,982	14.4	-	-	-	-	-	-
	Kigoma	347,972	26,425	7.6	22,206	84.0	3,859	14.6	794	3.0	-	-	-	-
	Shinyanga	550,867	133,058	24.2	123,500	92.8	16,284	12.2	9,649	7.3	-	-	-	-
	Kagera	941,199	91,665	9.7	52,173	56.9	20,259	22.1	3,815	4.2	-	-	22,976	25.1
	Mwanza	527,691	140,675	26.7	133,128	94.6	6,888	4.9	3,399	2.4	-	-	-	-
	Mara	516,368	54,345	10.5	33,712	62.0	21,528	39.6	2,785	5.1	-	-	-	-
	Manyara	616,304	173,223	28.1	171,882	99.2	4,557	2.6	16,526	9.5	-	-	-	-
	Njombe	281,440	206,092	73.2	198,386	96.3	25,984	12.6	31,322	15.2	-	-	-	-
	Katavi	281,101	69,921	24.9	61,031	87.3	8,371	12.0	1,343	1.9	-	-	-	-
	Simiyu	723,731	250,767	34.6	250,218	99.8	-	-	14,703	5.9	-	-	-	-
	Geita	588,017	183,171	31.2	177,079	96.7	5,549	3.0	6,840	3.7	-	-	-	-
	Songwe	483,400	187,711	38.8	127,628	68.0	88,872	47.3	7,220	3.8	-	-	4,629	2.5
	<b>Mainland Tanzania</b>	<b>16,726,471</b>	<b>5,366,347</b>	<b>32.1</b>	<b>4,249,867</b>	<b>79.2</b>	<b>1,411,950</b>	<b>26.3</b>	<b>761,597</b>	<b>14.2</b>	<b>7,945</b>	<b>0.1</b>	<b>81,274</b>	<b>1.5</b>
	Kaskazini Unguja	24,612	4,188	17.0	2,782	66.4	1,078	25.7	595	14.2	-	-	-	-
	Kusini Unguja	26,110	4,157	15.9	2,673	64.3	2,999	72.1	480	11.5	-	-	-	-
	Mjini Magharibi	21,963	3,181	14.5	1,989	62.5	1,235	38.8	-	-	-	-	-	-
	Kaskazini Pemba	25,110	2,260	9.0	1,366	60.5	918	40.6	-	-	-	-	-	-
	Kusini Pemba	37,202	3,726	10.0	1,152	30.9	2,640	70.8	-	-	-	-	-	-
	<b>Zanzibar</b>	<b>134,997</b>	<b>17,511</b>	<b>13.0</b>	<b>9,963</b>	<b>56.9</b>	<b>8,870</b>	<b>50.7</b>	<b>1,305</b>	<b>7.5</b>	-	-	<b>167</b>	<b>1.0</b>
	<b>Tanzania</b>	<b>16,861,468</b>	<b>5,383,858</b>	<b>31.9</b>	<b>4,259,829</b>	<b>79.1</b>	<b>1,420,819</b>	<b>26.4</b>	<b>762,901</b>	<b>14.2</b>	<b>7,961</b>	<b>0.1</b>	<b>81,441</b>	<b>1.5</b>
Large Scale Farms	Mainland Tanzania	376,125	246,852	65.6	184,402	74.7	160,568	65.0	48,678	19.7	1,171	0.5	1,158	0.5
	Zanzibar	3,149	1,677	53.2	251	15.0	1,633	97.4	13	0.8	-	-	-	-
	<b>Tanzania</b>	<b>379,274</b>	<b>248,529</b>	<b>65.5</b>	<b>184,653</b>	<b>74.3</b>	<b>162,200</b>	<b>65.3</b>	<b>48,691</b>	<b>19.6</b>	<b>1,171</b>	<b>0.5</b>	<b>1,158</b>	<b>0.5</b>
All Holdings	Mainland Tanzania	17,102,596	5,613,199	32.8	4,434,269	79.0	1,572,518	28.0	810,274	14.4	9,117	0.2	82,432	1.5
	Zanzibar	138,146	19,188	13.9	10,213	53.2	10,502	54.7	1,318	6.9	-	-	167	0.9
	<b>Tanzania</b>	<b>17,240,742</b>	<b>5,632,387</b>	<b>32.7</b>	<b>4,444,483</b>	<b>78.9</b>	<b>1,583,020</b>	<b>28.1</b>	<b>811,592</b>	<b>14.4</b>	<b>9,132</b>	<b>0.2</b>	<b>82,599</b>	<b>1.5</b>

“ - “ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1: Number of Agricultural Households, Planted and Harvested Area, Production, Yield by Crop During the 2022/23 Agricultural Year, Short Rainy Seasons -Tanzania**

Holdings Category	Region	Maize					Paddy				
		Number of Holdings	Area Planted (Ha)	Area Harvested (Ha)	Production (Ton)	Yield (tons/ha)	Number of Holdings	Area Planted (Ha)	Area Harvested (Ha)	Production (Ton)	Yield (tons/ha)
Agricultural Households	Dodoma	8,258	3,434	1,050	1,166	1.1	-	-	-	-	-
	Arusha	100,260	70,677	42,241	81,669	1.9	-	-	-	-	-
	Kilimanjaro	142,645	57,474	32,519	65,108	2	13,208	10,815	7,842	30,101	3.8
	Tanga	304,409	196,696	79,968	103,173	1.3	9,137	5,587	3,329	5,381	1.6
	Morogoro	303,681	256,917	138,038	159,384	1.2	213,031	250,783	156,362	272,185	1.7
	Pwani	126,481	65,573	34,475	37,314	1.1	23,505	13,554	5,423	3,715	0.7
	Dar es Salaam	96,551	96,018	73,298	85,082	1.2	17,650	24,400	16,569	24,582	1.5
	Lindi	-	-	-	-	-	-	-	-	-	-
	Mtwara	238,458	113,805	84,886	71,965	0.8	43,708	29,470	19,654	13,251	0.7
	Ruvuma	-	-	-	-	-	-	-	-	-	-
	Iringa	84,602	67,358	53,691	88,175	1.6	-	-	-	-	-
	Mbeya	97,854	68,815	58,275	113,497	1.9	19,490	26,343	23,844	75,314	3.2
	Singida	-	-	-	-	-	-	-	-	-	-
	Tabora	113,307	78,855	43,356	90,174	2.1	47,736	33,177	18,226	43,131	2.4
	Rukwa	12,383	7,231	3,666	9,578	2.6	-	-	-	-	-
	Kigoma	214,016	108,669	71,832	121,827	1.7	15,955	9,033	6,275	18,559	3
	Shinyanga	51,284	39,878	18,866	39,097	2.1	6,556	6,762	3,771	9,639	2.6
	Kagera	478,793	146,894	87,604	166,066	1.9	18,890	16,962	6,683	17,102	2.6
	Mwanza	314,470	170,755	99,769	161,593	1.6	127,066	86,266	56,120	130,686	2.3
	Mara	222,549	151,011	112,056	141,788	1.3	4,635	3,529	1,887	1,272	0.7
	Manyara	221,460	242,727	125,199	367,087	2.9	1,145	2,330	1,835	8,455	4.6
	Njombe	24,291	16,866	14,177	17,651	1.2	-	-	-	-	-
	Katavi	139,873	124,946	94,247	181,351	1.9	50,122	63,250	51,882	178,279	3.4
	Simiyu	242,536	273,124	255,867	283,615	1.1	97,750	53,669	49,289	88,188	1.8
	Geita	331,133	219,880	136,143	214,114	1.6	95,747	69,839	54,921	107,917	2.0
	Songwe	49,068	39,322	32,394	86,439	2.7	3,690	5,125	5,044	8,294	1.6
	<b>Mainland Tanzania</b>	<b>3,919,531</b>	<b>2,617,459</b>	<b>1,693,938</b>	<b>2,688,815</b>	<b>1.6</b>	<b>811,102</b>	<b>712,483</b>	<b>490,079</b>	<b>1,042,584</b>	<b>2.1</b>
	Kaskazini Unguja	2,477	439	320	175	0.5	5,654	1,757	1,444	1,164	0.8
	Kusini Unguja	1,130	145	145	178	1.2	2,918	922	922	1,249	1.4
	Mjini Magharibi	1,376	184	82	177	2.2	1,821	487	229	168	0.7
	Kaskazini Pemba	237	38	32	63	2.00	1,180	200	152	89	0.6
	Kusini Pemba	867	122	104	41	0.4	464	141	122	93	0.8
	<b>Zanzibar</b>	<b>6,087</b>	<b>929</b>	<b>684</b>	<b>635</b>	<b>0.9</b>	<b>12,037</b>	<b>3,506</b>	<b>2,868</b>	<b>2,763</b>	<b>1</b>
	<b>Tanzania</b>	<b>3,925,617</b>	<b>2,618,389</b>	<b>1,694,622</b>	<b>2,689,451</b>	<b>1.6</b>	<b>823,139</b>	<b>715,990</b>	<b>492,947</b>	<b>1,045,348</b>	<b>2.1</b>
Large Scale Farms	Mainland Tanzania	127	3,527	2,604	3,042	1.2	40	3,927	3,626	817	0.2
	Zanzibar	3	5	1	1	0.6	3	28	28	12	0.4
	<b>Tanzania</b>	<b>130</b>	<b>3,532</b>	<b>2,605</b>	<b>3,043</b>	<b>1.2</b>	<b>43</b>	<b>3,954</b>	<b>3,653</b>	<b>829</b>	<b>0.2</b>
All Holdings	Mainland Tanzania	-	2,620,986	1,696,542	2,691,858	1.6	-	716,410	493,704	1,043,401	2.1
	Zanzibar	-	935	685	636	0.9	-	3,534	2,895	2,775	1
	<b>Tanzania</b>	-	<b>2,621,921</b>	<b>1,697,227</b>	<b>2,692,494</b>	<b>1.6</b>	-	<b>719,944</b>	<b>496,600</b>	<b>1,046,176</b>	<b>2.1</b>

“ - “ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Areas, Production, Yield by Crop During the 2022/23 Agricultural Year, Tanzania - Short Rainy Season**

Holdings Category	Region	Sorghum					Bulrush Millet				
		Number of holdings	Area Planted (Ha)	Area Harvested (Ha)	Production (Tonne)	Yield (tons/ha)	Number of holdings	Area Planted (Ha)	Area Harvested (Ha)	Production (Tonne)	Yield (tons/ha)
Agricultural Households	Dodoma	2,822	3,569	2,094	629	0.3	-	-	-	-	-
	Arusha	2,150	1,031	941	476	0.5	-	-	-	-	-
	Kilimanjaro	3,648	1,188	553	306	0.6	-	-	-	-	-
	Tanga	-	-	-	-	-	-	-	-	-	-
	Morogoro	13,744	14,086	11,799	8,007	0.7	-	-	-	-	-
	Pwani	-	-	-	-	-	-	-	-	-	-
	Dar es Salaam	-	-	-	-	-	-	-	-	-	-
	Lindi	-	-	-	-	-	-	-	-	-	-
	Mtwara	28,559	5,943	4,079	1,656	0.4	-	-	-	-	-
	Ruvuma	-	-	-	-	-	-	-	-	-	-
	Iringa	-	-	-	-	-	-	-	-	-	-
	Mbeya	-	-	-	-	-	-	-	-	-	-
	Singida	-	-	-	-	-	-	-	-	-	-
	Tabora	3,365	2,450	1,019	1,616	1.6	-	-	-	-	-
	Rukwa	-	-	-	-	-	-	-	-	-	-
	Kigoma	3,846	239	92	57	0.6	-	-	-	-	-
	Shinyanga	-	-	-	-	-	-	-	-	-	-
	Kagera	9,014	1,696	514	509	1.0	-	-	-	-	-
	Mwanza	11,602	6,093	3,692	3,184	0.9	-	-	-	-	-
	Mara	33,580	15,148	13,108	9,332	0.7	-	-	-	-	-
	Manyara	11,321	7,049	4,146	5,726	1.4	-	-	-	-	-
	Njombe	-	-	-	-	-	-	-	-	-	-
	Katavi	-	-	-	-	-	-	-	-	-	-
	Simiyu	28,360	21,577	20,409	14,074	0.7	-	-	-	-	-
	Geita	3,437	1,229	908	740	0.8	-	-	-	-	-
	Songwe	1,897	916	827	539	0.7	-	-	-	-	-
	<b>Mainland Tanzania</b>	<b>163,393</b>	<b>88,862</b>	<b>67,037</b>	<b>49,716</b>	<b>0.7</b>	-	-	-	-	-
	Kaskazini Unguja	169	15	14	19	1.4	-	-	-	-	-
	Kusini Unguja	-	-	-	-	-	-	-	-	-	-
	Mjini Magharibi	-	-	-	-	-	-	-	-	-	-
	Kaskazini Pemba	541	60	36	38	1.1	327.1	60.1	33.7	53.3	1.6
	Kusini Pemba	-	-	-	-	-	-	-	-	-	-
	<b>Zanzibar</b>	<b>710</b>	<b>75</b>	<b>49</b>	<b>57</b>	<b>1.2</b>	<b>327</b>	<b>60</b>	<b>34</b>	<b>53</b>	<b>1.6</b>
	<b>Tanzania</b>	<b>164,102</b>	<b>88,938</b>	<b>67,086</b>	<b>49,773</b>	<b>0.7</b>	<b>537</b>	<b>314</b>	<b>224</b>	<b>229</b>	<b>1.0</b>
Large Scale Farms	Mainland Tanzania	9	46	27	35	1.3	-	-	-	-	-
	Zanzibar	-	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	<b>10</b>	<b>62</b>	<b>43</b>	<b>36</b>	<b>0.8</b>	-	-	-	-	-
All Holdings	Mainland Tanzania	-	88,908	67,064	49,751	0.7	-	-	-	-	-
	Zanzibar	-	91	66	58	0.9	-	60	34	53	1.6
	<b>Tanzania</b>	-	<b>88,999</b>	<b>67,130</b>	<b>49,809</b>	<b>0.7</b>	-	<b>314</b>	<b>224</b>	<b>229</b>	<b>1.0</b>

“ - “ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Areas, Production, Yield by Crop During the 2022/23 Agricultural Year, Tanzania - Short Rainy Season**

Holdings Category	Region	Cassava					Sweet Potatoes				
		Number of holdings	Area Planted (Ha)	Area Harvested (Ha)	Production (Ton)	Yield (tons/ha)	Number of holdings	Area Planted (Ha)	Area Harvested (Ha)	Production (Ton)	Yield (tons/ha)
Agricultural Households	Dodoma	-	-	-	-	-	-	-	-	-	-
	Arusha	2,632	881	626	2,203	3.5	-	-	-	-	-
	Kilimanjaro	6,267	702	350	787	2.2	-	-	-	-	-
	Tanga	66,138	22,030	13,410	40,561	3	-	-	-	-	-
	Morogoro	42,608	8,263	3,659	10,154	2.8	6,877	2,736	1,412	2,433	1.7
	Pwani	97,431	34,636	19,569	86,818	4.4	-	-	-	-	-
	Dar es Salaam	40,196	17,374	15,691	26,760	1.7	7,569	922	921	2,855	3.1
	Lindi	-	-	-	-	-	-	-	-	-	-
	Mtwara	211,863	98,787	53,628	84,044	1.6	-	-	-	-	-
	Ruvuma	7,828	3,722	307	3,036	9.9	-	-	-	-	-
	Iringa	-	-	-	-	-	-	-	-	-	-
	Mbeya	3,334	1,046	899	9,068	10.1	-	-	-	-	-
	Singida	-	-	-	-	-	-	-	-	-	-
	Tabora	2,929	688	260	696	2.7	5,632	1,554	951	2,204	2.3
	Rukwa	4,530	1,425	173	1,640	9.5	-	-	-	-	-
	Kigoma	98,326	34,609	2,914	5,744	2	4,080	990	750	568	0.8
	Shinyanga	-	-	-	-	-	12,318	2,749	1,563	5,291	3.4
	Kagera	230,568	40,761	11,265	33,249	3	51,789	7,570	3,673	14,355	3.9
	Mwanza	147,105	42,237	18,345	52,050	2.8	52,177	9,827	7,461	24,042	3.2
	Mara	125,776	54,600	34,075	46,568	1.4	34,134	11,549	8,676	19,822	2.3
	Manyara	4,105	645	331	2,522	7.6	2,206	337	214	777	3.6
	Njombe	-	-	-	-	-	-	-	-	-	-
	Katavi	17,988	5,369	898	4,031	4.5	15,809	5,349	4,262	12,382	2.9
	Simiyu	6,913	2,467	1,254	2,015	1.6	105,979	28,760	26,785	81,038	3
	Geita	133,049	60,547	24,464	75,068	3.1	36,584	12,415	9,863	27,780	2.8
	Songwe	-	-	-	-	-	1,124	156	138	314	2.3
	<b>Mainland Tanzania</b>	<b>1,257,879</b>	<b>436,195</b>	<b>204,173</b>	<b>491,037</b>	<b>2.4</b>	<b>343,569</b>	<b>86,711</b>	<b>68,182</b>	<b>207,270</b>	<b>3</b>
	Kaskazini Unguja	15,017	3,159	2,251	6,825	3	3,119	444	379	1,527	4
	Kusini Unguja	19,096	2,995	2,657	6,844	2.6	1,933	246	231	1,572	6.8
	Mjini Magharibi	16,444	2,738	2,479	7,035	2.8	3,246	362	324	1,648	5.1
	Kaskazini Pemba	22,865	5,546	4,414	12,895	2.9	1,925	436	372	1,074	2.9
	Kusini Pemba	21,585	5,583	4,410	14,728	3.3	1,382	222	187	424	2.3
	<b>Zanzibar</b>	<b>95,007</b>	<b>20,021</b>	<b>16,210</b>	<b>48,327</b>	<b>3</b>	<b>11,606</b>	<b>1,710</b>	<b>1,493</b>	<b>6,245</b>	<b>4.2</b>
	<b>Tanzania</b>	<b>1,352,886</b>	<b>456,217</b>	<b>220,383</b>	<b>539,364</b>	<b>2.4</b>	<b>355,174</b>	<b>88,421</b>	<b>69,676</b>	<b>213,515</b>	<b>3.1</b>
Large Scale Farms	Mainland Tanzania	34	125	60	71	1.2	16	24	22	80	3.7
	Zanzibar	5	13	2	0	0	-	-	-	-	-
	<b>Tanzania</b>	<b>39</b>	<b>138</b>	<b>61</b>	<b>71</b>	<b>1.2</b>	<b>17</b>	<b>52</b>	<b>43</b>	<b>123</b>	<b>2.8</b>
All Holdings	Mainland Tanzania		436,320	204,232	491,107	2.4		86,735	68,204	207,350	3
	Zanzibar		20,034	16,212	48,328	3		1,738	1,515	6,287	4.2
	<b>Tanzania</b>		<b>456,354</b>	<b>220,444</b>	<b>539,435</b>	<b>2.4</b>		<b>88,473</b>	<b>69,719</b>	<b>213,637</b>	<b>3.1</b>

“ - “ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Areas, Production, Yield by Crop During the 2022/23 Agricultural Year, Tanzania - Long Rainy Season**

Holding Category	Region	Maize					Paddy				
		Number of holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)	Number of holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)
Agricultural Households	Dodoma	415,879	408,445	222,610	354,822	1.6	12,593	9,708	5,264	26,916	5.1
	Arusha	182,171	120,503	49,183	127,603	2.6	4,425	1,208	846	3,600	4.3
	Kilimanjaro	230,894	102,195	70,033	136,148	1.9	4,541	3,334	2,484	9,143	3.7
	Tanga	306,005	238,381	152,970	190,707	1.2	13,282	5,741	3,831	6,366	1.7
	Morogoro	187,164	116,490	62,373	78,835	1.3	128,900	130,094	75,298	153,524	2
	Pwani	99,975	64,501	38,557	48,388	1.3	46,283	30,347	16,202	20,577	1.3
	Dar es Salaam	63,288	103,688	62,040	61,542	1	11,197	23,739	22,115	28,213	1.3
	Lindi	201,718	96,501	35,768	46,341	1.3	65,355	32,162	14,257	16,550	1.2
	Mtwara	47,272	20,826	10,101	10,797	1.1	11,193	5,101	2,339	2,344	1
	Ruvuma	340,637	326,602	190,340	612,250	3.2	137,983	126,112	65,335	163,274	2.5
	Iringa	150,515	133,841	102,280	250,287	2.4	6,232	6,359	5,301	24,599	4.6
	Mbeya	230,626	182,731	137,131	274,102	2	101,716	124,331	103,865	269,925	2.6
	Singida	264,588	297,930	171,455	284,000	1.7	49,788	54,986	23,735	58,456	2.5
	Tabora	305,597	253,861	134,600	288,147	2.1	133,427	131,888	70,826	165,162	2.3
	Rukwa	211,093	224,135	171,491	393,795	2.3	43,885	49,781	42,363	134,867	3.2
	Kigoma	104,480	55,802	20,664	51,677	2.5	3,666	1,439	815	3,484	4.3
	Shinyanga	211,089	146,495	66,383	116,936	1.8	133,015	146,333	69,192	141,830	2
	Kagera	276,982	76,722	16,448	28,027	1.7	6,916	8,554	4,593	7,895	1.7
	Mwanza	74,829	35,137	22,418	34,929	1.6	57,901	30,588	20,303	60,854	3
	Mara	215,452	149,349	57,131	55,914	1	6,030	4,080	1,239	3,299	2.7
	Manyara	83,074	90,418	30,959	89,572	2.9	1,510	2,207	2,091	9,108	4.4
	Njombe	175,539	144,491	131,768	257,820	2	2,754	2,629	1,790	1,787	1
	Katavi	6,917	5,140	4,810	5,346	1.1	-	-	-	-	-
	Simiyu	27,234	22,457	14,058	9,226	0.7	4,637	4,692	3,800	2,575	0.7
	Geita	76,428	51,857	25,459	34,958	1.4	15,387	11,734	7,381	13,326	1.8
	Songwe	187,385	179,457	143,262	405,122	2.8	25,283	21,313	18,723	29,504	1.6
	<b>Mainland Tanzania</b>	<b>4,676,830</b>	<b>3,647,958</b>	<b>2,144,290</b>	<b>4,247,293</b>	<b>2</b>	<b>1,029,137</b>	<b>970,458</b>	<b>585,984</b>	<b>1,361,199</b>	<b>2.3</b>
	Kaskazini Unguja	3,426	450	341	293	0.9	2,226	644	525	409	0.8
	Kusini Unguja	3,020	359	240	259	1.1	1,785	449	445	811	1.8
	Mjini Magharibi	1,502	68	19	29	1.5	2,570	987	584	374	0.6
	Kaskazini Pemba	573	92	64	67	1	12,508	3,140	2,481	1,929	0.8
	Kusini Pemba	1,411	207	145	159	1.1	17,021	6,945	5,319	3,165	0.6
	<b>Zanzibar</b>	<b>9,932</b>	<b>1,176</b>	<b>809</b>	<b>809</b>	<b>1</b>	<b>36,109</b>	<b>12,164</b>	<b>9,352</b>	<b>6,688</b>	<b>0.7</b>
	<b>Tanzania</b>	<b>4,686,762</b>	<b>3,649,134</b>	<b>2,145,100</b>	<b>4,248,102</b>	<b>2</b>	<b>1,065,246</b>	<b>982,622</b>	<b>595,336</b>	<b>1,367,887</b>	<b>2.3</b>
Large Scale Farms	Mainland	424	15,493	12,648	31,708	2.5	113	8,421	7,946	30,062	3.8
	Zanzibar	3	6	5	2	0.4	6	69	64	22	0.4
	<b>Tanzania</b>	<b>427</b>	<b>15,499</b>	<b>12,652</b>	<b>31,710</b>	<b>2.5</b>	<b>119</b>	<b>8,490</b>	<b>8,010</b>	<b>30,084</b>	<b>3.8</b>
All Holdings	Mainland Tanzania		3,663,452	2,156,938	4,279,002	2		978,879	593,930	1,391,261	2.3
	Zanzibar		1,182	814	811	1		12,233	9,416	6,710	0.7
	<b>Tanzania</b>		<b>3,664,633</b>	<b>2,157,752</b>	<b>4,279,813</b>	<b>2</b>		<b>991,112</b>	<b>603,346</b>	<b>1,397,971</b>	<b>2.3</b>

“ - “ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Areas, Production, Yield by Crop During the 2022/23 Agricultural Year, Tanzania - Long Rainy Season**

Holding Category	Region	Water Mellon					Bulrush Millet				
		Number of holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)	Number of holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)
Agricultural Households	Dodoma	165,742	209,964	101,780	77,076	0.8	35,214	28,650	11,560	7,496	0.6
	Arusha	1,824	363	301	439	1.5	-	-	-	-	-
	Kilimanjaro	3,477	1,035	358	243	0.7	-	-	-	-	-
	Tanga	-	-	-	-	-	-	-	-	-	-
	Morogoro	6,132	1,897	970	743	0.8	-	-	-	-	-
	Pwani	-	-	-	-	-	-	-	-	-	-
	Dar es Salaam	-	-	-	-	-	-	-	-	-	-
	Lindi	66,542	33,187	10,028	11,678	1.2	-	-	-	-	-
	Mtwara	5,731	794	318	259	0.8	-	-	-	-	-
	Ruvuma	5,909	27,260	16,236	29,781	1.8	-	-	-	-	-
	Iringa	4,933	3,506	2,312	2,315	1	-	-	-	-	-
	Mbeya	4,997	6,653	6,048	5,651	0.9	-	-	-	-	-
	Singida	126,335	78,227	36,586	47,580	1.3	40,312	22,532	13,053	12,833	1
	Tabora	9,451	6,248	2,659	3,472	1.3	-	-	-	-	-
	Rukwa	7,064	3,951	3,404	5,229	1.5	-	-	-	-	-
	Kigoma	-	-	-	-	-	-	-	-	-	-
	Shinyanga	27,110	22,343	10,843	11,015	1	3,230	4,291	1,364	1,463	1.1
	Kagera	11,712	3,571	910	1,229	1.4	-	-	-	-	-
	Mwanza	7,954	4,994	3,148	1,813	0.6	1,964	2,035	1,141	840	0.7
	Mara	20,156	9,284	3,137	2,808	0.9	-	-	-	-	-
	Manyara	2,877	1,620	356	360	1	-	-	-	-	-
	Njombe	-	-	-	-	-	-	-	-	-	-
	Katavi	-	-	-	-	-	-	-	-	-	-
	Simiyu	3,497	685	612	295	0.5	-	-	-	-	-
	Geita	8,175	5,153	3,819	3,479	0.9	-	-	-	-	-
	Songwe	37,393	40,927	31,794	34,260	1.1	-	-	-	-	-
	<b>Mainland Tanzania</b>	<b>531,131</b>	<b>463,613</b>	<b>236,918</b>	<b>241,430</b>	<b>1</b>	<b>81,831</b>	<b>58,780</b>	<b>28,144</b>	<b>23,443</b>	<b>0.8</b>
	Kaskazini Unguja	494	134	59	39	0.7	-	-	-	-	-
	Kusini Unguja	-	-	-	-	-	-	-	-	-	-
	Mjini Magharibi	-	-	-	-	-	-	-	-	-	-
	Kaskazini Pemba	1,012	114	78	77	1	405	57	20	32	1.6
	Kusini Pemba	-	-	-	-	-	-	-	-	-	-
	<b>Zanzibar</b>	1,505	248	137	116	0.8	405	57	20	32	1.6
	<b>Tanzania</b>	532,637	463,861	237,055	241,546	1	82,236	58,837	28,164	23,475	0.8
Large Scale Farms	Mainland Tanzania	103	1,246	861	802	0.9	-	-	-	-	-
	Zanzibar	-	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	103	1,246	861	802	0.9	-	-	-	-	-
All Holdings	Mainland Tanzania			237,779	242,232	1		58,780	28,144	23,443	0.8
	Zanzibar			137	116	0.8		57	20	32	1.6
	<b>Tanzania</b>			237,916	242,348	1		58,837	28,164	23,475	0.8

“ - “ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Areas, Production, Yield by Crop During the 2022/23 Agricultural Year, Tanzania - Long Rainy Season**

Holding Category	Region	Cassava					Sweet Potatoes				
		Number of holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)	Number of holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)
Agricultural Households	Dodoma	6,284	2,045	1,469	5,137	3.5	-	-	-	-	-
	Arusha	2,144	682	24	164	6.8	815	224	152	907	6
	Kilimanjaro	3,605	229	75	340	4.5	-	-	-	-	-
	Tanga	68,502	24,161	3,208	8,728	2.7	4,391	1,623	1,198	3,390	2.8
	Morogoro	30,082	7,193	2,136	10,952	5.1	4,806	1,900	1,114	996	0.9
	Pwani	36,377	12,729	5,241	9,816	1.9	15,657	3,585	2,269	5,114	2.3
	Dar es Salaam	21,272	3,531	1,700	2,367	1.4	4,663	591	563	1,236	2.2
	Lindi	34,584	11,420	6,227	8,876	1.4	-	-	-	-	-
	Mtwara	60,751	33,915	15,790	17,091	1.1	-	-	-	-	-
	Ruvuma	86,640	45,218	3,346	14,423	4.3	11,719	5,997	4,699	12,051	2.6
	Iringa	-	-	-	-	-	-	-	-	-	-
	Mbeya	8,081	2,722	1,619	3,559	2.2	4,979	3,976	3,818	7,453	2
	Singida	14,680	8,136	1,449	2,792	1.9	32,328	10,399	6,657	30,308	4.6
	Tabora	29,480	16,147	2,612	4,001	1.5	33,441	13,682	10,478	39,142	3.7
	Rukwa	13,354	3,846	412	1,919	4.7	12,646	1,973	1,864	4,643	2.5
	Kigoma	61,919	27,715	3,533	11,332	3.2	4,789	1,641	501	642	1.3
	Shinyanga	9,830	3,252	485	469	1	70,958	18,518	11,818	32,729	2.8
	Kagera	159,405	32,730	2,591	10,279	4	32,535	4,142	2,620	4,436	1.7
	Mwanza	29,493	12,648	3,436	8,252	2.4	38,626	12,281	8,757	19,156	2.2
	Mara	83,320	39,225	9,247	7,293	0.8	26,291	8,020	4,177	4,330	1
	Manyara	-	-	-	-	-	-	-	-	-	-
	Njombe	10,589	4,604	1,919	2,245	1.2	-	-	-	-	-
	Katavi	-	-	-	-	-	1,555	934	895	1,453	1.6
	Simiyu	-	-	-	-	-	11,098	2,891	1,931	3,838	2
	Geita	14,179	8,248	1,632	3,018	1.8	35,155	14,093	10,841	22,580	2.1
	Songwe	2,094	394	192	816	4.3	2,320	1,421	1,363	4,543	3.3
	<b>Mainland Tanzania</b>	<b>788,920</b>	<b>301,972</b>	<b>69,484</b>	<b>138,426</b>	<b>2</b>	<b>355,096</b>	<b>109,624</b>	<b>76,318</b>	<b>200,172</b>	<b>2.6</b>
	Kaskazini Unguja	16,124	3,899	823	1,801	2.2	7,702	1,479	734	2,635	3.6
	Kusini Unguja	19,947	3,165	1,271	4,116	3.2	2,360	280	211	809	3.8
	Mjini Magharibi	17,327	2,664	1,819	2,696	1.5	4,579	1,143	903	2,067	2.3
	Kaskazini Pemba	25,253	5,490	1,548	3,821	2.5	8,530	1,492	1,302	3,897	3
	Kusini Pemba	22,803	6,068	2,801	6,225	2.2	964	111	44	126	2.8
	<b>Zanzibar</b>	<b>101,454</b>	<b>21,285</b>	<b>8,261</b>	<b>18,657</b>	<b>2.3</b>	<b>24,136</b>	<b>4,506</b>	<b>3,195</b>	<b>9,534</b>	<b>3</b>
	<b>Tanzania</b>	<b>890,374</b>	<b>323,257</b>	<b>77,745</b>	<b>157,083</b>	<b>2</b>	<b>379,231</b>	<b>114,130</b>	<b>79,514</b>	<b>209,706</b>	<b>2.6</b>
Large Scale Farms	Mainland Tanzania	45	172	90	168	1.9	82	111	79	265	3.4
	Zanzibar	5	12	2	3	1.4	4	54	40	133	3.3
	<b>Tanzania</b>	<b>50</b>	<b>184</b>	<b>91</b>	<b>171</b>	<b>1.9</b>	<b>86</b>	<b>165</b>	<b>119</b>	<b>399</b>	<b>3.3</b>
All Holdings	Mainland Tanzania		302,144	69,574	138,594	2		109,735	76,397	200,437	2.6
	Zanzibar		21,297	8,263	18,660	2.3		4,560	3,236	9,667	3
	<b>Tanzania</b>		<b>323,441</b>	<b>77,837</b>	<b>157,254</b>	<b>2</b>		<b>114,295</b>	<b>79,633</b>	<b>210,105</b>	<b>2.6</b>

“ - “ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Areas, Production, Yield by Crop During the 2022/23 Agricultural Year, Tanzania – Agricultural Year**

Holding Category	Region	Maize					Paddy				
		Number of holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)	Number of holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)
Agricultural Households	Dodoma	416,820	411,879	223,661	355,989	1.6	12,593	9,708	5,264	26,916	5.1
	Arusha	257,665	191,181	91,424	209,272	2.3	5,479	2,380	1,656	8,307	5
	Kilimanjaro	276,836	159,669	102,552	201,256	2	13,796	14,149	10,326	39,244	3.8
	Tanga	412,841	435,076	232,938	293,880	1.3	18,591	11,329	7,159	11,748	1.6
	Morogoro	407,876	373,408	200,410	238,219	1.2	320,134	380,877	231,659	425,709	1.8
	Pwani	157,542	130,074	73,033	85,702	1.2	69,788	43,901	21,625	24,292	1.1
	Dar es Salaam	117,146	199,706	135,338	146,623	1.1	20,672	48,139	38,684	52,794	1.4
	Lindi	201,718	96,501	35,768	46,341	1.3	65,355	32,162	14,257	16,550	1.2
	Mtwara	252,656	134,632	94,986	82,763	0.9	43,708	34,571	21,994	15,595	0.7
	Ruvuma	340,637	327,135	190,659	614,150	3.2	137,983	126,528	65,647	165,100	2.5
	Iringa	225,035	201,198	155,971	338,463	2.2	6,232	6,359	5,301	24,599	4.6
	Mbeya	308,832	251,546	195,406	387,599	2	118,988	150,674	127,709	345,240	2.7
	Singida	264,588	297,930	171,455	284,000	1.7	49,788	54,986	23,735	58,456	2.5
	Tabora	418,584	332,717	177,957	378,322	2.1	180,737	165,065	89,052	208,292	2.3
	Rukwa	220,072	231,366	175,157	403,373	2.3	43,885	49,781	42,363	134,867	3.2
	Kigoma	292,924	164,472	92,496	173,504	1.9	18,825	10,472	7,090	22,043	3.1
	Shinyanga	251,304	186,373	85,248	156,033	1.8	138,561	153,094	72,963	151,470	2.1
	Kagera	519,340	223,616	104,052	194,094	1.9	22,543	25,516	11,276	24,997	2.2
	Mwanza	349,522	205,892	122,187	196,522	1.6	182,928	116,854	76,423	191,540	2.5
	Mara	266,577	300,360	169,187	197,702	1.2	9,448	7,609	3,127	4,571	1.5
	Manyara	291,294	333,146	156,158	456,660	2.9	2,390	4,537	3,926	17,563	4.5
	Njombe	178,637	161,356	145,945	275,471	1.9	2,754	2,629	1,790	1,787	1
	Katavi	141,782	130,086	99,056	186,697	1.9	50,537	65,248	53,879	182,301	3.4
	Simiyu	247,116	295,581	269,925	292,841	1.1	100,734	58,361	53,089	90,762	1.7
	Geita	352,784	271,737	161,603	249,072	1.5	108,449	81,572	62,302	121,242	1.9
	Songwe	221,417	218,780	175,657	491,561	2.8	26,099	26,439	23,767	37,798	1.6
	<b>Mainland Tanzania</b>	<b>7,391,546</b>	<b>6,265,418</b>	<b>3,838,229</b>	<b>6,936,109</b>	<b>1.8</b>	<b>1,770,996</b>	<b>1,682,941</b>	<b>1,076,063</b>	<b>2,403,783</b>	<b>2.2</b>
	Kaskazini Unguja	5,029	889	661	469	0.7	6,530	2,401	1,968	1,574	0.8
	Kusini Unguja	3,142	504	385	438	1.1	3,073	1,370	1,366	2,060	1.5
	Mjini Magharibi	2,079	253	101	206	2	3,241	1,473	813	542	0.7
	Kaskazini Pemba	724	131	96	131	1.4	12,843	3,340	2,632	2,018	0.8
	Kusini Pemba	1,743	329	249	201	0.8	17,021	7,086	5,441	3,257	0.6
	<b>Zanzibar</b>	<b>12,716</b>	<b>2,105</b>	<b>1,493</b>	<b>1,444</b>	<b>1</b>	<b>42,708</b>	<b>15,670</b>	<b>12,220</b>	<b>9,451</b>	<b>0.8</b>
	<b>Tanzania</b>	<b>7,404,262</b>	<b>6,267,523</b>	<b>3,839,722</b>	<b>6,937,553</b>	<b>1.8</b>	<b>1,813,705</b>	<b>1,698,612</b>	<b>1,088,283</b>	<b>2,413,234</b>	<b>2.2</b>
Large Scale Farms	Mainland	490	19,020	15,252	34,750	2.3	145	12,348	11,572	30,878	2.7
	Zanzibar	4	11	6	3	0.5	6	96	91	34	0.4
	<b>Tanzania</b>	<b>494</b>	<b>19,031</b>	<b>15,258</b>	<b>34,753</b>	<b>2.3</b>	<b>151</b>	<b>12,444</b>	<b>11,663</b>	<b>30,913</b>	<b>2.7</b>
All Holdings	Mainland Tanzania		6,284,438	3,853,480	6,970,859	1.8		1,695,289	1,087,635	2,434,662	2.2
	Zanzibar		2,116	1,499	1,447	1		15,767	12,311	9,486	0.8
	<b>Tanzania</b>		<b>6,286,554</b>	<b>3,854,979</b>	<b>6,972,306</b>	<b>1.8</b>		<b>1,711,056</b>	<b>1,099,946</b>	<b>2,444,147</b>	<b>2.2</b>



**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Areas, Production, Yield by Crop During the 2022/23 Agricultural Year, Tanzania – Agricultural Year**

Holdings Category	Region	Sorghum					Bulrush Millet				
		Number of households	Area Planted (Ha)	Area Harvested (Ha)	Production (Ton)	Yield (tons/ha)	Number of households	Area Planted (Ha)	Area Harvested (Ha)	Production (Ton)	Yield (tons/ha)
Agricultural Households	Dodoma	168,564	213,533	103,873	77,705	0.7	35,214	28,650	11,560	7,496	0.6
	Arusha	3,973	1,394	1,242	914	0.7	-	-	-	-	-
	Kilimanjaro	5,163	2,222	911	548	0.6	-	-	-	-	-
	Tanga	-	-	-	-	-	-	-	-	-	-
	Morogoro	19,876	15,983	12,768	8,751	0.7	-	-	-	-	-
	Pwani	4,151	3,390	878	488	0.6	-	-	-	-	-
	Dar es Salaam	-	-	-	-	-	-	-	-	-	-
	Lindi	66,542	33,187	10,028	11,678	1.2	-	-	-	-	-
	Mtwara	28,559	6,737	4,397	1,915	0.4	-	-	-	-	-
	Ruvuma	5,909	27,260	16,236	29,781	1.8	-	-	-	-	-
	Iringa	4,933	3,506	2,312	2,315	1	-	-	-	-	-
	Mbeya	4,997	6,653	6,048	5,651	0.9	-	-	-	-	-
	Singida	126,335	78,227	36,586	47,580	1.3	40,312	22,532	13,053	12,833	1
	Tabora	12,816	8,698	3,678	5,087	1.4	-	-	-	-	-
	Rukwa	7,064	3,951	3,404	5,229	1.5	-	-	-	-	-
	Kigoma	6,017	1,600	1,036	1,097	1.1	-	-	-	-	-
	Shinyanga	29,156	25,465	12,618	12,939	1	3,230	4,291	1,364	1,463	1.1
	Kagera	18,705	5,267	1,424	1,738	1.2	-	-	-	-	-
	Mwanza	18,213	11,088	6,840	4,997	0.7	1,964	2,035	1,141	840	0.7
	Mara	42,597	24,433	16,245	12,139	0.7	-	-	-	-	-
	Manyara	14,199	8,669	4,501	6,087	1.4	-	-	-	-	-
	Njombe	-	-	-	-	-	-	-	-	-	-
	Katavi	-	-	-	-	-	-	-	-	-	-
	Simiyu	29,916	22,261	21,021	14,369	0.7	-	-	-	-	-
	Geita	11,403	6,381	4,726	4,219	0.9	-	-	-	-	-
	Songwe	37,829	41,842	32,622	34,799	1.1	-	-	-	-	-
	<b>Mainland Tanzania</b>	<b>668,716</b>	<b>552,476</b>	<b>303,955</b>	<b>291,146</b>	<b>1</b>	<b>82,041</b>	<b>59,034</b>	<b>28,335</b>	<b>23,619</b>	<b>0.8</b>
	Kaskazini Unguja	606	149	72	59	0.8	-	-	-	-	-
	Kusini Unguja	-	-	-	-	-	-	-	-	-	-
	Mjini Magharibi	-	-	-	-	-	-	-	-	-	-
	Kaskazini Pemba	1,425	174	114	115	1	548	117	54	86	1.6
	Kusini Pemba	-	-	-	-	-	-	-	-	-	-
	<b>Zanzibar</b>	<b>2,031</b>	<b>323</b>	<b>186</b>	<b>173</b>	<b>0.9</b>	<b>548</b>	<b>117</b>	<b>54</b>	<b>86</b>	<b>1.6</b>
	<b>Tanzania</b>	<b>670,746</b>	<b>552,799</b>	<b>304,141</b>	<b>291,319</b>	<b>1</b>	<b>82,589</b>	<b>59,151</b>	<b>28,389</b>	<b>23,705</b>	<b>0.8</b>
Large scale Farms	Mainland Tanzania	108	1,292	888	837	0.9	-	-	-	-	-
	Zanzibar	-	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	<b>109</b>	<b>1,308</b>	<b>905</b>	<b>838</b>	<b>0.9</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
All Holdings	Mainland Tanzania	-	553,768	304,843	291,983	1	-	59,034	28,335	23,619	0.8
	Zanzibar	-	339	203	174	0.9	-	117	54	86	1.6
	<b>Tanzania</b>	-	<b>554,107</b>	<b>305,046</b>	<b>292,157</b>	<b>1</b>	-	<b>59,151</b>	<b>28,389</b>	<b>23,705</b>	<b>0.8</b>

“ - “ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Areas, Production, Yield by Crop During the 2022/23 Agricultural Year, Tanzania – Agricultural Year**

Holdings Category	Region	Cassava					Sweet Potato				
		Number of households	Area Planted (Ha)	Area Harvested (Ha)	Production (Ton)	Yield (tons/ha)	Number of households	Area Planted (Ha)	Area Harvested (Ha)	Production (Ton)	Yield (tons/ha)
Agricultural Households	Dodoma	6,284	2,611	2,035	6,702	3.3	-	-	-	-	-
	Arusha	4,217	1,563	650	2,367	3.6	1,558	415	227	1,149	5.1
	Kilimanjaro	8,027	931	425	1,126	2.7	1,598	213	55	67	1.2
	Tanga	107,095	46,191	16,618	49,290	3.0	4,391	1,623	1,198	3,390	2.8
	Morogoro	60,115	15,456	5,795	21,106	3.6	11,683	4,637	2,525	3,429	1.4
	Pwani	106,393	47,365	24,811	96,634	3.9	18,317	3,764	2,438	5,617	2.3
	Dar es Salaam	46,789	20,905	17,391	29,127	1.7	8,120	1,512	1,484	4,092	2.8
	Lindi	35858	12999	6871	9487	1.4	-	-	-	-	-
	Mtwara	221,422	132,702	69,419	101,135	1.5	4,349	1,581	1,003	1,291	1.3
	Ruvuma	86640	48940	3654	17459	4.8	11,719	5,997	4,699	12,051	2.6
	Iringa	-	-	-	-	-	-	-	-	-	-
	Mbeya	10,999	3,768	2,518	12,626	5.0	5,870	4,731	4,573	19,638	4.3
	Singida	14680	11132	2230	4383	2.0	32,328	10,399	6,657	30,308	4.6
	Tabora	32,409	16,835	2,872	4,697	1.6	38,647	15,236	11,429	41,346	3.6
	Rukwa	17,884	5,271	585	3,559	6.1	12,646	1,973	1,864	4,643	2.5
	Kigoma	153,981	62,324	6,446	17,076	2.6	7,685	2,630	1,251	1,210	1
	Shinyanga	11,417	3,478	510	665	1.3	82,660	21,266	13,381	38,020	2.8
	Kagera	251,650	73,490	13,856	43,528	3.1	69,248	11,712	6,293	18,791	3
	Mwanza	165,485	54,885	21,781	60,302	2.8	83,583	22,108	16,218	43,198	2.7
	Mara	156,328	93,826	43,322	53,862	1.2	47,617	19,569	12,853	24,152	1.9
	Manyara	4,615	666	331	2,522	7.6	2,206	337	214	777	3.6
	Njombe	10,589	4,604	1,919	2,245	1.2	-	-	-	-	-
	Katavi	17,988	5,564	1,073	5,572	5.2	17,364	6,283	5,157	13,834	2.7
	Simiyu	8,106	3,432	2,219	5,034	2.3	112,788	31,651	28,717	84,876	3
	Geita	136,845	68,794	26,096	78,086	3.0	67,559	26,508	20,704	50,360	2.4
	Songwe	2,094	394	192	816	4.3	3,444	1,576	1,500	4,857	3.2
	<b>Mainland Tanzania</b>	<b>1,678,148</b>	<b>738,167</b>	<b>273,657</b>	<b>629,463</b>	<b>2.3</b>	<b>647,103</b>	<b>196,336</b>	<b>144,501</b>	<b>407,442</b>	<b>2.8</b>
	Kaskazini Unguja	19,625	7058	3073	8626	2.8	8,494	1,923	1,113	4,162	3.7
	Kusini Unguja	20,989	6160	3927	10960	2.8	3,264	525	443	2,381	5.4
	Mjini Magharibi	20,301	5402	4298	9730	2.3	6,054	1,505	1,227	3,715	3
	Kaskazini Pemba	26578	11036	5962	16716	2.80	9,270	1,928	1,674	4,971	3
	Kusini Pemba	23461	11651	7210	20953	2.9	2,059	334	231	550	2.4
	<b>Zanzibar</b>	<b>110,955</b>	<b>41307</b>	<b>24471</b>	<b>66985</b>	<b>2.7</b>	<b>29,142</b>	<b>6,215</b>	<b>4,689</b>	<b>15,778</b>	<b>3.4</b>
	<b>Tanzania</b>	<b>1,789,102</b>	<b>779,474</b>	<b>298,128</b>	<b>696,447</b>	<b>2.3</b>	<b>676,244</b>	<b>202,551</b>	<b>149,189</b>	<b>423,221</b>	<b>2.8</b>
Large scale Farms	Mainland Tanzania	67	297	149	239	1.6	96	135	101	346	3.4
	Zanzibar	6	25	4	3	0.8	4	83	62	176	2.9
	<b>Tanzania</b>	<b>73</b>	<b>322</b>	<b>153</b>	<b>242</b>	<b>1.6</b>	<b>100</b>	<b>217</b>	<b>162</b>	<b>521</b>	<b>3.2</b>
All Holdings	Mainland Tanzania		738,464	273,806	629,702	2.3		196,470	144,601	407,788	2.8
	Zanzibar		41332	24475	66988	2.7		6,298	4,750	15,954	3.4
	<b>Tanzania</b>		<b>779,796</b>	<b>298,281</b>	<b>696,689</b>	<b>2.3</b>		<b>202,769</b>	<b>149,352</b>	<b>423,742</b>	<b>2.8</b>

“ - “ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Area, Production and Yield by Crop and Region During 2022/23 Agricultural Year, Tanzania - Short Rainy Season**

Holding Category	Region	Irish Potatoes					Cocoyams				
		Number of Holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield on Area harvested (tons/ha)	Number of Holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield on Area harvested (tons/ha)
Agricultural Households	Dodoma	-	-	-	-	-	-	-	-	-	-
	Arusha	2,424	1,406	828	2,418	2.9	-	-	-	-	-
	Kilimanjaro	8,259	3,938	2,529	7,081	2.8	36,527	2,620	2,042	1,294	0.6
	Tanga	46,444	17,296	6,614	24,098	3.6	4,496	665	341	2,143	6.3
	Morogoro	-	-	-	-	-	-	-	-	-	-
	Pwani	-	-	-	-	-	-	-	-	-	-
	Dar es Salaam	-	-	-	-	-	-	-	-	-	-
	Lindi	-	-	-	-	-	-	-	-	-	-
	Mtwara	-	-	-	-	-	-	-	-	-	-
	Ruvuma	-	-	-	-	-	-	-	-	-	-
	Iringa	7,199	5,048	4,525	16,589	3.7	-	-	-	-	-
	Mbeya	7,792	3,934	3,818	23,208	6.1	4,657	609	254	388	1.5
	Singida	-	-	-	-	-	-	-	-	-	-
	Tabora	-	-	-	-	-	-	-	-	-	-
	Rukwa	-	-	-	-	-	-	-	-	-	-
	Kigoma	-	-	-	-	-	-	-	-	-	-
	Shinyanga	-	-	-	-	-	-	-	-	-	-
	Kagera	13,768	2,037	1,221	7,226	5.9	140,709	12,400	4,697	18,554	3.9
	Mwanza	-	-	-	-	-	-	-	-	-	-
	Mara	2,398	1,860	1,537	3,308	2.2	-	-	-	-	-
	Manyara	3,642	809	520	1,968	3.8	-	-	-	-	-
	Njombe	16,965	18,947	18,282	38,556	2.1	-	-	-	-	-
	Katavi	-	-	-	-	-	-	-	-	-	-
	Simiyu	-	-	-	-	-	-	-	-	-	-
	Geita	-	-	-	-	-	-	-	-	-	-
	Songwe	-	-	-	-	-	-	-	-	-	-
	<b>Mainland Tanzania</b>	<b>111,186</b>	<b>55,989</b>	<b>40,436</b>	<b>126,025</b>	<b>3.1</b>	<b>191,420</b>	<b>16,471</b>	<b>7,433</b>	<b>22,725</b>	<b>3.1</b>
	Kaskazini Unguja	-	-	-	-	-	1,596	91	26	31	1.2
	Kusini Unguja	-	-	-	-	-	2,144	146	27	115	4.2
	Mjini Magharibi	-	-	-	-	-	2,056	322	99	61	0.6
	Kaskazini Pemba	-	-	-	-	-	-	-	-	-	-
	Kusini Pemba	-	-	-	-	-	-	-	-	-	-
	<b>Zanzibar</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>6,148</b>	<b>566</b>	<b>152</b>	<b>207</b>	<b>1.4</b>
	<b>Tanzania</b>	<b>111,186</b>	<b>55,989</b>	<b>40,436</b>	<b>126,025</b>	<b>3.1</b>	<b>197,568</b>	<b>17,038</b>	<b>7,586</b>	<b>22,932</b>	<b>3.0</b>
Large Scale Farms	Mainland	-	-	-	-	-	-	-	-	-	-
	Zanzibar	-	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
All Holdings	Mainland		56,000	40,447	126,055	3.1		16,472	7,433	22,725	3.1
	Zanzibar		-	-	-	-		566	152	207	1.4
	<b>Tanzania</b>		<b>56,000</b>	<b>40,447</b>	<b>126,055</b>	<b>3.1</b>		<b>17,038</b>	<b>7,586</b>	<b>22,932</b>	<b>3.0</b>

- Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Area, Production and Yield by Crop and Region During 2022/23 Agricultural Year, Tanzania - Short Rainy Season**

Holding Category	Region	Onions					Ginger				
		Number of Holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield on Area harvested (tons/ha)	Number of Holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield on Area harvested (tons/ha)
Agricultural Households	Dodoma	-	-	-	-	-	-	-	-	-	-
	Arusha	-	-	-	-	-	-	-	-	-	-
	Kilimanjaro	-	-	-	-	-	-	-	-	-	-
	Tanga	-	-	-	-	-	-	-	-	-	-
	Morogoro	-	-	-	-	-	-	-	-	-	-
	Pwani	-	-	-	-	-	-	-	-	-	-
	Dar es Salaam	-	-	-	-	-	-	-	-	-	-
	Lindi	-	-	-	-	-	-	-	-	-	-
	Mtwara	-	-	-	-	-	-	-	-	-	-
	Ruvuma	-	-	-	-	-	-	-	-	-	-
	Iringa	-	-	-	-	-	-	-	-	-	-
	Mbeya	-	-	-	-	-	-	-	-	-	-
	Singida	-	-	-	-	-	-	-	-	-	-
	Tabora	-	-	-	-	-	-	-	-	-	-
	Rukwa	-	-	-	-	-	-	-	-	-	-
	Kigoma	3,969	937	937	926	1.0	-	-	-	-	-
	Shinyanga	-	-	-	-	-	-	-	-	-	-
	Kagera	-	-	-	-	-	-	-	-	-	-
	Mwanza	-	-	-	-	-	-	-	-	-	-
	Mara	-	-	-	-	-	-	-	-	-	-
	Manyara	-	-	-	-	-	-	-	-	-	-
	Njombe	-	-	-	-	-	-	-	-	-	-
	Katavi	-	-	-	-	-	-	-	-	-	-
	Simiyu	-	-	-	-	-	-	-	-	-	-
	Geita	-	-	-	-	-	-	-	-	-	-
	Songwe	-	-	-	-	-	-	-	-	-	-
	<b>Mainland Tanzania</b>	<b>11,675</b>	<b>2,880</b>	<b>2,263</b>	<b>5,920</b>	<b>2.6</b>	-	-	-	-	-
	Kaskazini Unguja	-	-	-	-	-	-	-	-	-	-
	Kusini Unguja	-	-	-	-	-	-	-	-	-	-
	Mjini Magharibi	-	-	-	-	-	-	-	-	-	-
	Kaskazini Pemba	-	-	-	-	-	-	-	-	-	-
	Kusini Pemba	-	-	-	-	-	-	-	-	-	-
	<b>Zanzibar</b>	-	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	<b>11,927</b>	<b>2,896</b>	<b>2,263</b>	<b>5,920</b>	<b>2.6</b>	-	-	-	-	-
Large Scale Farms	Mainland Tanzania	3	18	7	15	2.2	-	-	-	-	-
	Zanzibar	-	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	<b>3</b>	<b>18</b>	<b>7</b>	<b>15</b>	<b>2.2</b>	-	-	-	-	-
All Holdings	Mainland Tanzania	-	2,898	2,270	5,935	2.6	-	-	-	-	-
	Zanzibar	-	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	-	<b>2,914</b>	<b>2,270</b>	<b>5,935</b>	<b>2.6</b>	-	-	-	-	-

“-“ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Area, Production and Yield by Crop and Region During 2022/23 Agricultural Year, Tanzania - Short Rainy Season**

Holding Category	Region	Beans				
		Number of Holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield on Area harvested (tons/ha)
Agricultural Households	Dodoma	1,876	605	556	190	0.3
	Arusha	62,321	34,452	16,415	15,030	0.9
	Kilimanjaro	72,730	16,695	9,532	6,385	0.7
	Tanga	81,339	19,027	5,785	5,070	0.9
	Morogoro	20,871	8,294	3,701	32,903	8.9
	Pwani	-	-	-	-	-
	Dar es Salaam	20,520	18,796	9,263	8,981	1.0
	Lindi	-	-	-	-	-
	Mtwara	-	-	-	-	-
	Ruvuma	-	-	-	-	-
	Iringa	37,375	11,178	8,518	6,133	0.7
	Mbeya	30,955	18,772	16,523	7,889	0.5
	Singida	-	-	-	-	-
	Tabora	8,969	1,430	829	389	0.5
	Rukwa	-	-	-	-	-
	Kigoma	138,978	35,392	20,765	24,257	1.2
	Shinyanga	17,938	11,045	7,126	1,580	0.2
	Kagera	463,725	99,830	53,354	79,551	1.5
	Mwanza	78,833	17,277	9,437	7,041	0.7
	Mara	42,439	12,117	8,190	5,097	0.6
	Manyara	95,865	48,300	28,621	27,459	1.0
	Njombe	5,665	2,845	2,554	861	0.3
	Katavi	33,362	14,130	10,991	7,974	0.7
	Simiyu	38,289	9,787	9,166	3,152	0.3
	Geita	140,968	34,849	18,269	19,914	1.1
	Songwe	30,453	9,039	7,754	5,381	0.7
	Mainland Tanzania	1,428,216	425,571	247,961	266,962	1.1
	Kaskazini Unguja	-	-	-	-	-
	Kusini Unguja	-	-	-	-	-
	Mjini Magharibi	-	-	-	-	-
	Kaskazini Pemba	-	-	-	-	-
	Kusini Pemba	-	-	-	-	-
	Zanzibar	-	-	-	-	-
	Tanzania	1,428,216	425,571	247,961	266,962	1.1
Large Scale Farms	Mainland Tanzania	42	821	751	1,157	1.5
	Zanzibar	-	-	-	-	-
	Tanzania	42	821	751	1,157	1.5
All Holdings	Mainland		426,392	248,713	268,119	1.3
	Zanzibar		-	-	-	-
	Tanzania		426,392	248,713	268,119	1.3

“-“ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Area, Production and Yield by Crop and Region During 2022/23 Agricultural Year, Tanzania – Long Rain Season**

Holding Category	Region	Irish potatoes					Cocoyams				
		Number of Holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield on Area harvested (tons/ha)	Number of Holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield on Area harvested (tons/ha)
Agricultural Households	Dodoma	3,459	1,475	1,073	2,921	2.7	-	-	-	-	-
	Arusha	10,580	4,783	3,718	17,198	4.6	-	-	-	-	-
	Kilimanjaro	5,915	3,893	2,283	5,059	2.2	38,872	2,606	1,281	663	0.5
	Tanga	41,532	17,610	8,545	22,028	2.6	4,180	601	-	-	-
	Morogoro	-	-	-	-	-	-	-	-	-	-
	Pwani	-	-	-	-	-	-	-	-	-	-
	Dar es Salaam	-	-	-	-	-	-	-	-	-	-
	Lindi	-	-	-	-	-	-	-	-	-	-
	Mtwara	-	-	-	-	-	-	-	-	-	-
	Ruvuma	-	-	-	-	-	-	-	-	-	-
	Iringa	20,447	5,164	3,903	23,180	5.9	-	-	-	-	-
	Mbeya	31,665	20,707	16,834	104,760	6.2	6,171	1,636	949	699	0.7
	Singida	-	-	-	-	-	-	-	-	-	-
	Tabora	-	-	-	-	-	-	-	-	-	-
	Rukwa	-	-	-	-	-	-	-	-	-	-
	Kigoma	-	-	-	-	-	-	-	-	-	-
	Shinyanga	-	-	-	-	-	-	-	-	-	-
	Kagera	14,971	3,399	1,606	9,353	5.8	90,099	6,570	254	1,052	4.1
	Mwanza	-	-	-	-	-	-	-	-	-	-
	Mara	-	-	-	-	-	-	-	-	-	-
	Manyara	2,786	656	565	3,761	6.7	-	-	-	-	-
	Njombe	48,517	35,370	26,915	204,074	7.6	-	-	-	-	-
	Katavi	-	-	-	-	-	-	-	-	-	-
	Simiyu	-	-	-	-	-	-	-	-	-	-
	Geita	-	-	-	-	-	-	-	-	-	-
	Songwe	4,417	1,793	1,407	9,660	6.9	-	-	-	-	-
	<b>Mainland Tanzania</b>	<b>191,421</b>	<b>97,196</b>	<b>67,857</b>	<b>403,271</b>	<b>5.9</b>	<b>144,195</b>	<b>11,787</b>	<b>2,618</b>	<b>2,647</b>	<b>1.0</b>
	Kaskazini Unguja	-	-	-	-	-	1,124	86	3	7	2.4
	Kusini Unguja	-	-	-	-	-	2,652	267	9	19	2.1
	Mjini Magharibi	-	-	-	-	-	2,256	307	77	22	0.3
	Kaskazini Pemba	-	-	-	-	-	-	-	-	-	-
	Kusini Pemba	-	-	-	-	-	-	-	-	-	-
	<b>Zanzibar</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>6,348</b>	<b>666</b>	<b>93</b>	<b>55</b>	<b>0.6</b>
	<b>Tanzania</b>	<b>191,421</b>	<b>97,196</b>	<b>67,857</b>	<b>403,271</b>	<b>5.9</b>	<b>150,542</b>	<b>12,453</b>	<b>2,712</b>	<b>2,703</b>	<b>1.0</b>
Large Scale Farms	Mainland Tanzania	11	81	81	931	11.5	-	-	-	-	-
	Zanzibar	-	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	<b>11</b>	<b>81</b>	<b>81</b>	<b>931</b>	<b>11.5</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
All Holdings	Mainland Tanzania	-	97,277	67,938	404,202	5.9	-	11,788	2,619	2,647	1.0
	Zanzibar	-	-	-	-	-	-	666	93	55	0.6
	<b>Tanzania</b>	<b>-</b>	<b>97,277</b>	<b>67,938</b>	<b>404,202</b>	<b>5.9</b>	<b>-</b>	<b>12,454</b>	<b>2,712</b>	<b>2,703</b>	<b>1.0</b>

“-“ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Area, Production and Yield by Crop and Region During 2022/23 Agricultural Year, Tanzania – Long Rain Season**

Holding Category	Region	Onions					Ginger				
		Number of Holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield on Area harvested (tons/ha)	Number of Holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield on Area harvested (tons/ha)
Agricultural Households	Dodoma	-	-	-	-	-	-	-	-	-	-
	Arusha	890	290	182	1,082	5.9	-	-	-	-	-
	Kilimanjaro	2,011	2,311	394	898	2.3	-	-	-	-	-
	Tanga	1,292	654	476	1,915	4.0	-	-	-	-	-
	Morogoro	3,463	983	632	436	0.7	-	-	-	-	-
	Pwani	-	-	-	-	-	-	-	-	-	-
	Dar es Salaam	-	-	-	-	-	-	-	-	-	-
	Lindi	-	-	-	-	-	-	-	-	-	-
	Mtwara	-	-	-	-	-	-	-	-	-	-
	Ruvuma	-	-	-	-	-	-	-	-	-	-
	Iringa	-	-	-	-	-	-	-	-	-	-
	Mbeya	4,411	1,373	671	1,354	2.0	-	-	-	-	-
	Singida	-	-	-	-	-	-	-	-	-	-
	Tabora	2,542	540	491	1,813	3.7	-	-	-	-	-
	Rukwa	-	-	-	-	-	-	-	-	-	-
	Kigoma	-	-	-	-	-	-	-	-	-	-
	Shinyanga	-	-	-	-	-	-	-	-	-	-
	Kagera	-	-	-	-	-	-	-	-	-	-
	Mwanza	-	-	-	-	-	-	-	-	-	-
	Mara	-	-	-	-	-	-	-	-	-	-
	Manyara	-	-	-	-	-	-	-	-	-	-
	Njombe	-	-	-	-	-	-	-	-	-	-
	Katavi	-	-	-	-	-	-	-	-	-	-
	Simiyu	-	-	-	-	-	-	-	-	-	-
	Geita	-	-	-	-	-	-	-	-	-	-
	Songwe	-	-	-	-	-	-	-	-	-	-
	<b>Mainland Tanzania</b>	<b>30,610</b>	<b>15,277</b>	<b>11,261</b>	<b>15,310</b>	<b>1.4</b>	<b>3,281</b>	<b>846</b>	-	-	-
	Kaskazini Unguja	-	-	-	-	-	-	-	-	-	-
	Kusini Unguja	-	-	-	-	-	-	-	-	-	-
	Mjini Magharibi	-	-	-	-	-	-	-	-	-	-
	Kaskazini Pemba	-	-	-	-	-	-	-	-	-	-
	Kusini Pemba	-	-	-	-	-	-	-	-	-	-
	<b>Zanzibar</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>Tanzania</b>	<b>30,875</b>	<b>15,301</b>	<b>11,261</b>	<b>15,310</b>	<b>1.4</b>	<b>3,281</b>	<b>846</b>	-	-	-
Large Scale Farms	Mainland Tanzania	3	9	6	14	2.3	-	-	-	-	-
	Zanzibar	-	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	<b>3</b>	<b>9</b>	<b>6</b>	<b>14</b>	<b>2.3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
All Holdings	Mainland Tanzania	-	15,286	11,267	15,324	1.4	-	846	-	-	-
	Zanzibar	-	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	<b>-</b>	<b>15,310</b>	<b>11,267</b>	<b>15,324</b>	<b>1.4</b>	<b>-</b>	<b>846</b>	<b>-</b>	<b>-</b>	<b>-</b>

“-“ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Area, Production and Yield by Crop and Region During 2022/23 Agricultural Year, Tanzania – Long Rain Season**

Holding Category	Region	Garlic					Beans				
		Number of Holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield on Area harvested (tons/ha)	Number of Holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield on Area harvested (tons/ha)
Agricultural Households	Dodoma	-	-	-	-	-	18,827	8,019	3,632	20,258	5.6
	Arusha	-	-	-	-	-	115,675	72,097	25,476	42,615	1.7
	Kilimanjaro	-	-	-	-	-	147,833	38,696	25,795	20,959	0.8
	Tanga	-	-	-	-	-	104,319	52,945	24,885	21,806	0.9
	Morogoro	-	-	-	-	-	51,924	39,814	20,816	50,813	2.4
	Pwani	-	-	-	-	-	-	-	-	-	-
	Dar es Salaam	-	-	-	-	-	16,537	12,509	7,041	7,583	1.1
	Lindi	-	-	-	-	-	-	-	-	-	-
	Mtwara	-	-	-	-	-	-	-	-	-	-
	Ruvuma	-	-	-	-	-	94,605	47,055	28,272	30,007	1.1
	Iringa	-	-	-	-	-	84,409	26,345	19,411	16,756	0.9
	Mbeya	-	-	-	-	-	92,969	36,211	27,687	23,803	0.9
	Singida	-	-	-	-	-	34,838	9,681	3,727	3,553	1.0
	Tabora	-	-	-	-	-	51,777	13,422	6,765	7,349	1.1
	Rukwa	-	-	-	-	-	99,079	69,714	44,659	50,111	1.1
	Kigoma	-	-	-	-	-	83,958	28,529	13,651	24,657	1.8
	Shinyanga	-	-	-	-	-	39,735	9,097	3,905	1,532	0.4
	Kagera	-	-	-	-	-	377,430	106,313	42,315	45,733	1.1
	Mwanza	-	-	-	-	-	20,782	4,675	2,571	1,147	0.4
	Mara	-	-	-	-	-	25,185	8,464	3,425	1,868	0.5
	Manyara	1,183	140	124	628	5.0	45,643	26,585	12,338	12,719	1.0
	Njombe	-	-	-	-	-	53,965	15,521	12,569	7,527	0.6
	Katavi	-	-	-	-	-	3,510	1,454	1,023	831	0.8
	Simiyu	-	-	-	-	-	12,883	7,225	7,180	2,219	0.3
	Geita	-	-	-	-	-	19,107	4,981	2,192	882	0.4
	Songwe	-	-	-	-	-	70,494	28,579	22,208	14,439	0.7
	<b>Mainland Tanzania</b>	<b>1,183</b>	<b>140</b>	<b>124</b>	<b>628</b>	<b>5.0</b>	<b>1,665,483</b>	<b>667,930</b>	<b>361,542</b>	<b>409,167</b>	<b>1.1</b>
	Kaskazini Unguja	-	-	-	-	-	-	-	-	-	-
	Kusini Unguja	-	-	-	-	-	-	-	-	-	-
	Mjini Magharibi	-	-	-	-	-	-	-	-	-	-
	Kaskazini Pemba	-	-	-	-	-	-	-	-	-	-
	Kusini Pemba	-	-	-	-	-	-	-	-	-	-
	<b>Zanzibar</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>Tanzania</b>	<b>1,183</b>	<b>140</b>	<b>124</b>	<b>628</b>	<b>5.0</b>	<b>1,665,569</b>	<b>667,931</b>	<b>361,542</b>	<b>409,171</b>	<b>1.1</b>
Large Scale Farms	Mainland Tanzania	-	-	-	-	-	99	2,426	1,364	946	0.7
	Zanzibar	-	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>99</b>	<b>2,426</b>	<b>1,364</b>	<b>946</b>	<b>0.7</b>
All Holdings	Mainland Tanzania	-	140	124	628	5.0	1,665,582	670,356	362,905	410,112	1.1
	Zanzibar	-	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	<b>-</b>	<b>140</b>	<b>124</b>	<b>628</b>	<b>5.0</b>	<b>1,665,668</b>	<b>670,357</b>	<b>362,906</b>	<b>410,117</b>	<b>1.1</b>

“-“ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)



**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Area, Production and Yield by Crop and Region During 2022/23 Agricultural Year, Tanzania - Agricultural Year Season**

Holding Category	Region	Irish potatoes					Cocoyams				
		Number of Holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield on Area harvested (tons/ha)	Number of Holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield on Area harvested (tons/ha)
Agricultural Households	Dodoma	3,459	1,475	1,073	2,921	2.7	-	-	-	-	-
	Arusha	12,413	6,189	4,546	19,616	4.3	-	-	-	-	-
	Kilimanjaro	8,259	7,831	4,812	12,140	2.5	40,756	5,227	3,324	1,957	0.6
	Tanga	59,005	34,906	15,159	46,126	3.0	4,496	1,267	341	2,143	6.3
	Morogoro	-	-	-	-	-	3,587	106	51	282	5.6
	Pwani	-	-	-	-	-	-	-	-	-	-
	Dar es Salaam	-	-	-	-	-	-	-	-	-	-
	Lindi	-	-	-	-	-	-	-	-	-	-
	Mtwara	-	-	-	-	-	-	-	-	-	-
	Ruvuma	-	-	-	-	-	-	-	-	-	-
	Iringa	26,424	10,212	8,428	39,769	4.7	-	-	-	-	-
	Mbeya	38,021	24,641	20,652	127,968	6.2	7,358	2,246	1,203	1,087	0.9
	Singida	-	-	-	-	-	-	-	-	-	-
	Tabora	-	-	-	-	-	-	-	-	-	-
	Rukwa	-	-	-	-	-	-	-	-	-	-
	Kigoma	-	-	-	-	-	-	-	-	-	-
	Shinyanga	-	-	-	-	-	-	-	-	-	-
	Kagera	21,044	5,436	2,827	16,580	5.9	159,960	18,970	4,952	19,607	4.0
	Mwanza	-	-	-	-	-	-	-	-	-	-
	Mara	2,398	2,507	1,537	3,308	2.2	-	-	-	-	-
	Manyara	4,662	1,465	1,085	5,729	5.3	-	-	-	-	-
	Njombe	57,686	54,317	45,196	242,630	5.4	-	-	-	-	-
	Katavi	-	-	-	-	-	-	-	-	-	-
	Simiyu	-	-	-	-	-	-	-	-	-	-
	Geita	-	-	-	-	-	-	-	-	-	-
	Songwe	4,417	1,793	1,407	9,660	6.9	-	-	-	-	-
	<b>Mainland Tanzania</b>	<b>245,615</b>	<b>153,185</b>	<b>108,293</b>	<b>529,295</b>	<b>4.9</b>	<b>222,054</b>	<b>28,258</b>	<b>10,052</b>	<b>25,372</b>	<b>2.5</b>
	Kaskazini Unguja	-	-	-	-	-	1,872	177	28	38	1.3
	Kusini Unguja	-	-	-	-	-	3,121	413	36	134	3.7
	Mjini Magharibi	-	-	-	-	-	2,423	629	176	82	0.5
	Kaskazini Pemba	-	-	-	-	-	-	-	-	-	-
	Kusini Pemba	-	-	-	-	-	-	-	-	-	-
	<b>Zanzibar</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>7,769</b>	<b>1,232</b>	<b>246</b>	<b>262</b>	<b>1.1</b>
	<b>Tanzania</b>	<b>245,615</b>	<b>153,185</b>	<b>108,293</b>	<b>529,295</b>	<b>4.9</b>	<b>229,822</b>	<b>29,490</b>	<b>10,297</b>	<b>25,634</b>	<b>2.5</b>
Large Scale Farms	Mainland Tanzania	13	92	92	961	10.5	-	-	-	-	-
	Zanzibar	-	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	<b>13</b>	<b>92</b>	<b>92</b>	<b>961</b>	<b>10.5</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
All Holdings	Mainland Tanzania		153,276	108,385	530,257	4.9		28,259	10,052	25,372	2.5
	Zanzibar		-	-	-	-		1,232	246	262	1.1
	<b>Tanzania</b>		<b>153,276</b>	<b>108,385</b>	<b>530,257</b>	<b>4.9</b>		<b>29,491</b>	<b>10,298</b>	<b>25,635</b>	<b>2.5</b>

“-“ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1(Ctd): Number of Agricultural Holdings, Planted and Harvested Area, Production and Yield by Crop and Region During 2022/23 Agricultural Year, Tanzania - Agricultural Year Season**

Holding Category	Region	Onions					Ginger				
		Number of Holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield on Area harvested (tons/ha)	Number of Holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield on Area harvested (tons/ha)
Agricultural Households	Dodoma	-	-	-	-	-	-	-	-	-	-
	Arusha	1,672	862	507	2,684	-	-	-	-	-	-
	Kilimanjaro	2,011	2,311	394	898	-	-	-	-	-	-
	Tanga	1,813	759	502	2,045	-	-	-	-	-	-
	Morogoro	3,463	983	632	436	-	-	-	-	-	-
	Pwani	-	-	-	-	-	-	-	-	-	-
	Dar es Salaam	-	-	-	-	-	-	-	-	-	-
	Lindi	-	-	-	-	-	-	-	-	-	-
	Mtwara	-	-	-	-	-	-	-	-	-	-
	Ruvuma	-	-	-	-	-	-	-	-	-	-
	Iringa	-	-	-	-	-	-	-	-	-	-
	Mbeya	5,187	1,451	750	1,742	-	-	-	-	-	-
	Singida	-	-	-	-	-	-	-	-	-	-
	Tabora	3,508	982	836	2,374	-	-	-	-	-	-
	Rukwa	-	-	-	-	-	-	-	-	-	-
	Kigoma	3,969	1,874	1,874	2,633	1.0	-	-	-	-	-
	Shinyanga	-	-	-	-	-	-	-	-	-	-
	Kagera	-	-	-	-	-	-	-	-	-	-
	Mwanza	1,266	165	154	202	-	-	-	-	-	-
	Mara	-	-	-	-	-	-	-	-	-	-
	Manyara	1,340	787	413	1,348	-	-	-	-	-	-
	Njombe	-	-	-	-	-	-	-	-	-	-
	Katavi	-	-	-	-	-	-	-	-	-	-
	Simiyu	-	-	-	-	-	-	-	-	-	-
	Geita	-	-	-	-	-	-	-	-	-	-
	Songwe	-	-	-	-	-	-	-	-	-	-
	<b>Mainland Tanzania</b>	<b>37,634</b>	<b>18,157</b>	<b>13,524</b>	<b>21,230</b>	<b>2.6</b>	<b>3,743</b>	<b>987</b>	-	-	-
	Kaskazini Unguja	-	-	-	-	-	-	-	-	-	-
	Kusini Unguja	-	-	-	-	-	-	-	-	-	-
	Mjini Magharibi	-	-	-	-	-	-	-	-	-	-
	Kaskazini Pemba	-	-	-	-	-	-	-	-	-	-
	Kusini Pemba	-	-	-	-	-	-	-	-	-	-
	<b>Zanzibar</b>	<b>373</b>	<b>39</b>	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	<b>38,007</b>	<b>18,197</b>	<b>13,524</b>	<b>21,230</b>	<b>2.6</b>	<b>3,743</b>	<b>987</b>	-	-	-
Large Scale Farms	Mainland Tanzania	4	27	13	29	2.2	-	-	-	-	-
	Zanzibar	-	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	<b>4</b>	<b>27</b>	<b>13</b>	<b>29</b>	<b>2.2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
All Holdings	Mainland Tanzania		18,185	13,537	21,259	2.6		987	-	-	-
	Zanzibar		39	-	-	-		-	-	-	-
	<b>Tanzania</b>		<b>18,224</b>	<b>13,537</b>	<b>21,259</b>	<b>2.6</b>		<b>987</b>	-	-	-

“-“ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Area, Production and Yield by Crop and Region During 2022/23 Agricultural Year, Tanzania - Agricultural Year Season**

Holding Category	Region	Garlic					Beans				
		Number of Holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield on Area harvested (tons/ha)	Number of Holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield on Area harvested (tons/ha)
Agricultural Households	Dodoma	-	-	-	-	-	19,511	8,624	4,187	20,448	4.9
	Arusha	-	-	-	-	-	160,486	106,549	41,890	57,645	1.4
	Kilimanjaro	-	-	-	-	-	166,916	55,392	35,327	27,343	0.8
	Tanga	-	-	-	-	-	138,153	71,972	30,670	26,876	0.9
	Morogoro	-	-	-	-	-	60,382	48,108	24,518	83,717	3.4
	Pwani	-	-	-	-	-	-	-	-	-	-
	Dar es Salaam	-	-	-	-	-	22,503	31,305	16,304	16,564	1.0
	Lindi	-	-	-	-	-	-	-	-	-	-
	Mtwara	-	-	-	-	-	-	-	-	-	-
	Ruvuma	-	-	-	-	-	94,605	47,587	28,379	30,156	1.1
	Iringa	-	-	-	-	-	116,140	37,522	27,929	22,888	0.8
	Mbeya	-	-	-	-	-	115,557	54,983	44,209	31,692	0.7
	Singida	-	-	-	-	-	34,838	9,681	3,727	3,553	1.0
	Tabora	-	-	-	-	-	60,746	14,852	7,594	7,738	1.0
	Rukwa	-	-	-	-	-	100,218	70,061	44,833	50,146	1.1
	Kigoma	-	-	-	-	-	196,203	63,921	34,416	48,914	1.4
	Shinyanga	-	-	-	-	-	55,167	20,142	11,031	3,112	0.3
	Kagera	-	-	-	-	-	508,211	206,143	95,669	125,284	1.3
	Mwanza	-	-	-	-	-	93,491	21,952	12,008	8,188	0.7
	Mara	-	-	-	-	-	49,371	20,581	11,616	6,965	0.6
	Manyara	1,183	140	124	628	5.0	128,259	74,884	40,959	40,178	1.0
	Njombe	-	-	-	-	-	57,302	18,366	15,123	8,389	0.6
	Katavi	-	-	-	-	-	34,221	15,585	12,014	8,805	0.7
	Simiyu	-	-	-	-	-	48,000	17,012	16,346	5,371	0.3
	Geita	-	-	-	-	-	147,901	39,830	20,461	20,796	1.0
	Songwe	-	-	-	-	-	87,157	37,618	29,961	19,820	0.7
	<b>Mainland Tanzania</b>	<b>1,183</b>	<b>140</b>	<b>124</b>	<b>628</b>	<b>5.0</b>	<b>2,496,620</b>	<b>1,093,501</b>	<b>609,503</b>	<b>676,128</b>	<b>1.1</b>
	Kaskazini Unguja	-	-	-	-	-	-	-	-	-	-
	Kusini Unguja	-	-	-	-	-	-	-	-	-	-
	Mjini Magharibi	-	-	-	-	-	-	-	-	-	-
	Kaskazini Pemba	-	-	-	-	-	-	-	-	-	-
	Kusini Pemba	-	-	-	-	-	-	-	-	-	-
	<b>Zanzibar</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>Tanzania</b>	<b>1,183</b>	<b>140</b>	<b>124</b>	<b>628</b>	<b>5.0</b>	<b>2,496,706</b>	<b>1,093,502</b>	<b>609,503</b>	<b>676,133</b>	<b>1.1</b>
Large Scale Farms	Mainland Tanzania	-	-	-	-	-	123	3,247	2,115	2,103	1.0
	Zanzibar	-	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>123</b>	<b>3,247</b>	<b>2,115</b>	<b>2,103</b>	<b>1.0</b>
All Holdings	Mainland Tanzania		140	124	628	5.0		1,096,748	611,618	678,231	1.1
	Zanzibar		-	-	-	-		-	-	-	-
	<b>Tanzania</b>		<b>140</b>	<b>124</b>	<b>628</b>	<b>5.0</b>		<b>1,096,749</b>	<b>611,618</b>	<b>678,236</b>	<b>1.1</b>

“-“ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Areas, Production, Yield by Crop During the Agricultural Year, Tanzania –Short Rainy Season**

Holding Category	Region	Sunflower					Sesame				
		Number of households	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)	Number of households	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)
Agricultural Households	Dodoma	2,390	1,384	1,057	960	0.9	-	-	-	-	-
	Arusha	7,960	7,002	2,609	3,060	1.2	-	-	-	-	-
	Kilimanjaro	31,074	8,231	5,465	2,476	0.5	-	-	-	-	-
	Tanga	8,671	3,900	2,285	2,099	0.9	1,622	1,016	626	331	0.5
	Morogoro	29,010	25,377	7,368	4,733	0.6	41,047	23,741	12,538	9,054	0.7
	Pwani	-	-	-	-	-	16,483	18,099	8,966	6,185	0.7
	Dar es Salaam	9,514	14,853	7,518	5,420	0.7	8,333	12,840	4,266	2,097	0.5
	Lindi	-	-	-	-	-	-	-	-	-	-
	Mtwara	14,968	6,745	5,044	2,508	0.5	54,428	37,196	27,207	13,600	0.5
	Ruvuma	-	-	-	-	-	-	-	-	-	-
	Iringa	23,087	14,831	12,665	11,135	0.9	-	-	-	-	-
	Mbeya	3,615	1,058	949	548	0.6	-	-	-	-	-
	Singida	-	-	-	-	-	-	-	-	-	-
	Tabora	8,726	4,080	1,709	1,857	1.1	-	-	-	-	-
	Rukwa	-	-	-	-	-	-	-	-	-	-
	Kigoma	-	-	-	-	-	-	-	-	-	-
	Shinyanga	3,073	1,465	686	649	0.9	-	-	-	-	-
	Kagera	8,591	1,110	989	478	0.5	-	-	-	-	-
	Mwanza	2,338	945	613	242	0.4	-	-	-	-	-
	Mara	5,676	1,924	1,713	1,205	0.7	-	-	-	-	-
	Manyara	75,657	66,024	38,038	37,610	1	4,846	9,754	2,980	1,614	0.5
	Njombe	3,594	2,630	2,630	3,476	1.3	-	-	-	-	-
	Katavi	17,353	8,381	6,998	5,651	0.8	3,525	5,339	4,529	1,835	0.4
	Simiyu	58,227	24,479	24,275	15,742	0.6	-	-	-	-	-
	Geita	7,606	2,929	2,167	1,793	0.8	-	-	-	-	-
	Songwe	6,305	2,598	2,383	2,250	0.9	1,054	463	447	107	0.2
	<b>Mainland</b>	<b>334,677</b>	<b>202,214</b>	<b>128,779</b>	<b>105,423</b>	<b>0.8</b>	<b>132,748</b>	<b>108,907</b>	<b>61,996</b>	<b>34,856</b>	<b>0.6</b>
	Kaskazini Unguja	-	-	-	-	-	-	-	-	-	-
	Kusini Unguja	-	-	-	-	-	-	-	-	-	-
	Mjini Magharibi	-	-	-	-	-	-	-	-	-	-
	Kaskazini Pemba	-	-	-	-	-	-	-	-	-	-
	Kusini Pemba	-	-	-	-	-	-	-	-	-	-
	<b>Zanzibar</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>Tanzania</b>	<b>334,677</b>	<b>202,214</b>	<b>128,779</b>	<b>105,423</b>	<b>0.8</b>	<b>132,748</b>	<b>108,907</b>	<b>61,996</b>	<b>34,856</b>	<b>0.6</b>
Large Scale Farms	Mainland Tanzania	25	414	335	273	0.8	6	258	3	1	0.3
	Zanzibar	-	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	<b>25</b>	<b>414</b>	<b>335</b>	<b>273</b>	<b>0.8</b>	<b>6</b>	<b>258</b>	<b>3</b>	<b>1</b>	<b>0.3</b>
All Holdings	Mainland	-	202,629	129,114	105,696	0.8	-	109,165	62,000	34,857	0.6
	Zanzibar	-	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	<b>-</b>	<b>202,629</b>	<b>129,114</b>	<b>105,696</b>	<b>0.8</b>	<b>-</b>	<b>109,165</b>	<b>62,000</b>	<b>34,857</b>	<b>0.6</b>

“- “ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Areas, Production, Yield by Crop During the Agricultural Year, Tanzania –Short Rainy Season**

Holding Category	Region	Groundnut					Cotton				
		Number of households	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)	Number of households	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/h)
Agricultural Households	Dodoma	2,390	1,527	966	572	0.6	-	-	-	-	-
	Arusha	-	-	-	-	-	-	-	-	-	-
	Kilimanjaro	8,389	2,146	876	1,176	1.3	-	-	-	-	-
	Tanga	7,438	2,569	2,047	3,261	1.6	-	-	-	-	-
	Morogoro	11,293	3,487	1,052	836	0.8	-	-	-	-	-
	Pwani	6,038	2,790	1,621	1,855	1.1	-	-	-	-	-
	Dar es Salaam	8,579	2,931	1,892	1,466	0.8	-	-	-	-	-
	Lindi	-	-	-	-	-	-	-	-	-	-
	Mtwara	169,125	66,340	50,618	39,855	0.8	-	-	-	-	-
	Ruvuma	-	-	-	-	-	-	-	-	-	-
	Iringa	-	-	-	-	-	-	-	-	-	-
	Mbeya	8,991	2,588	2,491	1,007	0.4	-	-	-	-	-
	Singida	-	-	-	-	-	-	-	-	-	-
	Tabora	42,412	17,343	11,352	11,155	1	4,543	4,153	2,624	3,286	1.3
	Rukwa	-	-	-	-	-	-	-	-	-	-
	Kigoma	22,492	4,805	3,342	2,276	0.7	-	-	-	-	-
	Shinyanga	24,444	8,676	4,170	4,853	1.2	3,209	2,953	837	1,924	2.3
	Kagera	43,524	5,697	1,868	1,596	0.9	-	-	-	-	-
	Mwanza	35,087	8,869	5,744	5,932	1	24,937	19,611	12,532	14,310	1.1
	Mara	6,721	1,737	1,610	1,502	0.9	15,754	10,415	7,917	4,801	0.6
	Manyara	2,898	1,336	955	1,632	1.7	-	-	-	-	-
	Njombe	-	-	-	-	-	-	-	-	-	-
	Katavi	49,705	22,923	19,655	29,929	1.5	9,367	8,375	6,256	5,889	0.9
	Simiyu	56,626	19,109	19,069	9,213	0.5	158,507	206,606	196,819	119,478	0.6
	Geita	62,561	18,585	12,334	11,338	0.9	26,059	20,720	15,768	18,304	1.2
	Songwe	21,610	9,623	7,921	6,974	0.9	-	-	-	-	-
	<b>Mainland</b>	<b>592,926</b>	<b>204,023</b>	<b>150,137</b>	<b>137,849</b>	<b>0.9</b>	<b>248,293</b>	<b>278,610</b>	<b>247,712</b>	<b>171,090</b>	<b>0.7</b>
	Kaskazini Unguja	-	-	-	-	-	-	-	-	-	-
	Kusini Unguja	-	-	-	-	-	-	-	-	-	-
	Mjini Magharibi	-	-	-	-	-	-	-	-	-	-
	Kaskazini Pemba	-	-	-	-	-	-	-	-	-	-
	Kusini Pemba	2,106	501	465	776	1.7	-	-	-	-	-
	<b>Zanzibar</b>	<b>2,647</b>	<b>586</b>	<b>540</b>	<b>826</b>	<b>1.5</b>	-	-	-	-	-
	<b>Tanzania</b>	<b>595,572</b>	<b>204,609</b>	<b>150,677</b>	<b>138,675</b>	<b>0.9</b>	<b>248,293</b>	<b>278,610</b>	<b>247,712</b>	<b>171,090</b>	<b>0.7</b>
Large Scale Farms	Mainland	20	1,708	76	23	0.3	12	80	52	47	0.9
	Zanzibar	-	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	<b>20</b>	<b>1,708</b>	<b>76</b>	<b>23</b>	<b>0.3</b>	<b>12</b>	<b>80</b>	<b>52</b>	<b>47</b>	<b>0.9</b>
All Holdings	Mainland Tanzania	-	205,731	150,214	137,872	0.9	-	278,689	247,764	171,138	0.7
	Zanzibar	-	586	540	826	1.5	-	-	-	-	-
	<b>Tanzania</b>	-	<b>206,317</b>	<b>150,753</b>	<b>138,698</b>	<b>0.9</b>	-	<b>278,689</b>	<b>247,764</b>	<b>171,138</b>	<b>0.7</b>

“-“ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Areas, Production, Yield by Crop During the Agricultural Year, Tanzania – Long Rainy Season**

Holding Category	Region	Sunflower					Sesame				
		Number of Holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)	Number of Holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)
Agricultural Households	Dodoma	313,636	303,438	179,613	152,769	0.9	19,748	29,066	17,737	10,320	0.6
	Arusha	27,796	13,770	7,252	7,802	1.1	-	-	-	-	-
	Kilimanjaro	42,086	8,091	5,186	4,579	0.9	-	-	-	-	-
	Tanga	20,016	11,114	6,012	4,429	0.7	2,918	2,103	1,727	189	0.1
	Morogoro	28,614	19,280	8,723	5,227	0.6	31,904	26,020	13,382	12,540	0.9
	Pwani	-	-	-	-	-	41,545	63,356	21,557	16,071	0.7
	Dar es Salaam	-	-	-	-	-	-	-	-	-	-
	Lindi	17,512	5,703	2,012	1,940	1	162,094	165,032	61,214	42,147	0.7
	Mtwara	-	-	-	-	-	10,676	7,760	7,021	2,686	0.4
	Ruvuma	79,392	32,252	20,403	15,517	0.8	53,245	48,492	30,018	22,826	0.8
	Iringa	34,088	14,094	11,179	8,366	0.7	-	-	-	-	-
	Mbeya	31,993	26,363	19,339	16,419	0.8	1,939	680	357	543	1.5
	Singida	126,132	120,614	75,447	72,738	1	11,072	6,727	3,365	2,345	0.7
	Tabora	53,385	29,899	17,916	20,316	1.1	-	-	-	-	-
	Rukwa	71,194	47,279	34,412	23,808	0.7	-	-	-	-	-
	Kigoma	3,728	4,856	3,749	3,250	0.9	-	-	-	-	-
	Shinyanga	14,460	5,500	3,227	2,378	0.7	-	-	-	-	-
	Kagera	10,120	2,207	1,126	1,099	1	-	-	-	-	-
	Mwanza	2,552	1,013	805	817	1	-	-	-	-	-
	Mara	3,313	1,549	1,182	1,135	1	-	-	-	-	-
	Manyara	21,075	16,771	8,532	6,384	0.7	-	-	-	-	-
	Njombe	33,322	14,010	12,867	7,119	0.6	-	-	-	-	-
	Katavi	1,021	413	178	221	1.2	-	-	-	-	-
	Simiyu	3,390	1,130	813	303	0.4	-	-	-	-	-
	Geita	10,462	9,113	6,119	2,512	0.4	-	-	-	-	-
	Songwe	35,951	22,893	19,060	13,447	0.7	25,188	30,748	24,428	12,414	0.5
	<b>Mainland Tanzania</b>	<b>988,331</b>	<b>712,106</b>	<b>445,599</b>	<b>372,657</b>	<b>0.8</b>	<b>367,630</b>	<b>385,467</b>	<b>183,997</b>	<b>123,741</b>	<b>0.7</b>
	Kaskazini Unguja	-	-	-	-	-	-	-	-	-	-
	Kusini Unguja	-	-	-	-	-	-	-	-	-	-
	Mjini Magharibi	-	-	-	-	-	-	-	-	-	-
	Kaskazini Pemba	-	-	-	-	-	-	-	-	-	-
	Kusini Pemba	-	-	-	-	-	-	-	-	-	-
	<b>Zanzibar</b>	-	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	<b>988,331</b>	<b>712,106</b>	<b>445,599</b>	<b>372,657</b>	<b>0.8</b>	<b>367,630</b>	<b>385,467</b>	<b>183,997</b>	<b>123,741</b>	<b>0.7</b>
Large Scale Farms	Mainland	158	3,898	3,074	2,041	0.7	55	585	234	89	0.4
	Zanzibar	-	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	<b>158</b>	<b>3,898</b>	<b>3,074</b>	<b>2,041</b>	<b>0.7</b>	<b>55</b>	<b>585</b>	<b>234</b>	<b>89</b>	<b>0.4</b>
All Holdings	Mainland Tanzania		716,004	448,673	374,698	0.8		386,052	184,231	123,830	0.7
	Zanzibar		-	-	-	-		-	-	-	-
	<b>Tanzania</b>		<b>716,004</b>	<b>448,673</b>	<b>374,698</b>	<b>0.8</b>		<b>386,052</b>	<b>184,231</b>	<b>123,830</b>	<b>0.7</b>

“-“ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Areas, Production, Yield by Crop During the Agricultural Year, Tanzania – Long Rainy Season**

Holding Category	Region	Groundnut					Cotton				
		Number of households	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)	Number of households	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)
Agricultural Households	Dodoma	162,198	84,100	50,435	48,739	1	-	-	-	-	-
	Arusha	-	-	-	-	-	-	-	-	-	-
	Kilimanjaro	11,754	3,354	2,074	1,656	0.8	-	-	-	-	-
	Tanga	9,144	2,384	1,601	2,043	1.3	-	-	-	-	-
	Morogoro	3,814	1,716	932	2,930	3.1	-	-	-	-	-
	Pwani	3,287	991	780	1,633	2.1	-	-	-	-	-
	Dar es Salaam	3,783	943	599	48	0.1	-	-	-	-	-
	Lindi	27,918	7,045	3,610	2,750	0.8	-	-	-	-	-
	Mtwara	31,338	10,374	5,091	6,244	1.2	-	-	-	-	-
	Ruvuma	46,883	18,350	11,610	14,244	1.2	-	-	-	-	-
	Iringa	2,495	1,197	919	1,466	1.6	-	-	-	-	-
	Mbeya	51,858	38,815	30,557	35,158	1.2	-	-	-	-	-
	Singida	68,499	25,685	13,809	13,476	1	11,711	20,335	13,091	10,444	0.8
	Tabora	160,374	71,425	48,320	79,620	1.6	7,805	7,199	5,406	6,107	1.1
	Rukwa	35,945	26,723	20,494	27,020	1.3	-	-	-	-	-
	Kigoma	13,153	2,561	1,305	1,017	0.8	-	-	-	-	-
	Shinyanga	80,121	29,067	14,294	10,278	0.7	31,905	49,938	30,356	23,323	0.8
	Kagera	20,517	2,631	777	223	0.3	-	-	-	-	-
	Mwanza	6,909	1,504	1,242	803	0.6	3,856	2,733	1,666	3,567	2.1
	Mara	4,667	1,206	419	393	0.9	6,408	4,661	1,261	955	0.8
	Manyara	-	-	-	-	-	-	-	-	-	-
	Njombe	5,097	1,176	986	152	0.2	-	-	-	-	-
	Katavi	-	-	-	-	-	-	-	-	-	-
	Simiyu	-	-	-	-	-	4,934	3,687	2,600	1,947	0.8
	Geita	3,505	1,511	257	270	1.1	1,026	251	147	262	1.8
	Songwe	73,573	30,712	27,506	21,778	0.8	-	-	-	-	-
	<b>Mainland Tanzania</b>	<b>829,703</b>	<b>365,997</b>	<b>239,860</b>	<b>273,094</b>	<b>1.1</b>	<b>68,593</b>	<b>89,380</b>	<b>54,958</b>	<b>46,813</b>	<b>0.9</b>
	Kaskazini Unguja	-	-	-	-	-	-	-	-	-	-
	Kusini Unguja	-	-	-	-	-	-	-	-	-	-
	Mjini Magharibi	-	-	-	-	-	-	-	-	-	-
	Kaskazini Pemba	-	-	-	-	-	-	-	-	-	-
	Kusini Pemba	1,343	178	102	114	1.1	-	-	-	-	-
	<b>Zanzibar</b>	<b>1,992</b>	<b>269</b>	<b>147</b>	<b>158</b>	<b>1.1</b>	-	-	-	-	-
	<b>Tanzania</b>	<b>831,695</b>	<b>366,266</b>	<b>240,006</b>	<b>273,252</b>	<b>1.1</b>	<b>68,593</b>	<b>89,380</b>	<b>54,958</b>	<b>46,813</b>	<b>0.9</b>
Large Scale Farms	Mainland Tanzania	111	1922	217	145	0.7	75	775	457	462	1.0
	Zanzibar	-	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	<b>111</b>	<b>1,922</b>	<b>217</b>	<b>145</b>	<b>0.7</b>	<b>75</b>	<b>775</b>	<b>457</b>	<b>462</b>	<b>1.0</b>
All Holdings	Mainland Tanzania	-	367,919	240,076	273,239	1.1	-	90,154	55,415	47,275	0.9
	Zanzibar	-	269	147	158	1.1	-	-	-	-	-
	<b>Tanzania</b>	-	<b>368,188</b>	<b>240,223</b>	<b>273,397</b>	<b>1.1</b>	-	<b>90,154</b>	<b>55,415</b>	<b>47,275</b>	<b>0.9</b>

“-” Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Areas, Production, Yield by Crop During the Agricultural Year, Tanzania**

Holding Category	Region	Pigeon Pea				Sunflower				
		Number of households	Area Planted (ha)	Production (tons)	Yield (tons/ha)	Number of households	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)
Agricultural Households	Dodoma	66,678	38,976	10,298	0.3	314,577	304,822	180,670	153,729	0.9
	Arusha	41,540	15,244	12,104	0.8	33,903	20,771	9,861	10,862	1.1
	Kilimanjaro	3,850	691	158	0.2	52,448	16,321	10,651	7,055	0.7
	Tanga	23,073	13,353	4,591	0.3	27,446	15,014	8,297	6,528	0.8
	Morogoro	95,987	30,189	15,691	0.5	53,858	44,656	16,091	9,960	0.6
	Pwani	30,705	4,404	2,558	0.6	4,098	1,523	934	840	0.9
	Dar es Salaam	-	-	-	-	10,945	15,143	7,518	5,420	0.7
	Lindi	132,054	51,394	14,043	0.3	17,512	5,703	2,012	1,940	1.0
	Mtwara	170,362	84,201	36,933	0.4	15,958	7,146	5,444	2,574	0.5
	Ruvuma	51,698	27,464	13,436	0.5	79,392	32,272	20,413	15,554	0.8
	Iringa	-	-	-	-	57,175	28,926	23,844	19,502	0.8
	Mbeya	-	-	-	-	35,609	27,421	20,288	16,967	0.8
	Singida	3,345	1,227	563	0.5	126,132	120,614	75,447	72,738	1.0
	Tabora	-	-	-	-	62,111	33,979	19,625	22,174	1.1
	Rukwa	6,773	5,414	4,430	0.8	72,324	47,319	34,452	23,959	0.7
	Kigoma	19,575	3,441	492	0.1	5,808	5,607	4,432	3,768	0.9
	Shinyanga	-	-	-	-	17,533	6,965	3,913	3,027	0.8
	Kagera	-	-	-	-	16,690	3,317	2,115	1,577	0.7
	Mwanza	-	-	-	-	4,891	1,957	1,418	1,059	0.7
	Mara	-	-	-	-	7,850	3,473	2,894	2,340	0.8
	Manyara	89,636	50,763	23,152	0.5	94,136	82,794	46,570	43,994	0.9
	Njombe	-	-	-	-	35,044	16,640	15,496	10,595	0.7
	Katavi	-	-	-	-	18,374	8,794	7,176	5,872	0.8
	Simiyu	23,811	5,402	5,305	1	59,764	25,610	25,088	16,045	0.6
	Geita	-	-	-	-	18,068	12,042	8,286	4,305	0.5
	Songwe	-	-	-	-	38,700	25,491	21,442	15,698	0.7
	<b>Mainland Tanzania</b>	<b>764,462</b>	<b>333,201</b>	<b>144,250</b>	<b>0.4</b>	<b>1,280,348</b>	<b>914,320</b>	<b>574,378</b>	<b>478,080</b>	<b>0.8</b>
	Kaskazini Unguja	3,118	566	319	0.6	-	-	-	-	-
	Kusini Unguja	2,913	290	135	0.5	-	-	-	-	-
	Mjini Magharibi	647	146	85	0.6	-	-	-	-	-
	Kaskazini Pemba	-	-	-	-	-	-	-	-	-
	Kusini Pemba	-	-	-	-	-	-	-	-	-
	<b>Zanzibar</b>	<b>6,678</b>	<b>1,002</b>	<b>539</b>	<b>0.5</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>Tanzania</b>	<b>771,140</b>	<b>334,203</b>	<b>144,790</b>	<b>0.4</b>	<b>1,280,348</b>	<b>914,320</b>	<b>574,378</b>	<b>478,080</b>	<b>0.8</b>
Large Scale Farms	Mainland Tanzania	19	172	108	0.6	174	4,312	3,409	2,314	0.7
	Zanzibar	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	<b>19</b>	<b>172</b>	<b>108</b>	<b>0.6</b>	<b>174</b>	<b>4,312</b>	<b>3,409</b>	<b>2,314</b>	<b>0.7</b>
All Holdings	Mainland Tanzania		333,373	144,358	0.4		918,632	577,786	480,394	0.8
	Zanzibar		1,002	539	0.5		-	-	-	-
	<b>Tanzania</b>		<b>334,375</b>	<b>144,897</b>	<b>0.4</b>		<b>918,632</b>	<b>577,786</b>	<b>480,394</b>	<b>0.8</b>

“-“ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)



**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Areas, Production, Yield by Crop During the Agricultural Year**

Holding Category	Region	Sesame					Groundnut				
		Number of households	Area Planted (ha)	Area Harvested(ha)	Production (tons)	Yield (tons/ha)	Number of households	Area Planted (ha)	Area Harvested(ha)	Production (tons)	Yield (tons/ha)
Agricultural Households	Dodoma	19,748	29,066	17,737	10,320	0.6	163,648	85,626	51,401	49,311	1
	Arusha	-	-	-	-	-	1,146	585	372	249	0.7
	Kilimanjaro	-	-	-	-	-	12,150	5,500	2,950	2,832	1
	Tanga	4,159	3,119	2,353	520	0.2	14,142	4,953	3,649	5,303	1.5
	Morogoro	70,355	49,761	25,921	21,594	0.8	14,523	5,203	1,984	3,765	1.9
	Pwani	56,515	81,455	30,523	22,256	0.7	6,038	3,781	2,400	3,488	1.5
	Dar es Salaam	9,890	13,996	4,493	2,246	0.5	10,443	3,874	2,491	1,514	0.6
	Lindi	162,094	165,032	61,214	42,147	0.7	27,918	7,045	3,610	2,750	0.8
	Mtwara	60,015	44,956	34,227	16,286	0.5	178,825	76,714	55,709	46,100	0.8
	Ruvuma	53,245	48,492	30,018	22,826	0.8	46,883	18,350	11,610	14,244	1.2
	Iringa	-	-	-	-	-	3,563	1,517	1,103	2,139	1.9
	Mbeya	1,939	680	357	543	1.5	60,064	41,403	33,047	36,165	1.1
	Singida	11,072	6,727	3,365	2,345	0.7	68,499	25,685	13,809	13,476	1
	Tabora	-	-	-	-	-	202,786	88,767	59,673	90,775	1.5
	Rukwa	-	-	-	-	-	37,075	27,180	20,723	27,685	1.3
	Kigoma	-	-	-	-	-	34,849	7,366	4,647	3,293	0.7
	Shinyanga	-	-	-	-	-	102,318	37,743	18,464	15,131	0.8
	Kagera	-	-	-	-	-	56,806	8,329	2,646	1,819	0.7
	Mwanza	-	-	-	-	-	39,659	10,373	6,986	6,735	1
	Mara	2,011	604	505	88	0.2	7,992	2,943	2,028	1,895	0.9
	Manyara	5,252	11,175	3,492	1,821	0.5	3,063	1,403	988	1,684	1.7
	Njombe	-	-	-	-	-	5,097	1,176	986	152	0.2
	Katavi	3,525	5,339	4,529	1,835	0.4	50,090	24,482	21,152	30,275	1.4
	Simiyu	-	-	-	-	-	57,819	19,592	19,552	9,801	0.5
	Geita	-	-	-	-	-	65,116	20,096	12,591	11,609	0.9
	Songwe	25,806	31,211	24,875	12,521	0.5	88,028	40,335	35,427	28,752	0.8
	<b>Mainland Tanzania</b>	<b>490,364</b>	<b>494,374</b>	<b>245,993</b>	<b>158,597</b>	<b>0.6</b>	<b>1,358,541</b>	<b>570,020</b>	<b>389,997</b>	<b>410,943</b>	<b>1.1</b>
	Kaskazini Unguja	-	-	-	-	-	214	33	19	10	0.5
	Kusini Unguja	-	-	-	-	-	-	-	-	-	-
	Mjini Magharibi	-	-	-	-	-	-	-	-	-	-
	Kaskazini Pemba	-	-	-	-	-	239	79	62	31	0.5
	Kusini Pemba	-	-	-	-	-	2,811	679	567	890	1.6
	<b>Zanzibar</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,918</b>	<b>854</b>	<b>687</b>	<b>984</b>	<b>1.4</b>
	<b>Tanzania</b>	<b>490,364</b>	<b>494,374</b>	<b>245,993</b>	<b>158,597</b>	<b>0.6</b>	<b>1,362,459</b>	<b>570,875</b>	<b>390,683</b>	<b>411,927</b>	<b>1.1</b>
Large Scale Farms	Mainland Tanzania	59	843	238	90	0.4	125	3,630	293	168	0.6
	Zanzibar	-	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	<b>59</b>	<b>843</b>	<b>238</b>	<b>90</b>	<b>0.4</b>	<b>125</b>	<b>3,630</b>	<b>293</b>	<b>168</b>	<b>0.6</b>
All Holdings	Mainland Tanzania	490,423	495,217	246,231	158,688	0.6	1,358,666	573,650	390,290	411,111	1.1
	Zanzibar	-	-	-	-	-	3,918	854	687	984	1.4
	<b>Tanzania</b>	<b>490,423</b>	<b>495,217</b>	<b>246,231</b>	<b>158,688</b>	<b>0.6</b>	<b>1,362,584</b>	<b>574,505</b>	<b>390,977</b>	<b>412,095</b>	<b>1.1</b>

“-” Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Areas, Production, Yield by Crop During the Agricultural Year, Tanzania**

Holding Category	Region	Cashewnut				Cotton				
		Number of households	Area Planted (ha)	Production (tons)	Yield (tons/ha)	Number of households	Area Planted (ha)	Area Harvested(ha)	Production (tons)	Yield (tons/ha)
Agricultural Households	Dodoma	-	-	-	-	-	-	-	-	-
	Arusha	-	-	-	-	-	-	-	-	-
	Kilimanjaro	-	-	-	-	-	-	-	-	-
	Tanga	9,781	4,690	234	0	-	-	-	-	-
	Morogoro	2,532	25	15	0.6	-	-	-	-	-
	Pwani	25,623	23,506	4,659	0.2	-	-	-	-	-
	Dar es Salaam	3,633	7,502	537	0.1	-	-	-	-	-
	Lindi	92,784	259,449	26,368	0.1	-	-	-	-	-
	Mtwara	212,107	456,558	94,822	0.2	-	-	-	-	-
	Ruvuma	33,003	145,973	8,243	0.1	-	-	-	-	-
	Iringa	-	-	-	-	-	-	-	-	-
	Mbeya	-	-	-	-	-	-	-	-	-
	Singida	-	-	-	-	11,711	20,335	13,091	10,444	0.8
	Tabora	-	-	-	-	12,348	11,352	8,030	9,392	1.2
	Rukwa	-	-	-	-	-	-	-	-	-
	Kigoma	-	-	-	-	-	-	-	-	-
	Shinyanga	-	-	-	-	35,114	52,891	31,193	25,247	0.8
	Kagera	-	-	-	-	-	-	-	-	-
	Mwanza	-	-	-	-	28,291	22,344	14,198	17,877	1.3
	Mara	-	-	-	-	19,123	15,076	9,178	5,756	0.6
	Manyara	-	-	-	-	-	-	-	-	-
	Njombe	-	-	-	-	-	-	-	-	-
	Katavi	-	-	-	-	9,367	8,375	6,256	5,889	0.9
	Simiyu	-	-	-	-	160,527	210,293	199,419	121,425	0.6
	Geita	-	-	-	-	27,085	20,971	15,915	18,566	1.2
	Songwe	-	-	-	-	-	-	-	-	-
	<b>Mainland Tanzania</b>	<b>380,427</b>	<b>907,074</b>	<b>135,212</b>	<b>0.1</b>	<b>310,431</b>	<b>367,989</b>	<b>302,671</b>	<b>217,903</b>	<b>0.7</b>
	Kaskazini Unguja	-	-	-	-	-	-	-	-	-
	Kusini Unguja	-	-	-	-	-	-	-	-	-
	Mjini Magharibi	-	-	-	-	-	-	-	-	-
	Kaskazini Pemba	-	-	-	-	-	-	-	-	-
	Kusini Pemba	-	-	-	-	-	-	-	-	-
	<b>Zanzibar</b>	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	<b>380,565</b>	<b>907,163</b>	<b>135,235</b>	<b>0.1</b>	<b>310,431</b>	<b>367,989</b>	<b>302,671</b>	<b>217,903</b>	<b>0.7</b>
Large Scale Farms	Mainland Tanzania	86	8,556	360	0	85	854	508	510	1
	Zanzibar	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	<b>86</b>	<b>8,556</b>	<b>360</b>	<b>0</b>	<b>85</b>	<b>854</b>	<b>508</b>	<b>510</b>	<b>1</b>
All Holdings	Mainland Tanzania	-	915,630	135,573	0.1	-	368,844	303,179	218,413	0.7
	Zanzibar	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	-	<b>915,719</b>	<b>135,595</b>	<b>0.1</b>	-	<b>368,844</b>	<b>303,179</b>	<b>218,413</b>	<b>0.7</b>

“-“ Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1 (Ctd): Number of Agricultural Holding, Planted Area, Production and Yield by Crops During the 2022/2023 Agricultural Year**

Holding Category	Region	Coffee			Sugarcane		
		Number of Holding	Area Planted (Ha)	Production (tons)	Number of households	Area Planted (Ha)	Production (tons)
Agricultural Households	Dodoma	-	-	-	-	-	-
	Arusha	2,322	1,092	375	-	-	-
	Kilimanjaro	50,203	13,767	2,298	7,785	2,530	3,567
	Tanga	-	-	-	4,778	1,188	6,606
	Morogoro	-	-	-	18,085	11,603	303,918
	Pwani	-	-	-	-	-	-
	Dar es Salaam	-	-	-	2,438	16	456
	Lindi	-	-	-	-	-	-
	Mtwara	-	-	-	-	-	-
	Ruvuma	59,305	40,354	25,768	-	-	-
	Iringa	-	-	-	1,450	124	1,041
	Mbeya	22,360	15,319	6,420	-	-	-
	Singida	-	-	-	2,642	510	620
	Tabora	-	-	-	-	-	-
	Rukwa	-	-	-	3,450	677	41,866
	Kigoma	-	-	-	-	-	-
	Shinyanga	-	-	-	-	-	-
	Kagera	247,400	87,176	57,734	8,260	1,386	21,253
	Mwanza	-	-	-	710	146	447
	Mara	-	-	-	-	-	-
	Manyara	-	-	-	1,338	2,373	68,611
	Njombe	-	-	-	-	-	-
	Katavi	-	-	-	-	-	-
	Simiyu	-	-	-	-	-	-
	Geita	-	-	-	2,723	1,418	4,013
	Songwe	34,328	36,520	23,734	-	-	-
	<b>Mainland Tanzania</b>	<b>418,642</b>	<b>194,656</b>	<b>116,719</b>	<b>64,406</b>	<b>27,158</b>	<b>516,731</b>
	Kaskazini Unguja	-	-	-	705	312	8,158
	Kusini Unguja	-	-	-	565	138	850
	Mjini Magharibi	-	-	-	3,053	1,202	12,512
	Kaskazini Pemba	-	-	-	-	-	-
	Kusini Pemba	-	-	-	-	-	-
	Zanzibar	-	-	-	4,695	1,987	22,634
	<b>Tanzania</b>	<b>418,642</b>	<b>194,656</b>	<b>116,719</b>	<b>69,101</b>	<b>29,145</b>	<b>539,364</b>
Large scale Farms	Mainland Tanzania	80	14,575	12,842	33	88,023	3,015,872
	Zanzibar	-	-	-	3	1,487	25,336
	<b>Tanzania</b>	<b>80</b>	<b>14,575</b>	<b>12,842</b>	<b>36</b>	<b>89,510</b>	<b>3,041,208</b>
All Holdings	Mainland Tanzania		209,231	129,561		115,181	3,532,603
	Zanzibar		-	-		3,473	47,970
	<b>Tanzania</b>		<b>209,231</b>	<b>129,561</b>		<b>118,654</b>	<b>3,580,573</b>

“ - ” Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1 (Ctd): Number of Agricultural Holding, Planted Area, Production and Yield by Crops During the 2022/2023 Agricultural Year**

HoldingsCategory	Regions	Cardamon			Cinamon		
		Number of Holding	Area Planted (ha)	Production (tons)	Number of Holding	Area Planted (ha)	Production (tons)
Agricultural Households	Dodoma	-	-	-	-	-	-
	Arusha	-	-	-	-	-	-
	Kilimanjaro	-	-	-	-	-	-
	Tanga	10,901	4,488	930	6,771	3,382	916
	Morogoro	7,084	5,534	701	-	-	-
	Pwani	-	-	-	-	-	-
	Dar es Salaam	-	-	-	-	-	-
	Lindi	-	-	-	-	-	-
	Mtwara	-	-	-	-	-	-
	Ruvuma	-	-	-	-	-	-
	Iringa	-	-	-	-	-	-
	Mbeya	-	-	-	-	-	-
	Singida	-	-	-	-	-	-
	Tabora	-	-	-	-	-	-
	Rukwa	-	-	-	-	-	-
	Kigoma	-	-	-	-	-	-
	Shinyanga	-	-	-	-	-	-
	Kagera	-	-	-	-	-	-
	Mwanza	-	-	-	-	-	-
	Mara	-	-	-	-	-	-
	Manyara	-	-	-	-	-	-
	Njombe	-	-	-	-	-	-
	Katavi	-	-	-	-	-	-
	Simiyu	-	-	-	-	-	-
	Geita	-	-	-	-	-	-
	Songwe	2,044	2,068	197	-	-	-
	Mainland Tanzania	-	12,109	1,830	7,743	3,456	928
	Kaskazini Unguja	-	-	-	-	-	-
	Kusini Unguja	-	-	-	-	-	-
	Mjini Magharibi	-	-	-	-	-	-
	Kaskazini Pemba	-	-	-	236	93	61
	Kusini Pemba	-	-	-	-	-	-
	Zanzibar	-	-	-	236	93	61
	<b>Tanzania</b>	21,030	12,128	1,830	7,979	3,548	989
Large scale Farms	Mainland Tanzania	-	-	-	-	-	-
	Zanzibar	-	-	-	-	-	-
	<b>Tanzania</b>	-	-	-	-	-	-
All Holdings	Mainland Tanzania		12,109	1,830		3,456	928
	Zanzibar		-	-		93	61
	<b>Tanzania</b>		12,128	1,830		3,548	989

“ - ” Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted Area, Production and Yield by Crops During the 2022/2023 Agricultural Year**

Holding Category	Region	Cloves			Banana		
		Number of Holding	Area Planted (ha)	Production (tons)	Number of Holding	Area Planted (ha)	Production (tons)
Agricultural Households	Dodoma	-	-	-	-	-	-
	Arusha	-	-	-	19,169	6,871	9,413
	Kilimanjaro	-	-	-	169,226	65,972	157,299
	Tanga	4,588	1,648	194	34,732	8,455	15,198
	Morogoro	-	-	-	76,099	27,441	71,742
	Pwani	-	-	-	28,429	2,621	6,121
	Dar es Salaam	-	-	-	22,090	26,933	46,583
	Lindi	-	-	-	-	-	-
	Mtwara	-	-	-	-	-	-
	Ruvuma	-	-	-	41,225	6,794	30,823
	Iringa	-	-	-	10,014	860	2,582
	Mbeya	-	-	-	70,269	30,776	227,717
	Singida	-	-	-	8,615	345	794
	Tabora	-	-	-	-	-	-
	Rukwa	-	-	-	-	-	-
	Kigoma	-	-	-	-	-	-
	Shinyanga	-	-	-	5,518	440	525
	Kagera	-	-	-	436,346	177,926	672,236
	Mwanza	-	-	-	18,709	1,133	2,092
	Mara	-	-	-	15,499	6,513	16,866
	Manyara	-	-	-	10,184	2,785	26,330
	Njombe	-	-	-	-	-	-
	Katavi	-	-	-	-	-	-
	Simiyu	-	-	-	-	-	-
	Geita	-	-	-	22,395	3,598	3,784
	Songwe	-	-	-	7,620	1,078	2,941
	<b>Mainland Tanzania</b>	<b>5,051</b>	<b>1,673</b>	<b>195</b>	<b>1,003,125</b>	<b>371,019</b>	<b>1,294,765</b>
	Kaskazini Unguja	614	166	37	10,881	3,617	12,291
	Kusini Unguja	1,159	316	69	15,544	3,620	13,945
	Mjini Magharibi	-	-	-	22,784	3,900	11,331
	Kaskazini Pemba	1,623	1,522	1,074	12,266	2,738	5,508
	Kusini Pemba	1,292	922	462	21,863	9,158	14,441
	Zanzibar	<b>4,687</b>	<b>2,925</b>	<b>1,642</b>	<b>83,338</b>	<b>23,033</b>	<b>57,516</b>
	<b>Tanzania</b>	<b>9,738</b>	<b>4,599</b>	<b>1,837</b>	<b>1,086,464</b>	<b>394,052</b>	<b>1,352,281</b>
Large Scale Farms	Mainland Tanzania	-	-	-	38	464	413
	Zanzibar	-	-	-	4	3	1
	<b>Tanzania</b>	-	-	-	<b>42</b>	<b>467</b>	<b>414</b>
All Holdings	Mainland Tanzania		1,685	198		371,483	1,295,178
	Zanzibar		3,721	1,642		23,036	57,517
	<b>Tanzania</b>		<b>5,406</b>	<b>1,840</b>		<b>394,519</b>	<b>1,352,695</b>

“ - ” Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Areas, Production, Yield by Crop During the 2022/23 Agricultural Year, Tanzania – Short Rainy Season**

Holding Category	Region	Cabbage					Tomatoes				
		Number of holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)	Number of holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)
Agricultural Households	Dodoma	-	-	-	-	-	-	-	-	-	-
	Arusha	-	-	-	-	-	-	-	-	-	-
	Kilimanjaro	-	-	-	-	-	5,042	2,353	1,061	9,423	8.9
	Tanga	-	-	-	-	-	6,534	1,377	737	10,539	14.3
	Morogoro	-	-	-	-	-	-	-	-	-	-
	Pwani	-	-	-	-	-	-	-	-	-	-
	Dar es Salaam	-	-	-	-	-	-	-	-	-	-
	Lindi	-	-	-	-	-	-	-	-	-	-
	Mtwara	-	-	-	-	-	-	-	-	-	-
	Ruvuma	-	-	-	-	-	-	-	-	-	-
	Iringa	-	-	-	-	-	3,079	1,391	1,137	16,770	14.7
	Mbeya	-	-	-	-	-	-	-	-	-	-
	Singida	-	-	-	-	-	-	-	-	-	-
	Tabora	-	-	-	-	-	3,574	1,030	885	3,638	4.1
	Rukwa	-	-	-	-	-	-	-	-	-	-
	Kigoma	-	-	-	-	-	-	-	-	-	-
	Shinyanga	-	-	-	-	-	-	-	-	-	-
	Kagera	-	-	-	-	-	3,399	350	168	209	1.2
	Mwanza	2,051	548	548	7,447	13.6	3,561	813	578	6,055	10.5
	Mara	-	-	-	-	-	3,712	1,386	897	6,070	6.8
	Manyara	-	-	-	-	-	-	-	-	-	-
	Njombe	-	-	-	-	-	-	-	-	-	-
	Katavi	-	-	-	-	-	-	-	-	-	-
	Simiyu	-	-	-	-	-	-	-	-	-	-
	Geita	-	-	-	-	-	5,034	1,740	1,436	10,392	7.2
	Songwe	-	-	-	-	-	1,190	843	831	574	0.7
	<b>Mainland Tanzania</b>	<b>10,751</b>	<b>2,490</b>	<b>2,140</b>	<b>47,158</b>	<b>22.0</b>	<b>52,441</b>	<b>15,944</b>	<b>11,859</b>	<b>94,237</b>	<b>7.9</b>
	Kaskazini Unguja	-	-	-	-	-	1,326	204	193	2,526	13.1
	Kusini Unguja	-	-	-	-	-	2,410	163	162	1,478	9.1
	Mjini Magharibi	-	-	-	-	-	596	328	325	947	2.9
	Kaskazini Pemba	-	-	-	-	-	838	245	217	3,088	14.2
	Kusini Pemba	-	-	-	-	-	1,338	668	634	11,963	18.9
	<b>Zanzibar</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>6,508</b>	<b>1,607</b>	<b>1,531</b>	<b>20,002</b>	<b>13.1</b>
	<b>Tanzania</b>	<b>10,789</b>	<b>2,494</b>	<b>2,143</b>	<b>47,162</b>	<b>22.0</b>	<b>58,949</b>	<b>17,551</b>	<b>13,390</b>	<b>114,240</b>	<b>8.5</b>
Large Scale Farms	Mainland Tanzania	3	11	11	586	55.6	18	25	22	242	10.8
	Zanzibar	-	-	-	-	-	4	1	1	17	14.2
	<b>Tanzania</b>	<b>3</b>	<b>11</b>	<b>11</b>	<b>586</b>	<b>55.6</b>	<b>22</b>	<b>26</b>	<b>24</b>	<b>259</b>	<b>11.0</b>
All Holdings	Mainland Tanzania		2,502	2,151	47,744	22.2		15,969	11,881	94,479	8.0
	Zanzibar		-	-	-	-		1,608	1,533	20,020	13.1
	<b>Tanzania</b>		<b>2,505</b>	<b>2,154</b>	<b>47,748</b>	<b>22.2</b>		<b>17,577</b>	<b>13,414</b>	<b>114,498</b>	<b>8.5</b>

“-” Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Areas, Production, Yield by Crop During the 2022/23 Agricultural Year, Tanzania – Short Rainy Season**

Holding Category	Region	Bitter tomato					Sweet bell pepper				
		Number of holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)	Number of holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)
Agricultural Households	Dodoma	-	-	-	-	-	-	-	-	-	-
	Arusha	1,293	394	172	722	4.2	-	-	-	-	-
	Kilimanjaro	-	-	-	-	-	-	-	-	-	-
	Tanga	-	-	-	-	-	2,700	1,671	284	620	2.2
	Morogoro	-	-	-	-	-	-	-	-	-	-
	Pwani	-	-	-	-	-	-	-	-	-	-
	Dar es Salaam	-	-	-	-	-	-	-	-	-	-
	Lindi	-	-	-	-	-	-	-	-	-	-
	Mtwara	-	-	-	-	-	-	-	-	-	-
	Ruvuma	-	-	-	-	-	-	-	-	-	-
	Iringa	-	-	-	-	-	-	-	-	-	-
	Mbeya	-	-	-	-	-	-	-	-	-	-
	Singida	-	-	-	-	-	-	-	-	-	-
	Tabora	-	-	-	-	-	-	-	-	-	-
	Rukwa	-	-	-	-	-	-	-	-	-	-
	Kigoma	-	-	-	-	-	-	-	-	-	-
	Shinyanga	-	-	-	-	-	-	-	-	-	-
	Kagera	3,520	398	294	2,170	7.4	-	-	-	-	-
	Mwanza	-	-	-	-	-	-	-	-	-	-
	Mara	-	-	-	-	-	-	-	-	-	-
	Manyara	-	-	-	-	-	-	-	-	-	-
	Njombe	-	-	-	-	-	-	-	-	-	-
	Katavi	-	-	-	-	-	-	-	-	-	-
	Simiyu	-	-	-	-	-	-	-	-	-	-
	Geita	-	-	-	-	-	-	-	-	-	-
	Songwe	-	-	-	-	-	-	-	-	-	-
	<b>Mainland Tanzania</b>	<b>16,514</b>	<b>2,685</b>	<b>1,571</b>	<b>9,465</b>	<b>6.0</b>	<b>11,991</b>	<b>3,596</b>	<b>1,831</b>	<b>10,259</b>	<b>5.6</b>
	Kaskazini Unguja	637	73	62	322	5.2	-	-	-	-	-
	Kusini Unguja	505	194	140	225	1.6	712	146	146	502	3.4
	Mjini Magharibi	479	15	15	64	4.2	1,530	242	237	283	1.2
	Kaskazini Pemba	412	22	21	159	7.5	216	6	6	18	3.0
	Kusini Pemba	-	-	-	-	-	-	-	-	-	-
	<b>Zanzibar</b>	<b>2,219</b>	<b>323</b>	<b>256</b>	<b>774</b>	<b>3.0</b>	<b>2,685</b>	<b>485</b>	<b>481</b>	<b>1,538</b>	<b>3.2</b>
	<b>Tanzania</b>	<b>18,732</b>	<b>3,008</b>	<b>1,828</b>	<b>10,239</b>	<b>5.6</b>	<b>14,675</b>	<b>4,082</b>	<b>2,312</b>	<b>11,797</b>	<b>5.1</b>
Large Scale Farms	Mainland Tanzania	3	1	1	3	2.7	9	15	4	27	7.5
	Zanzibar	-	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	<b>4</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>2.7</b>	<b>11</b>	<b>16</b>	<b>4</b>	<b>28</b>	<b>6.3</b>
All Holdings	Mainland Tanzania		2,686	1,572	9,468	6.0		3,611	1,835	10,286	5.6
	Zanzibar		324	257	774	3.0		486	481	1,539	3.2
	<b>Tanzania</b>		<b>3,010</b>	<b>1,829</b>	<b>10,242</b>	<b>5.6</b>		<b>4,098</b>	<b>2,316</b>	<b>11,825</b>	<b>5.1</b>

“-” Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Areas, Production, Yield by Crop During the 2022/23 Agricultural Year, Tanzania – Long Rainy Season**

Holding Category	Region	Cabbage					Tomatoes				
		Number of holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)	Number of holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)
Agricultural Households	Dodoma	-	-	-	-	-	-	-	-	-	-
	Arusha	-	-	-	-	-	1,802	405	369	12,157	32.9
	Kilimanjaro	-	-	-	-	-	2,601	1,177	742	35,448	47.8
	Tanga	2,296	667	535	1,001	1.9	6,528	1,796	734	8,411	11.5
	Morogoro	6,250	1,265	316	161	0.5	5,340	809	796	5,724	7.2
	Pwani	-	-	-	-	-	2,553	280	155	1,944	12.5
	Dar es Salaam	-	-	-	-	-	-	-	-	-	-
	Lindi	-	-	-	-	-	3,874	1,627	715	9,809	13.7
	Mtwara	-	-	-	-	-	3,061	2,196	1,652	2,200	1.3
	Ruvuma	-	-	-	-	-	-	-	-	-	-
	Iringa	-	-	-	-	-	6,034	2,928	2,698	72,999	27.1
	Mbeya	-	-	-	-	-	3,051	1,579	957	12,990	13.6
	Singida	-	-	-	-	-	-	-	-	-	-
	Tabora	-	-	-	-	-	2,542	417	221	2,720	12.3
	Rukwa	-	-	-	-	-	-	-	-	-	-
	Kigoma	-	-	-	-	-	-	-	-	-	-
	Shinyanga	-	-	-	-	-	2,489	1,063	555	9,063	16.3
	Kagera	-	-	-	-	-	8,113	2,040	1,408	14,302	10.2
	Mwanza	-	-	-	-	-	6,248	3,341	3,291	27,493	8.4
	Mara	-	-	-	-	-	3,900	1,540	1,001	6,136	6.1
	Manyara	-	-	-	-	-	1,073	167	107	1,290	12.1
	Njombe	-	-	-	-	-	-	-	-	-	-
	Katavi	-	-	-	-	-	2,489	199	178	4,157	23.3
	Simiyu	-	-	-	-	-	-	-	-	-	-
	Geita	2,881	964	446	3,088	6.9	4,274	2,145	1,471	6,570	4.5
	Songwe	-	-	-	-	-	-	-	-	-	-
	<b>Mainland Tanzania</b>	<b>15,267</b>	<b>3,478</b>	<b>1,847</b>	<b>21,085</b>	<b>11.4</b>	<b>73,291</b>	<b>25,048</b>	<b>18,106</b>	<b>249,583</b>	<b>13.8</b>
	Kaskazini Unguja	-	-	-	-	-	1,809	194	131	459	3.5
	Kusini Unguja	-	-	-	-	-	2,333	92	83	263	3.2
	Mjini Magharibi	-	-	-	-	-	1,287	443	363	2,424	6.7
	Kaskazini Pemba	-	-	-	-	-	1,375	404	299	2,485	8.3
	Kusini Pemba	-	-	-	-	-	1,191	414	405	8,864	21.9
	<b>Zanzibar</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>7,995</b>	<b>1,546</b>	<b>1,282</b>	<b>14,495</b>	<b>11.3</b>
	<b>Tanzania</b>	<b>15,386</b>	<b>3,497</b>	<b>1,854</b>	<b>21,230</b>	<b>11.4</b>	<b>81,286</b>	<b>26,594</b>	<b>19,388</b>	<b>264,079</b>	<b>13.6</b>
Large Scale Farms	Mainland Tanzania	6	2	2	6	3.8	21	33	31	196	6.2
	Zanzibar	-	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	<b>6</b>	<b>2</b>	<b>2</b>	<b>6</b>	<b>3.8</b>	<b>23</b>	<b>33</b>	<b>32</b>	<b>201</b>	<b>6.3</b>
All Holdings	Mainland Tanzania		3,480	1,849	21,091	11.4		25,080	18,138	249,779	13.8
	Zanzibar		-	-	-	-		1,547	1,282	14,501	11.3
	<b>Tanzania</b>		<b>3,500</b>	<b>1,856</b>	<b>21,236</b>	<b>11.4</b>		<b>26,627</b>	<b>19,420</b>	<b>264,280</b>	<b>13.6</b>

“-” Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)



**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Areas, Production, Yield by Crop During the 2022/23 Agricultural Year, Tanzania – Long Rainy Season**

Holding Category	Region	Bitter tomato					Sweet bell pepper				
		Number of holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)	Number of holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)
Agricultural Households	Dodoma	-	-	-	-	-	-	-	-	-	-
	Arusha	3,128	780	410	549	1.3	-	-	-	-	-
	Kilimanjaro	-	-	-	-	-	2,292	294	47	198	4.2
	Tanga	-	-	-	-	-	2,363	282	80	205	2.6
	Morogoro	6,619	1,967	1,714	3,408	2.0	-	-	-	-	-
	Pwani	-	-	-	-	-	-	-	-	-	-
	Dar es Salaam	-	-	-	-	-	-	-	-	-	-
	Lindi	-	-	-	-	-	-	-	-	-	-
	Mtwara	-	-	-	-	-	-	-	-	-	-
	Ruvuma	-	-	-	-	-	-	-	-	-	-
	Iringa	-	-	-	-	-	-	-	-	-	-
	Mbeya	-	-	-	-	-	-	-	-	-	-
	Singida	-	-	-	-	-	-	-	-	-	-
	Tabora	-	-	-	-	-	-	-	-	-	-
	Rukwa	-	-	-	-	-	-	-	-	-	-
	Kigoma	-	-	-	-	-	-	-	-	-	-
	Shinyanga	-	-	-	-	-	-	-	-	-	-
	Kagera	8,168	854	664	5,808	8.7	-	-	-	-	-
	Mwanza	-	-	-	-	-	-	-	-	-	-
	Mara	-	-	-	-	-	-	-	-	-	-
	Manyara	-	-	-	-	-	-	-	-	-	-
	Njombe	-	-	-	-	-	-	-	-	-	-
	Katavi	-	-	-	-	-	-	-	-	-	-
	Simiyu	-	-	-	-	-	-	-	-	-	-
	Geita	1,862	234	234	2,441	10.4	-	-	-	-	-
	Songwe	-	-	-	-	-	-	-	-	-	-
	<b>Mainland Tanzania</b>	<b>25,212</b>	<b>4,540</b>	<b>3,488</b>	<b>13,547</b>	<b>3.9</b>	<b>14,363</b>	<b>2,957</b>	<b>1,303</b>	<b>3,799</b>	<b>2.9</b>
	Kaskazini Unguja	486	208	178	269	1.5	-	-	-	-	-
	Kusini Unguja	829	218	52	56	1.1	587	96	96	166	1.7
	Mjini Magharibi	-	-	-	-	-	1,530	430	293	155	0.5
	Kaskazini Pemba	188	18	18	100	5.5	216	13	11	54	5.0
	Kusini Pemba	-	-	-	-	-	-	-	-	-	-
	<b>Zanzibar</b>	<b>2,046</b>	<b>467</b>	<b>268</b>	<b>473</b>	<b>1.8</b>	<b>2,333</b>	<b>538</b>	<b>399</b>	<b>374</b>	<b>0.9</b>
	<b>Tanzania</b>	<b>27,259</b>	<b>5,007</b>	<b>3,756</b>	<b>14,020</b>	<b>3.7</b>	<b>16,696</b>	<b>3,496</b>	<b>1,702</b>	<b>4,173</b>	<b>2.5</b>
Large Scale Farms	Mainland Tanzania	10	4	4	24	6.3	9	3	3	9	2.6
	Zanzibar	-	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	<b>11</b>	<b>5</b>	<b>5</b>	<b>24</b>	<b>5.2</b>	<b>10</b>	<b>4</b>	<b>4</b>	<b>9</b>	<b>2.3</b>
<b>All Holdings</b>	<b>Mainland Tanzania</b>		<b>4,544</b>	<b>3,492</b>	<b>13,571</b>	<b>3.9</b>		<b>2,961</b>	<b>1,306</b>	<b>3,808</b>	<b>2.9</b>
	<b>Zanzibar</b>		<b>467</b>	<b>268</b>	<b>473</b>	<b>1.8</b>		<b>539</b>	<b>400</b>	<b>374</b>	<b>0.9</b>
	<b>Tanzania</b>		<b>5,012</b>	<b>3,760</b>	<b>14,043</b>	<b>3.7</b>		<b>3,500</b>	<b>1,706</b>	<b>4,182</b>	<b>2.5</b>

“-” Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Areas, Production, Yield by Crop During the 2022/23 Agricultural Year, Tanzania – Agricultural Year**

Holding Category	Region	Avocado				Mango			
		Number of holdings	Area Planted (ha)	Production (tons)	Yield (tons/ha)	Number of holdings	Area Planted (ha)	Production (tons)	Yield (tons/ha)
Agricultural Households	Dodoma	-	-	-	-	-	-	-	-
	Arusha	2,320	340	785	2.3	-	-	-	-
	Kilimanjaro	58,649	5,242	11,586	2.2	21,718	985	1,353	1.4
	Tanga	3,218	261	170	0.7	11,648	3,703	3,914	1.1
	Morogoro	2,372	40	166	4.2	23,217	2,499	3,644	1.5
	Pwani	-	-	-	-	15,669	773	1,266	1.6
	Dar es Salaam	-	-	-	-	16,326	55,994	446,647	8.0
	Lindi	-	-	-	-	-	-	-	-
	Mtwara	-	-	-	-	5,343	1,736	1,527	0.9
	Ruvuma	6,669	647	645	1.0	40,068	8,224	36,117	4.4
	Iringa	7,404	346	461	1.3	1,499	32	210	6.5
	Mbeya	13,801	5,693	10,314	1.8	-	-	-	-
	Singida	-	-	-	-	10,999	1,423	2,872	2.0
	Tabora	-	-	-	-	-	-	-	-
	Rukwa	-	-	-	-	-	-	-	-
	Kigoma	-	-	-	-	-	-	-	-
	Shinyanga	-	-	-	-	8,115	250	8,852	35.4
	Kagera	130,160	14,540	33,373	2.3	95,850	6,473	22,184	3.4
	Mwanza	7,126	557	2,142	3.8	11,860	108	1,563	14.5
	Mara	2,800	285	1,624	5.7	-	-	-	-
	Manyara	3,767	96	687	7.2	2,470	69	192	2.8
	Njombe	12,680	7,446	2,916	0.4	-	-	-	-
	Katavi	-	-	-	-	-	-	-	-
	Simiyu	-	-	-	-	-	-	-	-
	Geita	8,175	224	488	2.2	19,484	4,549	4,518	1.0
	Songwe	4,033	260	1,111	4.3	7,901	723	2,217	3.1
	<b>Mainland Tanzania</b>	<b>266,022</b>	<b>36,516</b>	<b>66,568</b>	<b>1.8</b>	<b>292,931</b>	<b>87,977</b>	<b>538,401</b>	<b>6.1</b>
	Kaskazini Unguja	-	-	-	-	2,500	828	1,765	2.1
	Kusini Unguja	1,724	186	694	3.7	4,818	590	23,303	39.5
	Mjini Magharibi	-	-	-	-	1,485	326	867	2.7
	Kaskazini Pemba	352	20	8	0.4	481	43	10	0.2
	Kusini Pemba	-	-	-	-	1,552	541	1,016	1.9
	<b>Zanzibar</b>	<b>2,403</b>	<b>216</b>	<b>718</b>	<b>3.3</b>	<b>10,835</b>	<b>2,328</b>	<b>26,961</b>	<b>11.6</b>
	<b>Tanzania</b>	<b>268,424</b>	<b>36,731</b>	<b>67,286</b>	<b>1.8</b>	<b>303,766</b>	<b>90,305</b>	<b>565,362</b>	<b>6.3</b>
Large Scale Farms	Mainland Tanzania	40	4,328	8,266	1.9	34	767	864	1.1
	Zanzibar	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	<b>40</b>	<b>4,328</b>	<b>8,266</b>	<b>1.9</b>	<b>36</b>	<b>768</b>	<b>864</b>	<b>1.1</b>
All Holdings	Mainland Tanzania		40,844	74,835	1.8		88,744	539,265	6.1
	Zanzibar		216	718	3.3		2,329	26,961	11.6
	<b>Tanzania</b>		<b>41,059</b>	<b>75,552</b>	<b>1.8</b>		<b>91,073</b>	<b>566,226</b>	<b>6.2</b>

“-” Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Areas, Production, Yield by Crop During the 2022/23 Agricultural Year, Tanzania – Agricultural Year**

Holding Category	Region	Pineapple				Orange			
		Number of holdings	Area Planted (ha)	Production (tons)	Yield (tons/ha)	Number of holdings	Area Planted (ha)	Production (tons)	Yield (tons/ha)
Agricultural Households	Dodoma	-	-	-	-	-	-	-	-
	Arusha	-	-	-	-	-	-	-	-
	Kilimanjaro	-	-	-	-	3,191	168	60	0.4
	Tanga	-	-	-	-	19,285	22,617	56,980	2.5
	Morogoro	3,869	43	156	3.6	9,905	150	2,126	14.2
	Pwani	3,337	818	328	0.4	7,537	9,627	26,456	2.7
	Dar es Salaam	2,207	1,824	2,865	1.6	5,139	696	577	0.8
	Lindi	-	-	-	-	-	-	-	-
	Mtwara	-	-	-	-	-	-	-	-
	Ruvuma	-	-	-	-	1,838	617	396	0.6
	Iringa	-	-	-	-	-	-	-	-
	Mbeya	-	-	-	-	-	-	-	-
	Singida	-	-	-	-	-	-	-	-
	Tabora	-	-	-	-	-	-	-	-
	Rukwa	-	-	-	-	-	-	-	-
	Kigoma	-	-	-	-	-	-	-	-
	Shinyanga	-	-	-	-	3,612	36	167	4.6
	Kagera	6,290	716	243	0.3	11,573	1,492	3,379	2.3
	Mwanza	-	-	-	-	12,505	471	7,003	14.9
	Mara	-	-	-	-	-	-	-	-
	Manyara	-	-	-	-	2,248	61	232	3.8
	Njombe	-	-	-	-	-	-	-	-
	Katavi	-	-	-	-	-	-	-	-
	Simiyu	-	-	-	-	-	-	-	-
	Geita	-	-	-	-	9,926	1,043	1,068	1.0
	Songwe	-	-	-	-	2,411	96	329	3.4
	<b>Mainland Tanzania</b>	<b>18,816</b>	<b>3,943</b>	<b>3,906</b>	<b>1.0</b>	<b>90,772</b>	<b>38,328</b>	<b>106,478</b>	<b>2.8</b>
	Kaskazini Unguja	795	127	108	0.9	1,323	213	627	2.9
	Kusini Unguja	720	266	125	0.5	4,113	762	2,537	3.3
	Mjini Magharibi	2,045	498	150	0.3	1,102	306	404	1.3
	Kaskazini Pemba	754	171	57	0.3	-	-	-	-
	Kusini Pemba	886	239	121	0.5	-	-	-	-
	<b>Zanzibar</b>	<b>5,199</b>	<b>1,301</b>	<b>561</b>	<b>0.4</b>	<b>6,885</b>	<b>1,330</b>	<b>3,668</b>	<b>2.8</b>
	<b>Tanzania</b>	<b>24,015</b>	<b>5,243</b>	<b>4,467</b>	<b>0.9</b>	<b>97,657</b>	<b>39,658</b>	<b>110,146</b>	<b>2.8</b>
Large Scale Farms	Mainland Tanzania	6	183	608	3.3	21	105	310	2.9
	Zanzibar	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	<b>6</b>	<b>183</b>	<b>608</b>	<b>3.3</b>	<b>22</b>	<b>106</b>	<b>317</b>	<b>3.0</b>
All Holdings	Mainland Tanzania		4,126	4,514	1.1		38,433	106,788	2.8
	Zanzibar		1,301	561	0.4		1,331	3,675	2.8
	<b>Tanzania</b>		<b>5,426</b>	<b>5,075</b>	<b>0.9</b>		<b>39,764</b>	<b>110,463</b>	<b>2.8</b>

“-” Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Areas, Production, Yield by Crop During the 2022/23 Agricultural Year, Tanzania – Agricultural Year**

Holding Category	Region	Grapes				Cabbage				
		Number of holdings	Area Planted (ha)	Production (tons)	Yield (tons/ha)	Number of holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)
Agricultural Households	Dodoma	-	-	-	-	-	-	-	-	-
	Arusha	-	-	-	-	1,158	111	49	3,560	73.3
	Kilimanjaro	-	-	-	-	-	-	-	-	-
	Tanga	-	-	-	-	2,745	757	608	1,450	2.4
	Morogoro	-	-	-	-	7,812	1,581	506	11,098	21.9
	Pwani	-	-	-	-	-	-	-	-	-
	Dar es Salaam	-	-	-	-	-	-	-	-	-
	Lindi	-	-	-	-	-	-	-	-	-
	Mtwara	-	-	-	-	-	-	-	-	-
	Ruvuma	-	-	-	-	-	-	-	-	-
	Iringa	-	-	-	-	-	-	-	-	-
	Mbeya	-	-	-	-	-	-	-	-	-
	Singida	-	-	-	-	-	-	-	-	-
	Tabora	-	-	-	-	-	-	-	-	-
	Rukwa	-	-	-	-	-	-	-	-	-
	Kigoma	-	-	-	-	-	-	-	-	-
	Shinyanga	-	-	-	-	-	-	-	-	-
	Kagera	-	-	-	-	-	-	-	-	-
	Mwanza	-	-	-	-	2,051	548	548	7,447	13.6
	Mara	-	-	-	-	-	-	-	-	-
	Manyara	-	-	-	-	-	-	-	-	-
	Njombe	-	-	-	-	-	-	-	-	-
	Katavi	-	-	-	-	-	-	-	-	-
	Simiyu	-	-	-	-	-	-	-	-	-
	Geita	-	-	-	-	2,881	1,202	654	3,974	6.1
	Songwe	-	-	-	-	-	-	-	-	-
	<b>Mainland Tanzania</b>	-	-	-	-	<b>25,110</b>	<b>5,968</b>	<b>3,987</b>	<b>68,243</b>	<b>17.1</b>
	Kaskazini Unguja	-	-	-	-	-	-	-	-	-
	Kusini Unguja	-	-	-	-	-	-	-	-	-
	Mjini Magharibi	-	-	-	-	-	-	-	-	-
	Kaskazini Pemba	-	-	-	-	-	-	-	-	-
	Kusini Pemba	-	-	-	-	-	-	-	-	-
	<b>Zanzibar</b>	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	-	-	-	-	<b>25,229</b>	<b>5,991</b>	<b>3,998</b>	<b>68,393</b>	<b>17.1</b>
Large Scale Farms	Mainland Tanzania	7	74	3,535	47.8	8	14	12	591	49.1
	Zanzibar	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	<b>7</b>	<b>74</b>	<b>3,535</b>	<b>47.8</b>	<b>8</b>	<b>14</b>	<b>12</b>	<b>591</b>	<b>49.1</b>
All Holdings	Mainland Tanzania		1,105	3,572	3.2		5,982	4,000	68,835	17.2
	Zanzibar		-	-	-		-	-	-	-
	<b>Tanzania</b>		<b>1,105</b>	<b>3,572</b>	<b>3.2</b>		<b>6,005</b>	<b>4,010</b>	<b>68,984</b>	<b>17.2</b>

“-” Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Areas, Production, Yield by Crop During the 2022/23 Agricultural Year, Tanzania – Agricultural Year**

Holding Category	Region	Tomatoes					Bitter tomato				
		Number of holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)	Number of holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)
Agricultural Households	Dodoma	-	-	-	-	-	-	-	-	-	-
	Arusha	2,126	420	384	12,236	31.9	3,638	1,174	583	1,270	2.2
	Kilimanjaro	7,206	3,530	1,803	44,870	24.9	-	-	-	-	-
	Tanga	10,791	3,173	1,471	18,950	12.9	-	-	-	-	-
	Morogoro	6,903	1,125	955	9,245	9.7	7,545	1,971	1,718	3,443	2.0
	Pwani	5,494	346	221	1,997	9.0	3,334	146	134	529	4.0
	Dar es Salaam	-	-	-	-	-	-	-	-	-	-
	Lindi	3,874	1,759	846	9,939	11.7	-	-	-	-	-
	Mtwara	3,061	3,096	2,552	3,920	1.5	-	-	-	-	-
	Ruvuma	-	-	-	-	-	-	-	-	-	-
	Iringa	8,542	4,319	3,835	89,769	23.4	-	-	-	-	-
	Mbeya	4,523	3,079	2,457	13,013	5.3	-	-	-	-	-
	Singida	4,132	375	201	2,494	12.4	-	-	-	-	-
	Tabora	5,506	1,446	1,106	6,358	5.7	-	-	-	-	-
	Rukwa	-	-	-	-	-	-	-	-	-	-
	Kigoma	-	-	-	-	-	-	-	-	-	-
	Shinyanga	3,522	1,909	1,292	25,374	19.6	-	-	-	-	-
	Kagera	9,542	2,390	1,576	14,511	9.2	9,072	1,252	958	7,978	8.3
	Mwanza	9,067	4,153	3,869	33,548	8.7	-	-	-	-	-
	Mara	5,234	2,926	1,898	12,206	6.4	-	-	-	-	-
	Manyara	1,583	600	386	6,908	17.9	-	-	-	-	-
	Njombe	-	-	-	-	-	-	-	-	-	-
	Katavi	2,489	199	178	4,157	23.3	-	-	-	-	-
	Simiyu	-	-	-	-	-	-	-	-	-	-
	Geita	7,502	3,885	2,908	16,962	5.8	1,862	234	234	2,441	10.4
	Songwe	1,190	1,077	1,065	1,267	1.2	-	-	-	-	-
	<b>Mainland Tanzania</b>	<b>109,520</b>	<b>40,992</b>	<b>29,965</b>	<b>343,820</b>	<b>11.5</b>	<b>37,784</b>	<b>7,225</b>	<b>5,059</b>	<b>23,012</b>	<b>4.5</b>
	Kaskazini Unguja	2,271	398	325	2,985	9.2	787	281	239	591	2.5
	Kusini Unguja	3,223	254	245	1,741	7.1	829	413	192	281	1.5
	Mjini Magharibi	1,287	771	689	3,371	4.9	479	18	18	104	5.8
	Kaskazini Pemba	1,816	648	516	5,573	10.8	412	40	39	259	6.6
	Kusini Pemba	1,693	1,082	1,039	20,828	20.1	-	-	-	-	-
	<b>Zanzibar</b>	<b>10,291</b>	<b>3,153</b>	<b>2,813</b>	<b>34,498</b>	<b>12.3</b>	<b>2,693</b>	<b>790</b>	<b>524</b>	<b>1,246</b>	<b>2.4</b>
	<b>Tanzania</b>	<b>119,811</b>	<b>44,145</b>	<b>32,778</b>	<b>378,318</b>	<b>11.5</b>	<b>40,477</b>	<b>8,015</b>	<b>5,583</b>	<b>24,258</b>	<b>4.3</b>
Large Scale Farms	Mainland Tanzania	26	57	54	437	8.2	10	5	5	26	5.5
	Zanzibar	4	2	2	22	12.3	-	-	-	-	-
	<b>Tanzania</b>	<b>30</b>	<b>59</b>	<b>55</b>	<b>460</b>	<b>8.3</b>	<b>11</b>	<b>6</b>	<b>6</b>	<b>27</b>	<b>4.7</b>
All Holding	Mainland Tanzania		41,049	30,019	344,258	11.5		7,231	5,064	23,038	4.5
	Zanzibar		3,155	2,815	34,520	12.3		791	525	1,247	2.4
	<b>Tanzania</b>		<b>44,204</b>	<b>32,834</b>	<b>378,778</b>	<b>11.5</b>		<b>8,021</b>	<b>5,589</b>	<b>24,285</b>	<b>4.3</b>

“-” Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Areas, Production, Yield by Crop During the 2022/23 Agricultural Year, Tanzania – Agricultural Year**

Holding Category	Region	Sweet bell pepper				
		Number of holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)
Agricultural Households	Dodoma	-	-	-	-	-
	Arusha	-	-	-	-	-
	Kilimanjaro	2,880	536	170	209	1.2
	Tanga	4,622	1,953	364	825	2.3
	Morogoro	-	-	-	-	-
	Pwani	-	-	-	-	-
	Dar es Salaam	-	-	-	-	-
	Lindi	-	-	-	-	-
	Mtwara	-	-	-	-	-
	Ruvuma	-	-	-	-	-
	Iringa	1,544	456	295	516	1.8
	Mbeya	-	-	-	-	-
	Singida	-	-	-	-	-
	Tabora	-	-	-	-	-
	Rukwa	-	-	-	-	-
	Kigoma	-	-	-	-	-
	Shinyanga	-	-	-	-	-
	Kagera	-	-	-	-	-
	Mwanza	1,439	131	131	180	1.4
	Mara	-	-	-	-	-
	Manyara	905	248	170	343	2.0
	Njombe	-	-	-	-	-
	Katavi	-	-	-	-	-
	Simiyu	-	-	-	-	-
	Geita	-	-	-	-	-
	Songwe	-	-	-	-	-
	<b>Mainland Tanzania</b>	<b>24,118</b>	<b>6,554</b>	<b>3,134</b>	<b>14,058</b>	<b>4.5</b>
	Kaskazini Unguja	-	-	-	-	-
	Kusini Unguja	970	241	241	668	2.8
	Mjini Magharibi	1,530	671	530	438	0.8
	Kaskazini Pemba	297	19	17	72	4.3
	Kusini Pemba	-	-	-	-	-
	<b>Zanzibar</b>	<b>3,023</b>	<b>1,024</b>	<b>880</b>	<b>1,912</b>	<b>2.2</b>
	<b>Tanzania</b>	<b>27,141</b>	<b>7,577</b>	<b>4,014</b>	<b>15,970</b>	<b>4.0</b>
Large Scale Farms	Mainland Tanzania	13	18	7	36	5.2
	Zanzibar	-	-	-	-	-
	<b>Tanzania</b>	<b>15</b>	<b>20</b>	<b>8</b>	<b>37</b>	<b>4.4</b>
All Holdings	Mainland Tanzania		6,572	3,141	14,094	4.5
	Zanzibar		1,025	881	1,913	2.2
	<b>Tanzania</b>		<b>7,597</b>	<b>4,022</b>	<b>16,007</b>	<b>4.0</b>

“-” Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Areas, Production, Yield by Crop During the 2022/23 Agricultural Year, Tanzania - Short Rainy Season**

Holding Category	Region	Spinach					Carrot				
		Number of holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)	Number of holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)
Agricultural Households	Dodoma	-	-	-	-	-	-	-	-	-	-
	Arusha	1,481	95	95	55	0.6	2,919	1,423	187	2,100	11.2
	Kilimanjaro	-	-	-	-	-	-	-	-	-	-
	Tanga	-	-	-	-	-	-	-	-	-	-
	Morogoro	-	-	-	-	-	1,013	615	444	3,006	6.8
	Pwani	4,267	135	124	275	2.2	-	-	-	-	-
	Dar es Salaam	-	-	-	-	-	-	-	-	-	-
	Lindi	-	-	-	-	-	-	-	-	-	-
	Mtwara	-	-	-	-	-	-	-	-	-	-
	Ruvuma	-	-	-	-	-	-	-	-	-	-
	Iringa	-	-	-	-	-	-	-	-	-	-
	Mbeya	-	-	-	-	-	-	-	-	-	-
	Singida	-	-	-	-	-	-	-	-	-	-
	Tabora	-	-	-	-	-	-	-	-	-	-
	Rukwa	-	-	-	-	-	-	-	-	-	-
	Kigoma	-	-	-	-	-	-	-	-	-	-
	Shinyanga	-	-	-	-	-	-	-	-	-	-
	Kagera	-	-	-	-	-	-	-	-	-	-
	Mwanza	-	-	-	-	-	-	-	-	-	-
	Mara	-	-	-	-	-	-	-	-	-	-
	Manyara	-	-	-	-	-	-	-	-	-	-
	Njombe	-	-	-	-	-	-	-	-	-	-
	Katavi	-	-	-	-	-	-	-	-	-	-
	Simiyu	-	-	-	-	-	-	-	-	-	-
	Geita	-	-	-	-	-	-	-	-	-	-
	Songwe	-	-	-	-	-	-	-	-	-	-
	<b>Mainland Tanzania</b>	15,600	823	777	4,588	6	5,815	2,462	893	7,528	8.4
	Kaskazini Unguja	-	-	-	-	-	-	-	-	-	-
	Kusini Unguja	-	-	-	-	-	-	-	-	-	-
	Mjini Magharibi	-	-	-	-	-	-	-	-	-	-
	Kaskazini Pemba	-	-	-	-	-	-	-	-	-	-
	Kusini Pemba	-	-	-	-	-	-	-	-	-	-
	<b>Zanzibar</b>	-	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	15,758	834	778	4,588	5.9	5,815	2,462	893	7,528	8.4
Large Scale Farms	Mainland Tanzania	7	4	4	15	4.0	3	11	11	7	0.6
	Zanzibar	-	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	8	4	4	15	3.7	3	11	11	7	0.6
All Holdings	Mainland Tanzania		827	781	4,603	5.9		2,473	904	7,535	8.3
	Zanzibar		12	2	1	0.3		-	-	-	-
	<b>Tanzania</b>		838	783	4,604	5.9		2,473	904	7,535	8.3

“-” Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Areas, Production, Yield by Crop During the 2022/23 Agricultural Year, Tanzania – Short Rainy Season**

Holding Category	Region	Amaranth					Cucumber				
		Number of holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)	Number of holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)
Agricultural Households	Dodoma	-	-	-	-	-	-	-	-	-	-
	Arusha	2,155	203	133	370	2.8	-	-	-	-	-
	Kilimanjaro	-	-	-	-	-	-	-	-	-	-
	Tanga	-	-	-	-	-	-	-	-	-	-
	Morogoro	3,829	822	506	11,465	22.7	-	-	-	-	-
	Pwani	5,070	72	66	216	3.3	-	-	-	-	-
	Dar es Salaam	11,879	662	650	6,406	9.9	-	-	-	-	-
	Lindi	-	-	-	-	-	-	-	-	-	-
	Mtwara	-	-	-	-	-	-	-	-	-	-
	Ruvuma	-	-	-	-	-	-	-	-	-	-
	Iringa	-	-	-	-	-	-	-	-	-	-
	Mbeya	-	-	-	-	-	-	-	-	-	-
	Singida	-	-	-	-	-	-	-	-	-	-
	Tabora	-	-	-	-	-	-	-	-	-	-
	Rukwa	-	-	-	-	-	-	-	-	-	-
	Kigoma	-	-	-	-	-	-	-	-	-	-
	Shinyanga	-	-	-	-	-	-	-	-	-	-
	Kagera	-	-	-	-	-	-	-	-	-	-
	Mwanza	-	-	-	-	-	-	-	-	-	-
	Mara	-	-	-	-	-	-	-	-	-	-
	Manyara	-	-	-	-	-	-	-	-	-	-
	Njombe	-	-	-	-	-	-	-	-	-	-
	Katavi	-	-	-	-	-	-	-	-	-	-
	Simiyu	-	-	-	-	-	-	-	-	-	-
	Geita	-	-	-	-	-	-	-	-	-	-
	Songwe	-	-	-	-	-	-	-	-	-	-
	<b>Mainland Tanzania</b>	<b>33,561</b>	<b>3,370</b>	<b>2,899</b>	<b>23,241</b>	<b>8.0</b>	<b>4,483</b>	<b>342</b>	<b>260</b>	<b>2,054</b>	<b>7.9</b>
	Kaskazini Unguja	862	48	47	31	0.7	326	85	80	233	2.9
	Kusini Unguja	1,860	145	145	594	4.1	-	-	-	-	-
	Mjini Magharibi	2,653	46	45	79	1.8	-	-	-	-	-
	Kaskazini Pemba	852	68	68	52	0.8	-	-	-	-	-
	Kusini Pemba	-	-	-	-	-	-	-	-	-	-
	<b>Zanzibar</b>	<b>6,412</b>	<b>325</b>	<b>323</b>	<b>760</b>	<b>2.4</b>	<b>861</b>	<b>159</b>	<b>153</b>	<b>463</b>	<b>3.0</b>
	<b>Tanzania</b>	<b>39,974</b>	<b>3,695</b>	<b>3,223</b>	<b>24,001</b>	<b>7.4</b>	<b>5,343</b>	<b>502</b>	<b>414</b>	<b>2,517</b>	<b>6.1</b>
Large Scale Farms	Mainland Tanzania	13	4	4	35	9.5	6	11	11	24	2.3
	Zanzibar	4	1	1	3	2.3	-	-	-	-	-
	<b>Tanzania</b>	<b>17</b>	<b>5</b>	<b>5</b>	<b>39</b>	<b>7.6</b>	<b>6</b>	<b>11</b>	<b>11</b>	<b>24</b>	<b>2.3</b>
All Holdings	Mainland Tanzania		3,374	2,903	23,277	8.0		353	271	2,077	7.7
	Zanzibar		326	325	763	2.4		159	153	463	3.0
	<b>Tanzania</b>		<b>3,700</b>	<b>3,228</b>	<b>24,040</b>	<b>7.4</b>		<b>513</b>	<b>424</b>	<b>2,541</b>	<b>6.0</b>

“-” Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)



**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Areas, Production, Yield by Crop During the 2022/23 Agricultural Year, Tanzania - Short Rainy Season**

Holding Category	Region	Water Mellon					Okra				
		Number of holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)	Number of holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)
Agricultural Households	Dodoma	-	-	-	-	-	-	-	-	-	-
	Arusha	-	-	-	-	-	-	-	-	-	-
	Kilimanjaro	-	-	-	-	-	4,112	725	502	862	1.7
	Tanga	1,125	269	150	3,502	23.3	6,976	2,014	1,877	1,787	1.0
	Morogoro	-	-	-	-	-	5,301	462	352	83	0.2
	Pwani	-	-	-	-	-	8,920	820	738	2,116	2.9
	Dar es Salaam	-	-	-	-	-	5,842	457	404	2,715	6.7
	Lindi	-	-	-	-	-	-	-	-	-	-
	Mtwara	-	-	-	-	-	3,153	562	498	169	0.3
	Ruvuma	-	-	-	-	-	-	-	-	-	-
	Iringa	-	-	-	-	-	-	-	-	-	-
	Mbeya	-	-	-	-	-	-	-	-	-	-
	Singida	-	-	-	-	-	-	-	-	-	-
	Tabora	-	-	-	-	-	-	-	-	-	-
	Rukwa	-	-	-	-	-	-	-	-	-	-
	Kigoma	-	-	-	-	-	-	-	-	-	-
	Shinyanga	-	-	-	-	-	-	-	-	-	-
	Kagera	-	-	-	-	-	-	-	-	-	-
	Mwanza	-	-	-	-	-	2,195	321	275	754	2.7
	Mara	-	-	-	-	-	2,310	874	874	436	0.5
	Manyara	-	-	-	-	-	-	-	-	-	-
	Njombe	-	-	-	-	-	-	-	-	-	-
	Katavi	-	-	-	-	-	-	-	-	-	-
	Simiyu	-	-	-	-	-	-	-	-	-	-
	Geita	-	-	-	-	-	-	-	-	-	-
	Songwe	-	-	-	-	-	-	-	-	-	-
	<b>Mainland Tanzania</b>	<b>9,914</b>	<b>4,967</b>	<b>3,984</b>	<b>78,305</b>	<b>19.7</b>	<b>44,093</b>	<b>6,505</b>	<b>5,786</b>	<b>10,167</b>	<b>1.8</b>
	Kaskazini Unguja	-	-	-	-	-	536	47	39	116	3.0
	Kusini Unguja	376	110	95	1,772	18.7	755	143	143	269	1.9
	Mjini Magharibi	486	83	78	1,289	16.4	765	24	22	23	1.0
	Kaskazini Pemba	606	185	55	383	6.9	511	37	34	105	3.1
	Kusini Pemba	-	-	-	-	-	-	-	-	-	-
	<b>Zanzibar</b>	<b>1,508</b>	<b>417</b>	<b>259</b>	<b>4,297</b>	<b>16.6</b>	<b>2,900</b>	<b>294</b>	<b>282</b>	<b>574</b>	<b>2.0</b>
	<b>Tanzania</b>	<b>11,422</b>	<b>5,385</b>	<b>4,242</b>	<b>82,602</b>	<b>19.5</b>	<b>46,992</b>	<b>6,799</b>	<b>6,069</b>	<b>10,742</b>	<b>1.8</b>
Large Scale Farms	Mainland Tanzania	6	4	3	36	10.3	-	-	-	-	-
	Zanzibar	-	-	-	-	-	3	2	2	2	1.1
	<b>Tanzania</b>	<b>7</b>	<b>5</b>	<b>5</b>	<b>65</b>	<b>13.8</b>	<b>4</b>	<b>2</b>	<b>2</b>	<b>13</b>	<b>5.8</b>
All Holdings	Mainland Tanzania		4,971	3,987	78,341	19.6		6,505	5,787	10,179	1.8
	Zanzibar		418	260	4,326	16.7		296	284	576	2.0
	<b>Tanzania</b>		<b>5,390</b>	<b>4,247</b>	<b>82,667</b>	<b>19.5</b>		<b>6,801</b>	<b>6,071</b>	<b>10,755</b>	<b>1.8</b>

“-” Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Areas, Production, Yield by Crop During the 2022/23 Agricultural Year, Tanzania - Long Rainy Season**

Holding Category	Region	Spinach					Carrot				
		Number of holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)	Number of holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)
Agricultural Households	Dodoma	-	-	-	-	-	-	-	-	-	-
	Arusha	2,583	223	88	35	0.4	3,274	1,622	1,214	16,939	14.0
	Kilimanjaro	-	-	-	-	-	2,493	237	69	482	7.0
	Tanga	2,792	168	145	142	1.0	-	-	-	-	-
	Morogoro	-	-	-	-	-	2,702	1,955	653	5,729	8.8
	Pwani	-	-	-	-	-	-	-	-	-	-
	Dar es Salaam	-	-	-	-	-	-	-	-	-	-
	Lindi	-	-	-	-	-	-	-	-	-	-
	Mtwara	-	-	-	-	-	-	-	-	-	-
	Ruvuma	-	-	-	-	-	-	-	-	-	-
	Iringa	1,945	120	118	289	2.4	-	-	-	-	-
	Mbeya	-	-	-	-	-	-	-	-	-	-
	Singida	-	-	-	-	-	-	-	-	-	-
	Tabora	-	-	-	-	-	-	-	-	-	-
	Rukwa	-	-	-	-	-	-	-	-	-	-
	Kigoma	-	-	-	-	-	-	-	-	-	-
	Shinyanga	2,134	209	166	287	1.7	-	-	-	-	-
	Kagera	-	-	-	-	-	-	-	-	-	-
	Mwanza	-	-	-	-	-	-	-	-	-	-
	Mara	-	-	-	-	-	-	-	-	-	-
	Manyara	-	-	-	-	-	-	-	-	-	-
	Njombe	-	-	-	-	-	-	-	-	-	-
	Katavi	-	-	-	-	-	-	-	-	-	-
	Simiyu	-	-	-	-	-	-	-	-	-	-
	Geita	-	-	-	-	-	-	-	-	-	-
	Songwe	-	-	-	-	-	-	-	-	-	-
	<b>Mainland Tanzania</b>	<b>19,616</b>	<b>1,183</b>	<b>911</b>	<b>8,067</b>	<b>8.9</b>	<b>10,405</b>	<b>4,181</b>	<b>2,179</b>	<b>25,320</b>	<b>11.6</b>
	Kaskazini Unguja	-	-	-	-	-	-	-	-	-	-
	Kusini Unguja	-	-	-	-	-	-	-	-	-	-
	Mjini Magharibi	-	-	-	-	-	-	-	-	-	-
	Kaskazini Pemba	-	-	-	-	-	-	-	-	-	-
	Kusini Pemba	-	-	-	-	-	-	-	-	-	-
	<b>Zanzibar</b>	-	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	<b>19,774</b>	<b>1,194</b>	<b>912</b>	<b>8,068</b>	<b>8.8</b>	<b>10,405</b>	<b>4,181</b>	<b>2,179</b>	<b>25,320</b>	<b>11.6</b>
Large Scale Farms	Mainland Tanzania	11	4	4	16	3.8	-	-	-	-	-
	Zanzibar	-	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	<b>11</b>	<b>4</b>	<b>4</b>	<b>16</b>	<b>3.8</b>	-	-	-	-	-
All Holdings	Mainland Tanzania		1,187	915	8,084	8.8		4,181	2,180	25,321	11.6
	Zanzibar		-	-	-	-		-	-	-	-
	<b>Tanzania</b>		<b>1,199</b>	<b>916</b>	<b>8,084</b>	<b>8.8</b>		<b>4,181</b>	<b>2,180</b>	<b>25,321</b>	<b>11.6</b>

“-” Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Areas, Production, Yield by Crop During the 2022/23 Agricultural Year, Tanzania - Long Rainy Season**

Holding Category	Region	Amaranth					Cucumber				
		Number of holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)	Number of holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)
Agricultural Households	Dodoma	-	-	-	-	-	-	-	-	-	-
	Arusha	2488	218	98	234	2	2,488	218	98	234	2.4
	Kilimanjaro	3229	337	110	87	1	3,229	337	110	87	0.8
	Tanga	1928	44	44	308	7	1,928	44	44	308	7.0
	Morogoro	5391	3523	2938	5089	2	5,391	3,523	2,938	5,089	1.7
	Pwani	-	-	-	-	-	-	-	-	-	-
	Dar es Salaam	12025	618	576	5482	10	12,025	618	576	5,482	9.5
	Lindi	-	-	-	-	-	-	-	-	-	-
	Mtwara	-	-	-	-	-	-	-	-	-	-
	Ruvuma	-	-	-	-	-	-	-	-	-	-
	Iringa	1140	19	19	1002	51	1,140	19	19	1,002	51.5
	Mbeya	-	-	-	-	-	-	-	-	-	-
	Singida	4379	115	115	214	2	4,379	115	115	214	1.9
	Tabora	-	-	-	-	-	-	-	-	-	-
	Rukwa	-	-	-	-	-	-	-	-	-	-
	Kigoma	-	-	-	-	-	-	-	-	-	-
	Shinyanga	-	-	-	-	-	-	-	-	-	-
	Kagera	-	-	-	-	-	-	-	-	-	-
	Mwanza	-	-	-	-	-	-	-	-	-	-
	Mara	-	-	-	-	-	-	-	-	-	-
	Manyara	-	-	-	-	-	-	-	-	-	-
	Njombe	-	-	-	-	-	-	-	-	-	-
	Katavi	-	-	-	-	-	-	-	-	-	-
	Simiyu	-	-	-	-	-	-	-	-	-	-
	Geita	-	-	-	-	-	-	-	-	-	-
	Songwe	1594	48	40	237	6	1,594	48	40	237	6.0
	<b>Mainland Tanzania</b>	<b>42089</b>	<b>5777</b>	<b>4765</b>	<b>22698</b>	<b>5</b>	<b>42,089</b>	<b>5,777</b>	<b>4,765</b>	<b>22,698</b>	<b>4.8</b>
	Kaskazini Unguja	879	55	49	43	1	879	55	49	43	0.9
	Kusini Unguja	2135	103	92	291	3	2,135	103	92	291	3.2
	Mjini Magharibi	3880	96	52	124	2	3,880	96	52	124	2.4
	Kaskazini Pemba	808	20	18	57	3	808	20	18	57	3.2
	Kusini Pemba	626	45	45	39	1	626	45	45	39	0.9
	<b>Zanzibar</b>	<b>8328</b>	<b>320</b>	<b>255</b>	<b>554</b>	<b>2</b>	<b>8,328</b>	<b>320</b>	<b>255</b>	<b>554</b>	<b>2.2</b>
	<b>Tanzania</b>	<b>50416</b>	<b>6097</b>	<b>5020</b>	<b>23252</b>	<b>5</b>	<b>50,416</b>	<b>6,097</b>	<b>5,020</b>	<b>23,252</b>	<b>4.6</b>
Large Scale Farms	Mainland Tanzania	16	6	6	60	9	16	6	6	60	9.3
	Zanzibar	-	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	<b>17</b>	<b>7</b>	<b>7</b>	<b>63</b>	<b>9</b>	<b>17</b>	<b>7</b>	<b>7</b>	<b>63</b>	<b>8.6</b>
All Holdings	Mainland Tanzania		5784	4771	22758	5		5,784	4,771	22,758	4.8
	Zanzibar		320	256	557	2		320	256	557	2.2
	<b>Tanzania</b>		<b>6104</b>	<b>5027</b>	<b>23314</b>	<b>5</b>		<b>6,104</b>	<b>5,027</b>	<b>23,314</b>	<b>4.6</b>

“-” Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Areas, Production, Yield by Crop During the 2022/23 Agricultural Year, Tanzania - Long Rainy Season**

Holding Category	Region	Water Mellon					Okra				
		Number of holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)	Number of holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)
Agricultural Households	Dodoma	-	-	-	-	-	-	-	-	-	-
	Arusha	-	-	-	-	-	-	-	-	-	-
	Kilimanjaro	-	-	-	-	-	3,128	376	269	871	3.2
	Tanga	-	-	-	-	-	2,624	868	742	1,125	1.5
	Morogoro	4,374	828	512	11,631	22.7	4,101	403	326	210	0.6
	Pwani	-	-	-	-	-	10,334	1,395	754	619	0.8
	Dar es Salaam	-	-	-	-	-	5,306	642	368	433	1.2
	Lindi	-	-	-	-	-	-	-	-	-	-
	Mtwara	-	-	-	-	-	-	-	-	-	-
	Ruvuma	-	-	-	-	-	-	-	-	-	-
	Iringa	-	-	-	-	-	-	-	-	-	-
	Mbeya	-	-	-	-	-	-	-	-	-	-
	Singida	-	-	-	-	-	3,025	307	98	434	4.4
	Tabora	-	-	-	-	-	-	-	-	-	-
	Rukwa	-	-	-	-	-	-	-	-	-	-
	Kigoma	-	-	-	-	-	-	-	-	-	-
	Shinyanga	-	-	-	-	-	-	-	-	-	-
	Kagera	-	-	-	-	-	-	-	-	-	-
	Mwanza	-	-	-	-	-	991	166	162	751	4.6
	Mara	-	-	-	-	-	1,753	469	440	493	1.1
	Manyara	-	-	-	-	-	-	-	-	-	-
	Njombe	-	-	-	-	-	-	-	-	-	-
	Katavi	-	-	-	-	-	-	-	-	-	-
	Simiyu	-	-	-	-	-	-	-	-	-	-
	Geita	1,399	804	786	14,156	18.0	-	-	-	-	-
	Songwe	-	-	-	-	-	-	-	-	-	-
	<b>Mainland Tanzania</b>	<b>15,455</b>	<b>12,825</b>	<b>8,762</b>	<b>211,220</b>	<b>24.1</b>	<b>40,732</b>	<b>6,214</b>	<b>4,213</b>	<b>5,784</b>	<b>1.4</b>
	Kaskazini Unguja	190	80	36	928	25.7	831	87	87	110	1.3
	Kusini Unguja	275	99	80	1,537	19.2	447	134	75	131	1.8
	Mjini Magharibi	-	-	-	-	-	1,086	54	15	13	0.9
	Kaskazini Pemba	-	-	-	-	-	449	17	16	23	1.4
	Kusini Pemba	-	-	-	-	-	-	-	-	-	-
	<b>Zanzibar</b>	<b>949</b>	<b>402</b>	<b>189</b>	<b>4,083</b>	<b>21.6</b>	<b>3,252</b>	<b>322</b>	<b>222</b>	<b>288</b>	<b>1.3</b>
	<b>Tanzania</b>	<b>16,404</b>	<b>13,227</b>	<b>8,950</b>	<b>215,303</b>	<b>24.1</b>	<b>43,984</b>	<b>6,535</b>	<b>4,436</b>	<b>6,072</b>	<b>1.4</b>
Large Scale Farms	Mainland Tanzania	12	17	17	143	8.5	8	1	1	27	20.3
	Zanzibar	-	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	<b>12</b>	<b>17</b>	<b>17</b>	<b>143</b>	<b>8.5</b>	<b>9</b>	<b>2</b>	<b>2</b>	<b>29</b>	<b>16.3</b>
All Holdings	Mainland Tanzania		12,842	8,778	211,362	24.1		6,215	4,215	5,811	1.4
	Zanzibar		402	189	4,083	21.6		322	223	289	1.3
	<b>Tanzania</b>		<b>13,244</b>	<b>8,967</b>	<b>215,445</b>	<b>24.0</b>		<b>6,537</b>	<b>4,437</b>	<b>6,100</b>	<b>1.4</b>

“-” Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Areas, Production, Yield by Crop During the 2022/23 Agricultural Year, Tanzania - Agricultural Year**

Holding Category	Region	Spinach					Carrot				
		Number of holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)	Number of holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)
Agricultural Households	Dodoma	-	-	-	-	-	-	-	-	-	-
	Arusha	2,583	317	183	90	0.5	6,193	3,045	1,401	19,038	6.3
	Kilimanjaro	-	-	-	-	-	2,493	254	86	514	2.0
	Tanga	2,792	168	145	142	1.0	-	-	-	-	-
	Morogoro	2,826	144	94	266	2.8	2,702	2,570	1,097	8,736	3.4
	Pwani	5,555	219	188	280	1.5	-	-	-	-	-
	Dar es Salaam	-	-	-	-	-	-	-	-	-	-
	Lindi	-	-	-	-	-	-	-	-	-	-
	Mtwara	-	-	-	-	-	-	-	-	-	-
	Ruvuma	-	-	-	-	-	-	-	-	-	-
	Iringa	1,945	130	128	388	3.0	-	-	-	-	-
	Mbeya	-	-	-	-	-	-	-	-	-	-
	Singida	3,408	197	197	107	0.5	-	-	-	-	-
	Tabora	-	-	-	-	-	-	-	-	-	-
	Rukwa	-	-	-	-	-	-	-	-	-	-
	Kigoma	-	-	-	-	-	-	-	-	-	-
	Shinyanga	2,134	209	166	287	1.7	-	-	-	-	-
	Kagera	-	-	-	-	-	-	-	-	-	-
	Mwanza	-	-	-	-	-	-	-	-	-	-
	Mara	-	-	-	-	-	-	-	-	-	-
	Manyara	-	-	-	-	-	-	-	-	-	-
	Njombe	-	-	-	-	-	-	-	-	-	-
	Katavi	-	-	-	-	-	-	-	-	-	-
	Simiyu	-	-	-	-	-	-	-	-	-	-
	Geita	-	-	-	-	-	-	-	-	-	-
	Songwe	1,218	160	160	144	0.9	-	-	-	-	-
	<b>Mainland Tanzania</b>	<b>28,130</b>	<b>2,006</b>	<b>1,687</b>	<b>12,655</b>	<b>7.5</b>	<b>13,933</b>	<b>6,643</b>	<b>3,073</b>	<b>32,848</b>	<b>4.9</b>
	Kaskazini Unguja	-	-	-	-	-	-	-	-	-	-
	Kusini Unguja	-	-	-	-	-	-	-	-	-	-
	Mjini Magharibi	-	-	-	-	-	-	-	-	-	-
	Kaskazini Pemba	-	-	-	-	-	-	-	-	-	-
	Kusini Pemba	-	-	-	-	-	-	-	-	-	-
	<b>Zanzibar</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
	<b>Tanzania</b>	<b>28,288</b>	<b>2,028</b>	<b>1,690</b>	<b>12,656</b>	<b>7.5</b>	<b>13,933</b>	<b>6,643</b>	<b>3,073</b>	<b>32,848</b>	<b>4.9</b>
Large Scale Farms	Mainland Tanzania	14	8	8	32	3.9	3	11	11	8	0.7
	Zanzibar	-	-	-	-	-	-	-	-	-	-
	<b>Tanzania</b>	<b>15</b>	<b>9</b>	<b>9</b>	<b>32</b>	<b>3.7</b>	<b>3</b>	<b>11</b>	<b>11</b>	<b>8</b>	<b>0.7</b>
All Holdings	Mainland Tanzania		2,014	1,695	12,687	7.5		6,654	3,084	32,855	4.9
	Zanzibar		23	4	1	0.3		-	-	-	-
	<b>Tanzania</b>		<b>2,037</b>	<b>1,699</b>	<b>12,688</b>	<b>7.5</b>		<b>6,654</b>	<b>3,084</b>	<b>32,855</b>	<b>4.9</b>

“-” Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-1 (Ctd): Number of Agricultural Holdings, Planted and Harvested Areas, Production, Yield by Crop During the 2022/23 Agricultural Year, Tanzania - Agricultural Year**

Holding Category	Region	Amaranth					Cucumber				
		Number of holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)	Number of holdings	Area Planted (ha)	Area Harvested (ha)	Production (tons)	Yield (tons/ha)
Agricultural Households	Dodoma	-	-	-	-	-	-	-	-	-	-
	Arusha	3,485.3	420.4	231.6	604.5	2.4	-	-	-	-	-
	Kilimanjaro	3,668.4	606.3	379.1	354.8	0.8	2,685	286	117	1,145	9.8
	Tanga	2,171.0	55.8	55.8	351.3	7.0	-	-	-	-	-
	Morogoro	6,953.4	4,344.7	3,444.3	16,554.3	1.7	-	-	-	-	-
	Pwani	7,113.5	186.3	170.4	334.8	-	2,222	90	10	29	2.9
	Dar es Salaam	14,448.8	1,280.8	1,225.5	11,888.6	9.5	-	-	-	-	-
	Lindi	-	-	-	-	-	-	-	-	-	-
	Mtwara	-	-	-	-	-	-	-	-	-	-
	Ruvuma	-	-	-	-	-	-	-	-	-	-
	Iringa	1,139.6	32.7	32.7	1,155.0	51.5	-	-	-	-	-
	Mbeya	-	-	-	-	-	-	-	-	-	-
	Singida	4,379.3	206.4	206.4	343.6	1.9	-	-	-	-	-
	Tabora	-	-	-	-	-	-	-	-	-	-
	Rukwa	-	-	-	-	-	-	-	-	-	-
	Kigoma	-	-	-	-	-	-	-	-	-	-
	Shinyanga	-	-	-	-	-	-	-	-	-	-
	Kagera	-	-	-	-	-	-	-	-	-	-
	Mwanza	1,051.7	162.1	162.1	147.2	-	-	-	-	-	-
	Mara	-	-	-	-	-	-	-	-	-	-
	Manyara	-	-	-	-	-	-	-	-	-	-
	Njombe	-	-	-	-	-	-	-	-	-	-
	Katavi	-	-	-	-	-	-	-	-	-	-
	Simiyu	-	-	-	-	-	-	-	-	-	-
	Geita	1,274.7	66.4	59.0	655.7	-	-	-	-	-	-
	Songwe	2,234.5	114.9	106.1	1,334.6	6.0	-	-	-	-	-
	<b>Mainland Tanzania</b>	<b>56,389.9</b>	<b>9,147.3</b>	<b>7,664.2</b>	<b>45,938.8</b>	<b>4.8</b>	<b>9,017</b>	<b>820</b>	<b>484</b>	<b>21,848</b>	<b>45.1</b>
	Kaskazini Unguja	<b>1,137.9</b>	<b>102.5</b>	<b>95.6</b>	<b>73.8</b>	<b>0.9</b>	<b>631</b>	<b>205</b>	<b>199</b>	<b>420</b>	<b>2.1</b>
	Kusini Unguja	2,606.4	247.6	236.2	885.1	3.2	524	137	90	144	1.6
	Mjini Magharibi	4,520.2	141.9	97.2	203.3	2.4	-	-	-	-	-
	Kaskazini Pemba	1,210.7	88.0	85.5	109.5	3.2	237	39	31	67	2.2
	Kusini Pemba	625.9	64.2	64.2	42.7	0.9	-	-	-	-	-
	<b>Zanzibar</b>	<b>10,101.2</b>	<b>644.2</b>	<b>578.6</b>	<b>1,314.4</b>	<b>2.2</b>	<b>2,152</b>	<b>600</b>	<b>494</b>	<b>876</b>	<b>1.8</b>
	<b>Tanzania</b>	<b>66,491.1</b>	<b>9,791.5</b>	<b>8,242.8</b>	<b>47,253.2</b>	<b>4.6</b>	<b>11,169</b>	<b>1,420</b>	<b>978</b>	<b>22,724</b>	<b>23.2</b>
Large Scale Farms	Mainland Tanzania	<b>22.0</b>	<b>10.3</b>	<b>10.2</b>	<b>95.6</b>	<b>9.3</b>	<b>10</b>	<b>22</b>	<b>21</b>	<b>79</b>	<b>3.8</b>
	Zanzibar	4.0	2.1	2.1	5.6	-	-	-	-	-	-
	<b>Tanzania</b>	<b>26.0</b>	<b>12.4</b>	<b>12.3</b>	<b>101.2</b>	<b>8.6</b>	<b>10</b>	<b>22</b>	<b>21</b>	<b>79</b>	<b>3.8</b>
All Holdings	Mainland Tanzania		<b>9,157.6</b>	<b>7,674.4</b>	<b>46,034.5</b>	<b>4.8</b>		<b>842</b>	<b>505</b>	<b>21,927</b>	<b>43.4</b>
	Zanzibar		646.3	580.7	1,319.9	2.2		600	494	876	1.8
	<b>Tanzania</b>		<b>9,803.9</b>	<b>8,255.2</b>	<b>47,354.4</b>	<b>4.6</b>		<b>1,442</b>	<b>999</b>	<b>22,803</b>	<b>22.8</b>

“-” Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-3: Total Agricultural Household Area Affected by Shocks in Selected Crops in Short and Long Rainy Seasons During the 2022/23 Agricultural Year, Tanzania**

Crop	Short rainy season						Long rainy season					
	Total area planted	Fully affected by climate shocks	Fully affected by non-climate shocks	Partially affected by climate shocks	Partially affected by non-climate shocks	Partially affected by both climate and non-climate shocks	Total area planted	Fully affected by climate shocks	Fully affected by non-climate shocks	Partially affected by climate shocks	Partially affected by non-climate shocks	Partially affected by both climate and non-climate shocks
Maize	2,618,389	146,861	48,204	321,888	215,673	191,141	3,649,454	139,469	259,262	374,252	418,337	311,888
Paddy	715,990	36,878	11,492	108,716	41,653	24,304	982,622	41,467	22,329	191,592	86,046	45,851
Sorghum	88,938	3,578	1,254	10,879	4,086	2,054	463,861	11,075	22,471	108,003	43,736	41,155
Bulrush Millet	314	0	0	66	24	0	58,837	420	30	14,704	9,261	6,259
Cassava	456,217	25,219	140,254	26,548	32,317	11,497	323,257	8,225	204,489	12,482	17,631	2,596
Sweet potatoes	88,421	1,784	2,600	5,964	5,042	3,356	114,130	588	8,463	13,330	8,799	3,437
Irish potatoes	55,989	3,988	363	8,456	1,518	1,229	97,196	1,531	9,076	9,535	5,577	3,620
Cocoyam	17,038	2,603	3,286	333	1,623	1,607	12,453	496	8,738	137	371	0
Onion	2,896	1	14	442	98	77	15,301	1,785	1,277	674	219	85
Ginger	4,671	140	0	0	551	0	1,699	0	846	78	0	0
Garlic	-	-	-	-	-	-	140	0	0	8	0	8
Beans	425,571	28,106	9,834	57,370	48,827	33,472	667,931	34,922	57,472	91,448	67,426	54,854
Cowpeas	112,160	3,347	2,429	5,928	58,836	4,793	53,101	2,281	3,978	6,631	9,414	3,726
Chick peas	1,622	0	0	169	196	154	124,622	2,867	6,161	11,037	8,182	5,338
Sunflower	202,214	7,932	10,346	33,575	13,349	8,233	712,106	9,664	3,697	125,734	73,885	53,369
Sesame	108,907	4,823	4,186	15,608	14,506	7,787	385,467	13,771	7,687	106,966	32,102	40,945
Groundnut	204,609	3,885	2,112	24,292	16,500	7,143	366,266	4,441	6,608	60,918	34,636	19,028
Cotton	278,610	1,845	4,321	8,917	8,759	7,056	89,380	0	6,034	16,305	3,192	8,891
Tobacco	16,503	0	0	725	534	90	66,326	0	0	2,784	5,148	4,582
Cabbage	2,494	0	30	126	30	164	3,497	32	1,401	19	59	131
Spinach	834	10	0	22	24	0	1,194	10	62	90	99	22
Carrot	2,462	412	769	185	203	0	4,181	168	1,181	130	512	11
Amaranth	3,695	0	52	379	23	18	6,097	20	169	85	249	553
Cucumber	502	0	0	68	20	0	919	28	244	0	55	28
Water melon	5,385	100	144	114	750	33	13,227	35	393	234	3,302	314
Okra	6,799	0	46	255	240	190	6,535	0	332	1,000	426	342
Tomatoes	17,551	1,298	349	1,110	651	753	26,594	832	2,052	2,506	1,206	610
Bitter tomato	3,008	0	644	422	114	0	5,007	0	506	70	635	40
Sweet/bell pepper	4,082	0	1,224	322	66	158	3,496	0	1,236	369	132	56

“..” Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 5-3 (Ctd): Total Large Scale Farms Area Affected by Shocks in Selected Crops in Short and Long Rainy Seasons During the 2022/23 Agricultural Year, Tanzania**

Crop	Short rainy season						Long rainy season					
	Total area planted	Fully affected by climate shocks	Fully affected by non-climate shocks	Partially affected by climate shocks	Partially affected by non-climate shocks	Partially affected by both climate and non-climate shocks	Total area planted	Fully affected by climate shocks	Fully affected by non-climate shocks	Partially affected by climate shocks	Partially affected by non-climate shocks	Partially affected by both climate and non-climate shocks
Maize	3,532	332	51	286	141	117	15,499	550	532	876	339	533
Paddy	3,954	24	11	126	0	140	8,490	127	5	247	14	88
Sorghum	62	0	2	16	0	0	1,246	1	14	333	14	23
Cassava	138	6	62	2	6	0	184	3	89	0	0	0
Sweet potatoes	52	0	1	1	0	7	165	12	16	8	3	7
Irish potatoes	-	-	-	-	-	-	81	0	0	0	0	0
Cocoyam	-	-	-	-	-	-	-	-	-	-	-	-
Onion	18	0	10	0	1	0	9	0	2	2	0	0
Beans	821	0	0	64	1	4	2,426	142	6	197	246	471
Cowpeas	8	0	0	0	1	2	16	0	4	1	0	0
Chick peas	-	-	-	-	-	-	304	0	45	55	25	4
Sunflower	414	0	22	50	0	7	3,898	17	3	271	134	399
Sesame	258	245	10	0	0	0	585	246	1	59	28	17
Groundnut	1,708	0	1,619	3	6	3	1,922	0	1,660	25	17	3
Cotton	80	0	6	8	9	4	775	27	0	136	59	97
Tobacco	32	3	0	19	0	0	480	0	0	22	20	7
Cabbage	11	0	0	0	1	0	2	0	1	0	0	0
Spinach	4	0	0	0	0	0	4	0	0	0	0	0
Carrot	11	0	0	0	0	0	-	-	-	-	-	-
Amaranth	5	0	0	0	0	0	7	0	0	0	0	0
Cucumber	11	0	0	0	1	0	11	0	0	0	0	0
Water melon	5	0	0	0	0	0	17	0	0	0	0	0
Okra	2	0	0	0	0	0	2	0	0	0	0	0
Tomatoes	26	0	1	0	1	0	33	0	1	0	1	0
Bitter tomato	1	0	0	0	0	0	5	0	0	0	0	0
Sweet/bell pepper	16	0	10	0	1	0	4	0	0	0	0	0

“-” Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)



Crop	Sold unprocessed	Household consumption	Given to others	Used to pay for inputs	Animal feed	Seeds	Processed for sale	Others uses	Total
Maize	39.0	55.5	1.4	0.6	0.1	2.6	0.5	0.2	100.0
Paddy	49.3	39.1	1.3	1.0	0.0	5.1	3.3	0.9	100.0
Sorghum	24.5	68.5	1.4	0.2	0.1	5.2	0.2	0.0	100.0
Bulrush Millet	18.8	74.6	0.1	-	-	6.5	-	-	100.0
Cassava	33.2	62.9	2.5	0.1	0.1	-	0.4	0.8	100.0
Sweet potatoes	24.8	72.7	1.4	0.0	-	0.4	-	0.6	100.0
Irish potatoes	78.1	11.0	0.2	0.7	-	10.0	-	-	100.0
Cocoyam	36.4	59.7	2.4	0.2	-	0.9	-	0.4	100.0
Onion	91.6	5.7	0.1	-	-	2.6	-	-	100.0
Garlic	91.3	-	-	-	-	8.7	-	-	100.0
Beans	47.4	42.3	0.9	0.1	0.0	8.8	0.1	0.5	100.0
Cowpeas	26.8	61.9	3.6	-	-	6.1	1.2	0.2	100.0
Pigeon pea	71.4	25.4	0.8	0.7	0.0	-	0.0	1.6	100.0
Sunflower	57.2	33.8	0.3	0.1	0.0	5.0	3.4	0.3	100.0
Sesame	91.2	2.4	0.1	1.3	-	4.8	0.0	0.2	100.0
Groundnut	52.5	35.2	0.7	0.1	0.0	10.9	0.1	0.5	100.0
Cashew nut	83.3	16.3	0.0	-	-	-	0.3	0.0	100.0
Cotton	97.7	0.7	-	0.9	-	-	-	0.7	100.0
Coffee	93.8	4.9	0.0	0.2	-	-	0.5	0.5	100.0
Sugar cane	94.8	4.3	0.9	-	-	-	-	0.0	100.0
Cardamom	98.8	1.2	0.0	-	-	-	-	-	100.0
Cinnamon	97.9	2.0	0.1	-	-	-	-	-	100.0
Clove	98.1	1.0	0.9	-	-	-	-	-	100.0
Banana	42.2	54.7	2.9	0.0	0.1	-	0.0	-	100.0
Avocado	58.1	35.4	6.1	-	0.4	-	-	-	100.0
Mango	76.1	15.8	7.7	-	0.3	-	-	0.0	100.0
Pineapple	72.3	24.8	2.7	0.0	-	-	-	0.2	100.0
Orange	65.7	32.1	1.5	-	-	-	-	0.7	100.0
Grapes	-	-	-	-	-	-	-	-	-
Cabbage	85.0	12.8	0.9	1.3	-	-	-	-	100.0
Spinach	93.9	5.7	0.2	-	0.1	-	-	-	100.0
Carrot	99.1	0.9	-	-	-	-	-	-	100.0
Amaranth	78.0	21.6	0.3	0.0	-	0.0	-	-	100.0
Cucumber	98.8	0.8	0.2	-	-	0.2	-	-	100.0
Water melon	84.4	3.1	1.3	-	11.1	0.0	-	-	100.0
Okra	85.1	13.7	1.1	-	-	0.1	-	-	100.0
Tomatoes	89.0	8.6	1.6	0.7	-	0.0	-	-	100.0
Bitter tomato	91.3	7.4	1.3	-	-	0.0	-	-	100.0
Sweet/bell pepper	93.0	5.1	0.9	0.9	-	0.0	-	-	100.0

**Table 5.4** Agricultural Households Harvest Uses by Crop During 2022/23 Agricultural Year

**Table 5.4 (Ctd): Large Scale Farms Harvest Uses by Crop During 2022/23 Agricultural Year – Tanzania**

	Sold unprocessed	Household consumption	Given to others	Used to pay for inputs	Animal feed	Seeds	Processed for sale	Others uses	Total
Maize	67.5	-	-	0.8	4.3	0.9	11.5	15.0	100.0
Paddy	75.0	-	-	0.0	0.0	1.1	20.5	3.4	100.0
Sorghum	49.4	-	-	3.9	1.9	4.7	15.9	24.2	100.0
Cassava	42.6	-	-	1.8	5.0	-	-	50.7	100.0
Sweet potatoes	47.8	-	-	1.5	-	-	-	50.7	100.0
Irish potatoes	96.9	-	-	-	-	3.1	-	-	100.0
Cocoyam	-	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-	-
Beans	99.6	-	-	0.0	-	0.1	0.0	0.3	100.0
Cowpeas	84.8	-	-	-	-	0.1	-	15.1	100.0
Pigeon pea	98.8	-	-	-	-	-	0.0	1.2	100.0
Sunflower	66.7	-	-	0.0	0.4	1.4	20.8	10.7	100.0
Sesame	95.9	-	-	-	-	3.5	-	0.6	100.0
Groundnut	54.7	-	-	0.6	-	11.7	15.4	17.6	100.0
Cashew nut	91.8	-	-	-	-	-	6.9	1.2	100.0
Cotton	99.4	-	-	-	-	0.1	0.2	0.3	100.0
Coffee	56.3	-	-	-	-	-	37.7	6.0	100.0
Sugar cane	7.1	-	-	0.0	-	-	91.7	1.2	100.0
Clove	-	-	-	-	-	-	-	-	-
Banana	89.8	-	-	0.0	-	-	0.0	10.2	100.0
Avocado	99.4	-	-	-	-	-	0.1	0.5	100.0
Mango	78.1	-	-	0.0	0.1	-	-	21.7	100.0
Pineapple	100.0	-	-	-	-	-	-	-	100.0
Orange	98.2	-	-	0.0	-	-	-	1.7	100.0
Grapes	1.0	-	-	-	-	-	99.0	0.0	100.0
Cabbage	99.5	-	-	-	0.1	-	-	0.4	100.0
Spinach	1.1	-	-	-	0.3	-	-	98.6	100.0
Carrot	71.3	-	-	-	10.0	-	-	18.7	100.0
Amaranth	11.4	-	-	-	0.2	-	-	88.4	100.0
Cucumber	98.4	-	-	1.6	-	0.1	-	0.0	100.0
Water melon	99.8	-	-	-	-	0.1	-	0.2	100.0
Okra	60.0	-	-	-	-	0.0	-	40.0	100.0
Tomatoes	77.8	-	-	8.3	-	-	-	14.0	100.0
Bitter tomato	80.0	-	-	7.4	-	-	-	12.6	100.0
Sweet/bell pepper	90.1	-	-	3.4	-	-	-	6.4	100.0

“-” Withheld to avoid disclosing data for individual holdings or insufficient data available from survey (Total includes withheld data)

**Table 9-2: Number and Percentages of Agricultural Households with Agricultural Loans, by Region and Type of Lender During 2022/23 Agricultural Year – Tanzania**

Holdings Category	Region	Contracted a Loan for Agricultural Purposes		Main Loan Provider									Other
		Number of Holdings	Percentage of Holdings	Public Banks or Other Government Institutions	Commercial Banks	Insurance Companies	Microfinance Institutions	NGOs	Production Cooperatives	Private Money Lender	Friends or Family- living in the Country	Friends or Family- living Abroad	
Agricultural Household	Dodoma	14,322	2.6	23.1	-	-	25.5	-	-	42.0	2.8	-	6.6
	Arusha	32,623	9.7	2.5	-	-	34.3	5.4	1.6	30.2	24.4	1.7	-
	Kilimanjaro	13,896	4.1	-	4.2	-	59.9	12.7	5.9	10.6	6.7	-	-
	Tanga	15,917	3.4	-	4.5	4.6	45.8	-	13.7	12.9	18.5	-	-
	Morogoro	49,824	8.9	2.5	3.1	-	13.4	5.8	12.6	23.9	38.7	-	-
	Pwani	7,105	2.7	30.1	21.3	-	10.4	-	-	19.1	19.1	-	-
	Dar es Salaam	10,516	4.4	-	48.8	-	18.7	-	-	11.1	21.4	-	-
	Lindi	13,422	4.8	10.9	-	-	-	-	-	61.1	28.0	-	-
	Mtwara	12,774	3.2	21.2	22.6	-	-	-	-	56.3	-	-	-
	Ruvuma	42,438	11.3	-	2.8	-	3.8	1.6	20.4	40.7	27.7	-	3.0
	Iringa	14,162	6.0	-	8.6	-	28.6	22.5	-	4.0	36.3	-	-
	Mbeya	16,279	4.1	18.6	15.2	-	21.5	21.7	4.8	16.1	2.0	-	-
	Singida	7,260	2.4	-	-	-	60.1	27.9	-	-	12.0	-	-
	Tabora	24,182	5.4	3.9	5.9	-	8.0	10.2	35.5	17.9	14.6	-	4.0
	Rukwa	-	0.3	-	-	-	-	-	-	-	-	-	-
	Kigoma	3,608	1.1	-	32.0	-	31.3	-	-	-	36.7	-	-
	Shinyanga	14,051	5.1	7.9	-	-	-	1.7	18.4	32.2	39.8	-	-
	Kagera	22,576	4.1	9.0	-	-	37.4	-	14.5	23.6	15.5	-	-
	Mwanza	14,038	3.5	3.2	-	-	30.6	10.2	10.4	11.0	34.5	-	-
	Mara	12,350	3.8	1.2	-	-	27.9	6.8	8.9	39.7	9.0	6.5	-
	Manyara	10,987	3.6	8.1	1.4	-	20.9	11.1	10.6	24.3	21.9	-	1.6
	Njombe	6,458	3.3	-	19.0	-	33.3	38.6	-	-	9.1	-	-
	Katavi	22,084	14.7	9.8	1.0	-	-	3.9	22.7	47.4	15.2	-	-
	Simiyu	19,084	7.4	-	-	-	-	10.6	-	59.3	30.2	-	-
	Geita	11,993	3.3	-	-	-	28.6	-	14.8	40.2	16.4	-	-
	Songwe	28,633	11.6	4.0	2.9	-	7.3	11.5	20.6	41.7	8.6	-	3.5
	Mainland Tanzania	441,385	5.0	5.3	5.0	0.2	18.7	7.0	11.5	29.8	21.2	0.3	1.0
	Kaskazini Unguja	-	0.3	-	-	-	-	-	-	-	-	-	-
	Kusini Unguja	382	1.4	-	34.0	-	40.6	-	25.5	-	-	-	-
	Mjini Magharibi	569	1.5	30.0	-	-	29.4	40.5	-	-	-	-	-
	Kaskazini Pemba	-	0.2	-	-	-	-	-	-	-	-	-	-
	Kusini Pemba	-	-	-	-	-	-	-	-	-	-	-	-
	Zanzibar	1,099	0.7	15.6	11.8	-	29.3	21.0	14.5	1.0	6.9	-	-
	Tanzania	442,485	4.9	5.4	5.1	0.2	18.7	7.0	11.5	29.7	21.1	0.3	1.0
Large scale Farms	Mainland Tanzania	128	11.8	25.8	41.4	-	6.3	-	9.4	9.4	4.7	0.8	2.3
	Zanzibar	9	9.0	33.3	22.2	-	11.1	-	-	33.3	-	-	-
	Tanzania	137	11.5	26.3	40.1	-	6.6	-	8.8	10.9	4.4	0.7	2.2
All Holdings	Mainland Tanzania			5.3	5.1	0.2	18.7	7.0	11.5	29.8	21.2	0.3	1.0
	Zanzibar			15.7	11.9	-	29.2	20.8	14.3	1.3	6.8	-	-

**Table 9-3: Numbers of Holdings that did not Borrow Money for Agricultural Purposes and Percentage of Main reason for not borrowing money by Region During 2022/23 Agricultural Year – Tanzania**

Holding Category	Region	Numbers of Holdings that did not Borrow Money for Agricultural Purpose	Main reason for not borrowing money (Percent)								Other
			Did not Request	Request was Refused	Impossible to Request, no Access	Investment Activity not Accepted	Not Enough Income	Bad Credit History	Inadequate Collateral	Interest rate too High	
Agricultural Households	Dodoma	538,802	80.7	0.3	2.6	0.1	6.2	1.5	2.5	1.1	5
	Arusha	304,975	91.4	0.3	0.7	0	3.2	0.1	0.8	0.4	3.1
	Kilimanjaro	321,731	81.2	0.2	0.7	0	14.3	0	0	3.3	0.4
	Tanga	447,006	81.2	0.4	0.8	0.2	7.5	0.1	0.2	4.5	5.1
	Morogoro	510,424	63.9	0.2	11	0	11.6	1.6	0.7	2.6	8.3
	Pwani	253,933	76.4	1.6	4.9	0.3	9.6	0.3	0	0	7
	Dar es Salaam	230,165	85.7	0.8	2.3	0	3.4	2.3	0.3	4.1	1.1
	Lindi	264,793	88.9	1	1	0	6.5	0	0	0	2.6
	Mtwara	379,450	69.3	1.8	13.5	0.5	5.8	0	1.5	0.5	7
	Ruvuma	333,837	71.2	2.8	1.5	0	10.5	1.8	1.6	1.6	9.1
	Iringa	222,321	86.7	0	0.3	0	7	0	0.4	2	3.5
	Mbeya	376,446	66.4	2.3	4.7	0.4	9.2	4.5	2.7	3.9	5.9
	Singida	301,622	87.8	0	0.9	0	3	0	0	0.6	7.8
	Tabora	420,167	67.5	0.5	1.3	0	9.1	6.3	0.9	3.7	10.8
	Rukwa	246,843	77.3	0.8	2	0	2.3	0.5	0	1.6	15.5
	Kigoma	314,474	73.9	1.2	0.6	0	3.5	2.7	0.3	0.8	16.8
	Shinyanga	261,405	92.2	0.4	0.9	0	1.1	0	0	0	5.4
	Kagera	525,653	58.3	0.7	4.8	4.8	25.7	0	0.5	2.5	2.7
	Mwanza	387,540	94.6	0.9	0.2	0	2.1	0.1	0	0.1	1.9
	Mara	310,114	58.7	0.9	3.3	7.3	14.2	0	0	12	3.6
	Manyara	295,871	92.6	0.2	1.2	0	1.7	2.3	0.8	0.1	1.1
	Njombe	188,688	67	1	8.7	0	1.8	10.7	4.6	3.6	2.8
	Katavi	128,499	68.2	1.4	6.5	0	6.7	6.6	1.1	9	0.5
	Simiyu	238,177	87.9	0.9	1.2	0	2.1	1.3	0.3	3.6	2.7
	Geita	350,137	83.1	0.7	0.6	1	4.8	0.3	0.3	1.5	7.5
	Songwe	217,835	84.3	0.4	2.3	0.1	3.2	2.1	0.4	3.3	3.9
	<b>Mainland Tanzania</b>	<b>8,370,911</b>	<b>77.3</b>	<b>0.8</b>	<b>3.2</b>	<b>0.7</b>	<b>7.6</b>	<b>1.5</b>	<b>0.8</b>	<b>2.4</b>	<b>5.7</b>
	Kaskazini Unguja	27,402	90.2	2.5	0.7	0	3.9	0	0	0	2.6
	Kusini Unguja	27,124	63.8	2.4	0	0	17.4	0	0.4	0	16
	Mjini Magharibi	38,414	94.7	2.3	0	0	0.7	0	0	1	1.4
	Kaskazini Pemba	32,145	89.3	1.4	0	0	5.9	0.3	0.1	0.2	2.9
	Kusini Pemba	29,265	98.1	0.8	1.1	0	0	0	0	0	0
	<b>Zanzibar</b>	<b>154,351</b>	<b>88</b>	<b>1.9</b>	<b>0.3</b>	<b>0</b>	<b>5.1</b>	<b>0.1</b>	<b>0.1</b>	<b>0.3</b>	<b>4.2</b>
	<b>Tanzania</b>	<b>8,525,261</b>	<b>77.5</b>	<b>0.8</b>	<b>3.1</b>	<b>0.7</b>	<b>7.6</b>	<b>1.5</b>	<b>0.8</b>	<b>2.4</b>	<b>5.6</b>
Large Scale Farms	Mainland Tanzania	960	79.9	2.1	3	0.7	1.3	1.5	1	5	5.5
	Zanzibar	91	61.5	9.9	0	0	4.4	0	0	2.2	22
	<b>Tanzania</b>	<b>1,051</b>	<b>78.3</b>	<b>2.8</b>	<b>2.8</b>	<b>0.7</b>	<b>1.5</b>	<b>1.3</b>	<b>1</b>	<b>4.8</b>	<b>6.9</b>
All Holdings	Mainland Tanzania		77.3	0.8	3.2	0.7	7.6	1.5	0.8	2.4	5.7
	Zanzibar		88	1.9	0.3	0	5.1	0.1	0.1	0.3	4.2
	<b>Tanzania</b>		<b>77.5</b>	<b>0.8</b>	<b>3.1</b>	<b>0.7</b>	<b>7.6</b>	<b>1.5</b>	<b>0.8</b>	<b>2.4</b>	<b>5.6</b>



### Sampling Design of the Annual Agricultural Sample Survey 2022/23

This design took into account 31 domains (regions), of which 26 were from Mainland Tanzania and 5 from Zanzibar. More detail is provided below:

Domains: 31 Regions, i.e. Dodoma, Arusha, Kilimanjaro, Tanga, Morogoro, Pwani, Dar es Salaam, Lindi, Mtwara, Ruvuma, Iringa, Mbeya, Singida, Tabora, Rukwa, Kigoma, Shinyanga, Kagera, Mwanza, Mara, Manyara, Njombe, Katavi, Simiyu, Geita, Songwe, Kaskazini Unguja, Kusini Unguja, Mjini Magharibi, Kaskazini Pemba, Kusini Pemba.

Frame: list of 90,888 EAs created from the Population and Housing Census 2022 (PHC 2022). Available information for each EA: Region, District, Council, Constituency, Division, Ward, Village, EA, Hamlet, Rural/Urban type, number of households, number of agricultural households, number of households growing crops, number of households rearing livestock, number of households practicing aquaculture.

**Frame Limitations:** in the frame provided by NBS (National Bureau of Statistics of Tanzania) the EAs coincide with the Hamlets, hence some of them are highly populated (17.3% of EAs have more than 200 households, hitting the top of 11,660 households). Highly populated hamlets have a higher probability to be extracted in the sample, causing an intense listing operation.

Since the GIS experts of NBS mentioned that partitioning the large hamlets into smaller EAs by using cartographic material was too time-consuming considering the survey work plan and deadlines, first it was proposed an artificial partition of the larger hamlets before the selection of the sample – i.e. that the hamlets with more than 200/150 households could be split into smaller EAs, with the assumption that both the number of households and the number of agricultural households must be distributed equally among the EAs. If these EAs were extracted in the sample, they would have been demarcated from the main hamlet by using cartographic material, paying attention to split the agricultural households equally between EAs. Albeit sub-optimal, this procedure was considered helpful since the demarcation operation would be conducted just on the sampled high-populated hamlets, not on all the large hamlets. However, the procedure could have generated discrepancy between the number of households (and agricultural households) artificially allocated from the hamlet to each EA before the sample extraction and the number found in the field after the demarcation of the hamlet with cartographic material (causing a bias in the sampling weights). In addition, the demarcation based on cartographic material seemed to be difficult for the NBS cartographers.

Considering the drawbacks of this approach, NBS proposed a dual approach – i.e., to conduct the listing operation in the hamlets with less than 200 households and to use the list of agricultural households as identified during the PHC 2022 in the large hamlets (with more than 200 households), without performing a new listing operation. NBS believes that the PHC 2022 household lists are still updated and they were used also for other surveys conducted in 2023; the sample attrition seems to be quite low and the holdings' contacts seem to be reliable.

However, household lists generally become outdated quickly as people migrate or change their engagement in agriculture. Therefore, it is not advisable to use the same approach for the AASS 2024. **For the next survey cycles it is fundamental that NBS develops a frame with EAs completely demarcated and usable for statistical operations** (all the EAs must contain at most 200 households). Splitting the large EAs in smaller pieces by using cartographic material and ground truth may seem a costly investment, but it is crucial to produce more reliable and precise results from the next surveys, including household and individual surveys. The institutions of Tanzania working on data production and data use can really benefit from it.

Source: AASS 2022/23 sampling technical note

## **Sampling units**

### first stage: Enumeration Areas (Hamlets)

second stage: agricultural households, i.e. households growing crops and/or rearing livestock; aquaculture and bee-keeping activities are considered complementary to the first two primary activities. Therefore, households practicing just aquaculture or beekeeping are not considered to be part of the sampling units (the reason leading to this decision is that no previous information is available to consider in the computation of the sample size precision requirements of the estimates of these two sectors). A household is considered agricultural only if it has at least 25 square meters of planted land and/or one cattle and/or 5 goats/sheep/pigs and/or 50 chickens/ducks/turkeys.

## **Strata**

Two to three strata of EAs in each domain were created considering three variables: the number of households growing crops, the number of households rearing livestock and the number of households practicing aquaculture as reported in the frame obtained from the PHC2022. This multivariate stratification has been conducted by the k-means algorithm with the R function *kmeans*. The means of the stratifying variables computed in each stratum and domain are given in Table 1. In general, on average, stratum one is the most populated and contains EAs less involved in agriculture, stratum three is the least populated and its EAs include a lot of households involved in crop cultivation, livestock rearing and aquaculture. In some domains the sample size is low, hence just two strata have been identified. The stratification procedure applied in Dodoma is shown in Annex 2.

## **First stage sampling selection**

Systematic selection with probability proportional to size (PPS). Within each stratum and domain, the EAs are ordered according to District's and Council's Codes which reflect the geographical proximity, then ordered according to Constituency's, Division's, Ward's, Village's codes. An implicit stratification is also performed, ordering by Urban/Rural type at Ward level. The EAs are selected with probability proportional to size where the measure of size is the number of agricultural households in the EA.

## **Second stage sampling selection**

Simple random sampling. In hamlets with more than 200 households, twelve (12) agricultural households are drawn from the PHC 2022 list with a simple random sampling without replacement procedure in each sampled hamlet. In hamlets with 200 households or less, twelve (12) agricultural households will be selected with a simple random sampling without replacement procedure in each sampled hamlet after listing operation.



Region	Mean HH crops (Stratum 1)	Mean HH livestock (Stratum 1)	Mean HH aquac (Stratum 1)	Mean HH crops (Stratum 2)	Mean HH livestock (Stratum 2)	Mean HH aquac (Stratum 2)	Mean HH crops (Stratum 3)	Mean HH livestock (Stratum 3)	Mean HH aquac (Stratum 3)
Dodoma	52.38	16.49	0.05	151.66	51.70	0.04	341.95	98.56	0.11
Arusha	30.84	18.02	0.06	148.72	129.94	0.14	345.27	302.65	0.16
Kilimanjaro	72.32	37.37	0.09	190.26	101.52	0.21	507.20	194.43	0.59
Tanga	50.00	14.12	0.06	149.55	41.99	0.13	447.79	128.20	0.24
Morogoro	52.56	7.37	0.07	201.88	28.92	0.14	517.65	82.74	0.47
Pwani	47.46	7.09	0.11	193.71	21.67	0.30	663.69	52.00	0.56
Dar es Salaam	6.35	1.52	0.05	22.65	5.04	0.14	NaN	NaN	NaN
Lindi	84.74	4.46	0.04	260.31	13.96	0.17	NaN	NaN	NaN
Mtwara	63.18	3.15	0.07	135.75	5.18	0.07	272.54	8.60	0.05
Ruvuma	64.89	13.92	0.20	143.75	25.04	0.42	398.78	53.67	1.60
Iringa	53.25	8.96	0.06	135.73	21.88	0.12	383.65	45.90	0.18
Mbeya	46.26	20.06	0.11	201.59	72.95	0.29	910.72	401.39	1.00
Singida	72.47	37.59	0.04	172.65	85.01	0.06	435.54	181.82	0.08
Tabora	62.93	31.12	0.03	193.59	77.25	0.10	543.67	189.42	0.35
Rukwa	77.53	26.96	0.08	236.05	90.69	0.18	NaN	NaN	NaN
Kigoma	70.38	9.11	0.05	236.50	30.49	0.15	813.22	150.22	0.46
Shinyanga	46.44	19.36	0.02	115.16	49.80	0.03	302.34	76.52	0.09
Kagera	80.34	15.83	0.07	211.33	38.38	0.11	571.02	95.10	0.39
Mwanza	25.84	9.75	0.04	108.20	40.17	0.06	354.65	59.46	0.25
Mara	42.33	17.61	0.03	109.54	52.94	0.05	228.31	112.19	0.16
Manyara	83.51	55.19	0.03	188.35	123.90	0.15	407.25	256.76	0.10
Njombe	75.53	15.22	0.10	184.29	29.05	0.26	NaN	NaN	NaN
Katavi	70.12	15.61	0.06	232.44	72.92	0.07	610.36	179.55	0.17
Simiyu	61.07	31.70	0.01	111.33	55.99	0.02	199.79	79.96	0.02
Geita	96.53	28.51	0.05	424.99	59.39	0.16	1862.91	167.64	0.73
Songwe	66.09	25.44	0.26	193.07	74.57	0.26	498.67	151.00	0.20
Kaskazini Unguja	21.92	4.39	0.19	47.25	8.29	0.16	77.89	18.05	0.41
Kusini Unguja	42.31	12.24	0.24	88.73	26.79	0.65	NaN	NaN	NaN
Mjini Magharibi	9.27	1.67	0.08	36.09	8.16	0.26	NaN	NaN	NaN
Kaskazini Pemba	33.05	9.02	0.14	61.12	20.43	0.27	90.68	33.85	0.43
Kusini Pemba	32.53	8.54	0.16	61.21	16.71	0.47	NaN	NaN	NaN

Table 1. Means of the stratifying variables in each stratum and domain.

## Sample size

The total sample size is calculated considering precision requirements of the estimates within each domain. The reference variables used to calculate the sample size are the planted area and the number of Tropical Livestock Units (TLUs) as collected in the Agricultural Sample Census 2019/2020 (AC 2019/20). Details on the choice of these variables are given in Annex 1.

Variables related to aquaculture and beekeeping have not been considered for the sample size calculation because very few sampling units of the AC20 reported information on these sectors, with the consequence that for some domains they cannot be computed because the holdings sampled in them did not practice aquaculture or beekeeping; for other domains the CVs of these variables are too high, increasing too much  $cv_{ACd}^2$  in Formula (1) and, consequently, the sample size required for these domains. Therefore, the survey does not aim at producing reliable estimates for the aquaculture and beekeeping sectors. However, the questionnaire of AASS 2023 will contain a module on aquaculture and beekeeping to collect some information on these sectors and allow to compute a sample size for AASS 2024 that allows to produce reliable estimates for aquaculture and beekeeping in the next survey round.

In each domain the required sample size is computed according to the following formula:

$$\tilde{n}_d = \frac{1}{g_d} n_{ACd} \frac{cv_{ACd}^2}{cv_d^{*2}} , \quad (1)$$



where  $g_d$  is the expected response rate in domain  $d$  (it varies from 0.8 to 0.9),  $n_{ACd}$  is the sample size used in domain  $d$  in AC20,  $CV_{ACd}$  is usually the maximum between the CV of the average planted area ( $CV_{PAD}$ ) and the CV of the average number of TLUs ( $CV_{TLUd}$ ) as estimated using AC20 data and  $CV_d^*$  is the maximum acceptable CV for agricultural estimates in domain  $d$  for the AASS23.

The latter term is set equal to 10% for the regions that contribute most to the agricultural sector in terms of planted area and TLUs. In some regions it is set equal to 15%, 20% or 25% according to the contribution of the domain to the agricultural sector. The value of  $CV_{ACd}$  in some regions can be equal to  $CV_{PAD}$  or  $CV_{TLUd}$  or also to their average, depending on the contribution of crop cultivation or livestock production to the agricultural sector within the domain.

The sample sizes as obtained through this procedure are domain are shown in Table 2. In order to find the number of EAs to sample in each region, it is enough to take the upper integer part of the ratio between the domain sample size and the number of agricultural households that will be selected in each EA and that is set equal to 12. The total number of EAs is then calculated to be equal to 1,277. After a careful revision of these theoretical sample sizes which implied also simulations conducted from the AC 2019/20 data and after internal consultations, it was decided to decrease the maximum number of sampled EAs in each domain to 80 (instead of 120) and to increase the minimum number of sampled EAs in each domain to 20 (instead of 4) in Mainland and 13 in Zanzibar, for which a separate budget is available that allows to increase the overall sample size in its 5 Regions (Kaskazini Unguja, Kusini Unguja, Mjini Magharibi, Kaskazini Pemba, Kusini Pemba). The total sample size was then adjusted to be 16,224 agricultural holdings in 1,352 EAs.

Region	Area Planted (%)	TLU (%)	Average contribution area&TLU	CV (%) Area Planted	CV (%) - TLU	Realized sample	max CV (%)	CV* (%)	Response rate	sample size (ag. households)	sample size (EA)	sample size (EA) adjusted	sample size (ag. households) adjusted
Dodoma	10.0%	6.7%	8.4%	4.0	7.5	1,209	7.5	10.0	0.90	755	63	63	756
Arusha	1.5%	4.8%	3.1%	7.8	12.2	1,339	12.2	15.0	0.90	977	81	81	972
Kilimanjaro	1.6%	2.5%	2.1%	4.4	13.3	1,166	13.3	20.0	0.90	574	48	48	576
Tanga	4.4%	3.7%	4.0%	5.6	11.5	1,461	11.5	15.0	0.90	958	80	80	960
Morogoro	4.9%	2.7%	3.8%	3.9	15.5	1,619	9.7	15.0	0.85	796	66	66	792
Pwani	2.2%	2.1%	2.1%	4.8	35.8	1,081	4.8	15.0	0.85	128	11	25	300
Dar Es Salaam	2.2%	0.1%	1.1%	9.6	15.9	356	9.6	15.0	0.70	211	18	20	240
Lindi	4.1%	0.8%	2.5%	5.3	9.0	702	5.3	15.0	0.90	97	8	20	240
Mtwara	4.7%	0.6%	2.6%	3.1	7.3	1,140	3.1	15.0	0.90	53	4	25	300
Ruvuma	6.3%	1.8%	4.0%	4.0	6.9	1,338	6.9	15.0	0.90	312	26	40	480
Iringa	2.4%	2.0%	2.2%	5.8	17.6	570	17.6	20.0	0.80	555	46	46	552
Mbeya	4.0%	2.8%	3.4%	5.5	11.1	1,382	11.1	15.0	0.90	837	70	70	840
Singida	3.9%	5.7%	4.8%	4.3	7.0	969	7.0	15.0	0.90	237	20	25	300
Tabora	7.6%	7.2%	7.4%	4.2	9.5	1,277	9.5	10.0	0.80	1,440	120	80	960
Rukwa	3.5%	2.6%	3.1%	4.5	9.8	798	9.8	20.0	0.85	226	19	20	240
Kigoma	3.6%	2.8%	3.2%	5.9	8.6	853	8.6	20.0	0.90	175	15	25	300
Shinyanga	3.9%	5.6%	4.7%	3.5	5.6	1,193	5.6	15.0	0.90	186	16	30	360
Kagera	4.2%	3.1%	3.6%	4.0	11.3	992	11.3	20.0	0.85	371	31	35	420
Mwanza	3.7%	8.3%	6.0%	4.9	8.8	1,278	8.8	10.0	0.85	1,172	98	90	1,080
Mara	2.1%	6.7%	4.4%	3.8	9.5	1,139	9.5	15.0	0.85	543	45	45	540
Manyara	3.7%	7.5%	5.6%	7.2	8.7	1,167	8.7	10.0	0.90	977	81	80	960
Njombe	1.9%	1.2%	1.6%	4.9	7.9	846	7.9	20.0	0.90	146	12	20	240
Katavi	1.3%	1.9%	1.6%	6.5	13.5	647	13.5	20.0	0.80	371	31	31	372
Simiyu	3.5%	6.4%	5.0%	4.6	8.9	892	8.9	15.0	0.90	349	29	29	348
Geita	4.1%	6.6%	5.3%	5.8	10.2	831	10.2	10.0	0.80	1,074	90	80	960
Songwe	3.6%	3.1%	3.3%	7.6	24.4	672	24.4	20.0	0.80	1,247	104	60	720
Kaskazini Unguja	0.2%	0.1%	0.2%	5.2	14.1	427	14.1	25.0	0.90	152	13	35	420
Kusini Unguja	0.1%	0.1%	0.1%	5.2	12.3	275	12.3	25.0	0.90	75	6	17	204
Mjini Magharibi	0.2%	0.2%	0.2%	5.4	12.1	271	12.1	25.0	0.90	71	6	16	192
Kaskazini Pemba	0.3%	0.2%	0.2%	5.1	16.1	342	16.1	25.0	0.90	159	13	37	444
Kusini Pemba	0.5%	0.2%	0.3%	4.2	9.4	345	9.4	20.0	0.90	86	7	13	156
Tanzania	100.0%	100.0%		1.3	3.19972	28,577				15,310	1,277	1,352	16,224
Zanzibar												118	1,416
Mainland												1,234	14,808

Table 2. Sample size computed by domain.

### Sample allocations to strata

The EAs allocations to the strata are computed according to a multivariate criterion which follows the formula below:

$$m_{hd} = m_d \frac{\frac{M_{hd}}{M_d} V_{hd}}{\sum_{g=1}^H \frac{M_{gd}}{M_d} V_{gd}}, \quad (2)$$

where  $m_{hd}$  is the sample size allocated to stratum  $h$  in domain  $d$ ,  $m_d$  is the sample size in domain  $d$  as computed in the last column of Table 1,  $M_{hd}$  is the number of EAs in stratum  $h$  in domain  $d$ ,  $M_d$  is the number of EAs in domain  $d$ ,  $H$  is the total number of strata and  $V_{hd}$  is a convex combination of the single variables' variances in stratum  $h$  and domain  $d$ , i.e.  $V_{hd}^2 = \sum_{k=1}^K q_{kd} S_{hkd}^2$ , with  $S_{hkd}^2$ ,  $q_{kd}$  and  $K$  indicating respectively the variance of variable  $k$  in stratum  $h$  and domain  $d$ , the coefficient of importance of the variable  $k$  and the total number of variables considered in the allocation procedure. In our case  $K$  is equal to three and the stratifying variables are the number of households growing crops ( $k = 1$ ), number of households rearing livestock ( $k = 2$ ) and number of households practicing aquaculture ( $k = 3$ ), whose coefficients  $q$ s are respectively 0.4, 0.4 and 0.2 in each domain and stratum. In some domains the number of strata is set equal to two because of the low sample size. The final EAs allocations by domain are shown in Table 3. An example of strata allocations in Dodoma is given in Annex 2.

**Table 3. EAs allocations to sampling strata in each domain**

Region	Allocations – EAs			
	Stratum1	Stratum2	Stratum3	Total sample size
Dodoma	27	23	13	63
Arusha	27	38	16	81
Kilimanjaro	25	18	5	48
Tanga	44	29	7	80
Morogoro	34	22	10	66
Pwani	15	7	3	25
Dar es Salaam	13	7	NA	20
Lindi	13	7	NA	20
Mtwara	11	8	6	25
Ruvuma	23	14	3	40
Iringa	23	18	5	46
Mbeya	46	19	5	70
Singida	13	9	3	25
Tabora	48	23	9	80
Rukwa	11	9	NA	20
Kigoma	15	7	3	25
Shinyanga	15	11	4	30
Kagera	18	13	4	35
Mwanza	39	40	11	90
Mara	17	19	9	45
Manyara	37	29	14	80
Njombe	13	7	NA	20
Katavi	16	8	7	31
Simiyu	13	10	6	29
Geita	57	19	4	80
Songwe	30	20	10	60
Kaskazini Unguja	11	15	9	35
Kusini Unguja	10	7	NA	17
Mjini Magharibi	11	5	NA	16
Kaskazini Pemba	12	15	10	37
Kusini Pemba	7	6	NA	13

### Calculation of sampling weights

The sampling weight assigned to the agricultural households  $j$  in EA  $i$  in domain  $d$  and stratum  $h$  is calculated as follows:

$$w_{jihd} = 1 / \left[ \left( m_{hd} \frac{F_{ihd}}{F_{hd}} \right) * \left( \frac{n_{ihd}}{N_{ihd}} \right) \right], \quad (3)$$

where  $m_{hd}$  is the number of EAs selected in stratum  $h$  in domain  $d$ ,  $F_{ihd}$  is the total number of agricultural households in the  $i$ -th EA and stratum  $h$  in domain  $d$  as listed in the sampling frame,  $F_{hd}$  is the total number of agricultural households in stratum  $h$  and domain  $d$  as listed in the sampling frame,  $n_{ihd}$  and  $N_{ihd}$  are respectively the number of agricultural households sampled and found after the listing operation in the  $i$ -th EA in stratum  $h$  and domain  $d$ .

### Estimation

In order to estimate the total  $\hat{Y}$  of a variable  $Y$ , it's enough to apply the following formula:

$$\sum_{d=1}^{31} \sum_{h=1}^H \sum_{i=1}^{m_{hd}} \sum_{j=1}^{n_{ihd}} w_{jihd} y_{jihd}, \quad (4)$$

Where  $y_{jihd}$  is the value of the variable  $Y$  for unit  $j$  in the  $i$ -th EA in stratum  $h$  and domain  $d$  and  $H$  is the total number of strata in domain  $d$ .

An approximation of the variance of the total  $\hat{Y}$  considering only the PSU component is given by:

$$V(\hat{Y}) = \sum_{d=1}^{25} \sum_{h=1}^H \frac{M_{hd}^2}{m_{hd}(m_{hd} - 1)} \sum_{i=1}^{m_{hd}} \left( \hat{Y}_{ihd} - \frac{1}{m_{hd}} \sum_{i=1}^{m_{hd}} \hat{Y}_{ihd} \right)^2, \quad (5)$$

where  $M_{hd}$  is the total number of EAs found in stratum  $h$  and domain  $d$  and  $\hat{Y}_{ihd}$  is the estimate of the total amount of  $Y$  in the  $i$ -th PSU in stratum  $h$  and domain  $d$ .

#### *Annex 1. Key variables for the calculation of the sample size.*

In order to compute the sample size for the Annual Agricultural Sample Survey 2023, we need to consider the targeted and realized precision of few key variables correlated to the overall set of variables that are going to be estimated using AASS23 data. It's not easy to select few representative variables for all the hundreds estimates that are usually produced through a survey. For the agricultural surveys, the choice usually falls on the *planted area* for the crop-related estimates and on the *number of TLUs* for the livestock-related estimates. The derivative variables *crop production* and *livestock production* are sometimes used, even though their variability (e.g. CV) is usually higher because they are obtained through quite complex operations on several original variables. It is also preferable to focus on the planted area than on the harvested area because the latter is usually collected on less holdings and, consequently, it may be less representative. If the agricultural survey aims at producing important estimates on fishery and aquaculture, it is necessary to include key variables for these sectors in the computation of the sample size, such as the area devoted to aquaculture activities or the number of fishes harvested. For the household surveys, the choice of the key variables usually falls on the household's income or on variables related to poverty indexes usually identified by the analyst, such as the access to electricity.

For the Annual Agricultural Sample Survey 2023 the key variables selected for the computation of the sample size were the *planted area* and the *number of TLUs*. With *planted area* is intended the operated land under temporary, permanent crops, planted trees and fallow (categories 5.1.1., 5.1.2., 5.1.3., 5.1.4., 5.1.5., 5.1.8 and 5.1.10 of Question 5.1. in the AC20 questionnaire). Since the planted area by crop is collected both for the short rainy season and the long rainy season it was preferred to choose the variable generated by the more general Question 5.1. as reference for the calculation of the sample size. Using the AC20 data, it has been shown that the holding's planted area (computed summing up the planted area by crop) is extremely correlated with the holding's harvested area (computed summing up the harvested area by crop), with a correlation greater than 90%.

#### *Annex 2. Example: calculation of sample size and strata allocations in Dodoma.*

During the Agricultural Sample Census 2019/2020, 1,209 agricultural households were sampled in Dodoma ( $n_{ACdodoma} = 1,209$ ) whose contribution to the national agricultural sector is 10% in terms of

area planted and 6.7% in terms of TLUs. Given the high contribution both in terms of crop cultivation and livestock,  $cv_d^*$  is set equal to 10% and  $cv_{ACdodoma}$  is the maximum between  $cv_{PAdodoma}$  (=4%) and  $cv_{TLUdodoma}$  (=7.49%), i.e.  $cv_{ACdodoma}=7.49\%$ .

Hence, from Formula (1) the sample size in Dodoma is calculated to be:

$$\tilde{n}_d = \frac{1}{g_{dodoma}} n_{ACdodoma} \frac{cv_{ACdodoma}^2}{cv_d^{*2}} = \tilde{n}_d = \frac{1}{0.9} 1,209 \frac{7.49^2}{10^2} = 755$$

To compute the number of EAs to be sampled in Dodoma ( $m_{dodoma}$ ), it is enough to divide  $\tilde{n}_{dodoma}$  by 12 and take the integer part, i.e.:

$$m_{dodoma} = \left\lfloor \frac{\tilde{n}_{dodoma}}{12} \right\rfloor = \left\lfloor \frac{755}{12} \right\rfloor = 63$$

The EAs in Dodoma have been stratified in three strata according to the number of households growing crops, rearing livestock and practicing aquaculture. From Table 1 and Figure 1 it is possible to see that the third stratum is composed by EAs which includes on average 341.95 households cultivating crops, 98.56 households rearing livestock, 0.11 households practicing aquaculture. In the other two strata EAs contain on average less agricultural households, particularly stratum one is formed by EAs where households are less intensively engaged in crop cultivation, livestock rearing and aquaculture.

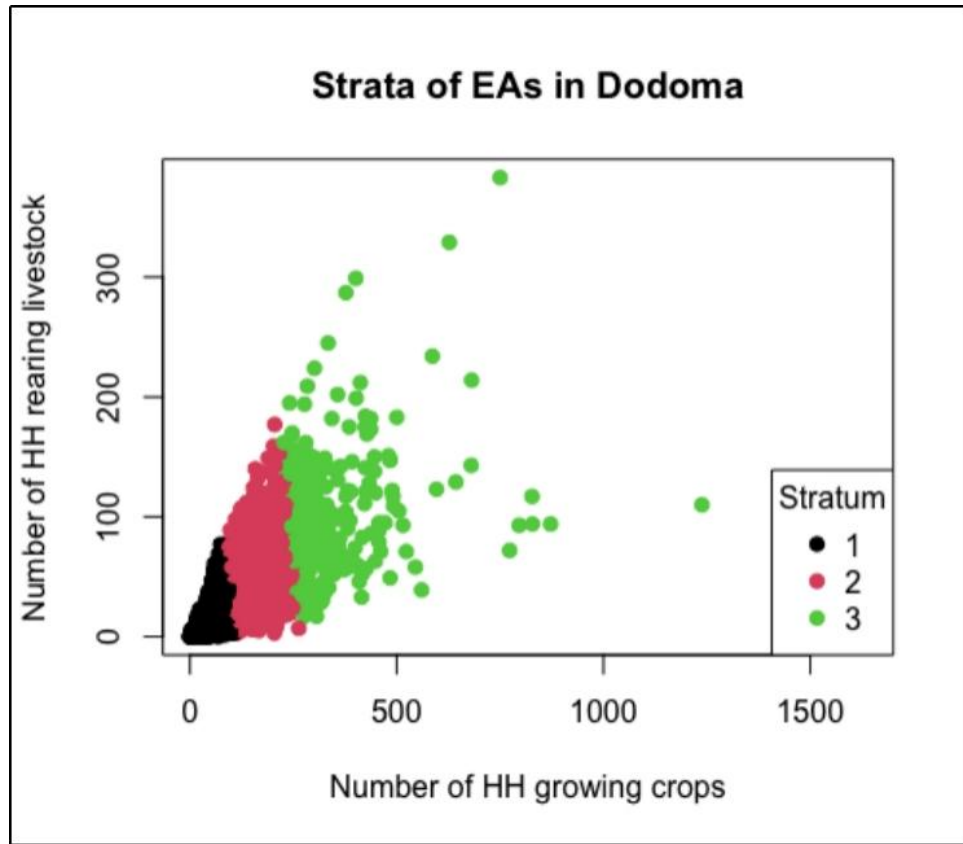


Figure 1. Enumeration Areas stratified according to the number of households growing crops and rearing livestock.

Formula 2 allows to take into consideration both the numerosity of the strata in Dodoma ( $M_{1dodoma} = 2755, M_{2dodoma} = 1679, M_{3dodoma} = 291$ ), the variances of the three stratifying variables in stratum one ( $S_{11dodoma}^2 = 853.71, S_{12dodoma}^2 = 211.66, S_{13dodoma}^2 = 0.065$ ), in stratum two ( $S_{21dodoma}^2 = 1525.71, S_{22dodoma}^2 = 585, S_{23dodoma}^2 = 0.055$ ), in stratum three ( $S_{31dodoma}^2 = 20059.31, S_{32dodoma}^2 = 2257.48, S_{33dodoma}^2 = 0.123$ ) and the coefficients  $q_1, q_2$  and  $q_3$  set respectively to 0.4, 0.4 and 0.2 in all the domains and strata.

According to Formula 2 and considering  $V_{1dodoma}^2 = \sum_{k=1}^3 q_k S_{1kdodoma}^2 = 426.163$ ,  $V_{2dodoma}^2 = \sum_{k=1}^3 q_k S_{2kdodoma}^2 = 844.32$ ,  $V_{3dodoma}^2 = \sum_{k=1}^3 q_k S_{3kdodoma}^2 = 9046.728$ , the allocations to stratum 1, stratum 2, stratum 3 are calculated to be:

$$\begin{aligned}
 m_{1dodoma} &= m_{dodoma} \frac{\frac{M_{1dodoma}}{M_{dodoma}} V_{1dodoma}}{\sum_{g=1}^H \frac{M_{gdodoma}}{M_{dodoma}} V_{gdodoma}} \\
 &= 63 * \frac{\frac{2755}{4725} * 20.64}{\frac{2755}{4725} * 20.64 + \frac{1679}{4725} * 29 + \frac{291}{4725} * 95.11} = 26.88,
 \end{aligned}$$



$$\begin{aligned}
m_{2dodoma} &= m_{dodoma} \frac{\frac{M_{2dodoma}}{M_{dodoma}} V_{2dodoma}}{\sum_{g=1}^H \frac{M_{gdodoma}}{M_{dodoma}} V_{gdodoma}} \\
&= 63 * \frac{\frac{1679}{4725} * 29}{\frac{2755}{4725} * 20.64 + \frac{1679}{4725} * 29 + \frac{291}{4725} * 95.11} = 23.02,
\end{aligned}$$

$$\begin{aligned}
m_{3dodoma} &= m_{dodoma} \frac{\frac{M_{3dodoma}}{M_{dodoma}} V_{3dodoma}}{\sum_{g=1}^H \frac{M_{gdodoma}}{M_{dodoma}} V_{gdodoma}} \\
&= 63 * \frac{\frac{291}{4725} * 95.11}{\frac{2755}{4725} * 20.64 + \frac{1679}{4725} * 29 + \frac{291}{4725} * 95.11} = 13.08,
\end{aligned}$$

Rounding the three values to the nearest integer we get exactly the allocations given in Table 3, i.e. 27, 23, 13.

### Sampling Weight Adjustment and Calibration

#### Difference between the AASS 2023 DATASET and the original SAMPLE DATASET:

10 EAs were missing (for a total of 120 HHs); in the present EAs 70 HHs were missing, for a total of 190 missing HHs (120+70).

#### First stage weights' adjustment:

The weights of the missing EAs should be redistributed among the EAs located in the same domain (Region) and in the same stratum. The vector of the adjusted weights  $W_{a1\_ds}$  of the non-missing EAs in domain  $d$  and stratum  $s$  becomes:

$$W_{a1\_ds} = \frac{\sum_{j=1}^{M_{ds}} W_{1j}}{\sum_{j=1}^{M_{dsR}} W_{1j}} * W_{1\_ds\_R}$$

where  $M_{ds}$  is the total number of sampled EAs in domain  $d$  and stratum  $s$ ,  $M_{dsR}$  is the total number of sampled EAs in domain  $d$  and stratum  $s$  which were accessed or have at least one HH that responded,  $W_{1j}$  is the initial sampling weight of EA  $j$ ,  $W_{1\_ds\_R}$  is a the vector of the sampling weights of the EAs in domain  $d$  and stratum  $s$  which were accessed or have at least one HH that responded.

#### Second stage weights' adjustment<sup>2</sup>:

<sup>2</sup>The initial second stage weights of the HHs living in the large EAs were already available in the sample dataset, whilst those of the HHs staying in the small EAs have been simply computed dividing the number of households that declared to practice agriculture during the listing by 12 if the number of households that declared to practice agriculture during the listing is greater than 12, otherwise they have been set equal to 1.

In each EA the vector of the adjusted second stage weights  $W_{a2\_EA_j}$  of the responsive and eligible HHs in EA  $j$ , becomes:

$$W_{a2\_j} = \frac{\sum_{i=1}^{N_j} W_{2i}}{\sum_{i=1}^{N_{jR}} W_{2i}} * W_{2\_j\_R}$$

where  $N_j$  is the total number of eligible sampled HHs in EA  $j$ ,  $N_j$  is the total number of sampled-responder HHs in EA  $j$ ,  $W_{2i}$  is the initial second stage sampling weight of HH  $i$  and  $W_{2\_j\_R}$  is the vector of sampling weights of respondent HHs in EA  $j$ .

**Final adjusted sampling weights:** these are computed as follows:

$$weight\_final\_adjusted = weight\_EA\_adjusted * weight\_HH\_adjusted$$

**Source of calibration.** The frame derived from the PHC 2022 (version of March 2024) was used as source of calibration. Table 4 shows the number of agricultural households as estimated from the survey sample by using the adjusted weights and the number of agricultural households in the updated PHC 2022 frame. The calibration coefficient in each Region  $R$  is computed dividing the latter by the former, i.e.

$$Calibration\ coefficient_R = \frac{Ag.\ HHs\ frame_R}{\sum_{i=1}^{N_R} W_{ai}},$$

where  $N_R$  is the number of total sampled units in region  $R$  and  $W_{ai}$  is the final adjusted weight of household  $i$ .



**Table 3. Agricultural Households as computed from the sample and frame, by region.**

<b>REGION _ID</b>	<b>REGION</b>	<b>Ag. HHs as estimated from the sample</b>	<b>Ag. HHs as computed from the frame</b>	<b>Calibration Coefficient</b>
1	Dodoma	396,605	553,124	1.3946
2	Arusha	242,699	337,598	1.3910
3	Kilimanjaro	247,528	335,627	1.3559
4	Tanga	296,941	462,923	1.5590
5	Morogoro	356,382	560,248	1.5720
6	Pwani	208,561	261,038	1.2516
7	Dar es Salaam	170,923	240,681	1.4081
8	Lindi	216,160	278,215	1.2871
9	Mtwara	353,817	394,048	1.1137
10	Ruvuma	259,448	376,275	1.4503
11	Iringa	178,157	236,483	1.3274
12	Mbeya	273,363	392,725	1.4366
13	Singida	252,748	308,882	1.2221
14	Tabora	272,964	444,349	1.6279
15	Rukwa	180,602	247,649	1.3712
16	Kigoma	293,863	319,151	1.0861
17	Shinyanga	249,449	275,456	1.1043
18	Kagera	422,230	548,229	1.2984
19	Mwanza	310,293	401,578	1.2942
20	Mara	241,573	322,464	1.3349
21	Manyara	227,148	306,858	1.3509
22	Njombe	131,523	195,146	1.4837
23	Katavi	110,230	150,583	1.3661
24	Simiyu	182,080	257,261	1.4129
25	Geita	231,333	362,130	1.5654
26	Songwe	190,007	246,468	1.2972
51	Kaskazini Unguja	23,311	27,489	1.1792
52	Kusini Unguja	18,035	27,506	1.5252
53	Mjini Magharibi	33,035	38,983	1.1801
54	Kaskazini Pemba	27,273	32,207	1.1809

55	Kusini Pemba	32,401	29,265	0.9032
	<b>TOTAL</b>	<b>6,630,682</b>	<b>8,970,639</b>	

**Calibrated sampling weights:** these are computed as follows:

$$weight\_calibrated = weight\_final\_adjusted * calibration\_coefficient$$

### About the document:

This note is mainly drawn from the “Agricultural Survey Design: Lessons from the LSMS ISA and Beyond” by Dillon, A., Carletto, G., Gourlay, S., Wollburg, P., & Zezza, A; Washington DC: World Bank. (2021)

The African Centre for Statistics of the Economic Commission for Africa prepared this excerpt as a supplementary document for conducting the verifications under the East Regional Statistics Program for Results which is implemented in partnership with the East African Community and the national implementing agencies.

This is a live document that will be regularly updated as the project progresses.

## SAMPLING-RELATED CONSIDERATIONS

The AASS 2022/23 sampling design is extensively described in the survey report (see final draft), thus it will not be repeated here. Rather, below we discuss some challenges affected the sample of the 2022/23 round. These are: the sampling frame, the sample size/precision and the second-stage listing (i.e., households).

### Sampling Frame

The AASS 2022/23 used the Population and Housing Census of 2022 (PHC 2022) as list frame. Unfortunately, 17.3% of EAs in this frame have more than 200 households (hitting the maximum of 11,660). The highly populated EAs have a very high probability to be extracted in the sample, but in these EAs the listing of agricultural households is impossible. To solve this problem, a mixed approach was used – i.e., conducting the listing operation in the hamlets with less than 200 households and using the list of agricultural households from the PHC 2022 in the large hamlets (> 200 households).

While the PHC 2022 household lists can be considered fairly updated for a survey conducted at the end of 2023, household lists generally become outdated quickly as people migrate or change their engagement in agriculture.

*For the next AASS rounds, and for all surveys conducted by NBS, it is crucial that the large EAs are segmented (and linked with the PHC 2022 data) and a frame suitable for statistical operations is developed.*

### Sample size/precision

The AASS 2022/23 was representative at national and sub-national (regional) level. Following common practices of agricultural surveys, the survey sample size was calculated considering the precision requirements of two key target variables – i.e., area planted and number of livestock (in TLU). Normally, these two summary variables yield a sufficient level of precision at regional level for the main crops of the country.

Nonetheless, in Tanzania several crops have shown a Coefficient of Variation (CV) higher than expected. This is probably due to the considerable diversification of crop production across the region.

For each crop, the table below shows the number of regions where the CV was higher than 35 while the excel file in Annex contains the CVs of all crops covered by the survey.

**Table 1: Number of regions with CV higher than 35**

	Vuli	Masika	Ag Year
Maize	8	10	4
Paddy	18	22	19
Sorghum	18	23	22
Bulrush Millet	5	6	7
Cassava	20	25	19
Sweet potatoes	17	21	20
Irish potatoes	12	12	17
Cocoyams	12	12	14
Onion	12	16	18
Garlic	13	3	3
Beans	23	14	13
Cowpeas	20	27	28
Pigeon pea	9	14	17
Sunflower	24	16	12
Sesame	7	26	17
Groundnut	15	8	24
Cashew nut	18	13	9
Cotton	7	15	9
Coffee	25	9	11
Sugar cane	12	27	27
Cardamon	16	11	8
Cinnamon	19	18	7
Clove	27	24	9
Banana	20	29	21
Avocado	18	19	19

To increase the precision of the survey estimates, especially on the main crops, the sampling design of AASS 2023/24 will take into account the variability of the main crops across the region. In particular, in each region, two or three leading crops will be picked among the following: *banana*, *beans*, *cassava*, *maize*, *paddy*, *sunflower*. By doing so, we will ensure that each region obtain an adequate CV in the two or three main crops.

### Household listing

The AASS 2022/23 incorporated the household listing and the survey in the same operation. So, the survey teams were expected to devote one day to list the households living in the EA and two days to interview the 12 sampled agricultural households.

Since enumerators were given the double role of listers and survey enumerators, it is possible that some remote or hard-to-reach areas of the EAs were not visited and households not listed due to pressure of listing and collecting data in a parallel mode.

*In any case, to avoid or minimize biases, the future AASS rounds should implement a listing separated from the survey and give the listers adequate amount of time and punctual supervision.*

## **SURVEY CALENDAR CONSIDERATIONS**

### **Change of survey calendar**

The initial plan for the AASS 2023/24 was to adopt a two-visit approach, with the first visit implemented after the Masika planting period and the second visit conducted at the end of the agricultural year. On this basis, survey instruments were developed and field test conducted in early 2023. Difficulty in accessing IDA funds and lack of Governmental resources obliged NBS and OCGS to revisit the survey calendar and to adopt a one-visit approach.

*For future rounds, it is highly recommended better integration between the technical workplan and funding availability; more dialogue within the technical department in charge of the AASS, the finance department and the NBS/IDA coordinator, and in general greater awareness of the payment schedule and procedures.*

### **Data collection timing and duration**

In addition to causing a change in the survey calendar, lack of funding access was one of the reasons causing the field work to begin in November 2023 (instead of October). Ultimately, the survey started in November 2023 and ended in mid-February 2024. The belated start exacerbated the already existing logistical difficulties, with many teams slowed down by heavy rains and floods.

*For the next rounds, it is imperative that the field work starts at the beginning of October and ends in December. This can be achieved starting the preparation well in advance, conducting the listing as a separate operation to increase the quality of the data.*

## **DATA COLLECTION CONSIDERATIONS**

Building off the experience of the annual agricultural surveys in Tanzania and the expertise of FAO provided through the 50x2030 Initiative, the AASS 2022/23 introduced several innovations aimed to improve the quality of the data. One of the main innovations was the collection of crop production in local units of measurement and the use of conversion factors for transforming the quantities in tonnes of crop production in final state. This was possible thanks to the implementation of a Non-Standard Units of Measurement Survey.

### **Non-Standard Units of Measurement Survey**

The use of standard units of measurement, such as kilograms and tons, is relatively uncommon in Tanzania, particularly outside of major markets or larger farms that fall within the non-household

sector. Instead, like their counterparts in other developing countries, Tanzanian farmers and traders typically rely on local or non-standard units (NSUs) for measuring and conducting their daily activities. Whether they are selling goods or quantifying production, these non-standard units play a central role in the agricultural and trade practices across the country.

The survey's objective was to collect and document kilogram equivalents (conversion factors) of local units of measurements for specific priority commodities-units combinations. The commodity-nonstandard unit combinations included in the market survey were selected through consultations with the Ministry of Agriculture, NBS and OCGS personnel who identified commodities of key importance in the Mainland Tanzania and Zanzibar.

The conversion factors generated from the market survey were used to transform the quantities of production, sales and input use collected during the AASS 2022/23 survey cycle from local to standard unit, thus improving the quality of estimates. The table below show the market locations visited in Mainland and Zanzibar.

**Table 2 - Locations Visited in Mainland Tanzania and Zanzibar**

Agroecological zones	Locations
Northern Zone	<ul style="list-style-type: none"> <li>• Arusha</li> <li>• Kilimanjaro</li> <li>• Manyara</li> </ul>
Eastern Zone	<ul style="list-style-type: none"> <li>• Dar es Salaam</li> <li>• Morogoro</li> <li>• Pwani</li> <li>• Tanga</li> </ul>
Southern Zone	<ul style="list-style-type: none"> <li>• Lindi</li> <li>• Mtwara</li> </ul>
Western Zone	<ul style="list-style-type: none"> <li>• Kigoma</li> <li>• Tabora</li> </ul>
Northern Southern Zone	<ul style="list-style-type: none"> <li>• Iringa</li> <li>• Katavi</li> <li>• Mbeya</li> <li>• Njombe</li> <li>• Rukwa</li> <li>• Ruvuma</li> <li>• Songwe</li> </ul>
Lake Zone	<ul style="list-style-type: none"> <li>• Geita</li> <li>• Kagera</li> <li>• Mara</li> <li>• Mwanza</li> <li>• Shinyanga</li> <li>• Simiyu</li> </ul>

Central Zone	<ul style="list-style-type: none"> <li>• Dodoma</li> <li>• Singida</li> </ul>
Pemba	<ul style="list-style-type: none"> <li>• Kusini Pemba</li> <li>• Kaskazini Pemba</li> </ul>
Unguja	<ul style="list-style-type: none"> <li>• Kaskazini Unguja</li> <li>• Mjini Magharibi Unguja</li> </ul>



## Annex D: Questionnaire



The United Republic of Tanzania



### ANNUAL AGRICULTURAL SAMPLE SURVEY 2022/23

(This information is collected under the Statistics Act, [Cap 351 R.E 2019])

**THIS INFORMATION IS STRICTLY CONFIDENTIAL AND IS TO BE USED FOR STATISTICAL PURPOSES ONLY**



**REGION:**

.....

**DISTRICT:**

.....

**COUNCIL:**

.....

**WARD/SHEHIA:**

.....

**VILLAGE/MTAA:**

.....

**EA/ENUMERATION AREA:**

.....

**HEADNAME/FARM ADMINISTRATOR:**

.....

**PHONE/SIMU:**

.....

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	END OF INTERVIEW

## SECTION 0: SCREENING

ENUM\_ID\_SCREEN ENUM\_ID\_SCREEN. Enumerator enter his/her code.

SUP\_ID\_SCREEN SUP\_ID. Enumerator enter his/her team supervisor's code.

CONFIRM CONFIRM. DO NOT READ OUT LOUD: Do you confirm that the household you are about to list is located in %REGION% region, %DISTRICT% district, %WARD% ward/shehia, %VILLAGE% village, and in the EA number %EA%?

☐ 0 No

☐ 1 Yes

*If CONFIRM==1*

**INSTRUCTION:** Go to the household now and attempt to start the interview. To start the interview, seek out a competent respondent. A competent respondent must be 15 years of age or older and must have knowledge of the household agricultural activities. The respondent is preferably the household head.

Should no competent respondent be available at the time of your visit, you can set a maximum of two additional appointments to identify and interview a competent respondent.

*If CONFIRM==1*

INTVW\_START INTVW\_START. Record the date and time the interview started.

*If CONFIRM==1*

**INFORMED CONSENT:**

Hello, my name is \_\_\_\_\_. I am working with \_\_\_\_\_. The Ministry of Agriculture and the National Bureau of Statistics are preparing for an agriculture survey and I need to ask you a few questions to assess your agricultural activity. The data will be used to select farms for the survey. This will take only 5 minutes. If you have any questions related to this survey, please contact \_\_\_\_\_ at the National Bureau of Statistics on \_\_\_\_\_. Do you have any questions for me?

*If IsAnswered(INTVW\_START)*

CONSENT CONSENT. Can I start asking questions now?

☐ 0 No

☐ 1 Yes

*If CONSENT==1*

## SUB-SECTION - HOUSEHOLD AGRICULTURAL ACTIVITY - *Start*

**ADDRESS** ADDRESS. Enumerator record any information that could help locate the household: street, house number, identifiable characteristics, etc.

**HEAD\_NAME** HEAD\_NAME. What is the name of the household head?

**\* Record the three names of the household head**

**Q00** Q00. Is %HEAD\_NAME% the respondent?

- ☐ 0 No
- ☐ 1 Yes

*If Q00==0*

**RESPNAME** RESPNAME. What is the respondent's name?

**\* Record the three names of the respondent**

*If Is Answered (RESPNAME)*

**Q01** Q01. What is %RESPNAME%'s relationship to %HEAD\_NAME%?

- ☐ 1 Wife/husband of the head
- ☐ 2 Son/daughter of the head
- ☐ 3 Father/mother of the head
- ☐ 4 Grandson/granddaughter of the head
- ☐ 5 Other relative
- ☐ 6 Other

*If (Is Answered(Q01) && Q01!=4) || Q00==1*

**Q02** Q02. Did any member of %HEAD\_NAME%'s household engage in own account crop cultivation activity during the 2022/23 agricultural year?

**\* Do not consider crop cultivation activities performed as paid employees or unpaid workers**

- ☐ 0 No
- ☐ 1 Yes

**Q03** Q03. What was the total area currently cultivated by %HEAD\_NAME%'s household during the 2022/23 agricultural year?

**\* Include plots cultivated under temporary or permanent crops**

*If Is Answered(Q03)*

**Q03\_unit** Q03\_unit. DO NOT READ OUT LOUD:  
Unit mentioned by the respondent.

- ☐ 1 Hectares
- ☐ 2 Acres
- ☐ 3 Square meters

Q04

Q04. Did any member of %HEAD\_NAME%'s household engage in own account livestock, rabbit or poultry raising activity during the 2022/23 agricultural year?

\* Do not include pets, racing horses, fighting chicken or cattle raised for cattle judging

☐ 0 No
 ☐ 1 Yes

If Q04==1

Q05

Q05. During the 2022/23 agricultural year, what type of animals were raised by %HEAD\_NAME%'s household?

\* Select all that apply

☐ 1 Cattle
 ☐ 2 Goats
 ☐ 3 Sheep
 ☐ 4 Pigs
 ☐ 5 Poultry (including chicken, ducks, turkeys)
 ☐ 6 Rabbits
 ☐ 7 Other animals not listed above

If Q05.ContainsAny(1,2,3,4,5)

**INSTRUCTION:** The following inventory questions only apply to livestock and poultry that are kept on that particular household holding.

If Q05.Contains(1)

Q05\_cattle

Q05\_cattle. How many cattle does %HEAD\_NAME%'s household rear as of today?

If Q05.Contains(2)

Q05\_goat

Q05\_goat. How many goats does %HEAD\_NAME%'s household rear as of today?

If Q05.Contains(3)

Q05\_sheep

Q05\_sheep. How many sheep does %HEAD\_NAME%'s household rear as of today?

If Q05.Contains(4)

Q05\_pig

Q05\_pig. How many pigs does %HEAD\_NAME%'s household rear as of today?

If Q05.Contains(5)

Q05\_poultry

Q05\_poultry. How many poultry does %HEAD\_NAME%'s household rear as of today?

\* Poultry includes chicken, ducks and turkeys

If Q05.Contains(6)

Q05\_rabbit

Q05\_rabbit. How many rabbits does %HEAD\_NAME%'s household rear as of today?

Q06

Q06. Did any member of %HEAD\_NAME%'s household engage in own account bee-keeping activity during the 2022/23 agricultural year?

\* Do not consider activities performed as paid employees or unpaid workers

☐ 0 No
 ☐ 1 Yes

Q07

Q07. Did any member of %HEAD\_NAME%'s household engage in own account aquaculture activity during the 2022/23 agricultural year?

\* Do not consider aquaculture activities performed as paid employees or unpaid workers

☐ 0 No
 ☐ 1 Yes

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*If Q02==1 || Q04==1 || Q07==1*

CONTACT\_SCREEN\_1 CONTACT\_SCREEN\_1. What is %HEAD\_NAME%'s phone number?

*\* If no phone number, enter 0000000000*

*If IsAnswered(CONTACT\_SCREEN\_1) && CONTACT\_SCREEN\_1!="0000000000"*

CONTACT\_SCREEN\_2 CONTACT\_SCREEN\_2. What is %HEAD\_NAME%'s second phone number?

*\* If no second phone number, enter 0000000000*

*If CONTACT\_SCREEN\_1 == "0000000000" || CONTACT\_SCREEN\_2 == "0000000000"*

CONTACT\_SCREEN\_3 CONTACT\_SCREEN\_3. Please give me the phone number of a close relative or neighbor of %HEAD\_NAME% whom I can call to get back in touch with you?

Holding\_TYPE CAPI-COMPUTED VARIABLE: 1 if this is a small-scale holding and 2 if large-scale holding.

*Scope: Hidden*

AGRI CAPI-COMPUTED VARIABLE: 1 if this is an agricultural household (Q02 or Q04 equal to 1) and 0 if it is a non-agricultural household (Q02 AND Q04 = 0).

ELIGIBLE\_SMALLSCALE CAPI-COMPUTED VARIABLE: 1 if this is a small holding (at least 25m2 cultivated OR 1 cattle OR 5 goats/pigs/sheep OR 50 chicken/ducks) and 99 otherwise.

ELIGIBLE CAPI-COMPUTED VARIABLE: 1 if ELIGIBLE\_SMALLSCALE == 1 and Holding\_TYPE == 1

INTVW\_END INTVW\_END. Record the date and time the interview ended.

#### SUB-SECTION 1 - HOUSEHOLD AGRICULTURAL ACTIVITY - End

*If ELIGIBLE==1*

GPS GPS. Please record the household GPS coordinates in front of the main dwelling.

*\* Make sure you are outside, with a clear view of the sky.*

RESULT\_SCREEN RESULT\_SCREEN. DO NOT READ OUT LOUD: Please select the screening result.

- ☐ 1 Complete
- ☐ 2 Incomplete - respondent termination
- ☐ 3 Refusal
- ☐ 4 Absent at 2nd appointment
- ☐ 5 Cannot interview (respondent sick, in quarantine, cannot speak, etc.)

COMMENT\_SCREEN COMMENT\_SCREEN. Insert any general comments on this screening

*If Q02==1 || Q04==1*

SELECT\_SURVEY SELECT\_SURVEY. DO NOT READ OUT LOUD: Has this holding been selected for the main survey?

*Scope: Supervisor*

- ☐ 0 No
- ☐ 1 Yes

INSTRUCTION: GO TO THE HOUSEHOLD/FARM NOW AND ATTEMPT TO START THE INTERVIEW. TO START THE INTERVIEW, SEEK OUT A COMPETENT RESPONDENT - I.E., AN INDIVIDUAL OF 15 YEARS OR ABOVE WHO KNOWS THE HOUSEHOLD/FARM'S AGRICULTURAL ACTIVITIES. THE RESPONDENT FOR THIS HOUSEHOLD/FARM WILL PREFERABLY BE %HEADNAME%.

**If Holding\_TYPE==1**

1. DO NOT READ OUT LOUD: Does this household still live in %REGION% region, %DISTRICT% district, %WARD% ward/shehia, %VILLAGE% village, and in the EA number %EA%?

**If Q1==1 || Holding\_TYPE==2**

INTVW\_STARTa. INTERVIEW START DATE AND TIME (1st attempt).

**If Q1==1 || Holding\_TYPE==2**

2a. Is %HEADNAME% available for the interview?

**If Q2a==0**

3a. Is there any other competent respondent to answer questions on the agricultural activities of the household/farm? (eg., area planted, production, input use, etc.)

**If Q3a==0**

INSTRUCTION: SET UP AN APPOINTMENT AND COME BACK LATER TO INTERVIEW A COMPETENT RESPONDENT. YOU MAY CONTACT %HEADNAME% AT %PHONE% TO SET A 1ST APPOINTMENT.

**If Q3a==0**

INTVW\_STARTb. INTERVIEW START DATE AND TIME (2nd attempt).

**If Q3a==0**

2b. Is %HEADNAME% available for the interview?

**If Q2b==0**

3b. Is there any other competent respondent to answer questions on the agricultural activities of the household/farm? (eg., area planted, production, input use, etc.)

**If Q3b==0**

INSTRUCTION: SET UP AN APPOINTMENT AND COME BACK LATER TO INTERVIEW A COMPETENT RESPONDENT. YOU MAY CONTACT %HEADNAME% AT %PHONE% TO SET A 2ND APPOINTMENT.

**If Q3b==0**

INTVW\_STARTc. INTERVIEW START DATE AND TIME (3rd attempt).

**If Q3b==0**

2c. Is %HEADNAME% available for the interview?

**If Q2c==0**

3c. Is there any other competent respondent to answer questions on the agricultural activities of the household/farm? (eg., area planted, production, input use, etc.)

**If (Q2a==1 || Q3a==1||Q2b==1||Q3b==1||Q2c==1||Q3c==1)**

4. Is %HEADNAME% the respondent?

**If Q4==0**

5. What is the name of the respondent? \* Record the three names of the respondent

**CAPI RESPNAME:** Stores the respondent name, %HEADNAME% if Q4==1 or %Q5% if Q4==0.

**If (Q2a==1 || Q3a==1||Q2b==1||Q3b==1||Q2c==1||Q3c==1)**

*Hello, I am (name) from the National Bureau of Statistics (NBS)/Office of Chief Government Statistician (OCGS).*

*We are conducting an annual agricultural survey in Tanzania. Your household/farm has been randomly chosen to participate in this survey. Your cooperation and answers would be extremely important since they reflect the status of many of our farmers who live in similar conditions. I would greatly appreciate if your household/farm participated in this survey, answering questions on the agricultural activities it has undertaken. The information you provide will assist all levels of government and other organizations to better understand the agricultural sector. Please be aware that all information collected in this survey will be kept strictly confidential. If you are not comfortable to respond to specific questions please inform me. Please let me know if I can go ahead with the interview.*

CONSENT. Can I start asking questions now?

**If CONSENT==1**

CONTACT\_2023\_1. What is %RESPNAME%'s phone number?

**\* If no phone number, enter 000**

**If Is Answered (CONTACT\_2023\_1) && CONTACT\_2023\_1!="000"**

CONTACT\_2023\_2. What is %RESPNAME%'s second phone number?

**\* If no phone number, enter 000**



If Holding\_TYPE==1 && (CONTACT\_2023\_1 == "000" || CONTACT\_2023\_2 == "000")

CONTACT\_2023\_3. Please give me the phone number of a close relative or neighbor of %RESPNAME% whom I can call to get back in touch with you?

If CONSENT==1

**ENUMERATOR:** I am going to ask you questions about the past short-rains season, also known as VULI SEASON and the long-rains season, also called MASIKA. When asking about the MASIKA season, we will also include the dry season. The past VULI SEASON started in October 2022 and ended in February 2023, while the MASIKA and DRY SEASON started in March 2023 and ended in September 2023.

6. Did you or any member of your household/farm engage in own-account crop cultivation during the Vuli or Masika or dry seasons of the past 2022/2023 agricultural year?

**\* Do not consider crop cultivation activities performed as paid employees or unpaid workers**

7. Did you or any member of your household/farm engage in own-account livestock or poultry rearing from October 2022 to September 2023?

**\* Do not include pets, racing horses, fighting chicken or cattle raised for cattle judging**

8. Did you or any member of your household/farm engage in own-account bee-keeping from October 2022 to September 2023?

☐ (Yes.....1 No.....0)

9. Did you or any member of your household/farm engage in own-account aquaculture activity from October 2022 to September 2023? (

☐ Yes.....1 No.....0)

**\* Do not consider aquaculture activities performed as paid employees or unpaid workers**

**CAPI VAR0:** IS THE ANSWER 'YES' IN 6 AND/OR 7, or 'YES' IN 9 AND LARGE-SCALE HOLDING

IF VAR0==true && Holding_TYPE==1						
<b>SECTION 2: HOUSEHOLD MEMBERS AND HOLDER IDENTIFICATION</b>						
<p>IN ORDER TO MAKE A COMPREHENSIVE LIST OF INDIVIDUALS CONNECTED TO THE HOUSEHOLD, USE THE FOLLOWING PROBE QUESTIONS:</p> <p>First, give me the names of all the members of your <u>immediate family</u> who normally live and eat their meals together here.</p> <p>WRITE DOWN NAMES, SEX, AND RELATIONSHIP TO HH HEAD. LIST HOUSEHOLD HEAD ON LINE 1.</p> <p>Then, give me the names of any <u>other persons related to you or other household members</u> who normally live and eat their meals together here.</p> <p>Then, give me the names of other persons who are not present now but normally live and eat their meals here. For example, household members studying elsewhere or travelling.</p> <p>Finally, give me the names of any <u>other persons not related to you or other household members</u>, but who normally live and eat their meals together here, such as servants, lodgers, or other who are not relatives.</p> <p>DO NOT LIST SERVANTS WHO HAVE A HOUSEHOLD ELSEWHERE, AND GUESTS WHO ARE VISITING TEMPORARILY AND HAVE A HOUSEHOLD ELSEWHERE.</p>						
		1.	2.	3.	4.	If s2q04>=5 5.

	ID CODE	NAME  MAKE A COMPLETE LIST OF ALL INDIVIDUALS <u>WHO NORMALLY LIVED AND ATE THEIR MEALS TOGETHER IN THIS HOUSEHOLD IN THE PAST 6 MONTHS, STARTING WITH THE HEAD OF HOUSEHOLD.</u>  (CONFIRM THAT HOUSEHOLD HEAD HERE IS SAME AS HOUSEHOLD HEAD LISTED ON COVER.)	MALE....1  FEMALE...0  What is the sex of [NAME]?	HEAD OF HOUSEHOLD.....1 SPOUSE.....2 SON/DAUGHTER.....3 FATHER/MOTHER.....4 GRAND SON/DAUGHTER.....5 In this household, what is [NAME]'s relationship to the head?	How old is [NAME]?  IF LESS THAN 1 YEAR OF AGE, TYPE ZERO	YES..1 NO...0  Did [NAME] work on any agricultural activities in the past 2022/2023 agricultural year?
		LIST	CODE	CODE	YEAR	CODE
	1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					

	IF VAR0==true && Holding_TYPE==1					
<b>SECTION 2: HOUSEHOLD MEMBERS AND HOLDER IDENTIFICATION</b>						
		If s2q04>=15		if CAPI-VAR1==1	if CAPI-VAR1==1	if CAPI-VAR1==1
	1.	6.	CAPI-VAR1	7.	8.	9.
ID CODE	NAME  MAKE A COMPLETE LIST OF ALL INDIVIDUALS WHO NORMALLY LIVED AND ATE THEIR MEALS TOGETHER IN THIS HOUSEHOLD IN THE PAST 6 MONTHS, STARTING WITH THE HEAD OF HOUSEHOLD.  (CONFIRM THAT HOUSEHOLD HEAD HERE IS SAME AS HOUSEHOLD HEAD LISTED ON COVER.)	Does [NAME] take important economic decisions or everyday routine decisions concerning the farm?  YES...1  NO...0	YES...1  NO...0 ► NEXT LINE  <b>PROGRAMMED IN PRO CAPI: Is Q6==1?</b>	NURSERY/PRESCHOOL.....0 PRIMARY EDUCATION INCOMPLETE.....1 PRIMARY EDUCATION COMPLETE.....2 SECONDARY/ADVANCED EDUCATION INCOMPLETE.....3 SECONDARY/ADVANCED EDUCATION COMPLETE.....4 VOCATIONAL TRAINING INCOMPLETE...5 VOCATIONAL TRAINING COMPLETE.....6 DIPLOMA INCOMPLETE....7 DIPLOMA COMPLETE....8 UNIVERSITY INCOMPLETE.....9 UNIVERSITY COMPLETE.....10 OTHER TRAININGS.....11 H  as [NAME] ever attended school?  YES...1  NO...0	What is [NAME]'s highest completed educational level?	YES...1  NO...0  Has [NAME] ever received any formal training in agriculture, including extension training in agriculture?
	LIST	CODE	CODE	CODE	CODE	CODE
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

TANZANIA AGRICULTURAL INPUTS SUPPORT PROJECT (TAISP).....	1
AGRICULTURE AND FISHERIES DEVELOPMENT PROGRAM (AFDP).....	2
TANZANIA INITIATIVE FOR PREVENTING AFLATOXIN CONTAMINATION (TANIPAC)....	3
ACARICIDES AND VACCINES SUBSIDIES.....	4
IRRIGATION SCHEMES.....	5
PRODUCTIVE SOCIAL SAFETY NET (PSSN).....	6

If Holding\_TYPE==1

10. Did you or any member of your housedold ever participate in any of the following programs?

\* Read answers

\* Select all that apply

SECTION 3. FIELD ROSTER											
	<p>List all the fields accessed or used by the farm in the past 2022/2023 agricultural year. Include fields that were used partially or entirely for crop cultivation (including vegs and fruit trees and kitchen gardens), farm buildings, farmyards, temporary or permanent pastures, forests and other wooded land, aquaculture. Include also fields that were left temporarily fallow or unused.</p> <p>A FIELD IS ANY PIECE OF LAND OF ONE LAND TENURE TYPE ENTIRELY SURROUNDED BY OTHER LAND, WATER, ROAD, FOREST OR OTHER FEATURES NOT FORMING PART OF THE farm, OR FORMING PART OF THE farm UNDER A DIFFERENT LAND TENURE TYPE.</p>										
			If Q2a==0	If Q2a==0		-				If Q3A.ContainsAny(1,3)	
FIELD ID	1.	2a	2b	2c	3.	4A				5A	
	FIELD NAME	YES...1  NO....0 Is the [FIELD] field located in [DISTRICT] district?	In which region is [FIELD] field located?	In which district is [FIELD] field located?	VULI.....1  MASIKA and DRY SEASON.....2  Did you use this [FIELD] field in the past 2022/23 VULI SEASON, MASIKA and DRY SEASON, or both?	<p>CODES FOR UNIT OF MEASUREMENT:</p> <p>HECTARE.....1</p> <p>ACRE.....2</p> <p>SQUARE METERS.....3</p> <p>What is the area of this [FIELD] field?</p> <p>INSTRUCTION: THE AREA IS DECLARED BY THE RESPONDENT. IF THE AREA IS REPORTED ON THE FIELD DOCUMENT, ASK TO SEE THE DOCUMENT</p>				<p>How did the household/farm use this [FIELD] field during the past 2022/23 VULI SEASON?</p> <p>SELECT ALL THAT APPLY</p> <p>RESIDENTIAL.....1 KITCHEN GARDEN/FARMYARD.....2 CROP PRODUCTION.....3 TEMPORARY GRAZING (LIVESTOCK/POULTRY) ....4 PERMANENT GRAZING (LIVESTOCK/POULTRY) ....5 TEMPORARILY FALLOW (LIVESTOCK/POULTRY) ....6 FARM BUILDINGS.....7 AQUACULTURE.....8 FOREST/WOODED LAND.....9 BUSINESS/COMMERCIAL.....10 UNUSED.....11 RENTED OUT/SHARECROPPED OUT FOR AGRICULTURE.....12 RENTED OUT FOR NON-AGRICULTURE.....13 GAVE OUT FOR FREE.....14 OTHER (SPECIFY).....99</p>	
	TEXT	TEXT	CODE	CODE	CODE	NUMBER				UNIT	CODE
1											
2											
3											
4											

	<b>If Is Answered(Q5A)</b>				<b>If Q3A.Contains(2,3)</b>	<b>If Is Answered(Q5B)</b>				<b>if VAR 2 == 1 OR VAR3 == 1 OR Q5a.Contains(6) OR q5b.Contains(6)</b>		
1.	Q5A_			CAPI-VAR2	5B	Q5B_			CAPI-VAR3	CAPI-VAR4		
FIELD NAME	What percentage of this [FIELD] field was dedicated to each use?			<b>YES...1</b>  <b>NO....0</b> <b>PROGRAMMED IN CAPI:</b> <b>Was [FIELD] used for growing crops in the past 2022/23 VULI SEASON?</b>	How did the household/farm use this [FIELD] field during the past 2022/23 MASIKA SEASON and DRY SEASON? SELECT ALL THAT APPLY  RESIDENTIAL.....1 KITCHEN GARDEN/FARMYARD.....2 CROP PRODUCTION.....3 TEMPORARY GRAZING (LIVESTOCK/POULTRY) ....4 PERMANENT GRAZING (LIVESTOCK/POULTRY) ....5 TEMPORARILY FALLOW (LIVESTOCK/POULTRY) ...6 FARM BUILDINGS.....7 AQUACULTURE.....8 FOREST/WOODED LAND.....9 BUSINESS/COMMERCIAL.....10 UNUSED.....11 RENTED OUT/SHARECROPPED OUT FOR AGRICULTURE.....12 RENTED OUT FOR NON-AGRICULTURE.....13 GAVE OUT FOR FREE.....14 OTHER (SPECIFY).....99	What percentage of this [FIELD] field was dedicated to each use?			<b>YES...1</b>  <b>NO....0</b> <b>PROGRAMMED IN CAPI:</b> <b>Is [FIELD] used for growing crops in the 2022/2023 MASIKA SEASON and DRY SEASON?</b>	<b>YES...1</b>  <b>NO....0</b> <b>PROGRAMMED IN CAPI:</b> Was [FIELD] used for growing crops either in VULI or in MASIKA and DRY SEASON?		
TEXT	1st%	2nd%	3rd%		CODE	1st%	2nd%	3rd%				
<b>If Any.Q05A.Contains(12)   Any.Q05B.Contains(12)</b>												
6. What is the total amount earned from renting out /sharecropping out your land in the past 2022/2023 agricultural year?												
<b>*If sharecropped out, estimate the cash value</b>												
<b>*TZS</b>												





contains(6))							
<b>SECTION 4. VULI PLOT ROSTER</b>							
				<b>If s4q05a==1</b>	<b>If s4q05a==1</b>	<b>If s4q02.InList(1,2)</b>	<b>If s4q07==1</b>
<b>FIELD ID</b>	I am about to ask you questions about the plots in [FIELD] field in the past 2022/2023 VULI SEASON.  Please list all plots cultivated with crops, used as kitchen gardens/backyards or left fallow during the past 2022/2023 VULI SEASON.  A PLOT IS DEFINED AS A CONTINUOUS PIECE OF LAND ON WHICH A SPECIFIC CROP OR A MIXTURE OF CROPS IS GROWN OR WHICH IS FALLOW OR WAITING TO BE PLANTED.	<b>PLOT ID</b>	1.  PLOT NAME	5b.  Approximately what percentage or proportion of [PLOT] plot was irrigated during the past 2022/23 VULI SEASON?	6.  IRRIGATION BY USING WATERING CANS OR BUCKETS.....1 SPRINKLER IRRIGATION.....2 DRIP IRRIGATION.....3 FLOODING/SURFACE IRRIGATION.....4 OTHER (SPECIFY) .....99  What was the main method of irrigating plants/pouring water on the plants on this [PLOT] plot during the past 2022/23 VULI SEASON?  READ ANSWERS	7.  YES...1 NO....0  Did you apply any organic fertilizer on this [PLOT] plot during the past 2022/2023 VULI SEASON?	8.  SOLID MANURE/FARM YARD MANURE.....1 LIQUID MANURE/SLURRY....2 GREEN MANURE (CROP RESIDUES) .....3 COMPOST.....4 STABILISED SEWAGE SLUDGE.....5 BIOFERTILIZERS.....6 OTHER (SPECIFY) .....7  Which organic fertilizers were applied on this [PLOT] plot during the past 2022/23 VULI SEASON?  SELECT ALL THAT APPLY
			TEXT	%	CODE	CODE	CODE
1		1			-		
1		2			-		
1		3			-		
1		4			-		
1		...			-		
2		1			-		
2		2			-		

Ask if VAR2\_ALLFIELDS == true || FIELD.Any(x=>x.s3q05a contains(6))

#### SECTION 4. VULI PLOT ROSTER

FIELD ID	I am about to ask you questions about the plots in [FIELD] field in the past 2022/2023 VULI SEASON.  Please list all plots cultivated with crops, used as kitchen gardens/backyards or left fallow during the past 2022/2023 VULI SEASON.  A PLOT IS DEFINED AS A CONTINUOUS PIECE OF LAND ON WHICH A SPECIFIC CROP OR A MIXTURE OF CROPS IS GROWN OR WHICH IS FALLOW OR WAITING TO BE PLANTED.	PLOT ID	If s4q02.InList(1,2)		If s4q09==1		If s4q02.InList(1,2)		If s4q11==1	
			1. PLOT NAME	9. YES..1 NO...0  Did you apply any inorganic fertilizer on this [PLOT] plot during the past 2022/2023 VULI SEASON?	10. UREA.....8 DIAMMONIUM PHOSPHATE (DAP)...9 CALCIUM AMMONIUM NITRATE (CAN).....10 AMMONIUM SULPHATE (SA).....11 NITROGEN, PHOSPHORUS, POTASSIUM (NPKs).....12 MINJINGU NAFKA PLUS.....13 NPS ZINC.....14 OTHER(SPECIFY) .....15  Which inorganic (chemical) fertilizers were applied on this [PLOT] plot during the past 2022/23 VULI SEASON?  SELECT ALL THAT APPLY	11. YES...1 NO....0  Did you apply any pesticide on this [PLOT] plot during the past 2022/2023 VULI SEASON?	12. INSECTICIDES.....16 HERBICIDE (SOLID)....17 HERBICIDE (LIQUID)...18 FUNGICIDE.....19 Which pesticides were applied on this [PLOT] plot during the past 2022/2023 VULI SEASON?  SELECT ALL THAT APPLY			
			TEXT	CODE	CODE	CODE	CODE	CODE	CODE	
1		1								
1		2								
1		3								
1		4								
1		...								
2		1								
2		2								

Ask IF VAR2_ALLFIELDS == true									
SECTION 5. VULI CROP ROSTER								-	
								-	
					IF sect 4-Q4 ==2	IF CAPI-VAR5==1	IF CAPI-VAR5==1	IF CAPI-VAR5==1	
FIELD ID	PLOT ID	1.	CROP ID	CAPI-VAR5	2	3	TEMPORARY CROPS		
		I am about to ask you about crops on [FIELD] field, [PLOT].  List all the temporary and permanent crops, including fruit trees on [PLOT] in the past 2022/23 VULI SEASON.		<b>PROGRAMMED IN CAPI: IS [CROP] TEMPORARY OR PERMANENT?</b>  TEMPORARY...1 PERMANENT...2	During the past 2022/23 VULI SEASON, approximately what percent of [PLOT] was planted with [CROP]?	OCTOBER 2022...10 NOVEMBER 2022...11 DECEMBER 2022...12 JANUARY 2023...01 FEBRUARY 2023...02  When was [CROP] planted on [PLOT] during the past 2022/23 VULI SEASON?	4		5.
							IMPROVED.....1 TRADITIONAL.....2 Which [CROP] seeds did you use during the past 2022/23 VULI SEASON?  SELECT ALL THAT APPLY IF RESPONDENT DOES NOT KNOW, ASK TO SEE PACKAGING		YES...1 NO.....0 Did you harvest any of the [CROP] on this [PLOT] during the past 2022/2023 VULI SEASON?
		CROP NAME		CODE	PERCENTAGE	MONTH	YEAR	CODE	CODE
1	1		1						
1	1		2						
1	1		3						
1	2		1						
1	2		2						
1	2		3						
1	3		1						
1	3		2						
2	1		1						
2	1		1						
2	1		1						
2	1		2						





Ask if VAR3\_ALLFIELDS == true || FIELD.Any(x=>(x.s3q05b.Contains(6) || (x.s3q05b.Contains(0) && x.s3q05a.Contains(6))))

SECTION 6. MASIKA AND DRY SEASON PLOT ROSTER												
						If s7q02.InList(1,2)		If s7q02.InList(1,2)				
FIELD ID	I am about to ask you questions about the plots in [FIELD] field in the past 2022/2023 MASIKA SEASON and DRY SEASON. These questions will therefore cover the period between March 2023 and September 2023.  Please list all plots cultivated with crops, used as kitchen gardens/backyards or left fallow during the past 2022/2023 MASIKA SEASON and DRY SEASON.  A PLOT IS DEFINED AS A CONTINUOUS PIECE OF LAND ON WHICH A SPECIFIC CROP OR A MIXTURE OF CROPS IS GROWN OR WHICH IS FALLOW OR WAITING TO BE PLANTED.	PLOT ID	1	2	3		4	5a.				
			PLOT NAME	READ ANSWERS	What was the <u>area</u> of this [PLOT] plot during the past 2022/2023 MASIKA SEASON and DRY SEASON?  INSTRUCTION: FARMER DECLARES PLOT AREA (NO MEASUREMENT)  <u>CODES FOR UNIT:</u> ACRE.....1 HECTARE.....2	Was this [PLOT] plot in pure stand or mixed during the past 2022/23 MASIKA SEASON and DRY SEASON?  PURE STAND.....1 MIXED/INTERCROPPED...2	Was there any irrigation infrastructure on this [PLOT] plot during the past 2022/23 MASIKA SEASON and DRY SEASON?  INSTRUCTION: INCLUDES FULLY CONTROLLED IRRIGATION AND PARTIALLY CONTROLLED IRRIGATION.  YES.....1 NO.....0					
								TEXT	CODE	AREA	UNIT	CODE
1		1										
1		2										
1		3										
1		4										
1		...										
2		1										
2		2										

Ask if VAR3_ALLFIELDS == true    FIELD.Any(x=>(x.s3q05b.Contains(6)    (x.s3q05b.Contains(0) && x.s3q05a.Contains(6))))							
SECTION 6. MASIKA AND DRY SEASON PLOT ROSTER							
				If s7q05a==1	If s7q05a==1	If s7q02.InList(1,2)	If s7q07==1
FIELD ID		PLOT ID	1.	5b.	6.	7.	8
	I am about to ask you questions about the plots in [FIELD] field in the past 2022/2023 MASIKA SEASON and DRY SEASON. These questions will therefore cover the period between March 2023 and September 2023.  Please list all plots cultivated with crops, used as kitchen gardens/backyards or left fallow during the past 2022/2023 MASIKA SEASON and DRY SEASON.  A PLOT IS DEFINED AS A CONTINUOUS PIECE OF LAND ON WHICH A SPECIFIC CROP OR A MIXTURE OF CROPS IS GROWN OR WHICH IS FALLOW OR WAITING TO BE PLANTED.		PLOT NAME	Approximately what percentage or proportion of [PLOT] plot was irrigated during the past 2022/23 MASIKA SEASON and DRY SEASON?	What was the main method of irrigating plants/pouring water on this [PLOT] plot during the past 2022/23 MASIKA SEASON and DRY SEASON?  READ ANSWERS  IRRIGATION BY USING WATERING CANS OR BUCKETS.....1 SPRINKLER IRRIGATION...2 DRIP IRRIGATION.....3 FLOODING/SURFACE IRRIGATION.....4 OTHER (SPECIFY) .....99	Did you apply any organic fertilizer on this [PLOT] plot during the past 2022/23 MASIKA SEASON and DRY SEASON?  YES...1 NO....0	Which organic fertilizers were applied on this [PLOT] plot during the past 2022/23 MASIKA SEASON and DRY SEASON?  SELECT ALL THAT APPLY  SOLID MANURE/FARM YARD MANURE.....1 LIQUID MANURE/SLURRY....2 GREEN MANURE (CROP RESIDUES) .....3 COMPOST.....4 STABILISED SEWAGE SLUDGE.....5 BIOFERTILIZERS.....6 OTHER (SPECIFY) .....7
			TEXT	%	CODE	CODE	CODE
1		1			-	-	
1		2			-	-	
1		3			-	-	
1		4			-	-	
1		...			-	-	
2		1			-	-	
2		2			-	-	

Ask if VAR3\_ALLFIELDS == true || FIELD.Any(x=>(x.s3q05b.Contains(6) || (x.s3q05b.Contains(0) && x.s3q05a.Contains(6))))

SECTION 6. MASIKA AND DRY SEASON PLOT ROSTER							
				If s7q02.InList(1,2)	If s7q09==1	If s7q02.InList(1,2)	If s7q11==1
<b>FIELD ID</b>		<b>PLOT ID</b>	1.	9	10	11	12
	I am about to ask you questions about the plots in [FIELD] field in the past 2022/2023 MASIKA SEASON and DRY SEASON. These questions will therefore cover the period between March 2023 and September 2023.		PLOT NAME	Did you apply any inorganic fertilizer on this [PLOT] plot?	Which inorganic (chemical) fertilizers were applied on this [PLOT] plot during the past 2022/23 MASIKA SEASON and DRY SEASON?	Did you apply any pesticide on this [PLOT] plot during the past 2022/23 MASIKA SEASON and DRY SEASON?	Which pesticides were applied on this [PLOT] plot during the past 2022/23 MASIKA SEASON and DRY SEASON?
	Please list all plots cultivated with crops, used as kitchen gardens/backyards or left fallow during the past 2022/2023 MASIKA SEASON and DRY SEASON.			YES...1 NO...0	SELECT ALL THAT APPLY	YES...1 NO...0	SELECT ALL THAT APPLY
	A PLOT IS DEFINED AS A CONTINUOUS PIECE OF LAND ON WHICH A SPECIFIC CROP OR A MIXTURE OF CROPS IS GROWN OR WHICH IS FALLOW OR WAITING TO BE PLANTED.						
			TEXT	CODE	CODE	CODE	CODE
1		1					
1		2					
1		3					
1		4					
1		...					
2		1					
2		2					



Ask if VAR3\_ALLFIELDS == true

**SECTION 7. MASIKA AND DRY SEASON CROP ROSTER**

SECTION 7. MASIKA AND DRY SEASON CROP ROSTER									
-									
-									
IF sect 12-Q7 ==2									
IF CAPI-VAR5_3==1									
IF CAPI-VAR5_3==1									
IF CAPI-VAR5_3==1									
TEMPORARY CROPS									
FIELD ID	PLOT ID	1.	CROP ID	CAPI-VAR5_3	2	2a.	3.	4.	5.
		I am about to ask you about crops on [FIELD] field, [PLOT].		<b>PROGRAMMED IN CAPI: IS [CROP] TEMPORARY OR PERMANENT?</b>	During the past 2022/2023 MASIKA SEASON and DRY SEASON, approximately what percent of [PLOT] was planted with [CROP]?	Was this [CROP] under a greenhouse or a high shelter during the past 2022/23 MASIKA SEASON and DRY SEASON?	When was [CROP] planted on [PLOT] plot during the past 2022/23 MASIKA SEASON and DRY SEASON?	Which [CROP] seeds did you use during the past 2022/23 MASIKA SEASON and DRY SEASON?	Did you harvest any of the [CROP] on this [PLOT] during the past 2022/2023 MASIKA SEASON and DRY SEASON?
		List all the temporary and permanent crops, including fruit trees on [PLOT] in the past 2022/23 MASIKA SEASON and DRY SEASON.		TEMPORARY...1 PERMANENT...2		YES...1 NO...0	DECEMBER 2022..12 JANUARY 2023....1 FEBRUARY 2023...2 MARCH 2023.....3 APRIL 2023.....4 MAY 2023.....5 JUNE 2023.....6 JULY 2023.....7 AUGUST 2023.....8 SEPTEMBER 2023..9	SELECT ALL THAT APPLY IF RESPONDENT DOES NOT KNOW, ASK TO SEE PACKAGING  IMPROVED.....1 TRADITIONAL.....2 IMPROVED, RECYCLED.....3	YES...1 NO...0
		CROP NAME		CODE	NUMBER	CODE	CODE	CODE	CODE
1	1		1						
1	1		2						
1	1		3						
1	2		1						
1	2		2						
1	2		3						
1	3		1						
1	3		2						
2	1		2						
2	1		3						
2	1		4						
2	1		5						
2	1		6						

Ask if VAR3\_ALLFIELDS == true

**SECTION 7. MASIKA AND DRY SEASON CROP ROSTER**

		IF Q5==0		IF Q5==1		IF Q5==1		ROSTER based on s5q08a IF Q8b>0	
FIELD ID	PLOT ID	1.	CROP ID	CAPI-VAR5_3	6.	7.	8a.	8b.	8b_unit
		I am about to ask you about crops on [FIELD] field, [PLOT].  List all the temporary and permanent crops, including fruit trees on [PLOT] in the past 2022/23 MASIKA SEASON and DRY SEASON.		PROGRAMMED IN CAPI: IS [CROP] TEMPORARY OR PERMANENT?  TEMPORARY..1 PERMANENT..2	Why did not you harvest [CROP] from [PLOT] during the past 2022/2023 MASIKA SEASON and DRY SEASON?  TOO LITTLE RAIN/DROUGHT...1 RAIN/FLOOD DAMAGE.....2 RAIN CAME TOO EARLY OT TOO LATE.....3 WIND/FROST DAMAGE.....4 PLANT PEST/DISEASE.....5 FIRE DAMAGE.....6 CROP THEFT.....7 NO AVAILABLE LABOR.....8 ANIMAL/BIRDS DAMAGE...9 OTHER (SPECIFY) .....99  ▶ NEXT CROP	When did you start harvesting [CROP] from this [PLOT] during the past 2022/2023 MASIKA SEASON and DRY SEASON?  * For continuous harvest, indicate the date when the harvest first began.  JANUARY 2023.....01 FEBRUARY 2023....02 MARCH 2023.....03 APRIL 2023.....04 MAY 2023.....05 JUNE 2023.....06 JULY 2023.....07 AUGUST 2023.....08 SEPTEMBER 2023...09 OCTOBER 2022.....10 NOVEMBER 2022....11 DECEMBER 2022....12	In which states/conditions did you harvest [CROP] on [PLOT] plot during the past 2022/2023 MASIKA SEASON and DRY SEASON?  SELECT ALL THAT APPLY  (Max 2 answers)	How much [CROP] in total did you harvest from [PLOT] plot under [STATE/CONDITION] state/condition during the past 2022/2023 MASIKA SEASON and DRY SEASON?	
		CROP NAME		CODE	CODE		CODE	NUMBER	UNIT
1	1		1						
1	1		2						
1	1		3						
1	2		1						
1	2		2						
1	2		3						
1	3		1						
1	3		2						
2	1		2						
2	1		3						
2	1		4						
2	1		5						
2	1		6						

Ask if VAR3\_ALLFIELDS == true

**SECTION 7. MASIKA AND DRY SEASON CROP ROSTER**

		IF Q5==1		IF Q5==1		IF q10b > 0				
FI EL D ID	PL OT ID	1.	CR OP ID	CAPI-VAR5_3	9.	10.		10a	10b	10c
		I am about to ask you about crops on [FIELD] field, [PLOT].  List all the temporary and permanent crops, including fruit trees on [PLOT] in the past 2022/23 MASIKA SEASON and DRY SEASON.		PROGRAMME D IN CAPI: IS [CROP] TEMPORARY OR PERMANENT?	During the past 2022/23 MASIKA SEASON and DRY SEASON, approximately what percentage of [PLOT] planted with [CROP] was harvested?	Why not harvesting all the area planted with [CROP] on this [PLOT]?  SELECT THE MAIN TWO REASONS.  TOO LITTLE RAIN/DROUGHT...1 RAIN/FLOOD DAMAGE.....2 RAIN CAME TOO EARLY OT TOO LATE.....3 WIND/FROST DAMAGE.....4 PLANT PEST/DISEASE.....5 FIRE DAMAGE.....6 CROP THEFT.....7 NO AVAILABLE LABOR.....8 ANIMAL/BIRDS DAMAGE.....9 OTHER (SPECIFY).....99	How much [CROP] do you think you could have harvested from [PLOT] under [STATE/CONDI TION] if no losses had been suffered prior to the harvest?  * Report %s7q08b_ unit%	How much [CROP] do you think you have lost during the past 2022/2023 MASIKA SEASON and DRY SEASON harvest of [PLOT], under [STATE/CONDITION ]?  * Report %s7q08b_ unit %	What was, according to you, the <u>main reason</u> why losses of [CROP] under [STATE/CONDITION] were experienced during the 2022/2023 MASIKA SEASON and DRY SEASON harvesting of [PLOT]?  Improper handling of the harvest.....1 Use of inappropriate tools, equipment or machinery..2 Bad weather during harvest.....3 Lack of resources or labour.....4 Inappropriate harvesting period.....5 Too lengthy harvesting duration.....6 Other (specify).....99	
		CROP NAME		CODE	PERCENT (%) OF PLANTED PLOT AREA	1st REASON	2nd REASON	NUMBER	NUMBER	CODE
1	1		1							
1	1		2							
1	1		3							
1	2		1							
1	2		2							
1	2		3							
1	3		1							
1	3		2							
2	1		2							
2	1		3							
2	1		4							
2	1		5							

Ask if VAR3\_ALLFIELDS == true

**SECTION 7. MASIKA AND DRY SEASON CROP ROSTER**

				IF CAPI-VAR5_3==2	IF CAPI-VAR5_3==2	IF CAPI-VAR5_3==2	IF CAPI-VAR5_3==2	
FIELD ID	PLOT ID	1.	CROP ID	CAPI-VAR5_3	PERMANENT CROPS			
		I am about to ask you about crops on [FIELD] field, [PLOT].  List all the temporary and permanent crops, including fruit trees on [PLOT] in the past 2022/23 MASIKA SEASON and DRY SEASON.		PROGRAMMED IN CAPI: IS [CROP] TEMPORARY OR PERMANENT?	11.  Is the [CROP] on this [PLOT] cultivated in a compact or scattered planting?  COMPACT . . . . 1 SCATTERED . . . . 2	12.  How many [CROP] plants/trees are on this [PLOT]?  IF THE FARMER IS UNABLE TO QUANTIFY, RECORD -99.	13.  How many of them are in the production age?  *PRODUCTION AGE IS THE AGE AT WHICH THE TREE OR PLANT IS READY TO PRODUCE THE PRODUCT OF INTEREST  IF THE FARMER IS UNABLE TO QUANTIFY, RECORD - 99	14.  Have you planted any [CROP] during the past 2022/23 MASIKA SEASON and DRY SEASON?  YES . . 1 NO . . . 0
		CROP NAME		CODE	CODE	NUMBER	NUMBER	CODE
1	1		1					
1	1		2					
1	1		3					
1	2		1					
1	2		2					
1	2		3					
1	3		1					
1	3		2					
2	1		2					
2	1		3					
2	1		4					
2	1		5					
2	1		6					

Ask if any perm culture in Vuli or Masika sections (plot VULI or plot MASIKA)

## SECTION 8. PERMANENT CROP PRODUCTION

		IF Q1==0		IF Q1==1		IF Q1==1				IF q6 < q4b		
FIELD ID	CROP ID		1.	2.	3.	4a.	4b.	4c.	5.	6.	7.	
		PROGRAMME D IN CAPI: PREFILL ALL FIELD-PLOT-CROP INFORMATION FROM THE CROP ROSTER	YES...1 NO...0  Did you harvest any of the [CROP] on this [FIELD] field during the past 2022/2023 agricultural year?	Why did not you harvest [CROP] from this [FIELD] field during the past 2022/2023 agricultural year?  TOO LITTLE RAIN/DROUGHT...1 RAIN/FLOOD DAMAGE.....2 RAIN CAME TOO EARLY OT TOO LATE.3 WIND/FROST DAMAGE.....4 PLANT PEST/DISEASE.....5 FIRE DAMAGE.....6 CROP THEFT.....7 NO AVAILABLE LABOR.....8 CROPS STILL ON THE FIELD...9 ANIMAL/BIRD DAMAGE.....10- OTHER (SPECIFY) .....99	In which months did you harvest [CROP] from this [FIELD] field during the past 2022/2023 agricultural year?  SELECT ALL THAT APPLY  JANUARY.....01 FEBRUARY.....02 MARCH.....03 APRIL.....04 MAY.....05 JUNE.....06 JULY.....07 AUGUST.....08 SEPTEMBER...09 OCTOBER.....10 NOVEMBER...11 DECEMBER...12	In which states/conditions did you harvest [CROP] on [PLOT] plot during the past 2022/2023 agricultural year?  SELECT ALL THAT APPLY  (Max 2 answers)	How much [CROP] in total did you harvest from [PLOT] plot under [STATE/CONDITION] state/condition during the past 2022/2023 agricultural year?	How much [CROP] do you think you could have harvested from [FIELD] if no losses had been suffered prior to the harvest?  * Report in %s8q04a% condition and %s8q04c % unit  -999 = same harvest as reported in q4	How much [CROP] do you think you have lost during the harvest of [FIELD]?  * Report in %s8q04a% condition and %s8q04c % unit  -999 = same harvest as reported in q8	What was, according to you, the main reason why losses of [CROP] were experienced during the harvesting of [FIELD]?  Improper handling of the harvest...1 Use of inappropriate tools, equipment or machinery.....2 Bad weather during harvest.....3 Lack of resources or labour.....4 Inappropriate harvesting period...5 Too lengthy harvesting duration...6 Other (specify).....99		
			CODE	CODE	CODE	MONTH	YEAR	CODE	NUMBER	UNIT	NUMBER	NUMBER
-												
-												
-												
-												
-												
-												

Ask if s5q05==1 || s7q05==1||s8q01==1

## SECTION 9: CROP USE HARVEST USE

IF Q1==1

C R O P I D	PROGRAMMED IN CAPI: LIST ALL HARVESTED CROPS FROM SECTION 6 (ie., if sect 6 Q4==1) AND SECTION 9 9ie., if sect 9 Q4==1)	1.	1.a	1. b		1. c		1.d	instorage	
		Did you store any of the [CROP] harvested in the past 2022/23 agricultural year? YES..1  NO...0	In which type of facility was <u>most</u> of [CROP] stored ?  Traditional granary...1  Metal silo...2  Storage room (simple)...3  Storage room (with controlled temperature and/or humidity)...4  Unprotected storage (e.g. heaped on the ground)...5  Other(specify) ..99	What quantity of [CROP] did you store after the harvest(s) of the past 2022/23 agricultural year?		How much [CROP] stored from the past 2022/2023 agricultural season do you think you have lost?		What was, according to you, the <u>main reason</u> why losses were suffered during the storage?  Inappropriate storage facility (e.g. unprotected) ...1  Inappropriate storage container (e.g. unsealed bags) ...2  Insufficient drying of crop prior to harvest...3  Excess humidity and/or temperature variations...4  Excessive storage duration...5  No/too little or inappropriate use of pesticides...6  Other(specify) ..99	PROGRAMME D IN CAPI: Takes a blank string value if s1q01==0 and takes the string value ", including the quantity in storage?" if s7q01==1	
		CROP NAME	CODE	CODE	QTY 1	UNIT 1	QTY 1	UNIT 1	CODE	
		1								
		2								
		3								
		4								
		5								
		6								
		7								
8										
9										

Ask if s5q05==1 || s7q05==1||s8q01==1

**SECTION 9: CROP HARVEST USE**

			IF Q2.Contains(1)	if Q3>0	IF Q2.Contains(2)	IF Q2.Contains(3)	IF Q2.Contains(4)	IF Q2.Contains(5)
<b>C R O P I D</b>	<b>PROGRAMME D IN CAPI:</b> LIST ALL HARVESTED CROPS FROM SECTION 6 (ie., if sect 6 Q4==1) AND SECTION 9 9ie., if sect 9 Q4==1)	2. Did your household/farm use, or intended to use the [CROP] produce [instorage] for any of the following purposes?  *READ ANSWERS *SELECT ALL THAT APPLY  FOR SALE.....1 FOR SELF CONSUMPTION..2 FOR GIVING OUT AS GIFT TO OTHER HOUSEHOLDS...3 FOR PAYING FOR LAND, LABOUR OR INPUTS.....4 FOR ANIMAL FEED.....5 FOR SEEDS FOR NEXT SEASON.....6 FOR PROCESSING AND SALE.....7 OTHER (SPECIFY) .....99	3. What percentage or proportion of the [CROP] harvested in the past 2022/23 agricultural year was sold, or intended to be sold in unprocessed form [instorage]?	4. What was the total value of all <u>unprocesse</u> <u>d</u> [CROP] sales or intended sales [instorage]?  ESTIMATE THE VALUE OF IN-KIND PAYMENT S.  ESTIMATE THE VALUE OF SALES NOT YET DONE	5. What percentage or proportion of the [CROP] harvested in the past 2022/23 agricultural year was consumed or intended to be consumed by household members either in processed or unprocessed form [instorage]?  IF PROCESSED FOR CONSUMPTION, INCLUDE IT HERE AS PART OF THE RAW PRODUCT	6. What percentage or proportion of the [CROP] harvested in the past 2022/23 agricultural year was given out as gift or intended to be given out as gift to other households [instorage]?  IF PROCESSED BEFORE GIVING OUT AS GIFT, INCLUDE IT HERE AS PART OF THE RAW PRODUCT	7. What percentage or proportion of the [CROP] harvested in the past 2022/23 agricultural year was used or intended to be used to pay for land, labour or inputs [instorage]?  IF PROCESSED BEFORE GIVING OUT AS REIMBURSEMENT, INCLUDE IT HERE AS PART OF THE RAW PRODUCT	8. What percentage or proportion of the [CROP] harvested in the past 2022/23 agricultural year was used or intended to be used for animal feed [instorage]?  EXCLUDE THE QUANTITY OF CROP USED AS ANIMAL FEED DUE TO PEST DAMAGE.
	CROP NAME	CODE	%	TZS	%	%	%	%
1								
2								
3								
4								
5								
6								

Ask if s5q05==1 || s7q05==1||s8q01==1

SECTION 9: CROP HARVEST USE							
		If CAPI-VAR5==1 && Q2. Contains (6)	IF Q2. Contains (7)	IF Q2. Contains (99)	IF Q2. Contains (7)		IF Q12>0
CROP ID		9.	10.	11.	12.		13.
	<b>PROGRAMMED IN CAPI: LIST ALL HARVESTED CROPS FROM SECTION 6 (ie., if sect 6 Q4==1) AND SECTION 9 9ie., if sect 9 Q4==1)</b>	What percentage or proportion of the [CROP] harvested in the past 2022/23 agricultural year was used or intended to be used for seeds in the following season [instorage]?	What percentage or proportion of the [CROP] harvested in the past 2022/23 agricultural year was processed or intended to be processed for sale [instorage]?	What percentage or proportion of the [CROP] harvested in the past 2022/23 agricultural year was used or intended to be used for any other purposes not mentioned before [instorage]?	What quantity of [CROP] do you think you have lost during all the processing operations conducted for [CROP] in the past 2022/23 agricultural year?  <i>Note 1: By processing we mean any transformation conducted to the crop after its harvest, including drying, cleaning/winnowing, milling, crushing, peeling, cutting/slicing etc.</i> <i>Note 2: Please express the losses in terms of the end product. For example, if maize was threshed, express the losses during threshing in grain terms, e.g. half a bag of grain, 10kg of grain, etc.</i>		What was, according to you, the main reason for the losses of [CROP] during processing?  <i>Inappropriate handling of product.....1</i> <i>Use of inappropriate tools, equipment or machinery.....2</i> <i>Inappropriate processing facility (e.g.on bare floor).....3</i> <i>Other(specify) .....99</i>
	CROP NAME	%	%	%	QTY 1	UNIT 1	CODE
1							
2							
3							
4							
5							



Ask if permanent or temp crop was planted: - (VULI) VAR5==1||s5q15==1- (MASIKA) VAR5\_3==1||s7q15==1

SECTION 10. SEED AND SEEDLINGS ACQUISITION												
	IF VAR2_ALLFIELDS == true		IF VAR3_ALLFIELDS == true		IF Q3. ContainsAny(5,6,7)	IF Q4.InList(2,3,98)		IF Q4.InList(1,2)		IF Q4.InList(2,3,98)	IF Q4.InList(1,2)	
<b>PROGRAMM ED IN CAPI: LIST HERE ALL THE TEMPORARY AND PERMANENT CROPS THAT HAVE BEEN PLANTED IN THE VULI OR IN THE MASIKA SEASON</b>	1.	2.		3.	4.	5a.		5b.		6a.	6b.	
	What was the total quantity of [CROP] seeds, seedlings or cuttings planted during the past 2022/23 VULI SEASON?  IF RESPONDENT DOES NOT KNOW, ASK TO SEE PACKAGING  KILOGRAM...1 SEEDLINGS...2 CUTTINGS...3	What was the total quantity of [CROP] seeds, seedlings or cuttings planted during the past 2022/23 MASIKA SEASON?  IF RESPONDENT DOES NOT KNOW, ASK TO SEE PACKAGING  KILOGRAM...1 SEEDLINGS...2 CUTTINGS...3		What was the source of [CROP] seeds, seedlings or cuttings that was used during this past 2022/2023 agricultural year?  SELECT ALL THAT APPLY  FROM PREVIOUS HOLDING'S HARVEST.....1 GIFT FROM NEIGHBORS, FRIENDS, RELATIVES.....2 DONATIONS FROM GOVERNMENTAL INSTITUTIONS.....3 DONATIONS FROM NON GOV ORGANIZATIONS.....4 PURCHASE FROM LOCAL MERCHANT/GROCERY.....5 PURCHASE FROM GOVERNMENT AGENCY.....6 PURCHASE FROM FARMER ASSOCIATION.....7 OTHER (SPECIFY).....99	Were the [CROP] seeds, seedlings or cuttings that you purchased in the past 2022/2023 agricultural year all subsidized, partly subsidized or non-subsidized?  ALL PURCHASES WERE SUBSIDIZED...1 SOME PURCHASES WERE SUBSIDIZED ...2 NO PURCHASE WAS SUBSIDIZED...3 DON'T KNOW.....98	What was the total quantity of non-subsidized [CROP] seeds, seedlings or cuttings that you purchased for the past 2022/2023 agricultural year?  KILOGRAM...1 SEEDLINGS...2 CUTTINGS...3		What was the total quantity of subsidized [CROP] seeds, seedlings or cuttings that you purchased for the past 2022/2023 agricultural year?  KILOGRAM.....1 SEEDLINGS....2 CUTTINGS.....3		What was the average unit price of the non-subsidized [CROP] seeds, seedlings or cuttings that you purchased for the past 2022/2023 agricultural year?	What was the average unit price of the subsidized [CROP] seeds, seedlings or cuttings that you purchased for the past 2022/2023 agricultural year?	
CROP ID	QTY	UNIT	QTY	UNIT	CODE	CODE	QTY	UNIT	QTY	UNIT	TZS per unit	TZS per unit
						-						
						-						

Ask if (s4q05==1 || s4q07==1 || s4q09==1) || (s6q05==1 || s6q07==1 || s6q09==1)

**SECTION 11. INPUT USE AND ACQUISITION (FERTILIZERS AND PESTICIDES)**

IF  
Q02.ContainsAny(4,5  
,6) &&  
@rowcode.InList(8,2  
1)

INPUT CODE	PROGRAMMED IN CAPI: LIST ALL FERTILIZERS AND PESTICIDES THAT HAVE BEEN USED IN THE PAST 2022/23 AGRICULTURAL YEAR (see sect 6 and sect 9, Q1B, 2B, 3B)	1		2	3.
		QTY	UNIT	CODE	CODE
	<p>What was the quantity of [INPUT TYPE] that your farm used during the past 2022/23 agricultural year?</p> <p>REPORT NOT DILUTED QTY</p> <p>CODES FOR UNIT:</p> <p>GRAM.....1 KILOGRAM.....2 MILLILITER...3 LITER.....4 OTHER (SPEC) .99</p>			<p>How did you obtain the [INPUT TYPE] that were used during the past 2022/23 agricultural year?</p> <p>SELECT ALL THAT APPLY</p> <p>GIFT FROM NEIGHBORS, FRIENDS, RELATIVES.....1 DONATIONS FROM GOVERNMENTAL INSTITUTIONS....2 DONATIONS FROM NON GOV ORGANIZATIONS.....3 PURCHASE FROM LOCAL MERCHANT/GROCERY.....4 PURCHASE FROM GOVERNMENT AGENCY.....5 PURCHASE FROM FARMER ASSOCIATION.....6 OWN SOURCE.....7 OTHER (SPECIFY).....99</p>	<p>Were the [INPUT TYPE] that you purchased in the past 2022/2023 agricultural year all subsidized, partly subsidized or non-subsidized?</p> <p>ALL PURCHASES WERE SUBSIDIZED.....1 SOME PURCHASES WERE SUBSIDIZED .....2 NO PURCHASE WAS SUBSIDIZED.....3 DON'T KNOW.....98</p>
1	SOLID MANURE / FARM YARD MANURE				
2	LIQUID MANURE / SLURRY				
3	GREEN MANURE (CROP RESIDUES)				
4	COMPOST				
5	STABILIZED SEWAGE SLUDGE				
6	BIOFERTILIZERS				
7	OTHER ORGANIC FERTILIZER				
8	UREA				
9	DIAMMONIUM PHOSPHATE (DAP)				
10	CALCIUM AMMONIUM NITRATE (CAN)				
11	AMMONIUM SULPHATE (SA)				
12	NITROGEN, PHOSPHORUS, POTASSIUM (NPK)				
13	MINJINGU NAFKA PLUS				
14	NPS Zinc				
15	OTHER INORGANIC FERTILIZER				
16	INSECTICIDES				
17	HERBICIDES (SOLID)				
18	HERBICIDES (LIQUID)				
19	FUNGICIDES				
20	RODENTICIDES				
21	OTHER (SPECIFY)				

Ask if (s4q05==1 || s4q07==1 || s4q09==1) || (s6q05==1 || s6q07==1 || s6q09==1)

**SECTION 11. INPUT USE AND ACQUISITION (FERTILIZERS AND PESTICIDES)**

IF Q03.InList(2,3,98) ||  
(Q02.ContainsAny(4,5,  
6) &&  
@rowcode.InList(1,7))

IF  
Q03.InList(1,2)

IF  
Q02.ContainsAny(4,5,  
6)

INPUT CODE	PROGRAMMED IN CAPI: LIST ALL FERTILIZERS AND PESTICIDES THAT HAVE BEEN USED IN THE PAST 2022/23 AGRICULTURAL YEAR (see sect 6 and sect 9, Q1B, 2B, 3B)	4a In total, how much non- subsidized [INPUT TYPE] has your household/farm purchased for the past 2022/23 agricultural year?  REPORT NOT DILUTED QTY REPORT in %s11q1_unit%	4b In total, how much subsidized [INPUT TYPE] has your household/farm purchased for the past 2022/23 agricultural year?  REPORT NOT DILUTED QTY REPORT in %s11q1_unit%	5. ENUMERATOR: ASKS IF RESPONDENT PREFERS GIVING THE TOTAL VALUE OF THE [INPUT TYPE] PURCHASED OR THE UNIT PRICE  TOTAL VALUE...1 UNIT PRICE....2
	INPUT TYPE	QTY	QTY	CODE
1	SOLID MANURE / FARM YARD MANURE			
2	LIQUID MANURE / SLURRY			
3	GREEN MANURE (CROP RESIDUES)			
4	COMPOST			
5	STABILIZED SEWAGE SLUDGE			
6	BIOFERTILIZERS			
7	OTHER ORGANIC FERTILIZER			
8	UREA			
9	DIAMMONIUM PHOSPHATE (DAP)			
10	CALCIUM AMMONIUM NITRATE (CAN)			
11	AMMONIUM SULPHATE (SA)			
12	NITROGEN, PHOSPHORUS, POTASSIUM (NPK)			
13	MINJINGU NAFKA PLUS			
14	NPS Zinc			
15	OTHER INORGANIC FERTILIZER			
16	INSECTICIDES			
17	HERBICIDES (SOLID)			
18	HERBICIDES (LIQUID)			
19	FUNGICIDES			
20	RODENTICIDES			
21	OTHER (SPECIFY)			

Ask if (s4q05==1 || s4q07==1 || s4q09==1) || (s6q05==1 || s6q07==1 || s6q09==1)

**SECTION 11. INPUT USE AND ACQUISITION (FERTILIZERS AND PESTICIDES)**

INPUT CODE	PROGRAMMED IN CAPI: LIST ALL FERTILIZERS AND PESTICIDES THAT HAVE BEEN USED IN THE PAST 2022/23 AGRICULTURAL YEAR (see sect 6 and sect 9, Q1B, 2B, 3B)	IF IsAnswered(Q0 4a) && Q05==1	IF IsAnswered(Q0 4b) && Q05==1	IF IsAnswered(Q0 4a) && Q05==2	IF IsAnswered(Q0 4b) && Q05==2
		6a. What was the total non-subsidized value of the [INPUT TYPE] that you purchased for the past 2022/23 agricultural year?	6b. What was the total subsidized value of the [INPUT TYPE] that you purchased for the past 2022/23 agricultural year?	7a. What was the average non-subsidized unit price of the [INPUT TYPE] that you purchased for the past 2022/23 agricultural year?	7b. What was the average subsidized unit price of the [INPUT TYPE] that you purchased for the past 2022/23 agricultural year?
	INPUT TYPE	TZS	TZS	TZS	TZS
1	SOLID MANURE / FARM YARD MANURE				
2	LIQUID MANURE / SLURRY				
3	GREEN MANURE (CROP RESIDUES)				
4	COMPOST				
5	STABILIZED SEWAGE SLUDGE				
6	BIOFERTILIZERS				
7	OTHER ORGANIC FERTILIZER				
8	UREA				
9	DIAMMONIUM PHOSPHATE (DAP)				
10	CALCIUM AMMONIUM NITRATE (CAN)				
11	AMMONIUM SULPHATE (SA)				
12	NITROGEN, PHOSPHORUS, POTASSIUM (NPK)				
13	MINJINGU NAFKA PLUS				
14	NPS Zinc				
15	OTHER INORGANIC FERTILIZER				
16	INSECTICIDES				
17	HERBICIDES (SOLID)				
18	HERBICIDES (LIQUID)				
19	FUNGICIDES				
20	RODENTICIDES				
21	OTHER (SPECIFY)				

Ask if s1q07==1			
<b>SECTION 12. LIVESTOCK IN STOCK AND CHANGE IN STOCK</b>			
ENUMERATOR READ: In the next sections, I will ask you about the livestock you raised in the agricultural year 2022/23, from October 2022 to September 2023.			
1a. From October 2022 to September 2023, did the household/farm keep any of the following livestock or poultry, irrespective of who the owner is?			
*READ ANSWERS			
*SELECT ALL THAT APPLY			
		INDIGENOUS CATTLE.....1 IMPROVED CATTLE.....2 GOATS.....3 SHEEP.....4 PIGS.....5 INDIGENOUS CHICKEN.....6 IMPROVED CHICKEN.....7 DUCKS.....8 DONKEYS.....9 DOGS.....10 NONE OF THE ABOVE.....0	

Ask if s1q07==1							
SECTION 12. LIVESTOCK IN STOCK AND CHANGE IN STOCK							
					IF Holding_TYPE==1 && s12q01b>0	IF Holding_TYPE==1 && s12q01b>0	IF Holding_TYPE==1 && s12q01b>0
CODE LS GROUP	LIVESTOCK GROUP	CODE LS NAME	LIVESTOCK/POULTRY TYPE	1b.	1c.	1d.	2a.
				How many [LIVESTOCK/POULTRY TYPE] did this household/farm keep as of 1st October 2023?  IF 0 ► NEXT ROW	How many [LIVESTOCK/POULTRY TYPE] did this household/farm keep last year at the same period, as of 1st October 2022?	Does your household own all of the [LIVESTOCK/POULTRY TYPE] it keeps on the farm as of 1st October 2023?	Does the farm have production and/marketing contracts for [LIVESTOCK/POULTRY TYPE] being raised?
				number	number	1 = Yes 0 = No	1 = Yes 0 = No
1	Large ruminants	1	Indigenous cattle				
		2	Improved cattle				
2	Small ruminants	3	Goats				
		4	Sheep				
3	Pigs	5	Pigs				
4	Poultry	6	Indigenous chicken				
		7	Improved chicken				
		8	Ducks				
5	Donkeys	9	Donkeys				

6	Dogs	10	Dogs			
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## SECTION 12. LIVESTOCK IN STOCK AND CHANGE IN STOCK

				PURCHASES		OTHER ENTRIES (GIFTS - RECEIVED, ETC.)		SALES OF LIVE ANIMALS		
COD ELS GRO UP	LIVESTO CK GROUP	COD ELS NA ME	LIVESTOCK/POU LTRY TYPE	4	5	6	7	8a	8b	8c
				<p>IF 0 RECORD "0" AND ► 6</p> <p>How many [LIVESTOCK/POU LTRY TYPE] did this household/farm buy alive from October 2022 to September 2023?</p> <p>number</p>	<p>What was the average unit price of the [LIVESTOCK NAME] purchased from October 2022 to September 2023?</p> <p>TZS</p>	<p>How many [LIVESTOCK/POU LTRY TYPE] were received for free or as a gift or dowry from October 2022 to September 2023?</p> <p>number</p>	<p>IF 0 RECORD "0" AND ► 9</p> <p>How many [LIVESTOCK/POU LTRY TYPE] has this farm sold alive from October 2022 to September 2023?</p> <p>number</p>	<p>TOTAL VALUE..1 UNIT PRICE..2 ►8</p> <p>ENUMERATOR: ASK RESPONDENT IF S/HE PREFERS GIVING THE TOTAL VALUE OF THE [LIVESTOCK/POU LTRY TYPE] SOLD OR THE UNIT PRICE</p>	<p>► 9 What were the total revenues from these [LIVESTOCK/POU LTRY TYPE] sales from October 2022 to September 2023?</p> <p>TZS</p>	<p>What was the average unit price of the [LIVESTOCK/POU LTRY TYPE] sold from October 2022 to September 2023?</p> <p>TZS</p>
1	Large ruminants	1	Indigenous cattle							
		2	Improved cattle							
2	Small ruminants	3	Goats							
		4	Sheep							
3	Pigs	5	Pigs							
4	Poultry	6	Indigenous chicken							
		7	Improved chicken							

		8	Ducks		
5	Donkeys	9	Donkeys		
6	Dogs	10	Dogs		

Ask if s1q07==1

## SECTION 12. LIVESTOCK IN STOCK AND CHANGE IN STOCK

				DEATHS	LOST	ANIMALS SLAUGHTERED			
CODE LS GROU P	LIVESTOCK GROUP	CODE LS NAME	LIVESTOCK/POULTR Y TYPE	9	10	11	12		13
				How many [LIVESTOCK/POULTR Y TYPE] died (diseases, natural events, etc) from October 2022 to September 2023?	How many [LIVESTOCK/POULTR Y TYPE] were lost (stolen, missing etc.) from October 2022 to September 2023?	IF 0 RECORD "0" AND ► 16  How many [LIVESTOCK/POULTR Y TYPE] has this household/farm slaughtered from October 2022 to September 2023?	What was the average weight of the [LIVESTOCK/POULTR Y TYPE] before they were slaughtered?	Approximately, what proportion of [LIVESTOCK/POULTR Y TYPE] meat was consumed by the household/farm from October 2022 to September 2023?	
				number	number	number	QTY	UNIT	%
1	Large ruminants	1	Indigenous cattle						
		2	Improved cattle						
2	Small ruminants	3	Goats						
		4	Sheep						
3	Pigs	5	Pigs						
4	Poultry	6	Indigenous chicken						
		7	Improved chicken						
		8	Ducks						
5	Donkeys	9	Donkeys						
6	Dogs	10	Dogs						

Ask if s1q07==1

**SECTION 12. LIVESTOCK IN STOCK AND CHANGE IN STOCK**

				ANIMALS SLAUGHTERED			OTHER EXITS (DONATIONS, GIVEN AWAY ETC.)
CODE LS GROUP	LIVESTOCK GROUP	CODE LS NAME	LIVESTOCK/POULTRY TYPE	14	15	15b	16
				Did the household/farm sell any slaughtered [LIVESTOCK/POULTRY TYPE] or their meat from October 2022 to September 2023?  YES...1 NO....0 ▶16	Approximately, what proportion of slaughtered [LIVESTOCK/POULTRY TYPE] was sold by the farm from October 2022 to September 2023?	What was the price per kg of [LIVESTOCK/POULTRY TYPE] meat sold from October 2022 to September 2023?	How many [LIVESTOCK/POULTRY TYPE] were given away for example as dowry from October 2022 to September 2023?
				CODE	%	TZS/	number
1	Large ruminants	1	Indigenous cattle				
		2	Improved cattle				
2	Small ruminants	3	Goats				
		4	Sheep				
3	Pigs	5	Pigs				
4	Poultry	6	Indigenous chicken				
		7	Improved chicken				
		8	Ducks				
5	Donkeys	9	Donkeys				
6	Dogs	10	Dogs				



Ask if s1q07==1

**SECTION 13: LIVESTOCK PRODUCTION COSTS**

CODE LS NAME	LIVESTOCK/POULTRY TYPE	1a.	1b.	2a.	2b.	3.	4.	5.
		How much has this household/farm paid for water for [LIVESTOCK GROUP] during the wet season from October 2022 to September 2023?  *RECORD 0 IF NO COSTS INCURRED  TZS	How much has this household/farm paid for water for [LIVESTOCK GROUP] during the dry season from October 2022 to September 2023?  *RECORD 0 IF NO COSTS INCURRED  TZS	How much has this household/farm spent to purchase fodder / crop residues / grazing insitu / industrial products / roots & tubers / balanced concentrates / feed supplements for [LIVESTOCK GROUP] during the wet season from October 2022 to September 2023?  *RECORD 0 IF NO COSTS INCURRED  TZS	How much has this household/farm spent to purchase fodder / crop residues / grazing insitu / industrial products / roots & tubers / balanced concentrates / feed supplements for [LIVESTOCK GROUP] during the dry season from October 2022 to September 2023?  *RECORD 0 IF NO COSTS INCURRED  TZS	How much did this household/farm spend in total for breeding [LIVESTOCK GROUP] from October 2022 to September 2023?  *RECORD 0 IF NO COSTS INCURRED  TZS	How much did this household/farm spend on vaccines and controls against internal and / external parasites for [LIVESTOCK GROUP] from October 2022 to September 2023?  *RECORD 0 IF NO COSTS INCURRED  TZS	How much did this household/farm spend in total on curative treatments for [LIVESTOCK GROUP] from October 2022 to September 2023?  *RECORD 0 IF NO COSTS INCURRED  TZS
1	Indigenous cattle							
2	Improved cattle							
3	Goats							
4	Sheep							
5	Pigs							
6	Indigenous chicken							
7	Improved chicken							

Ask if s12q01a.ContainsAny(1,2,3)

**SECTION 14: MILK PRODUCTION**

					IF Q1==1 && Holding_TYPE ==2	IF Q02==1	IF (Q01==1 && Holding_TYPE= =1)    Q02==0	IF (Q01==1 && Holding_TYPE= =1)    Q02==0	IF IsAnswered(Q04 a)	IF IsAnswered(Q04 b)	IF IsAnswered(5 a)
				1	2	3	4a	4b	5a	5b	6a
COD E LS GRO UP	LIVESTOCK GROUP	C O D E LS N A M E	LIVESTOC K NAME	Did the household/farm milk any [LIVESTOCK NAME] from October 2022 to September 2023?	Did the household/farm keep record of the quantity of milk produced from October 2022 to September 2023?	What was the quantity of milk produced from the [LIVESTOCK NAME] from October 2022 to September 2023?	During the wet season between October 2022 and September 2023, how many [LIVESTOCK NAME] were milked?	During the dry season between October 2022 and September 2023, how many [LIVESTOCK NAME] were milked?	From October 2022 to September 2023, during the wet season, on average for how many days were [LIVESTOCK NAME] milked?	From October 2022 to September 2023, during the dry season, for average on how many days were [LIVESTOCK NAME] milked?	On these days during the wet season in which [LIVESTOCK NAME] were milked, what was the average milk production per head and per day?
				1 = Yes 0 = No	1 = Yes 0 = No	Litres	number	number	number	number	litres
1	Large ruminants	1	Indigenous cattle								
		2	Improved cattle								
2	Small ruminants	3	Goats								

Ask if s12q01a.ContainsAny(1,2,3)

**SECTION 14: MILK PRODUCTION**

				IF IsAnswered(5b )	IF Q1==1 && Holding_TYPE==1	IF Q1==1	IF Q8==1	IF Q8==1	IF Q9b==1	IF Q9b==2
CODE LS GROU P	LIVESTOC K GROUP	CODE LS NAM E	LIVESTOC K NAME	6b On these days during the dry season in which [LIVESTOCK NAME] were milked, what was the average milk production per head and per day?	7 From October 2022 to September 2023, what percentage or proportion of the [LIVESTOCK NAME] milk collected did this farm consume?	8 From October 2022 to September 2023, did this household/farm sell the milk of [LIVESTOCK NAME]?	9a From October 2022 to September 2023, what percentage or proportion of the [LIVESTOCK NAME] milk collected did the household/farm sell?	9b ENUMERATOR: ASK RESPONDENT IF THE farm PREFERS GIVING THE TOTAL VALUE OF EARNINGS OR THE UNIT PRICE  Total value...1 Unit Price...2	9c How much has this farm earned in total by selling [LIVESTOCK NAME] milk from October 2022 to September 2023?	9d What was the average unit price of the [LIVESTOCK NAME] milk sold from October 2022 to September 2023?  REPORT THE PRICE PER LITRE
				litres	%	1 = Yes 0 = No	%	CODE	TZS	TZS
1	Large ruminants	1	Indigenous cattle							
		2	Improved cattle							
2	Small ruminants	3	Goats							

SECTION 15: EGG PRODUCTION										
					IF Q1a==1	IF Q1a==1 && Holding_TYPE==2	IF Q02==1    @rowcode==2	IF IsAnswered(s15q03)	IF @rowcode==1 && ((Q01a==1 && Holding_TYPE==1)    Q02==0)	IF IsAnswered(Q04)
				1a	1b	2	3	3_unit	4	5
CODE LS GROUP	CODE LS NAME	LIVESTOCK GROUP	LIVESTOCK NAME	Has any [LIVESTOCK NAME] in the household/farm produced any eggs from October 2022 to September 2023?	How many of [LIVESTOCK NAME] layed eggs from October 2022 to September 2023?	Did the farm keep record of the quantity of eggs layed from October 2022 to September 2023?	How many eggs did [LIVESTOCK NAME] lay from October 2022 to September 2023?	Unit mentioned by the respondent	How many clutching periods did [LIVESTOCK NAME] have on average from October 2022 to September 2023?	How many eggs per clutching period did [LIVESTOCK NAME] lay on average?
			IF farm KEPT ANY [LIVESTOCK NAME] ASK QUESTION 1							
			IF NOT GO TO NEXT [LIVESTOCK NAME]	1 = Yes 0 = No IF 0 ► NEXT LINE	number	1 = Yes 0 = No	number	1 = Eggs 2 = Trays (30 eggs)	number	IF NONE, RECORD 0  number
4	6	Poultry	Indigenous chicken							
	7		Improved chicken							

#### SECTION 15: EGG PRODUCTION

				IF IsAnswered(s15q05)	IF Q1a==1 && Holding_TYPE==1	IF Q1a==1	IF Q7==1	IF Q7==1	IF Q8b==1	IF Q8b==2
				5_unit	6	7	8a	8b	8c	8d
CODE LS GROUP	CODE LS NAME	LIVESTOCK GROUP	LIVESTOCK NAME	Unit mentioned by the respondent	From October 2022 to September 2023, what percentage or proportion of the [LIVESTOCK NAME] eggs were consumed by the	From October 2022 to September 2023, did this household/farm sell the [LIVESTOCK	From October 2022 to September 2023, what percentage or proportion of the	Total value...1 Unit Price...2  ENUMERATOR: ASK IF THE farm PREFERS GIVING	How much has this household/farm earned in total by selling [LIVESTOCK NAME] eggs	What was the average unit price of the [LIVESTOCK NAME] eggs sold from October 2022 to September 2023?
			IF farm KEPT ANY [LIVESTOCK							

			<b>K NAME] ASK QUESTION 1</b>		household/farm?	NAME] eggs?	[LIVESTOCK NAME] eggs did the household/far m sell?	THE TOTAL VALUE OF EARNINGS OR THE UNIT PRICE	from October 2022 to September 2023?	
			<b>IF NOT GO TO NEXT [LIVESTOC K NAME]</b>	1 = Eggs 2 = Trays (30 eggs)	%	1 = Yes 0 = No	%		TZS	<b>TZS per %s15q03_unit %</b>
4	6	Poultry	Indigenous chicken							
	7		Improved chicken							

Ask if s1q07==1    s1q08==1											
<b>SECTION 16: OTHER LIVESTOCK PRODUCTS</b>				-		-					
Q1. Did this household/farm produce any of the following livestock product types or services from October 2022 to September 2023?											
*Read answers											
*Select all that apply											
STING BEE HONEY.....1											
STINGLESS BEE HONEY.....2											
ANIMAL SKINS.....3											
ANIMAL HIDES.....4											
ANIMAL DUNG.....5											
DRAUGHT ANIMAL POWER (E.G. OXEN)....6											
ANIMALS RENT OUT FOR BREEDING.....7											
OTHER (SPECIFY).....99											
NONE OF THE ABOVE.....0											
-											
-											
-											
-											
-											
-											
-											
-											

Ask if s1q07==1 || s1q08==1

**SECTION 16: OTHER LIVESTOCK PRODUCTS**

		IF @rowcode.InList(1,2)	IF @rowcode.InList(1,2)				IF Q4==1	IF Q04==1 && @rowcode.Inlist(1,2,3,4,5,99)	IF Q04==1 && @rowcode.Inlist(6,7)	IF Q6a==1	Q06a==2	
PRODUCT CODE	[SPECIFIC ITEMS TO BE ENABLED BASED ON THE ANIMALS RAISED ON THE FARM]  PRODUCT TYPE	2a.	2b.	3.		4	5.	6a	6b	6c	6d	
		How many local bee hives does this household/farm have?	How many improved bee hives does this household/farm have?	Number/pieces..1 Kg.....2 Litre.....3  What is the quantity of [PRODUCT TYPE] produced from October 2022 to September 2023?	YES..1 NO...0 NEXT PRODUCT  Did this household/farm sell any [PRODUCT TYPE] from October 2022 to September 2023?	What is the quantity of [PRODUCT TYPE] sold from October 2022 to September 2023?  *ASK IN %s16q02_unit%	Total value..1 Unit Price...2  ENUMERATOR: ASK RESPONDENT IF S/HE PREFERS GIVING THE TOTAL VALUE OF EARNINGS OR THE UNIT PRICE	How much in total did this household/farm earn by selling [PRODUCT TYPE] from October 2022 to September 2023?	What is the total value of [PRODUCT TYPE] sold from October 2022 to September 2023?	What was the average price of the [ITEM] per %s16q02_unit% sold from October 2022 to September 2023?		
		NUMBER	NUMBER	QUANTITY	UNIT	CODE	QUANTITY	CODE	TZS	TZS	TZS per %s16q02_unit%	
	1	Sting bee honey								-		
2	Stingless bee honey											
3	Animal skins											
4	Animal hides											
5	Animal dung											
6	Animal draught power (oxen)										-	-
7	Animal rent out for breeding											
99	Other (specify)											

Ask if s1q09==1

SECTION 17. AQUACULTURE PRODUCTION

ENUMERATOR READ: In the next sections, I will ask you about your aquaculture activity from October 2022 to September 2023.

MILKFISH.....1

TILAPIA.....2

TROUT.....3

RAINBOW LUNGFISH.....4

AFRICAN CATFISH.....5

1a. From October 2022 to September 2023, did the household/farm collect any of the following aquaculture products?

\*READ ANSWERS

\*SELECT ALL THAT APPLY

MILKFISH.....1

TILAPIA.....2

RAINBOW TROUT.....3

LUNGFISH.....4

AFRICAN CATFISH.....5

PRAWNS.....6

CRABS.....7

SEAWEED.....8

SEA CUCUMBER.....9

Ask if s1q09==1								
-----------------	--	--	--	--	--	--	--	--



SECTION 17. AQUACULTURE PRODUCTION								
ENUMERATOR READ: In the next sections, I will ask you about your aquaculture activity from October 2022 to September 2023.								
	IF Holding_TYPE==1 && @rowcode.Inlist(1,2,3,4,5)		IF Holding_TYPE==1		IF Q04==1	IF Q04==1	IF Q06a==1	IF Q06a==2
	1b	2	3	4	5	6a	6b	6c
ITEMS	What was the main source of fingerlings for the [ITEM] collected from October 2022 to September 2023?  OWN SOURCE.....1 NEIGHBOR.....2 GOVERNMENT INSTITUTION.....3 PRIVATE TRADE....4 NGO/PROJECT.....5 NATURAL POND.....6 OTHER (SPECIFY) .99	What is the total quantity of [ITEM] collected from October 2022 to September 2023?  *ASK IN KG	From October 2022 to September 2023, what percentage or proportion of the [ITEM] collected was consumed by this household?	YES...1 NO...0  From October 2022 to September 2023, did the household/farm sell any of the [ITEM] collected?	From October 2022 to September 2023, what percentage or proportion of [ITEM] did the household/farm sell?	Total value...1 Unit Price...2  ENUMERATOR: ASK RESPONDENT IF S/HE PREFERS GIVING THE TOTAL VALUE OF EARNINGS OR THE UNIT PRICE	What was the total amount earned from the sales of [ITEM] done from October 2022 to September 2023?  CONSIDER ALL TYPES OF SALES, INCLUDING PRODUCTION CONTRACTS AND IN-KIND SALES  ESTIMATE THE VALUE OF IN-KIND PAYMENTS.	What was the average price of the [ITEM] per kg sold in the agricultural year 2022/23?
	CODE	QUANTITY	%	CODE	%	CODE	TZS	TZS per kg
1. Milkfish								
2. Tilapia								
3. Rainbow Trout								
4. Lungfish								
5. African catfish								
6. Prawns								
7. Crabs								
8. Seaweed								
9. Sea cucumber								

Ask if VAR0==true

SECTION 18: LABOR														
If Holding_TYPE==1														
Household labor														
		-	-	IF IsAnswered(Q01)	IF IsAnswered(Q02)	IF Q4.Contains(1)	IF IsAnswered(Q5a)	IF IsAnswered(Q5b)	IF Q4.Contains(2)	IF IsAnswered(Q5d)	IF IsAnswered(Q5e)	IF Q4.Contains(3)	IF IsAnswered(Q5g)	IF IsAnswered(Q5h)
INDIVIDUAL ID	1.	1.	2.	3.	4.	5a.	5b.	5c.	5d.	5e.	5f.	5g.	5h.	5i.
	PROGRAMMED IN CAPI: COPY FROM HH MEMBER ROSTER TO HERE ALL THE HOUSEHOLD MEMBERS AGED 5 YEARS AND ABOVE	For how many months has [NAME] worked on the farm during the past 2022/2023 agricultural year?	On such months, for how many days per month on average did [NAME] work on the farm?	On such days, for how many hours per day on average did [NAME] work on the farm?	On what sector of activities did [NAME] work during the past 2022/2023 agricultural year?  READ ANSWERS SELECT ALL THAT APPLY  CROP.....1 LIVESTOCK...2 AQUACULTURE.3	For how many months has [NAME] worked on crop activities during the past 2022/2023 agricultural year?	How many days per month on average?	How many hours per day on average?	For how many months has [NAME] worked on livestock activities during the past 2022/2023 agricultural year?	How many days per month on average?	How many hours per day on average?	For how many months has [NAME] worked on aquaculture activities during the past 2022/2023 agricultural year?	How many days per month on average?	How many hours per day on average?
	PID	NUMBER OF MONTHS	NUMBER OF DAYS	NUMBER OF HOURS	CODE	NUMBER OF MONTHS	NUMBER OF DAYS	NUMBER OF HOURS	NUMBER OF MONTHS	NUMBER OF DAYS	NUMBER OF HOURS	NUMBER OF MONTHS	NUMBER OF DAYS	NUMBER OF HOURS
1		-	-	-										
2		-	-	-										
3		-	-	-										
4		-	-	-										
5		-	-	-										

Ask if VAR0==true					
<b>SECTION 18: LABOR</b>					
<b>External labor</b>					
6a. During the past 2022/2023 agricultural year, did the household/farm use any of the following types of external workers?					
	<b>*READ ANSWERS</b>				
	<b>*SELECT ALL THAT APPLY</b>				
FREE WORKERS.....1 EXCHANGE WORKERS.....2 HIRED WORKERS.....3					
-	-		<b>IF Q6b==1</b>	<b>IF Q6b==1</b>	<b>IF IsAnswered(Q8)</b>
		6b.	7	8	9
WORKER CATEGORY	SECTOR OF ACTIVITY	YES...1 NO...0 Did any of the [WORKER CATEGORY] work on [ACTIVITY] activities during the past agricultural year 2022/2023?	How many [WORKER CATEGORY] worked on [ACTIVITY] activities during the past agricultural year 2022/2023?	During the past agricultural year 2022/2023, on average for how many months did [WORKER CATEGORY] work on [ACTIVITY] activities?	On such months, on average for how many days per month did the [WORKER CATEGORY] work on [ACTIVITY] activities?
<b>WORKER ID</b>	<b>ACTIVITYID</b>	-	<b>NUMBER</b>	<b>NUMBER OF MONTHS</b>	<b>NUMBER OF DAYS</b>
1. Free workers	1. CROP	-			
	2. LIVESTOCK	-			
	3. AQUACULTURE	-			
2. Exchange workers	1. CROP	-			
	2. LIVESTOCK	-			
	3. AQUACULTURE	-			
3. Hired workers	1. CROP	-			
	2. LIVESTOCK	-			
	3. AQUACULTURE	-			

Ask if VAR0==true					
SECTION 18: LABOR					
External labor					
-	-	IF IsAnswered(Q9)	IF WORKERID.InList(2,3)	IF Q11==1	IF Q11==1
		10	11	12	13
WORKER CATEGORY	SECTOR OF ACTIVITY	On such days, on average for how many hours per day did [WORKER CATEGORY] work on [ACTIVITY] activities?	Have you paid [WORKER CATEGORY] for the work on [ACTIVITY] activities?  YES...1 NO...0	During the past agricultural year 2022/2023, how much in total did you pay cash [WORKER CATEGORY] for the work on [ACTIVITY] activities?	During the past agricultural year 2022/2023, how much in total did you pay in-kind [WORKER CATEGORY] for the work on [ACTIVITY] activities?  EXCLUDE PAYMENTS MADE IN FARM PRODUCTION. ESTIMATE IN-KIND VALUE IN TZS RECORD 0 IF NONE
WORKER ID	ACTIVITYID	NUMBER OF HOURS	CODE	TZS	TZS
1. Free workers	1. CROP				
	2. LIVESTOCK				
	3. AQUACULTURE				
2. Exchange workers	1. CROP				
	2. LIVESTOCK				
	3. AQUACULTURE				
3. Hired workers	1. CROP				
	2. LIVESTOCK				
	3. AQUACULTURE				

## SECTION 19: OTHER ECONOMICS

[illegible]

```
(@rowcode.InList(14,15) && Holding_TYPE==2) ||
@rowcode.InList(1,2,3,4,5,6,7,8,9,10,11,12,13,99)
```

IF  
Q1b==1

IF  
Q1b==1

ITEM CODE	ITEM / SERVICE	1b.	2.	3.
		Did your household/farm pay for [ITEM] during the agricultural year 2022/23?	What was the total amount paid for [ITEM]?	YEAR.....1 MONTH.....2 DAY.....3 AGRICULTURE SEASON..4 What period of time does this payment cover?

		YES...1 NO....0	TZS	DURATI ON	COD E
1	<b>Animal traction rental</b> (e.g. to prepare land)				
2	<b>Post-harvest labor</b> (e.g. for Shelling, Peeling, Drying, Cleaning or Processing , etc)				
3	<b>Transport related to agricultural activities</b> (e.g. transport crop to market, to storage, transport to buy inputs)				
4	<b>Rentals or leasing of machinery, equipment, or vehicles</b> related to agricultural activities (exclude transport costs)				
5	<b>Repairs and maintenance of machinery, equipment, and vehicles</b>				
6	<b>Rentals or leasing of farm lands and buildings</b>				
7	<b>Repairs and maintenance of farm buildings and fences</b>				
8	<b>Agricultural insurance</b>				
9	<b>Agricultural extension services</b> (e.g. government or private extension services)				
10	<b>Water for crop cultivation</b> (including irrigation fees)				
11	<b>Taxes and licensing fees related to agricultural activities</b> (e.g. land taxes, certification fees, crop production/sales)				
12	<b>Contractual services</b> for agricultural activities [exclude these costs from items above)				
13	<b>Hired workers for simple and routine tasks on the farm</b>				
14	<b>Fuel for vehicles, machinery used for farming</b>				
15	<b>Electricity for farming activity</b>				
99	<b>Other (specify)</b>				

SECTION 19: OTHER ECONOMICS							
	IF Holding_TYPE==1 && s2q04>=15 && s19q04a==1						
				IF Holding_TYPE==1 && s2q04>=15 && s19Q06a==1	IF Q06a==1	IF Q06a==1	IF Q06a==1
4a.	4b.	5	6a.	6b.	6c_cash	6c_kind	6d.
YES...1 NO....0 In the past 2022/2023 agricultural year, did this household/farm have access to or avail formal or informal credit for protection against external shocks?	Who in the household had access to or avail formal or informal credit?  *SELECT ALL MEMBERS THAT APPLY	YES...1 NO....0 In the past 2022/2023 agricultural year, did this household/farm have access to or avail insurance for protection against external shocks?	Yes.....1 No.....0 In the past 2022/2023 agricultural year, has the household/farm taken any cash or in-kind loan for agricultural purposes?	Who in the household took a loan for agricultural purposes?  *SELECT ALL MEMBERS THAT APPLY	What was the total cash amount received in the past agricultural year 2022/2023?	What was the total in-kind amount received in the past agricultural year 2022/2023?  *If no in-kind amount received, record 0. Estimate value in TZS.	What was the loan yearly interest rate?  IF SEVERAL LOANS, INDICATE THE AVERAGE RATE
					TZS	in-kind	%

IF Q06a==1	IF Q06a==1	IF Q06a==0	IF Q06a==1	IF Q09a==1	IF Q09a==1
6c.	7	8	9a	9b_cash.	9b_kind.
PUBLIC BANKS OR OTHER GOV. INSTITUTIONS...1 COMMERCIAL BANKS.....2 INSURANCE COMPANIES.....3 MICROFINANCE INSTITUTIONS.....4 NGOS.....5 PRODUCTION COOPERATIVES.....6 PRIVATE MONEY LENDER.....7 FRIENDS OR FAMILY - LIVING IN THE COUNTRY.8 FRIENDS OR FAMILY - LIVING ABROAD.....9 OTHER (SPECIFY).....99  Who was the main loan provider?	What were your three main reasons for seeking loans?  PAY FOR LABORERS .....1 PURCHASE SEEDS, FERTILIZERS .....2 AGROCHEMICALS.....2 BUY OR REPAIR FARM EQUIPMENT, MACHINERY OR BUILDINGS.....3 DRAUGHT POWER.....4 PURCHASE LIVESTOCKS.....5 PURCHASE ANIMAL INPUTS.....6 AQUACULTURE.....7 APICULTURE (BEE KEEPING)....8 TRADING PRODUCE.....9 PURCHASE LAND.....10 OTHER (SPECIFY) .....99	What is the main reason why the household/farm has not taken loans?  DID NOT REQUEST.....1 REQUEST WAS REFUSED.....2 IMPOSSIBLE TO REQUEST, NO ACCESS...3 INVESTMENT ACTIVITY NOT ACCEPTED...4 NOT ENOUGH INCOME.....5 BAD CREDIT HISTORY.....6 INADEQUATE COLLATERAL...7 INTEREST RATE TOO HIGH....8 OTHER (SPECIFY) .....99	In the past agricultural year 2022/2023, has the household/farm repaid any cash or in-kind loan taken for agricultural purposes? YES...1 NO....0	What was the total cash amount repaid in the past agricultural year 2022/2023?	What was the total in-kind amount repaid in the past agricultural year 2022/2023?  *IF IN-KIND, ASK THE RESPONDENT TO ESTIMATE VALUE

	1st	2nd	3rd	CODE	CODE	TZS	TZS

Ask if VAR0==true && Holding\_TYPE==2

#### SECTION 20. FARM REGISTRATION

1	2A	2B
<p>YES.....1</p> <p>NO.....0 ► NEXT SECTION</p> <p>Is the farm recorded in an official register? (e.g., administrative registers of agricultural enterprises, tax register, etc.)</p>	<p>Specify the type of register and provide the registration number</p> <p>1. Registration of Business name</p> <p>2. Registration of Company limited by Shares</p> <p><b>DEFINITIONS:</b></p> <p><b>A Business Name</b> means the name or style under which any business is carried on, whether in partnership (more than one person) or sole proprietorship (an individual).</p> <p><b>Company limited by shares</b> is a registration that involves an association of any two or more persons lawfully intending to carry on business in line with the requirements prescribed by the Companies Act.</p>	
CODE	CODE	NUMBER



<b>END OF INTERVIEW</b>																
<b>CAPI-VAR6=1 if sect 13-Q1 CONTAINS MAIZE OR PADDY</b>																
<b>1. STATUS OF THE INTERVIEW</b>																
						RESPONDENT HAD TO LEAVE...1										
						RESPONDENT WAS BUSY WITH										
						OTHER ACTIVITIES.....2										
						RESPONDENT DID NOT KNOW THE										
						ANSWERS.....3										
						RESPONDENT REFUSED TO ANSWER SOME										
						QUESTIONS 4										
	<input type="radio"/> 1 completed															
	<input type="radio"/> 2 partially completed															
	<input type="radio"/> 3 not interviewed															
<b>2. (IF Q1==2) REASON FOR NOT COMPLETING THE INTERVIEW</b>																
<b>3. END TIME OF INTERVIEW</b>																
						DATE	HH	MM								
<b>4. Interview location</b>						DWELLING.....1										
						MAIN AGRICULTURAL BUILDING.....2										
<b>5. GPS coordinates of the interview location</b>						5a. latitude		°								
						5b. longitude		°								

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