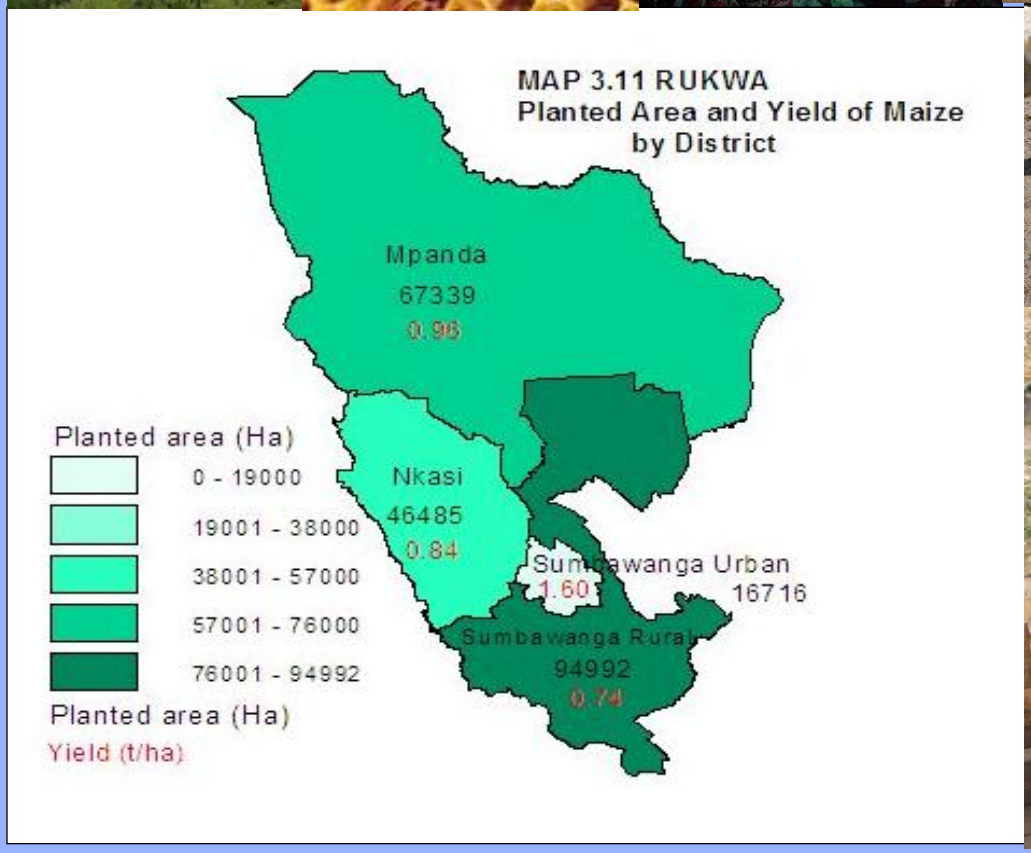
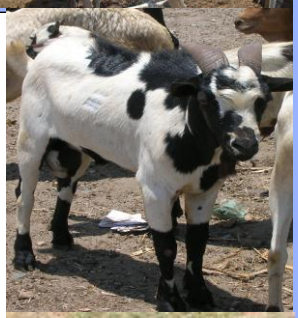
The United Republic of Tanzania

# NATIONAL SAMPLE CENSUS OF AGRICULTURE 2007/2008

## Volume Vo: REGIONAL REPORT: RUKWA REGION



Ministry of Agriculture, Food Security and Cooperatives; Ministry of Livestock Development and Fisheries; Ministry of Water and Irrigation; Ministry of Agriculture, Livestock and Natural Resources, Zanzibar; Prime Minister's Office, Regional Administration and Local Governments; Ministry of Industries, Trade and Marketing; The National Bureau of Statistics and the Office of the Chief Government Statistician, Zanzibar

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## ACRONYMS AND ABBREVIATIONS

| | |
|---|---|
| ASDP | Agricultural Sector Development Programme |
| CSPro | Census and Survey Processing Program |
| CSTWG | Censuses and Surveys Technical Working Group |
| DADIPS | District Agricultural Development and Investment Projects |
| DADO | District Agricultural Development Officer |
| DfID | Department for International Development |
| DIAS | District Integrated Agricultural Survey |
| DS | District Supervisor |
| EAS | Expanded Agricultural Survey |
| EAs | Enumeration Areas |
| EU | European Union |
| FE | Field Enumerator |
| GDP | Gross Domestic Product |
| GIS | Geographical Information System |
| ha | Hectares |
| hh | Household |
| IAS | Integrated Agricultural Survey |
| ICR | Intelligent Character Recognition |
| ID | Identity |
| IEC | Information, Education and Communication |
| JICA | Japanese International Cooperation Agency |
| LRS | Long Rainy Season, |
| MAFC | Ministry of Agriculture, Food Security and Cooperatives |
| MIT | Ministry of Industry and Trade |
| MLFD | Ministry of Livestock and Fisheries Development |
| NBS | National Bureau of Statistics |
| NGO | Non Governmental Organization |
| NMS | National Master Sample |
| NSCA | National Sample Census of Agriculture |
| NSGRP | National Strategy for Growth and Reduction of Poverty (MKUKUTA) |
| OCGS | Office of Chief Government Statistician Zanzibar |

| | |
|---|---|
| PMO-RALG | Prime Ministers Office, Regional Administration and Local Government |
| PPS | Probability Proportional to Size |
| PSU | Primary Sampling Unit |
| RS | Regional Supervisor |
| RSM | Regional Statistical Manager |
| SPSS | Statistical Package for Social Science |
| SRS | Short Rainy Season |
| TOT | Training of Trainers |
| UNDP | United Nations Development Programme |
| UNFAO | United Nations Food and Agriculture Organization |

## PREFACE

At the end of the 2007/08 Agricultural Year, the National Bureau of Statistics (NBS) in collaboration with the Ministries of Agriculture, Food Security and Cooperatives; Livestock and Fisheries Development; Water; Industry and Trade; the Prime Minister's Office, Regional Administration and Local Government (PMO/RALG) and the Office of the Chief Government Statistician, (OCGS), Ministries of Agriculture and Natural Resources; Livestock and Fisheries conducted the Agricultural Sample Census. It was the fourth Agricultural Census to be carried out in Tanzania, the first one was conducted in 1971/72, the second in 1993/94 and 1994/95 (during 1993/94 data on household characteristics and livestock count were collected and data on crop area and production in 1994/95), and the third was conducted in 2002/03.

The census collected detailed data on crop production, crop marketing, crop storage, livestock production, fish farming, and poverty. The census was large in its scope and coverage and provides data that can be disaggregated at district level and thus, allow comparisons with the 2002/03 National Sample Census of Agriculture. The census covered smallholders in rural areas only and large scale farms. This report presents data disaggregated up to regional and district levels and focuses on small holder crop production and livestock keeping.

The extensive nature of the census in regard to its scope and coverage is a result of the increasing demand for more detailed information to assist in the proper planning of the agricultural sector and in the decentralization of planning to district level. It is hoped that this report will provide new insights for planners, policy makers, researchers and others involved in the agricultural sector in order to improve the prevailing conditions faced by agricultural households in the country.

On behalf of the Government of Tanzania, I wish to express my appreciation for the financial support provided by the development partners, in particular, the Department for International Development (DfID) and the Japanese Government through the Japan International Cooperation Agency (JICA) and others who contributed through the pooled fund mechanism.

My appreciation also goes to all those who in one-way or the other have contributed to the success of the census. In particular, I would like to mention the enormous effort made by the Planning Group composed of professionals from the Agriculture Statistics Department of the National Bureau of Statistics; Ministry of Agriculture, Food Security and Cooperatives; Ministry of

Livestock Development and Fisheries; Ministry of Water and Irrigation; Ministry of Agriculture, Livestock and Environment, Zanzibar, the Prime Minister's Office, Regional Administration and Local Government, Ministry of Industries, Trade and Marketing and the Office of the Chief Government Statistician, Zanzibar; the Food and Agriculture Organization of the United Nations and the Censuses and Surveys Technical Working Group (CSTWG).

Finally, I would like to extend my sincere gratitude to all the professionals, the consultants, Regional and District Supervisors and field enumerators for their commendable work. Certainly without their dedication, the census would not have been successful**.**

Dr. Albina Chuwa
Director General
National Bureau of Statistics

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# 1 BACKGROUND INFORMATION

## 1.1 Introduction

This part of the report presents a brief description of the regional profile by providing information on geographical location, land area, climate, administrative set up, population and socio-economic indicators. The information will provide the user with a general understanding of the region and its resources.

## 1.2 Geographical Location and Boundaries

Rukwa is one of the 21 regions of Tanzania. Sumbawanga serves as the region's capital. The region is bordered to the north by Kigoma and Tabora Regions, to the east by Mbeya Region, to the south by Zambia and to the west by Lake Tanganyika which forms a border between the region and the Democratic Republic of Congo.

According to the 2002 Tanzania National Census, the population of the region was 1,141,743. The region was established in year 1975 by taking Mpanda from Tabora and Sumbawanga from Mbeya region. Its name comes from Lake Rukwa, which harbours the largest population of crocodiles in the nation. It is the region of the FIPA Society, who involves themselves in agriculture and livestock keeping.

## 1.3 Land Area

The region has an area of 6,863,500 square ha, of which 2,537,029 ha 539,627 ha (22.9%) are under cultivation.

## 1.4 Climate

The climate in Rukwa region may be described generally as dry sub humid to semi-arid with distinct wet and dry season and a tropical temperature regime. The region has one long wet season from November to May and one long dry season from June to October. Annual rainfall varies from 800mm to 1300mm depending largely on elevation. The low rainfall in Rukwa valley may be due to the rain shadow effect of the escarpment. The on-set of the rainy season and the length varies according to topography and according to altitude. The rains in

Mpanda start generally in October/November and end in April/May, while in the drier parts of the Ufipa Plateau the rains start later and end earlier.
In most places rainfall is adequate to support rainfed agriculture. Mean annual temperatures vary considerably from area to area (approximately 20 ° C to 26 ° C) due mainly to elevation differences. Double cropping is feasible in some locations.

### 1.5 Soil

The largest parts of the soils in Rukwa region are typical, leached, tropical ferralitic soils. These soils constitute probably more than 85 percent of all arable soils in the region. The soils are characterized by having a low inherent fertility, being moderately to strongly acidic, having moderate content of available plant nutrients and a fairly low water holding capacity. Careful management of them is necessary and urgently needed in order to retain and improve their long term fertility level and sustains crop production in the long run. Management practices such as fallowing, intercropping with leguminous crop and rotation are recommended agronomic practices. Also agro forestry practices are recommended which may also solve partly the fuel wood problem on the Ufipa plateau.

### 1.6 Topography

Rukwa region lies within the Great Rift (the only physical feature on earth visible from the moon) i.e. the western branch of the East African Rift Valley. The gently undulating Ufipa Plateau is surrounded by two large rift valleys; Lake Tanganyika rift and the Lake Rukwa rift. The former is 1000m deeper but the lake water level of both lakes are more than 1000m below the larger part of the Ufipa Plateau (1700 – 2460 m.a.s.l.). To the north a large, almost flat surface (Inyonga Plain) dominates, while the area from Mpanda towards the north – west to the boundary to Kigoma district is dominated by an undulating plateau at 1100 – 1500 m.a.s.l. with isolated hills and small escarpments.

In the west and southwest the undulating landscape slopes gently to the west before falling sharply off the Lake Tanganyika. The Ufipa Plateau forms the central southern part of the region, while the eastern part is dominated by the Rukwa Valley. Elevations in the region vary from 800 metres at Lake Tanganyika to 2400 metres in the Mbizi Hills.

## 1.7 Vegetation

The vegetation in Rukwa region may roughly be divided between large areas of Miombo woodland covering approximately 60 percent of the region and a variety of other vegetation types such as forest bushland and grassland occupy the rest. The areas of woodland and forests are rapidly diminishing while the bushed grassland areas are increasing. Closed forests are only found in small pockets in the region, like remnants of riverine vegetation along major perennial rivers and the small area of mountain forest in Mbizi near Sumbawanga.

The extensive Miombo woodland covers most of Mpanda district and scattered areas on the Ufipa Plateau. The Lake Rukwa (Lyamba lya mfipa) and Lake Tanganyika escarpment have been deforested causing soil erosion. About five important hardwood species have been identified in the miombo woodlands with **Mninga (*Pterocarpus angolensis* )** dominating. Grasslands occur on floodplains and mbuga (seasonally water logged areas) as in the valleys of Ugalla, Rungwa and Katuma rivers in Mpanda district. They also occur in Rukwa valley in the northern part of Lake Rukwa. A large part of the Ufipa Plateau is dominated by bushed grasslands.

## 1.8 Agro-Economic/Ecologocal Zones

Rukwa region is comprised of five agro-ecological zones classified by BRALUP (1977) based on altitude, climate, vegetation, agricultrural suitability and other activities.

### 1.8.1 Zone I Ufipa Plateau

This is a densely populated area of altitude 500 – 2200 m.a.s.l is an almost deforested plateau with open grassland vegetation. Isolated hills and ranges which protrude on the gently undulating plateau. The soils are predominantly leached, acidic and ferralitic with loamy or sandy top soils becoming more clayey by depth. Soils have low inherent fertility. Cattle keeping are common for cash, meat and for land preparation. It is an important maize producing area along with traditional crops such as finger millet and beans. Fallow in the rotation is widely practiced.

### 1.8.2 Zone II Rukwa Valley

Less densely (medium) populated valley (800 – 1000 m.a.s.l) partly with **Acacia** woodland with areas of grassland vegetation on alluvial plains near rivers and the lake. The soils are alluvial of origin and predominantly sandy with relatively high fertility levels. Areas of poorly drained cracking clays and saline soils also occur. Grazing value is high, giving the basis for a large wildlife population which is also being invaded by an influx of Sukuma cattle. This is also important rice producing area. Agricultural potential for rain fed and irrigated crops are very high but erratic rainfall is a problem. Rainfall ranges from 700 to 1000mm per annum. Main crops are maize and paddy. Economic activities are crop production, cattle keeping and fishing.

### 1.8.3 Zone III Lake Tanganyika shores and escapement zone

This zone also includes the Kalema depression bordering on the Rukwa Valley. Lake shores (700m.a.s.1) are less densely populated. Solis are alluvial, sandy soils are also common. Vegetation is mainly of Miombo woodland. Rainfall ranges from 1000 to 1200mms per annum. Fishing is a very important source of income and food. Main crops grown include cassava, rice, millet and beans. Soil erosion is serious due to deforestation.

### 1.8.4 Zone IV Katumba – Inyonga plain

This zone is a large, almost flat, sparsely populated, tsetse infested Miombo woodland plain (1000 – 1200 m.a.s.1). Soil are sand with very low fertile. Rainfall ranges from 900mms per annum. Important crops include cassava, maize and groundnuts. Beekeeping is another economic activity carried by the inhabitants. Lumbering of hard wood is the other economic occupation.

### 1.8.5 Zone V Mpanda – Mwese Dissected Plateau

This is a largely a spasely populated range of hills and minor plateau area (1200 – 1500 m.a.s.I) covered with Miombo woodland on loamy, ferralitic soils. This zone covers most of Mpanda district. The soils are suitable for cereals (maize and finger millet), beans, cassava, sweet potatoes and rice production. Groundnuts are the major cash crop followed by sunflower and tobacco. Due to tsetse fly infestation livestock is restricted to a few tsetse free

areas. People also practice beekeeping as a major economic activity after crop production. The use of oxen for land preparation is common in the zone.

### 1.9 Socio - Economic Indicators

Agriculture is by and large the mainstay of the Rukwa economy. About 90% of the population in the region earn their living from agriculture. Therefore, the economy development of the region is very much dependent on the agricultural sector. The main crops grown in the region include maize, beans, paddy and finger millet as the main subsistence crops (sizeable proportions of these are marketed). Others are sweet potatoes, cassava, sunflower and groundnuts. Wheat, tobacco and coffee are relatively minor crops. Rukwa region has in recent years turned into one of the major maize producing regions in Tanzania popularly known as the "Big Four" (the other regions are Mbeya, Ruvuma and Iringa). About 31 percent of total land area of Rukwa region is suitable for agriculture (2,357,029 ha) of which only 22.9 percent (percent 539,627 ha) is under cultivation annually.

# 2 INTRODUCTION

This section provides technical and operational description of the National Sample Census of Agriculture (NSCA), carried out in the rural areas of Tanzania Mainland and Zanzibar during the 2007/08 agricultural year. It details the background and the rationale for carrying out the NSCA in 2007/08 agricultural year. It also explains the sampling procedures, designing and implementation of the data processing system.

## 2.1 The Rationale for Conducting the National Sample Census of Agriculture

In 2003, the Government of Tanzania launched the Agricultural Sample Census as an important part of the Poverty Monitoring Master Plan which supports the production of statistics for advocacy of effective public policy, including poverty reduction, access to services, gender, as well as the standard crop production data normally collected in an agriculture census. The census is intended to fill the information gap and support planning and policy formulation by high level decision making bodies. It is also meant to provide critical benchmark data for monitoring Agriculture Sector Development Programme (ASDP) and other agriculture and rural development programs as well as prioritising specific interventions of most agriculture and rural development programs.

Following the decentralisation of the Government's administration and planning functions, there has been a pressing need for agriculture and rural development data disaggregated at regional and district levels. The provision of district level estimates will provide essential baseline information on the state of agriculture and support decision making by the Local Government Authorities in the design of District Agricultural Development and Investment Projects (DADIPS). The increase in investment is an essential element in the national strategy for growth and reduction of poverty.

This report (Volume Vo) is among the 21 regional reports for the mainland. Other Census reports include the Technical Report (Volume I), Crop Sector Report at national level (Volume II), Livestock Report (Volume III), Large Scale Farm report (Volume IV), and a separate report for Zanzibar (Volume VI). Unlike in the 2002/03 Sample Census, the 2007/08 Sample Census report did not have separate report for Smallholder Household Characteristics and Access to Natural Resources Report. Other thematic reports will be produced depending on the demand and availability of funds. The report is divided into five main sections: Background Information,

Introduction, Results, Evaluation and Conclusion and Appendices. The definitions relating to all aspects of this report can be found in the questionnaire (Appendix III).

## 2.2 Census Objectives

The 2007/08 Agriculture Sample Census was designed to meet the data needs of a wide range of users down to district level including policy makers at local, regional and national levels, rural development agencies, funding institutions, researchers, NGOs, farmers organisation, etc. The dataset is both more numerous in its sample and detailed in its scope to meet the user demand.

The census was carried out in order to:

- Identify structural changes if any, in the size of farm household holdings, crop and livestock production, farm input and implement use. It also seeks to determine if there are any improvements in rural infrastructure and the level of agriculture household living conditions;

- Provide benchmark data on productivity, production and agricultural practices in relation to policies and interventions promoted by the Ministry of Agriculture and Food Security and others stakeholders

- Obtain data that will be used to address specific issues such as: food security, rural poverty, gender, agro-processing, marketing, service delivery, etc.

## 2.3 Census Coverage and Scope

The census was conducted for both large and small scale farms. This report covers the technical and operational aspects of the census for both large and small scale farms. The overall sample for small holders in 2007/08 Agriculture Sample Census had a total of 3192 selected villages in Tanzania Mainland and 317 EAs from Zanzibar. The data were collected from a sample of 52,635 rural agriculture households of which 48,880 were from the Mainland and 4,755 were from Zanzibar.

The census covered agriculture in detail as well as many other aspects of rural development and was conducted using three types of questionnaires:

- Small scale farm questionnaire
- Community level questionnaire

- Large scale farm questionnaire

The small scale farm questionnaire was the main census instrument and it includes questions related to crop and livestock production and practices; population demographics; access to services, and resources; as well as issues on poverty. The main sections covered are as follows:

- Identification (i.e. region, district, ward and village)
- Household and holding characteristics
- Household information
- Land ownership/tenure
- Land use
- Access and use of resources
- Crop and vegetable production
- Crop storage and marketing
- On-farm investment
- Access to farm inputs and implements
- Use of credit for agricultural purposes
- Crop extension services
- Livelihood constraints
- Animal contribution to crop production
- Livestock
- Livestock products
- Fish farming
- Bee keeping
- Livestock extension
- Household facilities

The community level questionnaire was designed to collect village level data such as access and use of common resources, community tree plantation and seasonal farm gate prices. The large scale farm questionnaire was administered to large scale farms that were either privately or corporately managed. There is a national report on large scale farming on Tanzania.

## 2.4 Legal Authority of the National Sample Census of Agriculture

The NSCA 2007/08 was conducted under the legal authority of the Act of the Parliament (Act No 1 of 2002) which, among other things, makes data collected from individuals strictly confidential and to be used for statistical purposes only.

## 2.5 Reference Period

Two types of reference periods were used namely the agricultural year and the reference date for livestock enumeration. The agricultural year 2007/08 (that is 1st October 2007 to 30th September 2008) was used for the data items that are related to crop production. The reference date of enumeration for livestock and poultry count was 1st October 2008.

## 2.6 Census Methodology

The main focus at all stages of the census execution was on data quality and this is emphasised in this section. The main activities undertaken include:

- Census organisation
- Tabulation plan preparation

### 2.6.1 Census Organization

The Census was conducted by the National Bureau of Statistics (NBS) in collaboration with the Ministries of Agriculture, Food Security and Cooperatives, Livestock and Fisheries Development; Water; Industry and Trade; and Prime Minister's Office, Regional Administration and Local Government in Tanzania Mainland. And for Zanzibar it was the Office of the Chief Government Statistician, (OCGS), Ministries of Agriculture and Natural Resources; Livestock and Fisheries. At the National level the Census was headed by the Director General of the National Bureau of Statistics in collaboration with the Chief Government Statistician, Zanzibar.

The Planning Group formed by the Director General of NBS and Chief Government Statistician consisted of staff from the Department of Agriculture Statistics of NBS, Department of Economic Statistics of OCGS, Department of Policy and Planning of the Ministry of Agriculture, Food Security and Cooperatives, Department of Policy and Planning of the Ministry of Livestock and Fisheries Development in Tanzania Mainland, the Ministry of Livestock and Fisheries and the

Ministry of Agriculture and Natural Resources in Zanzibar. The Planning Group was responsible for all Census operations.

The implementation of census activities at the regional level was overseen by the Regional Statistical Managers of NBS and the Regional Agriculture Supervisor from Prime Minister's Office, Regional Administration and Local Government. At the District level the Census activities were managed by two Supervisors from the Prime Minister's Office, Regional Administration and Local Government (PMO-RALG). The supervisors managed the enumerators who also came from PMO-RALG. As for Zanzibar, the implementation of the census activities at regional level was overseen by the Regional Statistical Officers and Regional Agriculture Officers. At District level the implementation of the census activities were managed by District Agriculture Development Officers (DADOs). In addition, there was a national mobile team to supervise census operations.
The Census and Surveys Technical Working Group (CSTWG) under MKUKUTA provided support in sourcing financing, approving budget allocations and monitoring the progress of the Census

A Technical Committee for the census was established with members from key stakeholder organisation and its function was to approve the proposed instruments and procedures developed by the Planning Group. It also approved the tabulations and analytical reports prepared from the Census data.

### 2.6.2 Tabulation Plan

The tabulation plan was developed considering the tabulations from previous census and surveys to allow trend analysis and comparisons as well as the needs of end users.

### 2.6.3 Sample Design

The Mainland sample consisted of 3,192 villages. These villages were drawn from the National Master Sample (NMS) developed by the National Bureau of Statistics (NBS) to serve as a national framework for the conduct of household based surveys in the country. The National Master Sample was developed from the 2002 Population and Housing Census. The total Mainland sample was 47,880 agricultural households. In Zanzibar a total of 317 EAs were selected and 4,755 agriculture households were covered. Nationwide, all regions and districts were sampled except four, three

from Mainland and one from Zanzibar. In both Mainland and Zanzibar, a two stage sample was used.

The numbers of villages/Enumeration Areas (EAs) were selected for the first stage with a probability proportional to the number of villages/EAs in each district. In the second stage, 15 households were selected from a list of agriculture households in each Village/EA using systematic random sampling. Table 2.1 gives the sample size of households, villages/EAs and districts for Tanzania Mainland and Zanzibar.

**Table 3.1 Census Sample Size**

| Number | Mainland | Zanzibar | Total |
|---|---|---|---|
| Households | 447,880 | 4,755 | 452,635 |
| Villages/EAs | 3,192 | 317 | 3,509 |
| Districts | 133 | 9 | 142 |
| Regions | 21 | 5 | 26 |

### 2.6.4 Questionnaire Design and Other Census Instruments

The questionnaires were designed following user meetings to ensure that the questions asked were in line with users data needs. Several features were incorporated into the design of the questionnaires to increase the accuracy of the data:

- Where feasible all variables were extensively coded to reduce post enumeration coding error

- The definitions for each section were printed on the opposite page so that the enumerator could easily refer to the instructions whilst interviewing the respondent
- The responses to all questions were placed in boxes printed on the questionnaire, with one box per character.

- This feature made it possible to use scanning and Intelligent Character Recognition (ICR) technologies for data capture.

- Skip patterns were used to reduce unnecessary and incorrect coding of sections which do not apply to the respondent

  Each section was clearly numbered, which facilitated the use of skip patterns and provided a reference for data type coding for the programming of CSpro and SPSS. Three other instruments were used:

- Village Listing Forms were used for listing households in the village/EA and from this list a systematic sample of 15 agricultural households were selected.

- A Training Manual which was used by the trainers for the cascade/pyramid training of supervisors and enumerators

- Enumerator Instruction Manual which was used as reference material.

### 2.6.5 Field Pre-Testing of the Census Instruments

The Questionnaire was pilot-tested in four locations (Arusha, Dodoma, Unguja and Pemba). This was done to test the wording, flow and relevance of the questions and to finalise crop lists, questionnaire coding and manuals. In addition, several data collection methodologies had to be finalized, namely, livestock numbers in pastoralist communities, mixed cropping, use of percentages in the questionnaire and finalizing skip patterns and documenting consistency checks.

### 2.6.6 Training of Trainers, Supervisors and Enumerators

During training, cascade/pyramid training techniques were employed to maintain statistical standards. The top level of training was provided to 78 national and regional supervisors (65 from Mainland and 13 from Zanzibar). The trainers were members of the Planning Group from the National Bureau of Statistics, the sector Ministries of Agriculture and the Office of the Chief Government Statistician, Zanzibar. In each region, three training sessions were conducted for the district supervisors and enumerators. The training concentrated on questionnaires, listing forms, field level Census methodology, and definitions. Emphasis was placed on consistency checking in the field. Tests were given to the supervisors and enumerators and the best 50 percent of the trainees were selected for the enumeration of the smallholder questionnaire and the community level questionnaire.

### 2.6.7 Information, Education and Communication (IEC) Campaign

Information, Education and Communication (IEC) is an important aspect of any census/survey undertaking. This is due to the fact that inadequately informed and hence uncooperative citizens may jeopardize the entire census/survey. As far as the 2007/08 Agricultural Sample Census was

concerned, Radios, televisions, newspapers, leaflets, t-shirts and caps were used to create awareness among the public on the Agriculture Sample Census. This helped in sensitizing the public on field level activities in order to increase the response rate. The t-shirts and caps were given to the field staff and village chairpersons. The village chairpersons assisted in locating the selected households

.

### 2.6.8 Household Listing

The household listing exercise was done in seven days. During the listing exercise, forms ACLF1 and ACLF2 were administered. The information collected included the number of fields operated by the household, the number of different types of livestock and poultry. This information was used to determine the agricultural households. From the list of agricultural households, 15 households were selected for the interview. The selection was done using the Random Number Table.

### 2.6.9 Data Collection

Data collection activities for the 2007/08 Agriculture Sample Census lasted for three months from June to August 2009. The interview method was used to collect data during the census. Data collection was monitored by a hierarchical system of supervisors which included the Mobile Response Team, Regional and District Supervisors. The Mobile Response Team, which was headed by the Manager of Agriculture Statistics Department, provided overall direction to the field operations and responded to queries arising outside the scope of the training exercise. Decisions made on definitions and procedures were then communicated back to all enumerators via the Regional and District Supervisors. On the mainland, each region had 2 Regional Supervisors (total of 42) and 2 district supervisors per district (total 266).

District supervision and enumeration were performed by staff from the Prime Minister's Office, Regional Administration and Local Government (PMO-RALG). Regional and national supervision was provided by senior staff from the National Bureau of Statistics and the sector Ministries of Agriculture. In Zanzibar, the enumeration was conducted by staff from the Ministry of Agriculture and Natural Resources and Ministry of Livestock and Fisheries. Supervision was provided by senior officers of the same Ministries and the Office of the Chief Government Statistician.

During the household listing exercise, 3,192 extension staff participated on the Mainland. A total of 177 enumerators participated during the listing exercise and enumeration of small holder questionnaire in Zanzibar. A total of 1,596 enumerators were involved in data collection of small holder questionnaire on the Mainland. Additional five percent of enumerators were kept as reserve in case of drop outs during the enumeration exercise. The enumerators were supervised by District Supervisors.

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### 2.6.10 Field Supervision and Consistency Checks

Enumerators were trained to probe the respondents until they were satisfied with the response given before they recorded them in the questionnaire. The first check of the questionnaire was carried out by enumerators in the field during enumeration, followed by district, Regional and National Supervisors. Supervisory visits at all levels of supervision focused on checking on the completeness of the questionnaires and consistency. Inconsistencies encountered were corrected, and where necessary a call back to the respondent was made by the enumerator to obtain the correct information. Further quality control checks were made by supervisors in the district.

### 2.6.11 Data Processing

Data processing involved the following processes:

Mannual editing

Data entry

Data structure formatting

Batch validation

Tabulation

***Manual Editing***

Prior to scanning, all questionnaires underwent a manual cleaning exercise. This involved checking that the questionnaire had a full set of pages, correct identification and good handwriting. A score was given to each questionnaire based on the legibility and the completeness of enumeration. This score will be used to assess the quality of enumeration and supervision in order to select the best field staff for future censuses/surveys.

***Data entry/Scanning and ICR Extraction Technologies***

Scanning and ICR data capture technology for the smallholder questionnaire was used on the Mainland. This did not only increase the speed of data entry, it also increased the accuracy due to

the reduction of keystroke errors. Interactive validation routines were incorporated into the ICR software to trap errors during the verification process. The scanning operation was so successful that it is highly recommended that the technology be adopted for future censuses/surveys.

Prior to scanning, all questionnaires underwent a manual cleaning exercise. This involved checking that the questionnaire had a full set of pages, correct identification, clean and good handwriting. Questionnaires found dirty or damaged and generally unsuitable for scanning were put aside for manual data entry.

CSPro was used for data entry of all Large Scale Farm and community based questionnaires due to the relatively small number of questionnaires. It was also used to enter smallholder questionnaires that were rejected by the ICR extraction application as well as those found unsuitable for scanning during the manual editing exercise

***Data Structure Formatting***

A program was developed in visual basic to automatically alter the structure of the output from the scanning/extraction process in order to harmonise it with the manually entered data. The program automatically checked and changed the number of digits for each variable, the record type code, the number of questionnaires in the village, the consistency of the Village Identification (ID) code and saved the data of one village in a file named after the village code.

***Batch Validation***

A batch validation program was developed in CSPro in order to identify inconsistencies within a questionnaire. This is in addition to the interactive validation during the ICR extraction process. The procedures varied from simple range checking within each variable to more complexes checking between variables. It took 6 months to screen, edit and validate the data from the smallholder questionnaire. After the long process of data cleaning, the tabulations were prepared based on a pre-designed tabulation plan.

***Tabulations***

Statistical Package for Social Sciences (SPSS) was used to produce the Census tabulations and Microsoft Excel was used to organize the tables and compute additional indicators. Excel was also used to produce charts while Arc GIS was used for the maps.

***Analysis and Report Preparation***

The report writing focused on regional comparisons, time series and national production estimates. Microsoft Excel was used to produce charts; Arc GIS was used to generate maps, whereas Microsoft Word was used to compile and write the report.

### 2.6.12 Data Quality

A great deal of emphasis was placed on data quality throughout the whole exercise from planning, questionnaire design, training, supervision, data entry, validation and cleaning/editing. As a result of this it is believed that the census is highly accurate and representative of what was experienced at field level during the Census year. With very few exceptions, the variables in the questionnaire are within the norms for Tanzania and they follow expected time series trends when compared to historical data.

## 2.7 Funding Arrangements

The Agricultural Sample Census was supported mainly by the Department for International Development (DFID) and Japan International Cooperation Agency (JICA) who financed most of the operational activities. Other funds for operational activities came from the Government of Tanzania. In addition, technical assistance was provided by the Food and Agriculture Organisation (FAO).

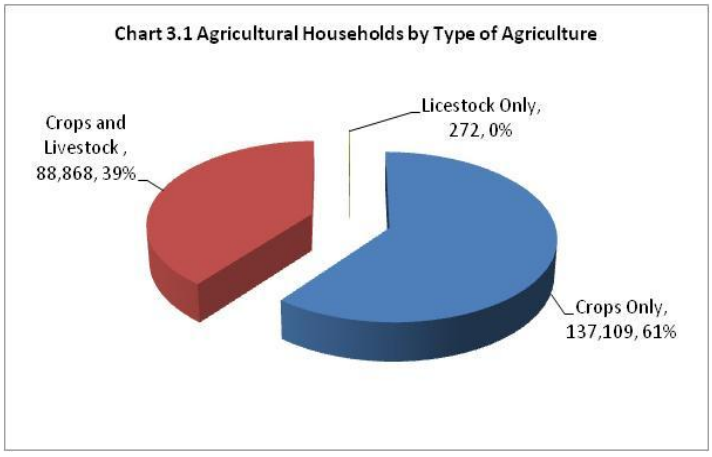
# 3 CENSUS RESULTS

This part of the report presents the census results for Rukwa region based on the data tables in Appendix A2. The results are presented in different forms including brief summaries, charts, condensed tables, graphs and maps in order to make it easier for the users to understand. Comparisons are made between related variables and between districts. Comparisons are also made with past censuses/surveys results such as the 1994/95 National Sample Census of Agriculture (NSCA), the 1995/96 and the 1996/97 Expanded Agricultural Survey, the 1997/98 Integrated Agricultural Surveys, the 1998/99 District Integrated Agricultural Survey and the 1999/00 Rapid Agricultural Appraisal Survey. The presentation of results is divided into four main sections which are household characteristics, crop results, livestock results and poverty indicators compared to previous censuses and surveys, more effort has been made in analyzing the results in order to formulate solid conclusions.

## 3.1 Household Characteristics

### 3.1.1 Type of Household

The number of agricultural households in Rukwa region was 226,249. The largest number of agriculture households was in Sumbawanga Rural (91,170) followed by Mpanda (71,443), Nkasi (45,251) and Sumbawanga Urban (18,385) The highest density of households was found in Sumbawanga Urban (22 households/km$^2$) and Sumbawanga Rural (13 households/km$^2$)



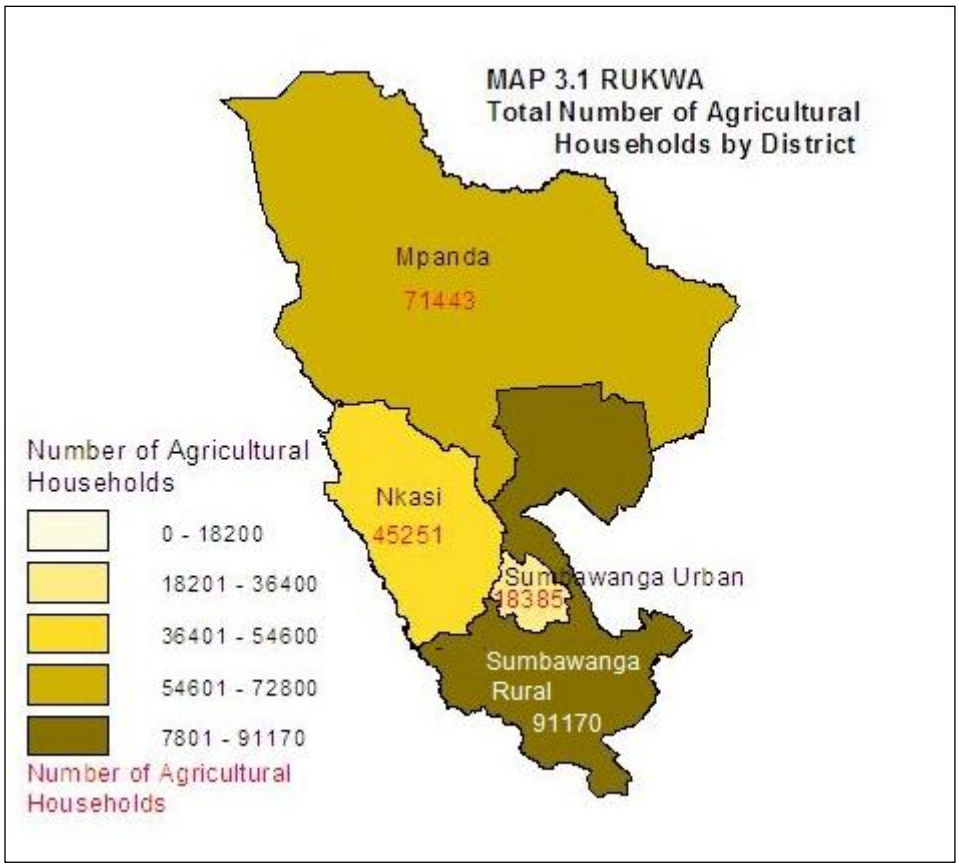

Most households 137,109, (60.6%) were involved in growing crops only, 272 households (0.1%) rearing livestock only and 88,868 (39.3%) were involved in crop production as well as livestock keeping, (Chart 3.1)

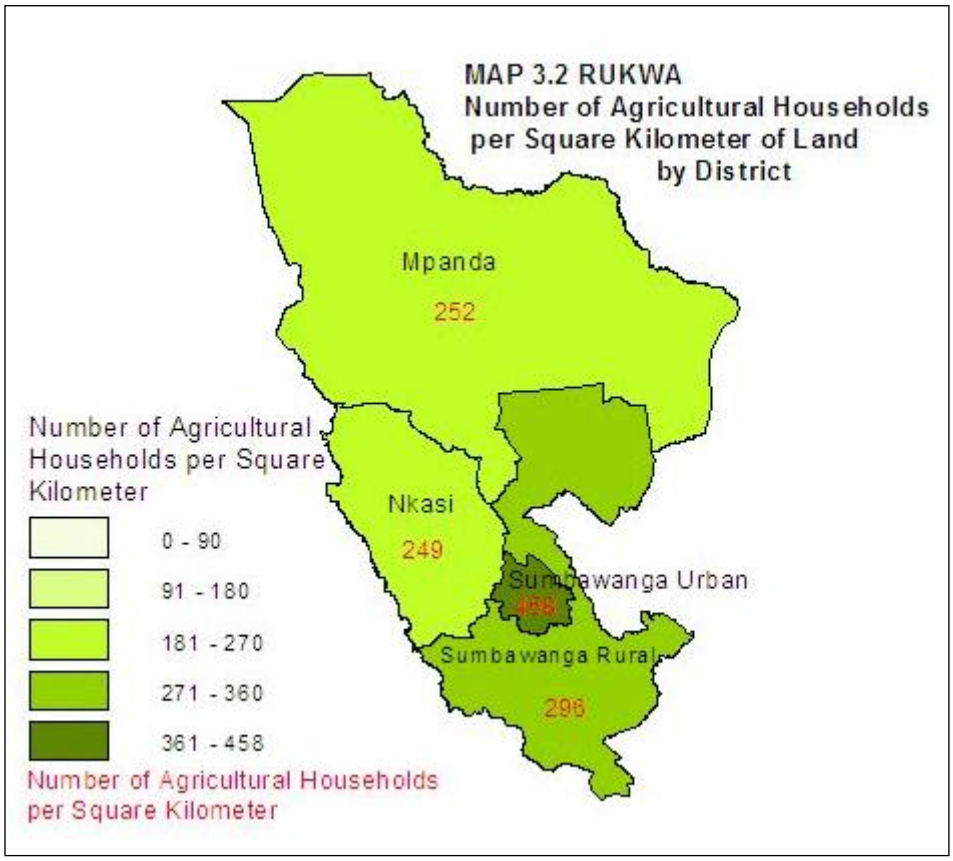
### 3.1.2 Livelihood Activities/Source of Income

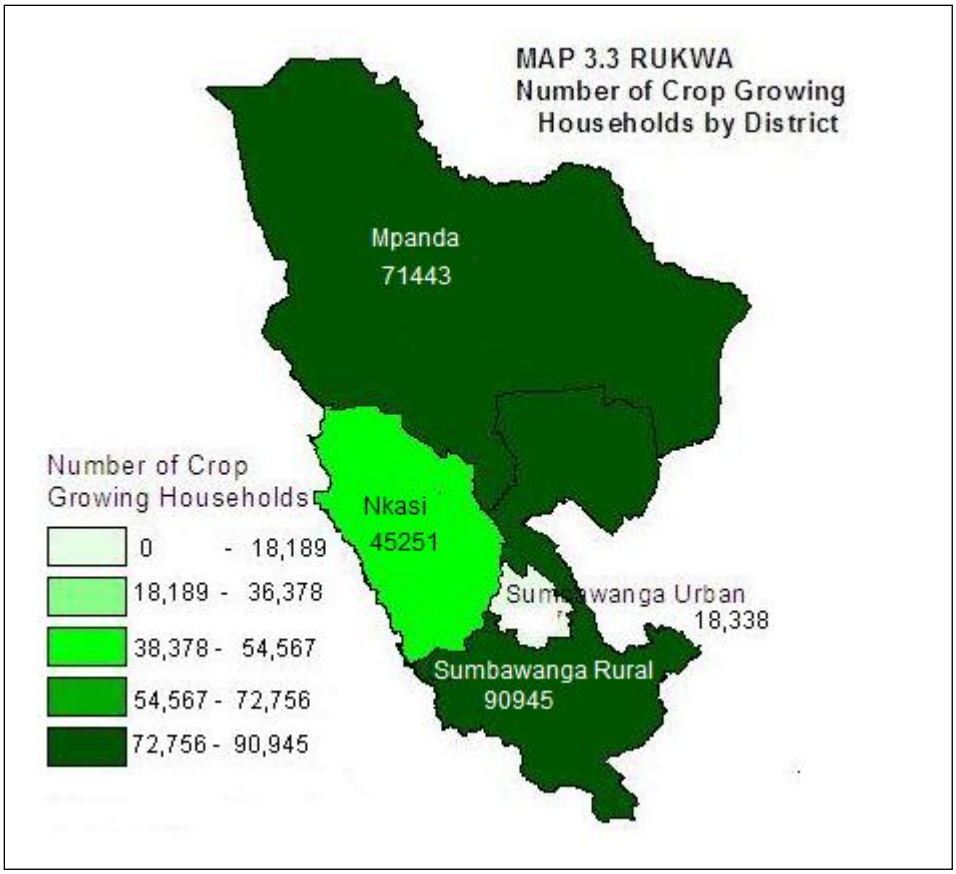
The census results for Rukwa region indicates that most of the agricultural households reported annual crop/seaweed farming (94%) as their main activity. The remained percent was for employment as main activity (3.1%), followed by fishing (1.6%) and livestock keeping/herding (0.5%), (Table 3.2).

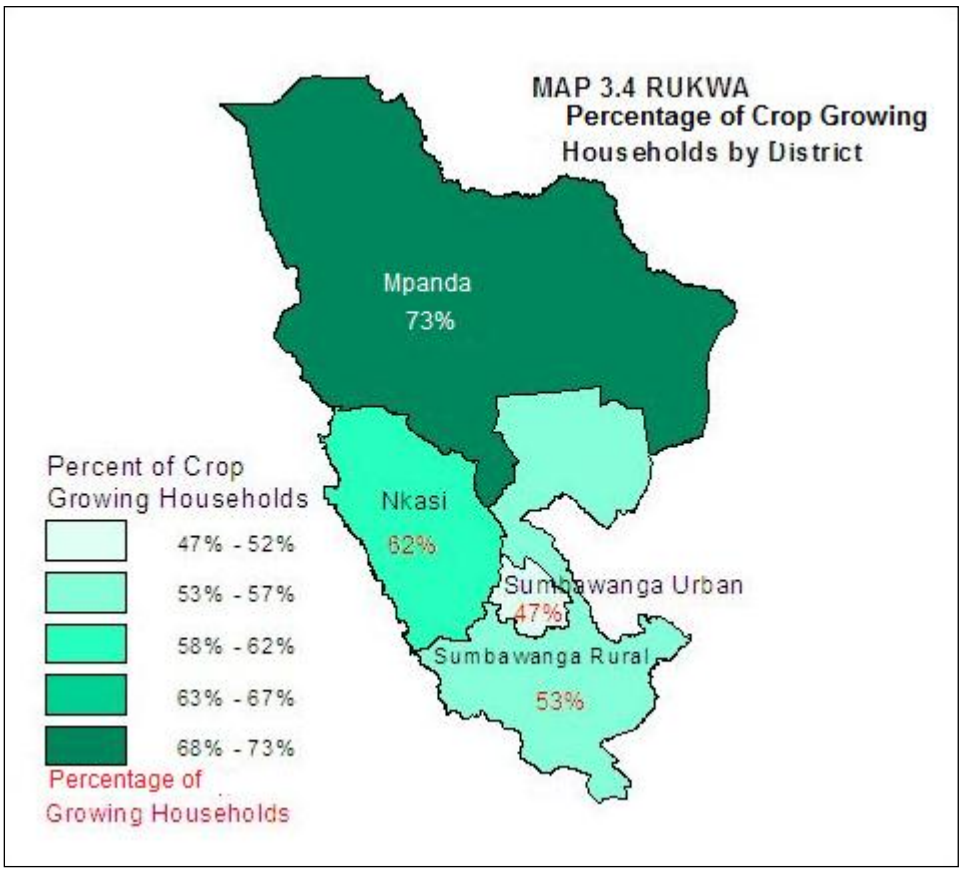
**Table 3.2: Number of Heads of Agricultural Households by Main Activity and District , 2007/08 Agricultural Year**

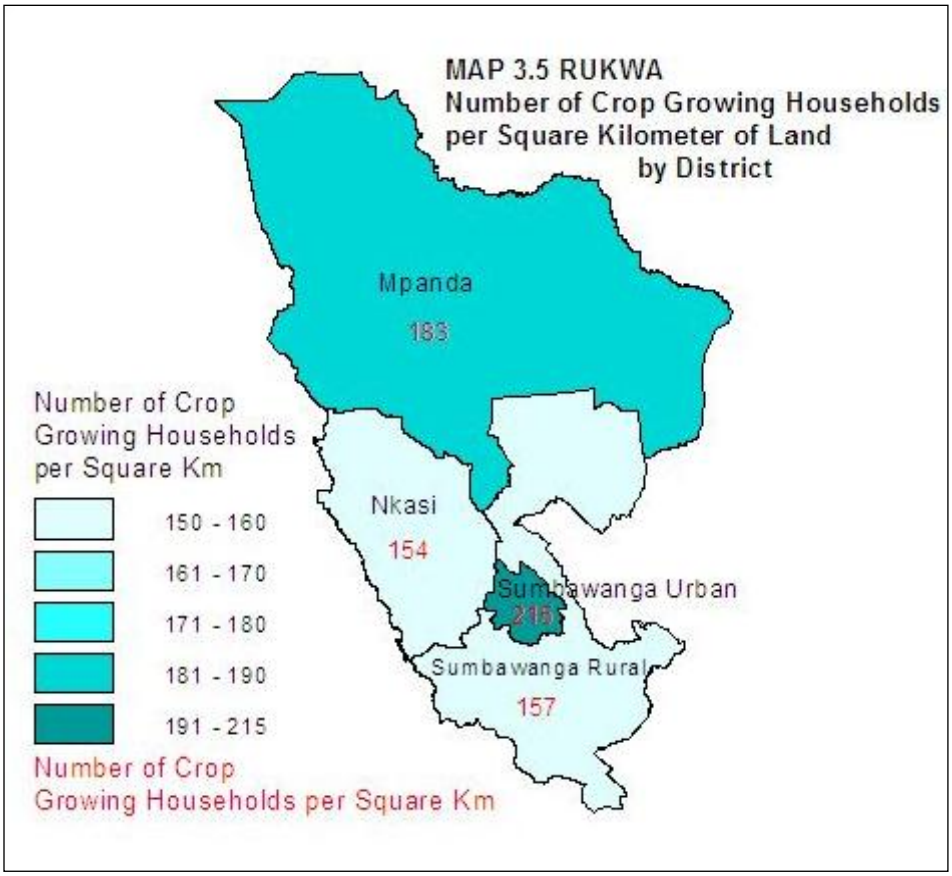
| | Crop/Seaweed Farming | | Livestock Keeping / Herding | | Fishing | | Employment | | Other | | Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| District | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 68,797 | 96.3 | 529 | 0.7 | 353 | 0.5 | 1,235 | 1.7 | 529 | 0.7 | 71,443 | 100 |
| Sumbawanga Rural | 87,568 | 96.0 | 450 | 0.5 | 450 | 0.5 | 2,026 | 2.2 | 675 | 0.7 | 91,170 | 100 |
| Nkasi | 39,553 | 87.4 | 112 | 0.2 | 2,793 | 6.2 | 2,458 | 5.4 | 335 | 0.7 | 45,251 | 100 |
| Sumbawanga Urban | 16,735 | 91.0 | 0 | 0.0 | 0 | 0.0 | 1,367 | 7.4 | 283 | 1.5 | 18,385 | 100 |
| Total | 212,654 | 94.0 | 1,091 | 0.5 | 3,596 | 1.6 | 7,086 | 3.1 | 1,823 | 0.8 | 226,250 | 100 |

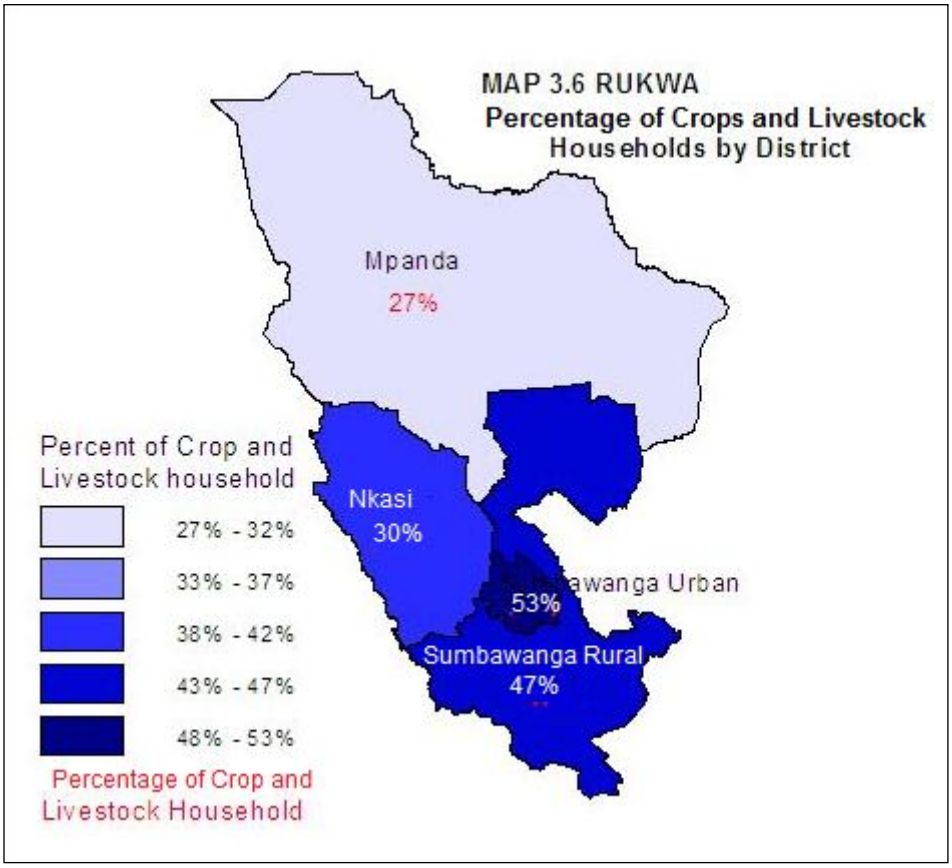

MAP 3.1 RUKWA
Total Number of Agricultural Households by District
Mpanda
71443
Nkasi
45251
Sumbawanga Urban
Sumbawanga Rural
91170
Number of Agricultural Households
0 - 18200
18201 - 36400
36401 - 54600
54601 - 72800
7801 - 91170
Number of Agricultural Households


MAP 3.2 RUKWA
Number of Agricultural Households per Square Kilometer of Land by District
Mpanda
252
Nkasi
249
Sumbawanga Urban
Sumbawanga Rural
296
Number of Agricultural Households per Square Kilometer
0 - 90
91 - 180
181 - 270
271 - 360
361 - 458
Number of Agricultural Households per Square Kilometer


MAP 3.3 RUKWA
Number of Crop Growing Households by District
Mpanda
71443
Nkasi
45251
Sumbawanga Urban
18,338
Sumbawanga Rural
90945
Number of Crop Growing Households
0 - 18,189
18,189 - 36,378
38,378 - 54,567
54,567 - 72,756
72,756 - 90,945

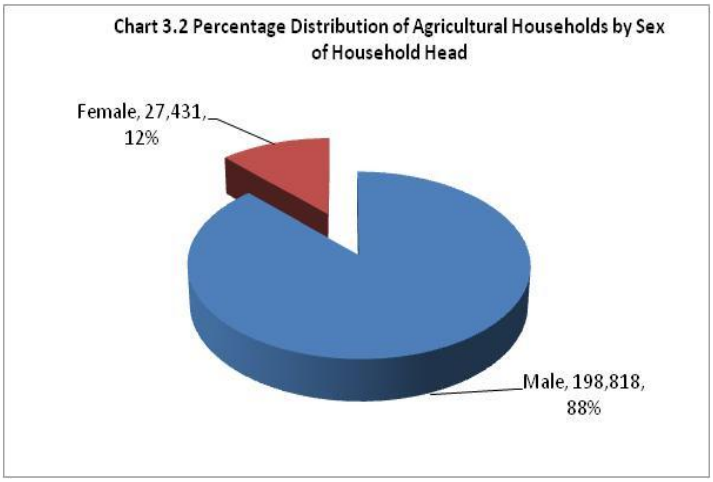

MAP 3.4 RUKWA
Percentage of Crop Growing Households by District
Mpanda
73%
Nkasi
62%
Sumbawanga Urban
47%
Sumbawanga Rural
53%
Percent of Crop Growing Households
47% - 52%
53% - 57%
58% - 62%
63% - 67%
68% - 73%
Percentage of Growing Households


MAP 3.5 RUKWA
Number of Crop Growing Households per Square Kilometer of Land by District
Mpanda
188
Nkasi
154
Sumbawanga Urban
215
Sumbawanga Rural
157
Number of Crop Growing Households per Square Km
150 - 160
161 - 170
171 - 180
181 - 190
191 - 215
Number of Crop Growing Households per Square Km


MAP 3.6 RUKWA
Percentage of Crops and Livestock Households by District
Mpanda
27%
Nkasi
30%
53%
Sumbawanga Rural
47%
Percent of Crop and Livestock household
27% - 32%
33% - 37%
38% - 42%
43% - 47%
48% - 53%
Percentage of Crop and Livestock Household

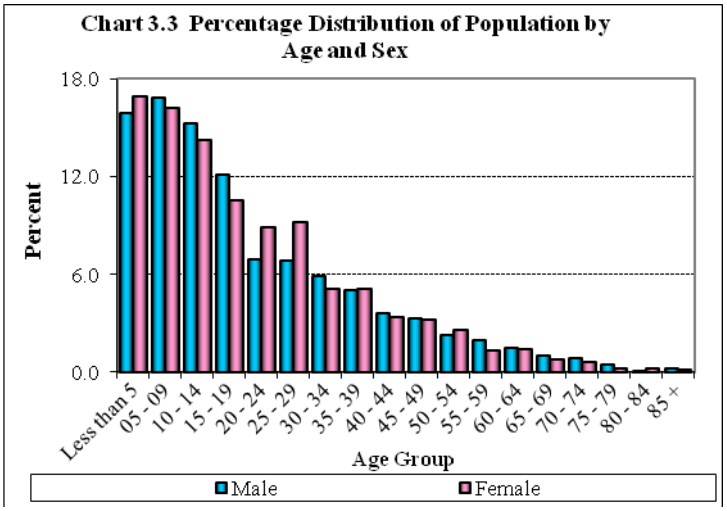
### 3.1.3 Sex and Age of Head of Household

The number of male-headed agricultural households in Rukwa region was 198,818 (88% of the total regional agricultural households) whilst the female-headed households were 27,431 (12% of the total regional agricultural households). The mean age of household heads was 41 years (40 years for male heads and 46 years for female heads) The percentage trend for six censuses/surveys years shows that there has not been any significant change in the distribution of agricultural households between male and female headed households.




### 3.1.4 Number and Age of Household Members

Rukwa region had a total rural agricultural population of 1,246,711 of which 637,303 (51%) were males and 609,408 (49%) were females. Whereas age group 0-14 constituted 47.69 percent of the total rural agricultural population, age group 15–64 (active population) was only 50.04 percent. Rukwa region had an average household size of 5.5 with Sumbawanga Rural district having the lowest household size of 5, (Chart 3.3).




### 3.1.5 Level of Education

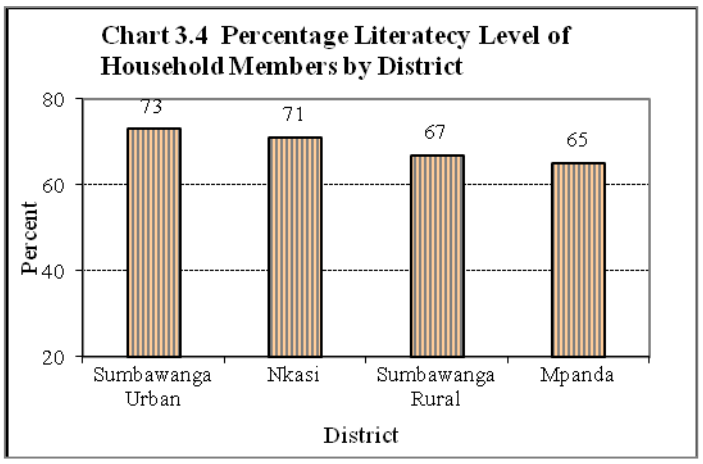
In order to obtain information on the level of education, data was gathered from all persons aged five years and above in all selected households.

***Literacy***

The information on literacy level for family members aged five years and above was obtained by asking individual private households if their respective family members could read and write in Kiswahili only, English only, both English and Swahili or in any other language. Literacy is based on the ability to read and write Swahili, English or both.

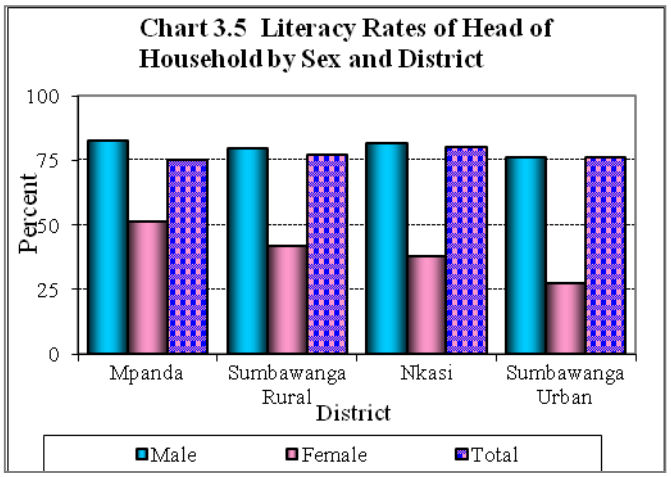
**Literacy Level for Household Members**

Rukwa region had a total literacy rate of 57.8 percent. The highest literacy rate was found in Sumbawanga Urban (73%) followed by Nkasi district (71%) and Sumbawanga Rural district (67%). Mpanda district had the lowest literacy rates of (65%), (Chart 3.4). The trend shows that the total literacy rate in the region has increased from 61% in 2002/03 to 68% in 2007/08



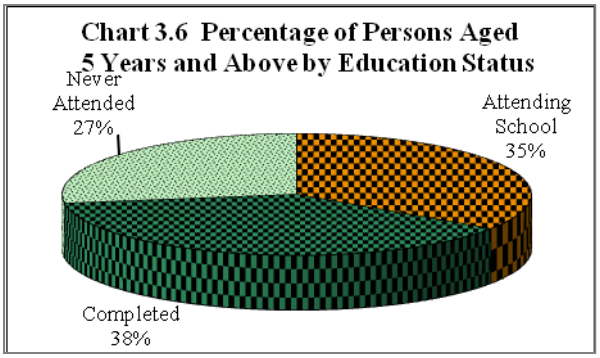

**Literacy Rates for Heads of Households**

The literacy rate for the heads of households in the region was 77 percent. The literacy rates among the male and female heads of households were 81 and 50 percent respectively. The literacy rate for male headed of households was higher than that of females in all districts. However, Nkasi districts had the highest literacy rate of heads of households (80%) followed by Sumbawanga rural (77%), Sumbawanga urban (76%) and Mpanda (75%), (Chart 3.5).

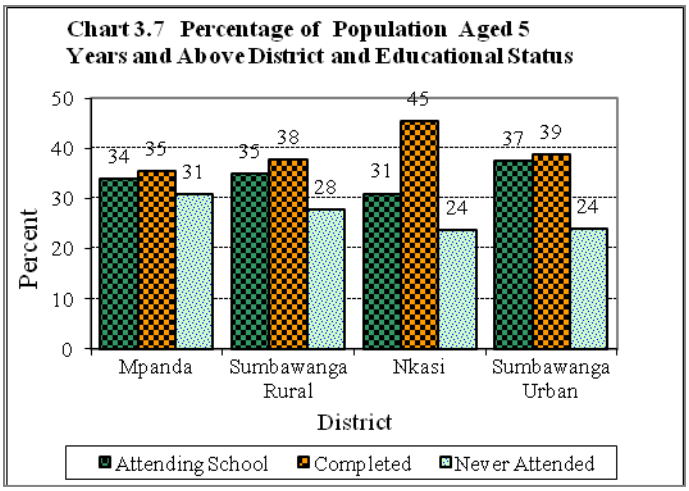


***Educational Status***

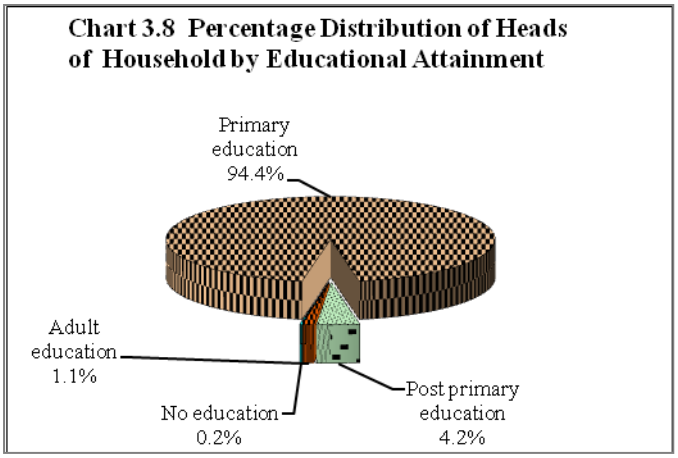
Information on educational status was collected from individual agricultural households. The results show that 38 percent of the population aged 5 years and above in agricultural households in the region had completed different levels of education and 35 percent was still attending school. Those who have never attended school were 27 percent (Chart 3.6).The result shows that a large number of households in Rukwa region had completed different levels of education.




Agricultural households in Nkasi district had the highest percentage (45%) of population aged 5 years and above who had completed different levels of education. This was followed by Sumbawanga urban district with (39%), Sumbawanga rural (38%), and Mpanda had the lowest percentages of (35%),(Chart 3.7).




The number of heads of agricultural households with primary education in Rukwa region was 377,791 (94.4%) and those with post primary education were 16,993 (4.2%), adult education, 4359 (1.1%) and those without education who were 913 (0.2%), (Chart 3.8).



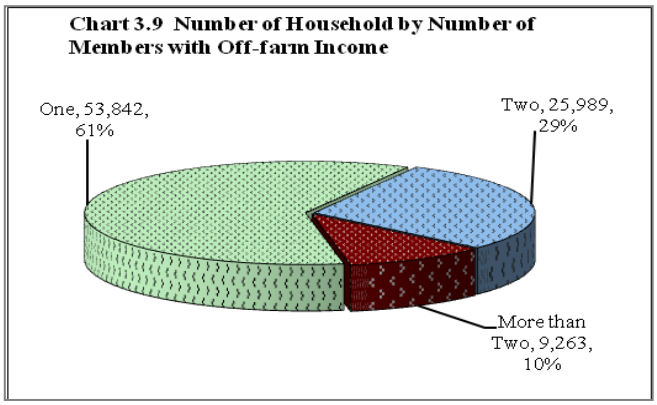

With regard to the heads of agricultural households with primary or secondary education in Rukwa region, Sumbawanga For primary school, Sumbawanga rural had the highest percentages (95.4%) This was followed by Nkasi (95.1%), Mpanda (93.0%) and Sumbawanga urban (91.0%). For secondary school, Mpanda had the highest percentages of

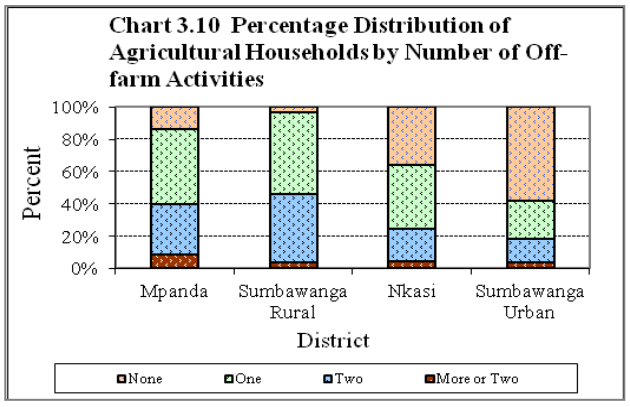
5.2; this was followed by Sumbawanga urban (4.7%), Nkasi (2.9%) and Sumbawanga rural (2.6%).

### 3.1.6 Off-farm Income

Off-farm income refers to cash generated from non-agricultural activities. This can be either from permanent employment (i.e., government, private sector or other), temporary employment or laborers. It also includes cash generated from working on farms belonging to other farmers. Off-farm income is important amongst agriculture households in Rukwa with 60 percent of households having at least one member with off-farm income. In Rukwa region there were 53,842 households (60.4%) with only one member aged 5 and above involved in only one off-farm income generating activity, 25,989 households (29.2%) had two members involved in off-farm income generating activities and 9,263 households (10.4 %) had more than two members involved in off-farm income generating activities.

Sumbawanga rural district had the highest percentage of agriculture households with off-farm income (37.1% of total agriculture households in the district). Other districts with higher percent of agriculture households with off-farm income were Mpanda (35.6%) and Nkasi (18.4%) while Sumbwanga urban district had the lowest percent of agriculture households with off-farm income (8.7%), (Chart 3.9 &Chart 3.10).




## 3.2 Land Use

Land area and planted area are two different types of area measurements. *Land area* refers to the physical area of land and is the same regardless of the number of crops planted on the

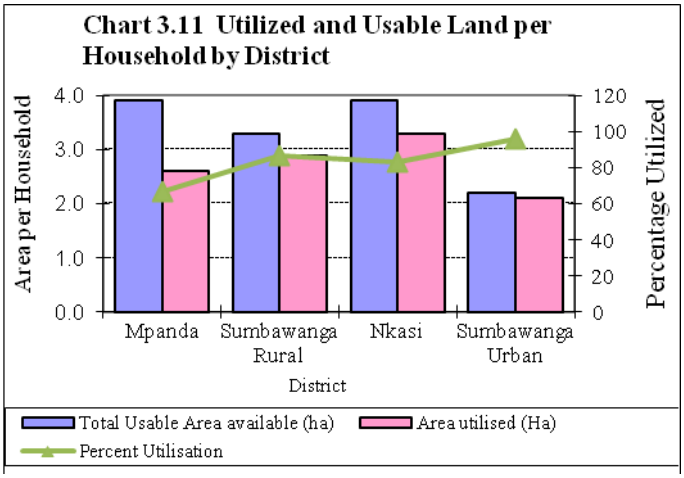
land in one year. *Planted area* is the total area of crops planted in a year and the area is summed if there were more than one crop on the same land per year. A number of terms are used in this section which requires defining for clarification as follows:

*Land available* refers to the area of land that has been allocated to smallholders through customary law, official title or other forms of ownership. Land available does NOT mean the total area of land that is designated as agriculture land in the country; however it is the land that is available to smallholders given the location of villages and lack of access to more remote parcels of unused agriculture designated land.

*Usable land* refers to the available land minus the land that cannot be used e.g. bare rock, shallow soils, steep slopes, swamp areas etc. It does however include un-cleared bush. *Utilized land* refers to the land that was used during the year.

### 3.2.1 Area of Land Utilized

The total area of land available to smallholders was 639,069 ha. The regional average land area utilised for agriculture per household was only 2.4 ha. This figure is slightly above the national average which is estimated at 2.0 hectares. Seventy nine percent of the total land available to smallholders was utilised. Only 21 percent of usable land available to smallholders was not used (Chart 3.11).

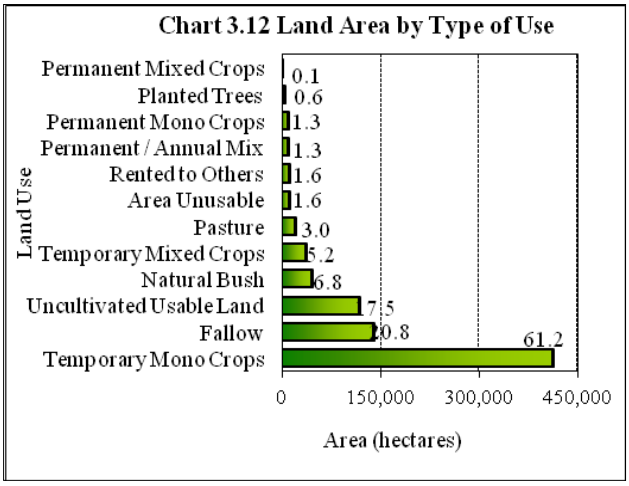



Big differences in land area utilised per household exist between districts between 3.3 and 2.1 with Nkasi utilizing 3.3 ha per household followed by Sumbawanga rural district which was (2.9 ha) of land utilized per household, Mpanda (2.6 ha) and the smallest land area utilised per household was found in Sumbawanga Urban with (2.1 ha).

The percentage utilized of the usable land per household was highest in Sumbawanga Urban (96%) by Sumbawanga rural (87%), Nkasi (83%) and lowest in Mpanda (67%)

### 3.2.2 Types of Land Use

The area of land under temporary mono-crop was 411,078 hectares (50.5% of the total land available to smallholders in Rukwa), followed by under fallow (139,616 ha, 17.2%), uncultivated usable land (117,620 ha, 14.5%), natural bush (45,692 ha, 5.6%) temporary mixed crops (35,291 ha, 4.3%),pasture(20,162, ha 2.5%),unusable area (11,006 ha, 1.4%), area rented to others (10,945 ha, 1.3%), area under permanent annual mix (8,943ha, 1.1%), area under permanent mono crops (8,502 ha, 1.0%), area under planted trees (3,898 ha, 0.5) and area under permanent mixed crops (634 ha, 0.1%).

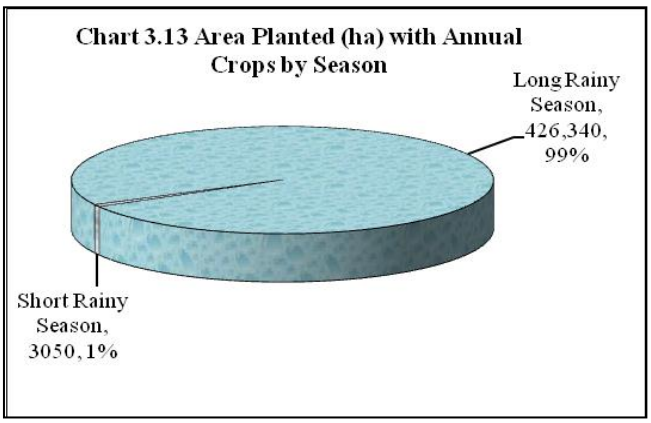



## 3.3 Annual Crop and Vegetable Production

Rukwa region has one rainy seasons, namely the wet season or the long rainy season (October to March). The quantity of crops produced in the wet season will be used as a base for comparison with the past surveys and censuses.

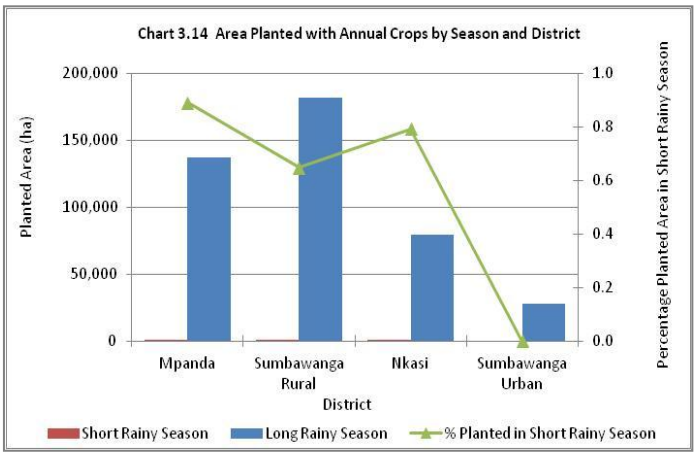
### 3.3.1 Area Planted

The area planted with annual crops and vegetables was 429,390 hectares out of which 3,050 hectares (1%) were planted during dry season and 426,340 hectares (99%) during wet season. The average areas planted per household during the dry and wet rainy seasons was (1.2ha) and (1.9 ha) respectively, (Chart 3.13).



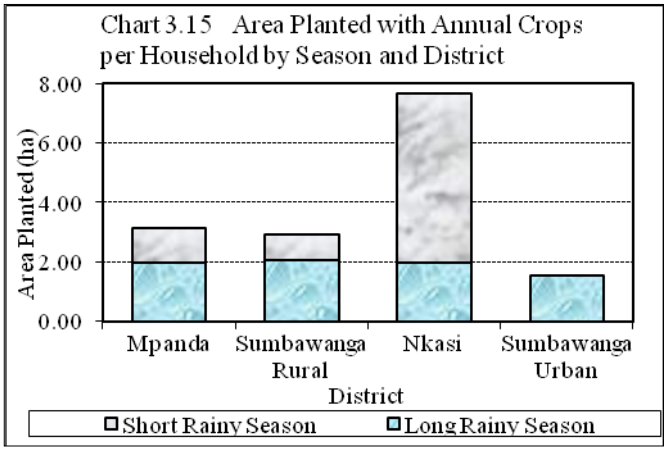
The districts with dry season cultivation were Nkasi with the average planted area of 5.65 ha per planting household followed by Mpanda (1.16 ha) and Sumbawanga rural (0.877 ha). The district with the largest area planted per household in wet season was Sumbawanga Rural (2.044 ha) followed by Mpanda (1.986ha), Nkasi (1.983ha) and Sumbawanga Urban (1.540 ha).

The district with the smallest average area planted per household in both dry and wet rainy seasons was Sumbawanga Urban with (1.540 ha). Therefore, it can be concluded that Rukwa Region had mono-agricultural season which is wet season, (Chart 3.14).




The planted area occupied by cereals during the wet season was 18,637 ha (65.98% of the total area planted with annuals). This was followed by pulses (4,217 hectares, 14.92%), Oil seeds & Oil nuts (3,988 hectares 14.12%), fruits & Vegetables (798 hectares, 2.82 %), and Roots & Tubers (607 hectares (2.14%).

The average area planted per household during the wet season in Rukwa was 1.9 ha, Sumbawanga rural had the largest planted area per household 2.0 ha, followed by Nkasi and Mpanda both had 1.9 ha and Sumbawanga urban 1.5 ha. (Chart 3.15)

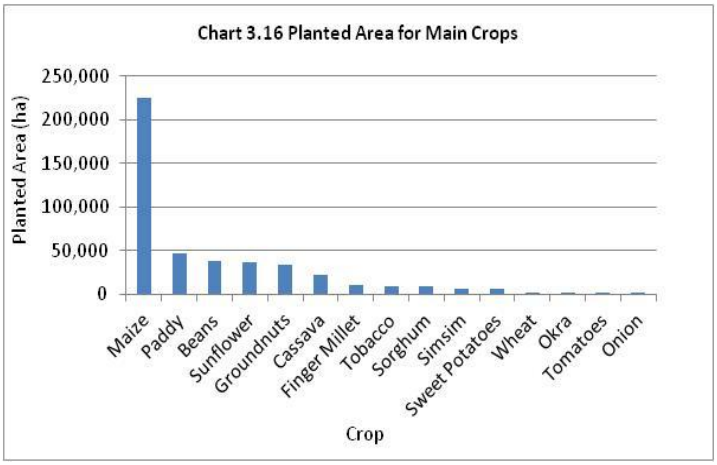


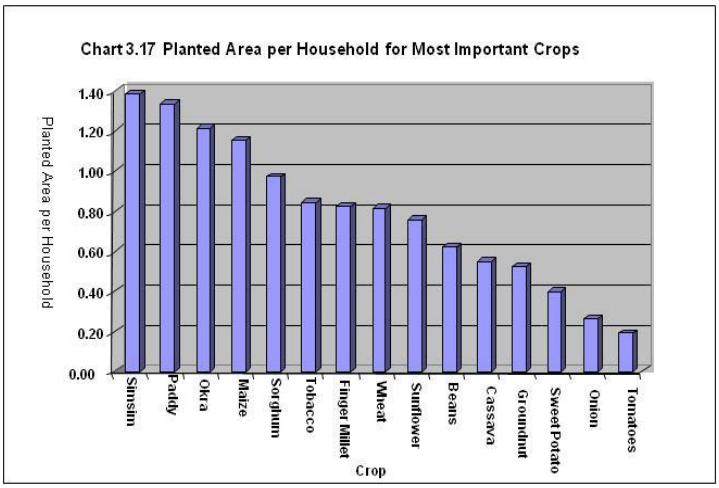

**Analysis of the Most Important Crops**

Results on crop production are presented in two different sections. The first section compares the importance of each crop regardless of whether they are annual or permanent. The second section contains a more detailed analysis on production based on crop types.

### 3.3.2 Crop Importance

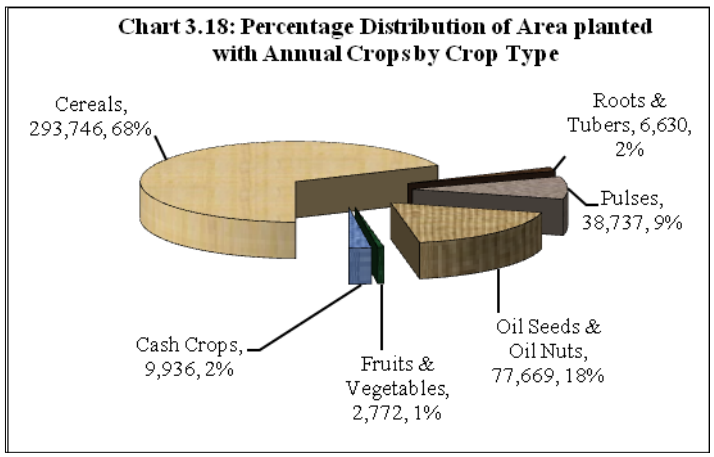
Maize is the dominant annual crop grown in Rukwa region and it had a planted area 4.9 times greater than paddy which had the second largest planted area. The area planted with maize constitutes 50.0 percent of the total area planted with annual crops in the region. Other crops in order of their importance (based on area planted) are paddy, beans, sunflower, groundnuts, finger millet, tobacco, sorghum, simsim, sweet potatoes, okra, tomatoes, cassava and onions, (Chart 3.16). Households that grow simsim, paddy, okra, maize, and sorghum, tobacco had larger planted areas per household than those growing other crops (Chart 3.17).




### 3.3.3 Crop Types

Cereals are the main crops grown in Rukwa region. The area planted with cereals during the wet season was 291,640 hectares (68.01% of the total planted area excluding area planted with cassava) followed by oil seeds with (77,525 ha, 18.00%), pulses (38,188 ha, 8.91%), cash crops (10,521 ha, 2.45 %), root & tubers (5,987 ha, 1.40%) fruits and vegetables, 2,538 ha, (0.59%).

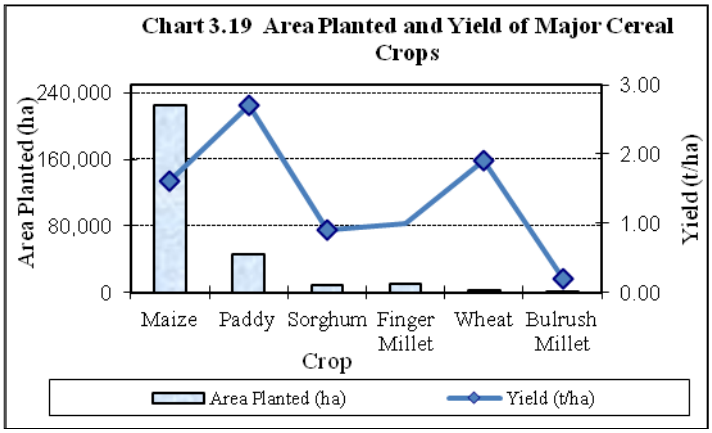


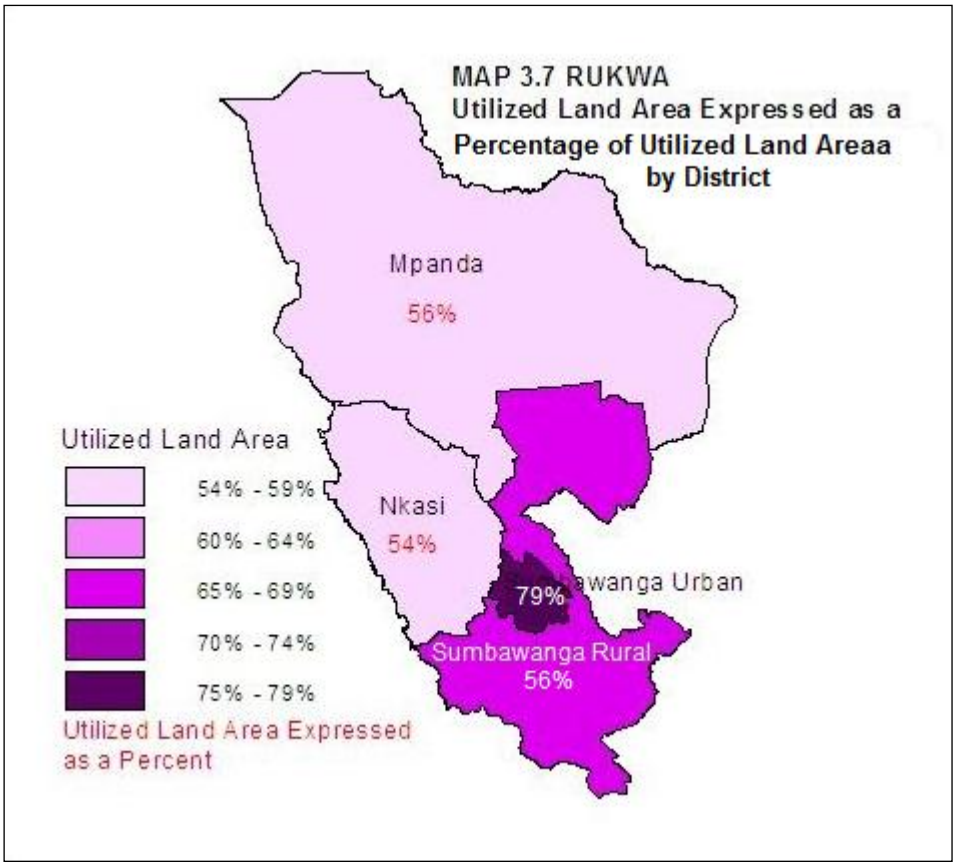
Cereals, oil seeds and oil nuts and pulses are the dominant crops in both seasons and other crop types are of minor importance in comparison. There is little difference in the proportions of the different crop types grown between seasons and because dry season production was very small compared to wet season it is inappropriate to make detailed comparisons between the two seasons, (Chart 3.18).

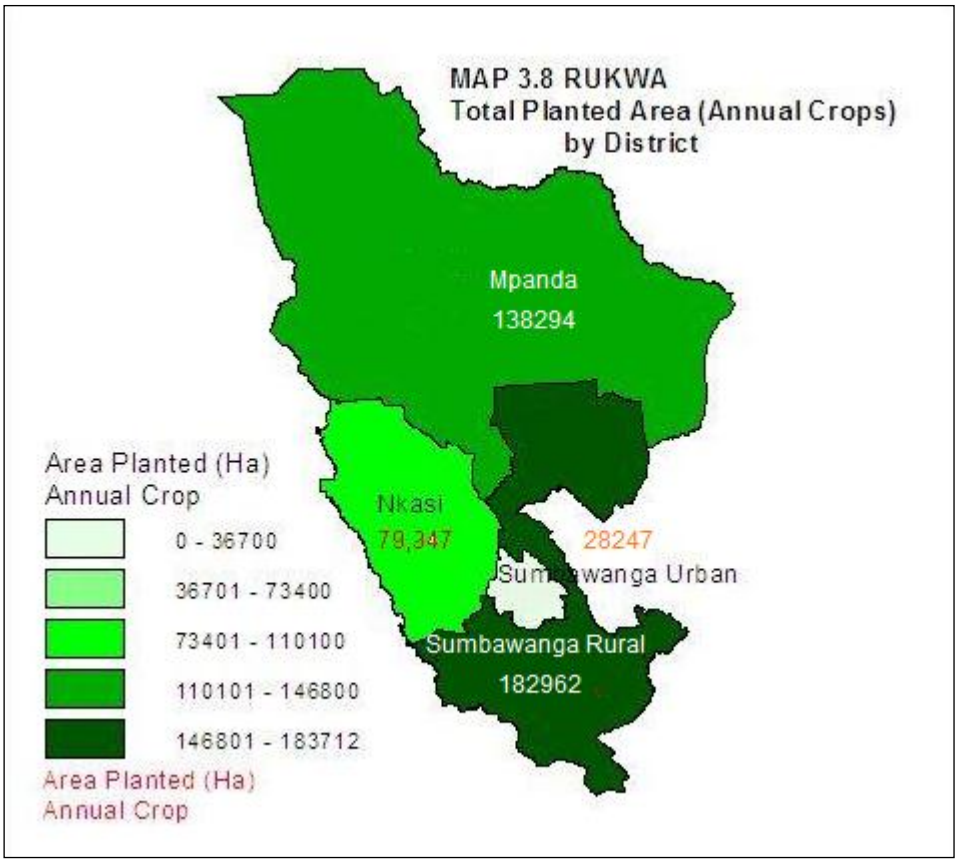
### 3.3.4 Cereal Crop Production

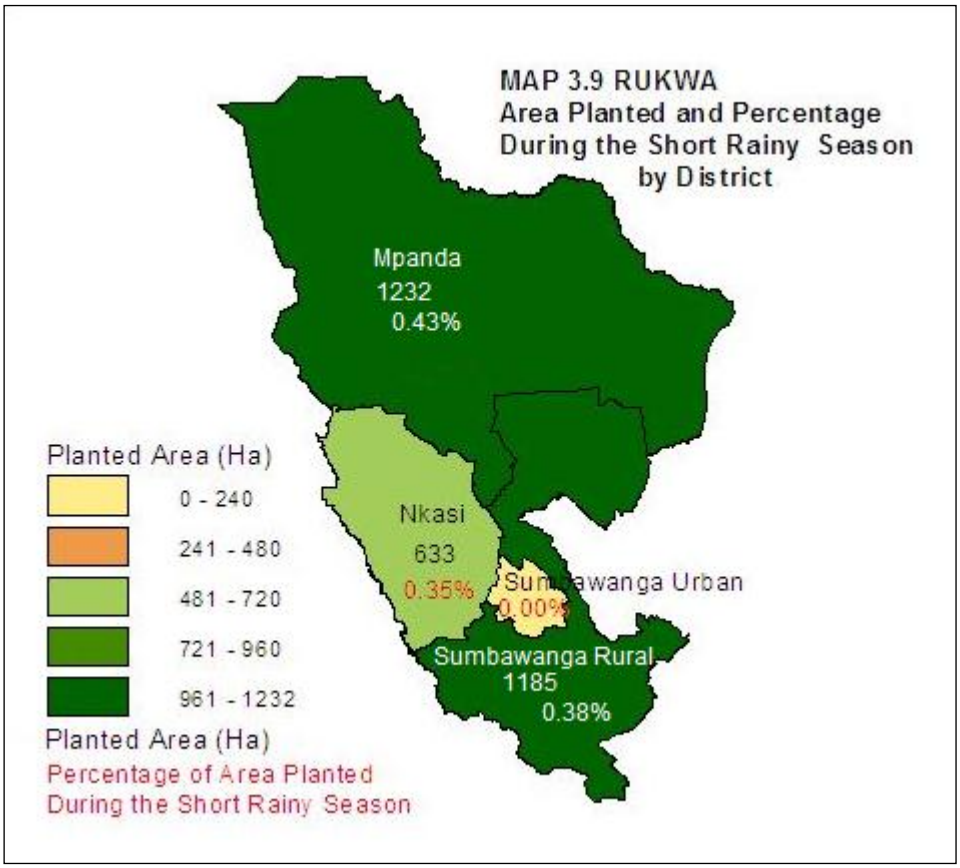
The total production of cereals was 500,874 tonnes. Maize was the dominant cereal crop with the production of 351,013 tonnes which was 70 percent of total cereal crops produced, followed by paddy (25.4%), finger millet (2.1%), sorghum (1.6%), wheat (0.75%) and bulrush millet (0%). The area planted with maize was dominant and it represented 76.8 percent of the total area planted with cereal crops, followed by paddy (15.8%), beans(12.9%),finger millet (3.7%), Sorghum (3.0%), wheat 0.7%), and bulrush millet (0.001%), (Map 3.10).

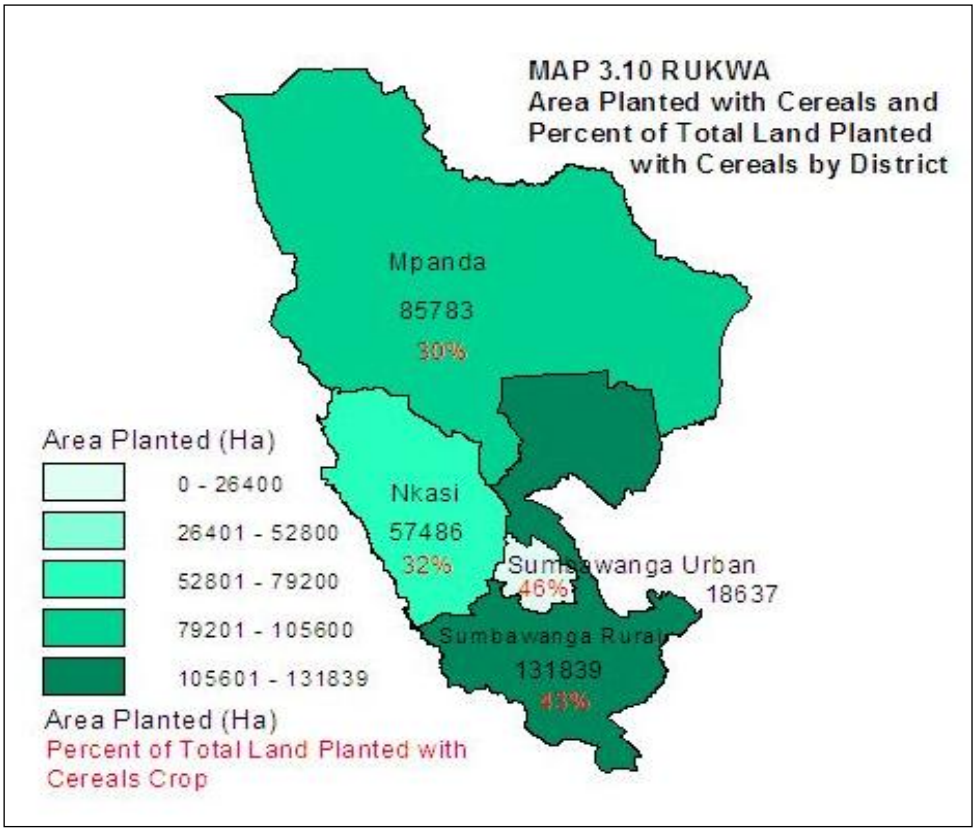
Paddy had the highest yield of (2,700kg/ha), followed by wheat (1,900kg/ha), maize (1600kg/ha), finger millet (1000kg/ha), sorghum (900 kg/ha) and bulrush millet (200 kg/ha), (Chart 3.19).




MAP 3.7 RUKWA
Utilized Land Area Expressed as a
Percentage of Utilized Land Areaa
by District
Mpanda
56%
Nkasi
54%
79%
Sumbawanga Rural
56%
Utilized Land Area
54% - 59%
60% - 64%
65% - 69%
70% - 74%
75% - 79%
Utilized Land Area Expressed
as a Percent

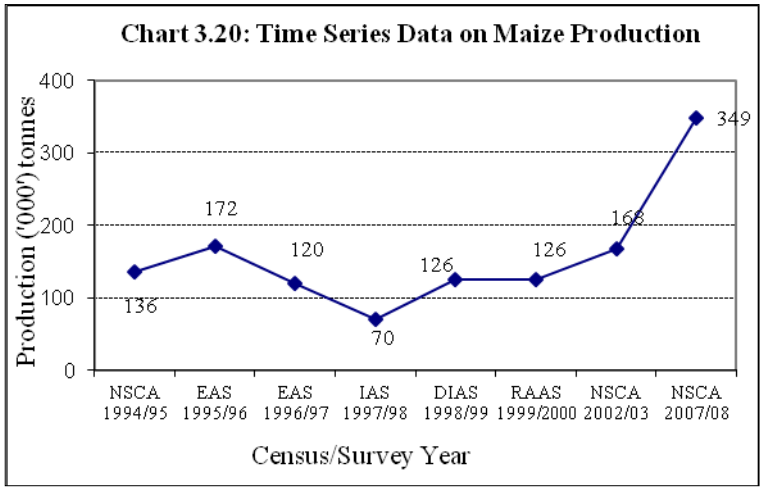

MAP 3.8 RUKWA
Total Planted Area (Annual Crops)
by District
Mpanda
138294
Nkasi
79,347
28247
Sumbawanga Rural
182962
Area Planted (Ha)
Annual Crop
0 - 36700
36701 - 73400
73401 - 110100
110101 - 146800
146801 - 183712
Area Planted (Ha)
Annual Crop


MAP 3.9 RUKWA
Area Planted and Percentage
During the Short Rainy Season
by District
Mpanda
1232
0.43%
Nkasi
633
0.35%
Sumbawanga Urban
0.00%
Sumbawanga Rural
1185
0.38%
Planted Area (Ha)
0 - 240
241 - 480
481 - 720
721 - 960
961 - 1232
Planted Area (Ha)
Percentage of Area Planted
During the Short Rainy Season

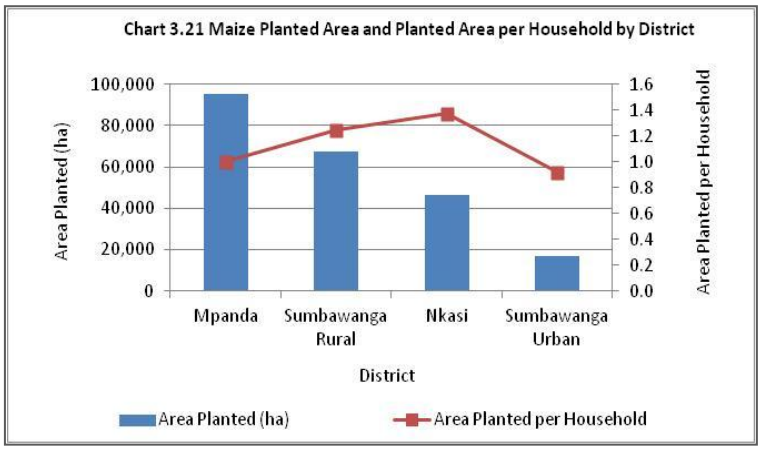

MAP 3.10 RUKWA
Area Planted with Cereals and
Percent of Total Land Planted
with Cereals by District
Mpanda
85783
30%
Nkasi
57486
32%
Sumbawanga Urban
46%
18637
Sumbawanga Rural
131839
43%
Area Planted (Ha)
0 - 26400
26401 - 52800
52801 - 79200
79201 - 105600
105601 - 131839
Area Planted (Ha)
Percent of Total Land Planted with
Cereals Crop

### 3.3.4.1 Maize

Maize dominated the production of cereal crops in the region. The number of households growing maize in Rukwa region during the wet season was 194,015 (85.86% of the total crop growing households in the region). The total production of maize during wet season was 349,289 tonnes from a planted area of 224,296 hectares resulting in a yield of (1.6 t/ha). (Chart 3.20) indicates the maize production trend (in thousand metric tonnes) for the wet season. There was a sharp decrease in maize production over the period of 1996 to 1998 after which the production increased sharply by the year 1998. In the year 1999 to 2000 the production was almost stable after which the production increased steadily up to the year 2008.

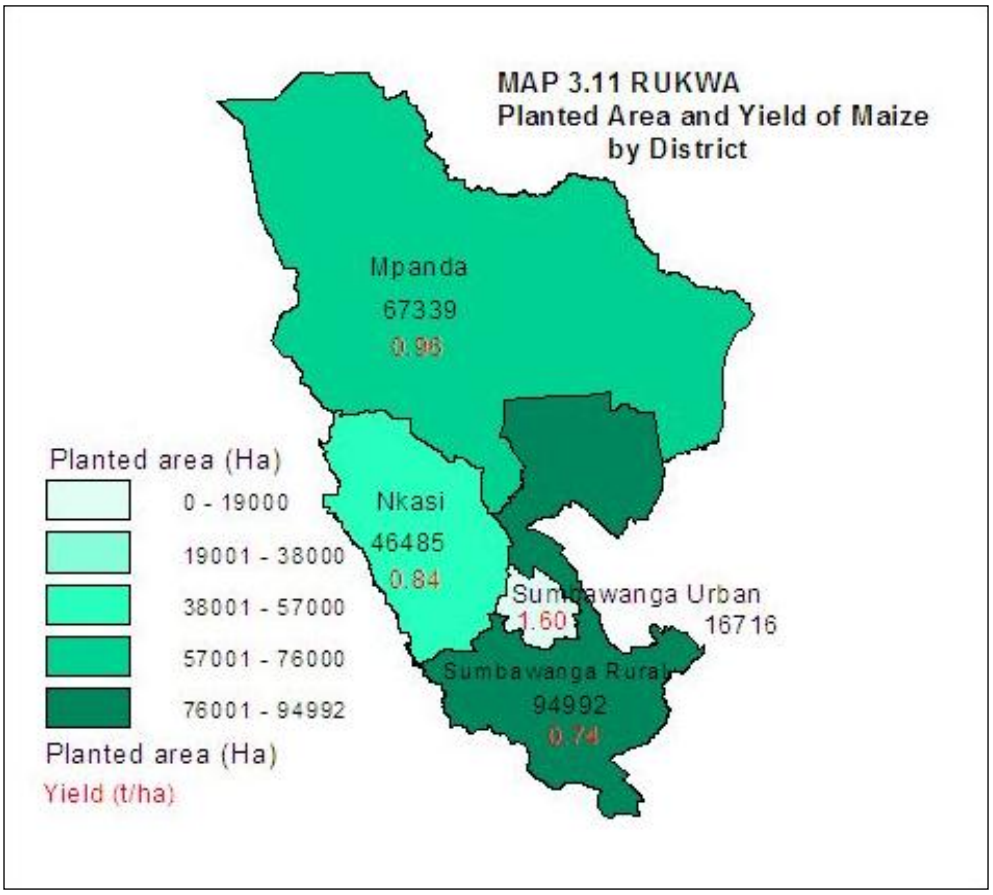


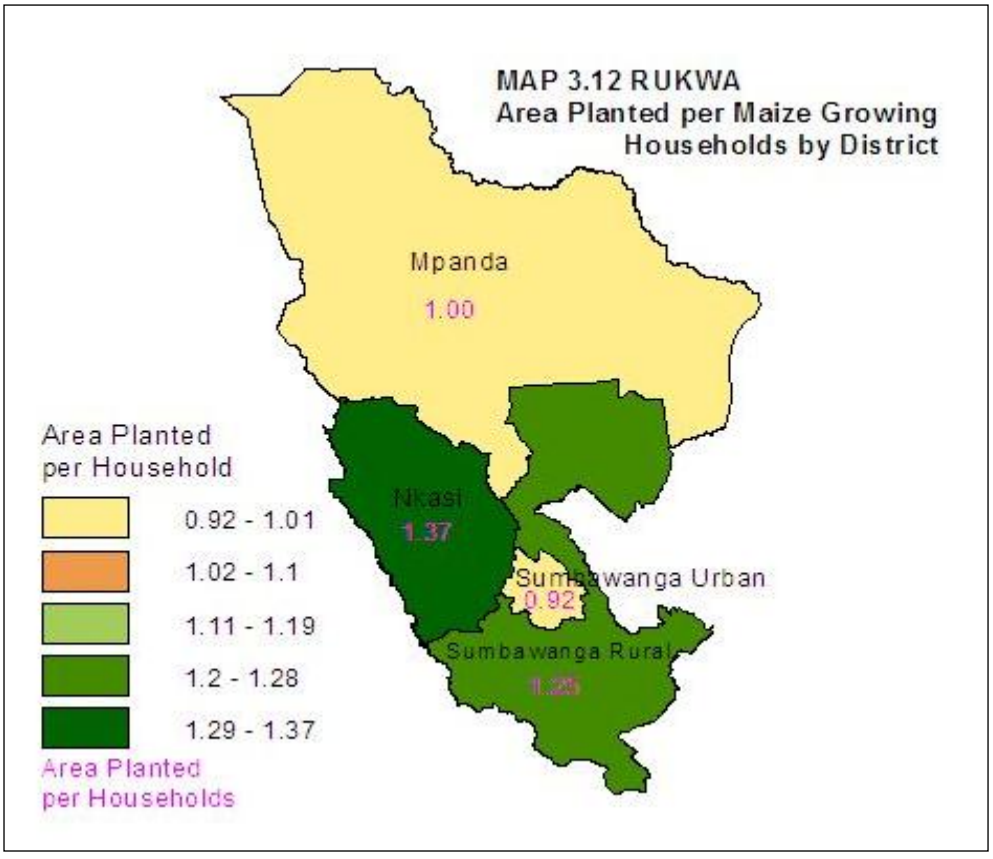

The average area planted with maize per household was 1.15 hectares; however it was 1.0 hectares in Mpanda district, 1.25hectaresin Sumbawanga Rural, 1.37 hectares in Nkasi and 0.92 hectares in Sumbawanga Urban. In both seasons, Sumbawanga Rural district had the largest area for maize (94,992 ha) followed by Mpanda (67,339 ha) and Nkasi (46,485 ha). Sumbawanga Urban district had the smallest planted area (16,716 ha), (Chart 3.21).

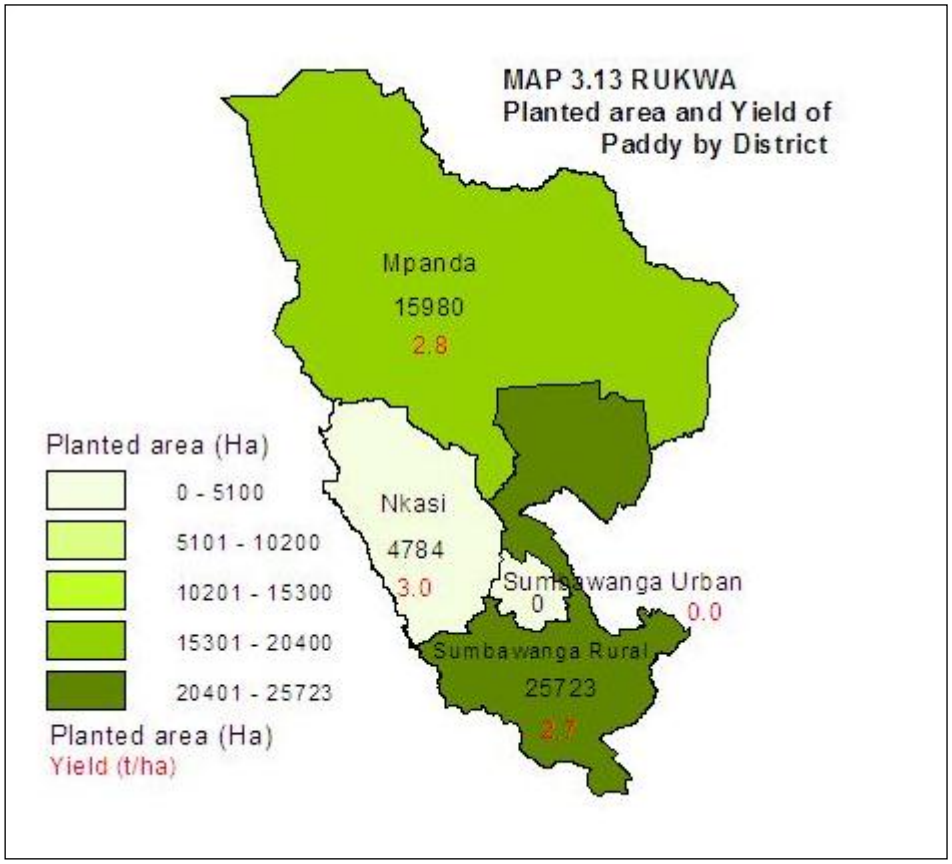


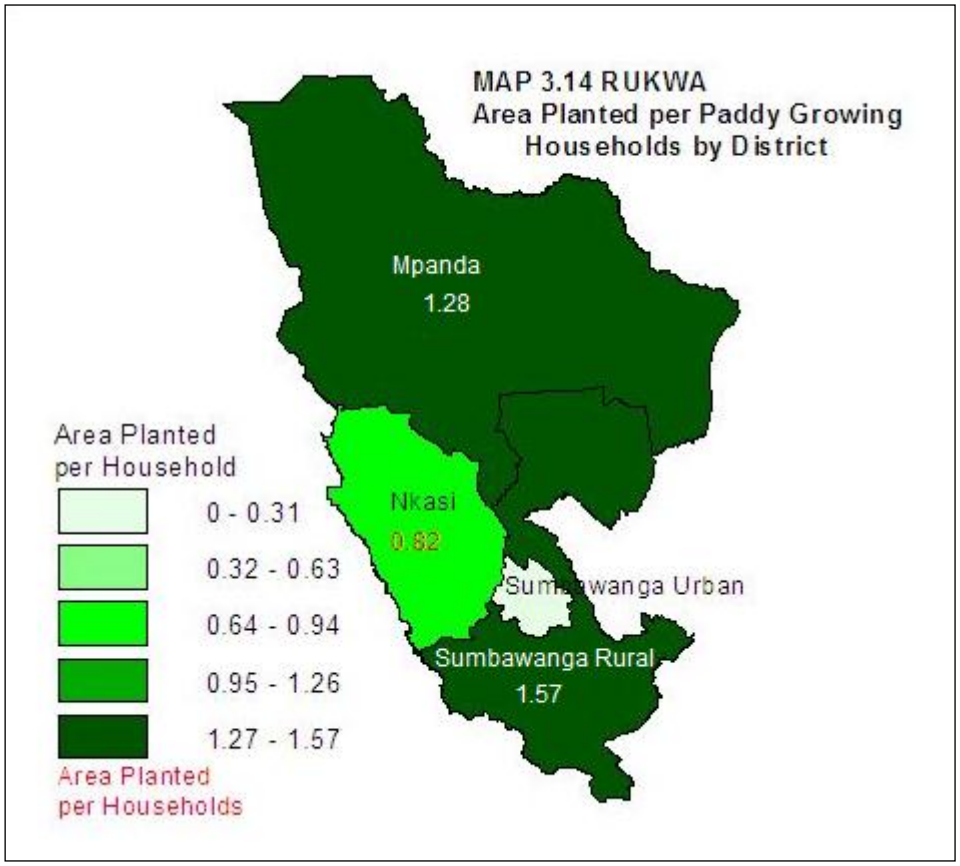
### 3.3.4.2 Paddy

Paddy is the second most important cereal crop in the region in terms of planted area. The number of households that grew paddy in Rukwa region during the wet season was 34,366. This represented 15.2 percent of the total annual crop growing households in Rukwa region. The total production of paddy during the Agriculture Year was 127,244 tonnes from a planted area of 46,486 hectares resulting in a yield of (2.7 t/ha). The district with the largest area planted with paddy was Sumbawanga Rural (25,723 ha) followed by Mpanda (15,980 ha) and Nkasi (4,784 ha). Sumbawanga Urban did not grow any paddy. There was a variation in the average planted area per crop growing household between the three districts being 0.82 hectares in Nkasi, 1.57 hectares in Sumbawanga Rural and 1.28 hectares in Mpanda district.


MAP 3.11 RUKWA
Planted Area and Yield of Maize
by District
Mpanda
67339
0.96
Nkasi
46485
0.84
Sumbawanga Urban
1.60
16716
Sumbawanga Rural
94992
0.74
Planted area (Ha)
0 - 19000
19001 - 38000
38001 - 57000
57001 - 76000
76001 - 94992
Planted area (Ha)
Yield (t/ha)

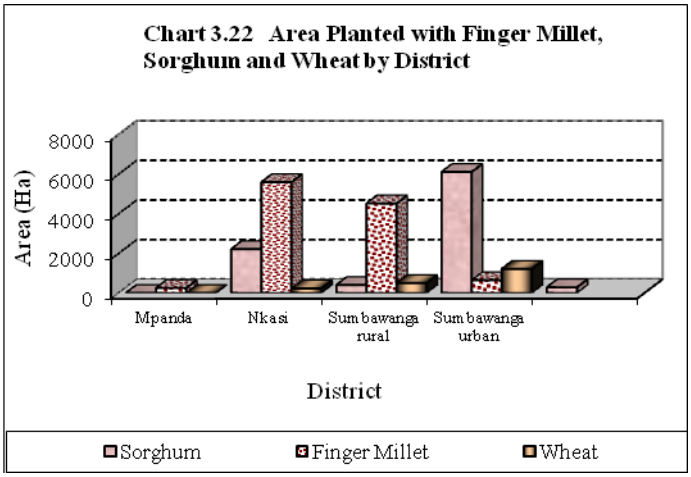

MAP 3.12 RUKWA
Area Planted per Maize Growing
Households by District
Mpanda
1.00
Nkasi
1.37
Sumbawanga Urban
0.92
Sumbawanga Rural
1.25
Area Planted
per Household
0.92 - 1.01
1.02 - 1.1
1.11 - 1.19
1.2 - 1.28
1.29 - 1.37
Area Planted
per Households


MAP 3.13 RUKWA
Planted area and Yield of Paddy by District
Mpanda
15980
2.8
Nkasi
4784
3.0
Sumbawanga Urban
0
0.0
Sumbawanga Rural
25723
2.7
Planted area (Ha)
0 - 5100
5101 - 10200
10201 - 15300
15301 - 20400
20401 - 25723
Planted area (Ha)
Yield (t/ha)


MAP 3.14 RUKWA
Area Planted per Paddy Growing Households by District
Mpanda
1.28
Nkasi
0.82
Sumbawanga Urban
Sumbawanga Rural
1.57
Area Planted per Household
0 - 0.31
0.32 - 0.63
0.64 - 0.94
0.95 - 1.26
1.27 - 1.57
Area Planted per Households

### 3.3.4.3 Other Cereals

Other cereals produced in Rukwa Region included: sorghum (8,784 ha), finger millet (10,999 ha), bulrush millet (5 ha) and wheat (1,939 ha). While bulrush millet was grown in Sumbawanga urban only, wheat was produced in all districts except Mpanda, (Chart 3.22).




### 3.3.5 Roots and Tuber Crops Production

The total production of roots and tubers was 65,178 tonnes. Cassava production was higher than any other root and tuber crop in the region with a total production of 50,149 tonnes representing 76.9 percent of the total root and tuber crops production followed by cassava (13,967 tonnes, 21.4%), irish potatoes (1,010t, 1.5%) and coco yams (52t, 0.1%).

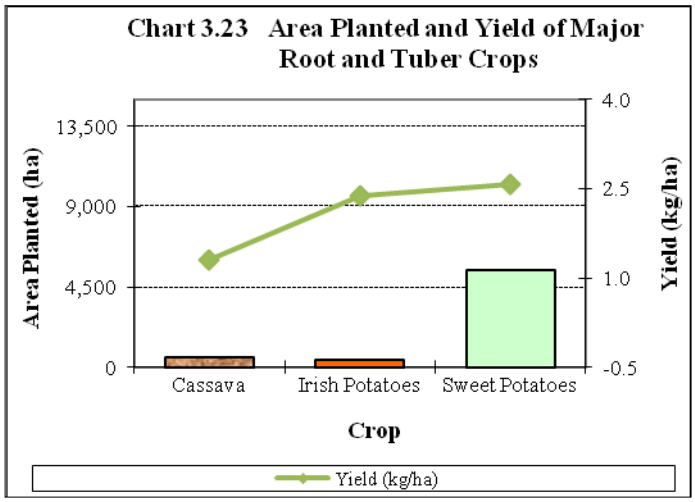



**Table 3.3 Area, Production and Yield for Major Roots and Tuber Crops in Wet and Dry Seasons**

| Crop | Number of Household | Planted Area (hectare) | Quantity Harvested (tons) | Yield/ha |
|---|---|---|---|---|
| Cassava | 35,643 | 22,534 | 50,149 | 2.26 |
| Sweet Potatoes | 13,713 | 5,438 | 13,967 | 2.57 |
| Irish Potatoes | 1,498 | 422 | 1,010 | 2.39 |
| Yams | 225 | 46 | 0 | 0.00 |
| Coco yam | 224 | 81 | 52 | 0.64 |
| **Total** | **51,303** | **28,521** | **65,178** | **2.29** |

The area planted with cassava was larger than any other root and tuber crop and therefore it was the most important root and tuber crop in Rukwa in terms of planted area.

It accounted for 79.0 percent of the area planted with roots and tubers, followed by sweet potatoes (19.1%), Irish potatoes (1.5%) and cocoyam (0.28%).

Nkasi district had the largest planted area of cassava (10,070 ha, 44.7% of the total area planted withcassava in the region) followed by Sumbawanga Rural (6,709 ha, 29.8%), Mpanda (5,607 ha, 24.9%) and Sumbawanga Urban (148 ha, 0.7%).

#### 3.3.5.1 Sweet Potatoes

The number of households growing sweet potatoes in the region was 13,713. This represents 6.1% of the total crop growing households in the region. The total production of sweet potatoes during the census year was 13,967 tonnes from a planted area of 5,438 hectares resulting in a yield of (2.57t/ha).

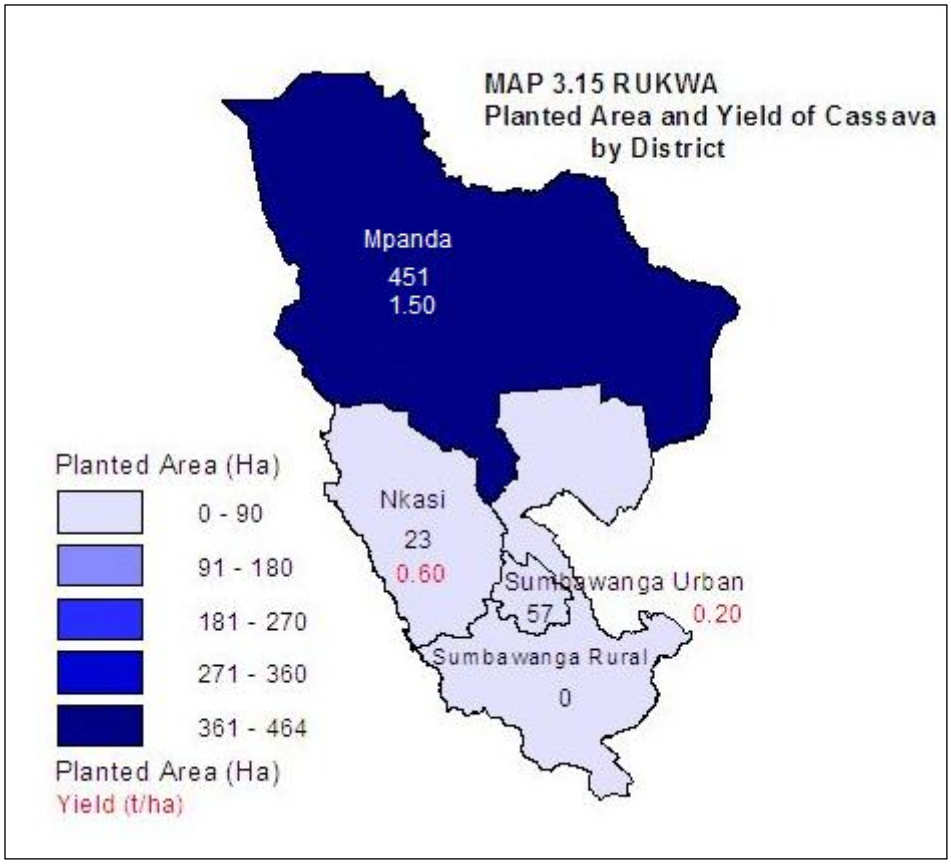
The area planted with sweet potatoes accounted for one percent of the total area planted with annual crops. Mpanda district had the largest planted area with sweet potatoes (3,785 ha, 69.6% of the total area planted with sweet potatoes in the region) followed by Nkasi (837 ha, 15.4%), Sumbawanga Rural (605ha 11.1%) and Sumbawanga Urban (210 ha, 3.9%).

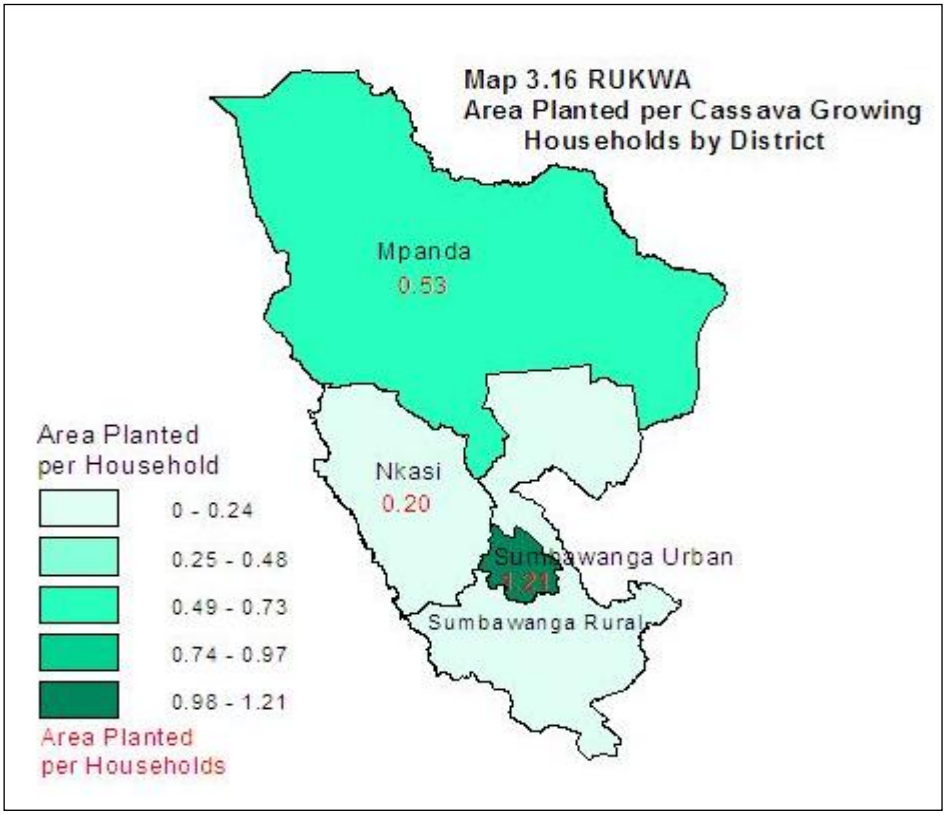
The average sweet potatoes planted area per sweet potatoes growing household was 0.39 hectares. The area planted per sweet potatoes growing household was greatest in Nkasi (0.50 ha) followed by Mpanda (0.41ha), Sumbawanga Urban (0.34ha) and Sumbawanga Rural (0.27 ha).

#### 3.3.5.2 Irish Potatoes

The number of households growing Irish potatoes in Rukwa region was 1,498. The total production of Irish potatoes during the census year was 1,010 tonnes from a planted area of 422 hectares resulting in a yield of (2.39t/ha).

Sumbawanga Urban District had the largest planted area for Irish potatoes (331ha, 78.4%), followed by Sumbawanga Rural (91 ha, 21.6%), the rest of the districts did not grow Irish potatoes.


MAP 3.15 RUKWA
Planted Area and Yield of Cassava by District
Mpanda
451
1.50
Nkasi
23
0.60
Sumbawanga Urban
57
0.20
Sumbawanga Rural
0
Planted Area (Ha)
0 - 90
91 - 180
181 - 270
271 - 360
361 - 464
Planted Area (Ha)
Yield (t/ha)


Map 3.16 RUKWA
Area Planted per Cassava Growing Households by District
Mpanda
0.53
Nkasi
0.20
Sumbawanga Urban
1.21
Sumbawanga Rural
Area Planted per Household
0 - 0.24
0.25 - 0.48
0.49 - 0.73
0.74 - 0.97
0.98 - 1.21
Area Planted per Households

### 3.3.6 Pulse Crops Production

The total area planted with pulses was 38,737 hectares out of which 38,146 ha (98.47 percent of the total area planted with pulses) were planted with beans followed by field peas (337 ha, 0.87%), cowpeas (221 ha, 0.57%) and bambaranuts (33 ha, 0.085%).

The total production of pulses was 28,097 tonnes.

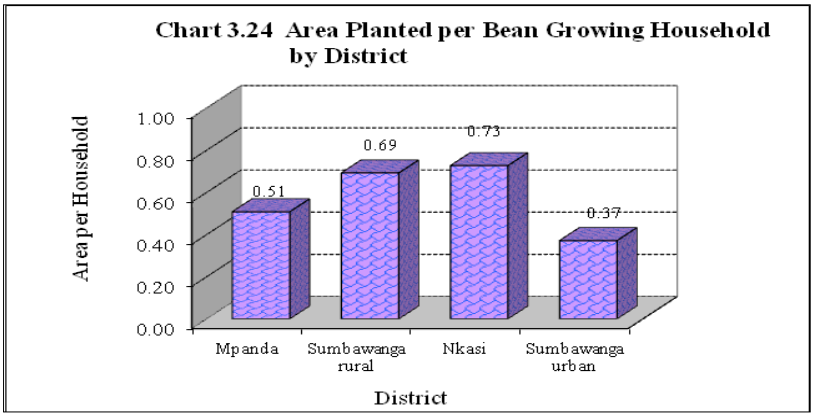
**Table 3.4 Area, Production and Yield of Major Pulses**

| Crop Type | Number of Households | Planted Area (hectare) | Quantity Harvested (tons) | Yield (T/Ha) |
|---|---|---|---|---|
| Beans | 61,402 | 38,146 | 27,662 | 0.73 |
| Cowpeas | 2,185 | 221 | 92 | 0.41 |
| Bambaranuts | 236 | 33 | 30 | 0.90 |
| Field Peas | 424 | 337 | 313 | 0.93 |
| Total | 64,246 | 38,737 | 28,097 | 0.73 |

Bean was the most cultivated pulse producing 27, 662 tonnes which accounted for 98.45 percent of the total pulse production. This was followed by field peas (313t, 1.11%), cowpeas (92t, 0.33%) and bambaranuts (30t, 0.11%). Field peas and bambaranuts had relatively higher yields of 0.93 t/ha and 0.90 t/ha respectively. The yields of the rest of the pulses in tonnes per hectare were beans (0.73 t/ha) and cowpeas (0.41t/ha).

#### 3.3.6.1 Beans

Beans dominated the production of pulse crops in the region. The total production of beans in the region was 27,662 tonnes from a planted area of 38,146 hectares resulting in a yield of (0.73 t/ha). The largest area planted with beans in the region was in Sumbawanga Rural district (18,866 ha, 49.5%), however, the largest area planted with beans per beans growing household was in Nkasi district (0.73 ha), (Chart 3.24). The average area planted per household in the region was (0.62 ha). The variations in area planted with beans per household among districts in the region was not significant as it ranged from (0.69 ha) in Sumbawanga Rural to (0.37 ha) in Sumbawanga Urban.



### 3.3.7 Oil Seed Production

The total production of oilseed crops was 60,661 tonnes planted on an area of 77,669 hectares. Sunflower was the most important oilseed crop with 34,774 hectares (46.0% of the total area planted with oil seeds), followed by groundnuts (34,248 ha, 45.3%) and simsim (6,647 ha, 8.8%), (Table 3.5).

**Table 3.5 Area, Production and Yield of Major Oil Seeds & Oil Nuts**

| Crop | Number of Household | Planted Area (hectare) | Quantity Harvested (tons) | Yield |
|---|---|---|---|---|
| Sunflower | 62,283 | 34,774 | 27,425 | 0.75 |
| Simsim | 4,796 | 6,647 | 3,194 | 0.48 |
| Groundnut | 62,283 | 34,248 | 30,042 | 0.88 |
| Total | 115,541 | 77,669 | 60,661 | 0.78 |

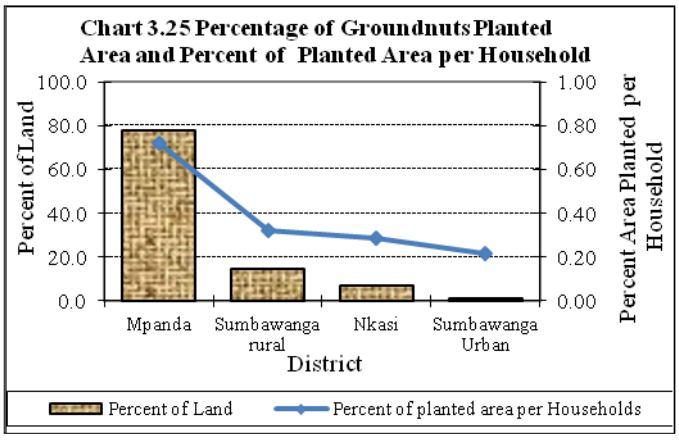
The production of groundnuts was 30,042 tonnes which accounted for 49.52 percent of the total production of oil seeds followed by sunflower (45.21%) and simsim (5.27%).

#### 3.3.7.1 Sunflower

Number of households growing sunflower in Rukwa region was 48,463. The total production of sunflower in the region was 27,425 tonnes from a palnted area of 36,774 hectares resulting in a yield of 0.75t/ha. About 64.24 percent (23,625 ha) of the area planted with sunflower was located in Sumbawanga Rural followed by Nkasi (7,801 ha, 21.21%), Sumbawanga Urban (3,581 ha, 9.74%) and Mpanda (1,768 ha, 4.81%).

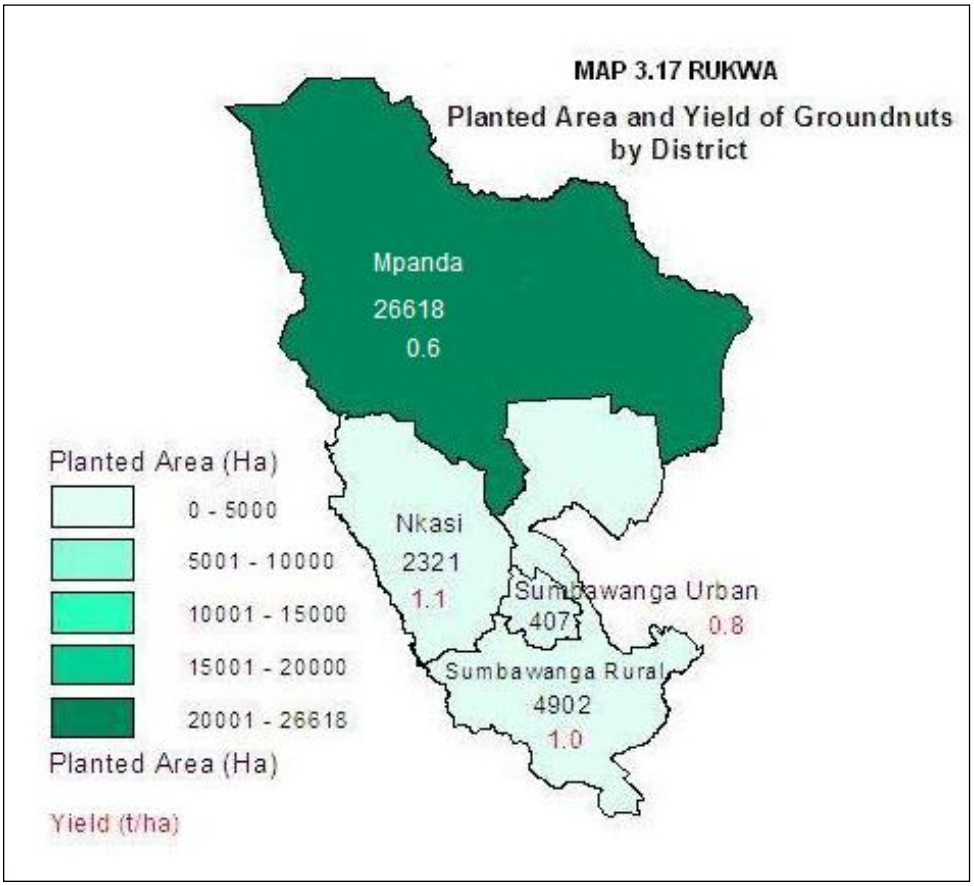
#### 3.3.7.2 Groundnuts

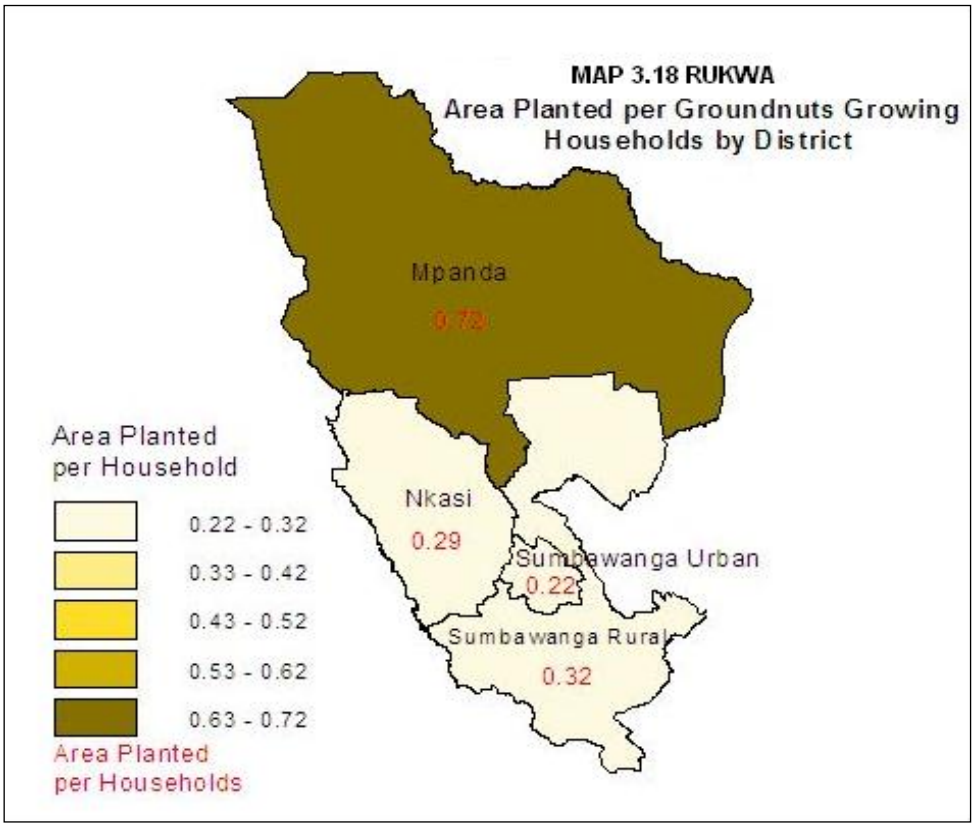
Number of households growing groundnuts in Rukwa region was 62,283. The total production of groundnuts in the region was 30,042 tonnes from a planted area of 34,248 hectares resulting in a yield of 0.88 t/ha. Area planted had been increased from 1,292 hectares in 1994/95 to 16,570 hectares in 2002/03 up to 34,248 hectares in 2007/08.



About 77.72 percent (122,618 ha) of the area planted with groundnuts in Mpanda district followed by Sumbawanga Rural (4,902 ha, 14.31%), Nkasi (2,321 ha, 6.77% and Sumbawanga Urban (407 ha, 1.19%), (Map 3.17). The district with the highest proportion of land with groundnut was Mpanda followed by Sumbawanga Rural, Nkasi and Sumbawanga Urban.

Furthermore, the largest area planted per groundnut growing household was found in Mpanda district (0.72ha), followed by Sumbawanga rural (0.32 ha), Nkasi (0.29 ha) and the lowest was in Sumbawanga Urban (0.22 ha). The range between the district with the highest and the lowest area planted per household depicts small variations in area planted among the districts


MAP 3.17 RUKWA
Planted Area and Yield of Groundnuts by District
Mpanda
26618
0.6
Nkasi
2321
1.1
Sumbawanga Urban
407
0.8
Sumbawanga Rural
4902
1.0
Planted Area (Ha)
0 - 5000
5001 - 10000
10001 - 15000
15001 - 20000
20001 - 26618
Planted Area (Ha)
Yield (t/ha)


MAP 3.18 RUKWA
Area Planted per Groundnuts Growing Households by District
Mpanda
0.72
Nkasi
0.29
Sumbawanga Urban
0.22
Sumbawanga Rural
0.32
Area Planted per Household
0.22 - 0.32
0.33 - 0.42
0.43 - 0.52
0.53 - 0.62
0.63 - 0.72
Area Planted per Households

### 3.3.8 Fruit and Vegetables

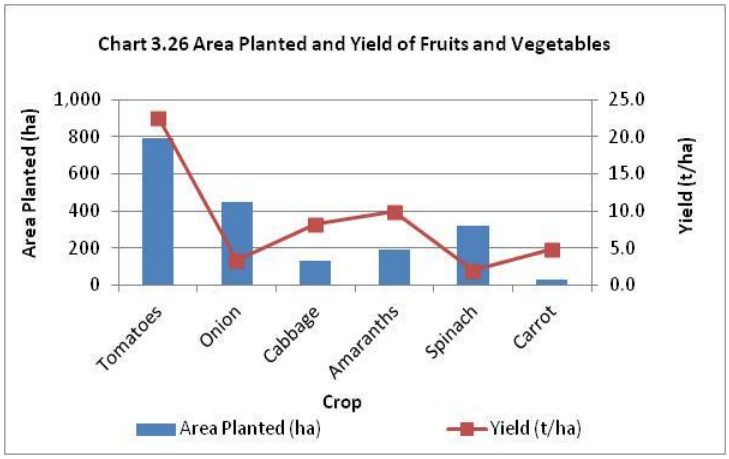
The collection of fruit and vegetables production data was difficult due to the small quantities produced per household. Most of the data presented here give the production of smallholders who grew these crops as cash crops and not merely for household consumption.

**Table 3.6: Area, Production and Yield of Fruits and Vegetables**

| Crop | Number of Household | Planted Area (hectare) | Quantity Harvested (tons) | Yield (t/ha) |
|---|---|---|---|---|
| Okra | 674 | 818 | 847 | 1.04 |
| Bitter Aubergine | 283 | 33 | 180 | 5.49 |
| Onion | 1,730 | 452 | 1,516 | 3.35 |
| Cabbage | 1,381 | 130 | 1,072 | 8.27 |
| Tomatoes | 4,139 | 791 | 17,941 | 22.68 |
| Spinach | 1,571 | 319 | 628 | 1.97 |
| Carrot | 189 | 29 | 139 | 4.86 |
| Chillies | 141 | 6 | 11 | 1.77 |
| Amaranths | 843 | 194 | 1,925 | 9.93 |
| Total | 10,950 | 2,772 | 24,259 | 8.75 |

The total production of fruits and vegetables was 24,259 tonnes. The most cultivated fruit and vegetable crop was tomatoes with a production of 17,941 tonnes (73.9% of the total fruit and vegetables produced) followed by amaranths (1,925t, 7.9%), onion (1,516t, 6.2%) and cabbage (1,072t, 4.4%). The production of the other fruit and vegetables crops was relatively small (Table 3.6).

The yield of tomatoes was 22.68t/ha, Amaranths (9.93t/ha), cabbage (8.27t/ha), bitter aubergine (5.49t/ha), carrot (4.86t/ha) and onion (3.35t/ha), (Chart 3.26).




#### 3.3.8.1 Tomatoes

Sumbawanga Rural district had the largest planted area of tomatoes (44.9% of the total area planted with tomatoes in the region), followed by Sumbawanga Urban (33.8%), Mpanda (11.3%) and Nkasi (10.0%).

The district with the highest proportion of land with tomatoes was Sumbawanga Urban followed by Sumbawanga Rural, Nkasi and Mpanda district.

The largest area planted per tomato growing household was found in Mpanda district (0.25 ha) followed by Nkasi (0.24 ha), Sumbawanga Rural (0.20 ha) and Sumbawanga Urban (0.16 ha). The total area planted with tomatoes accounted for 0.19 percent of the total area planted with annual crops and vegetables during the wet season

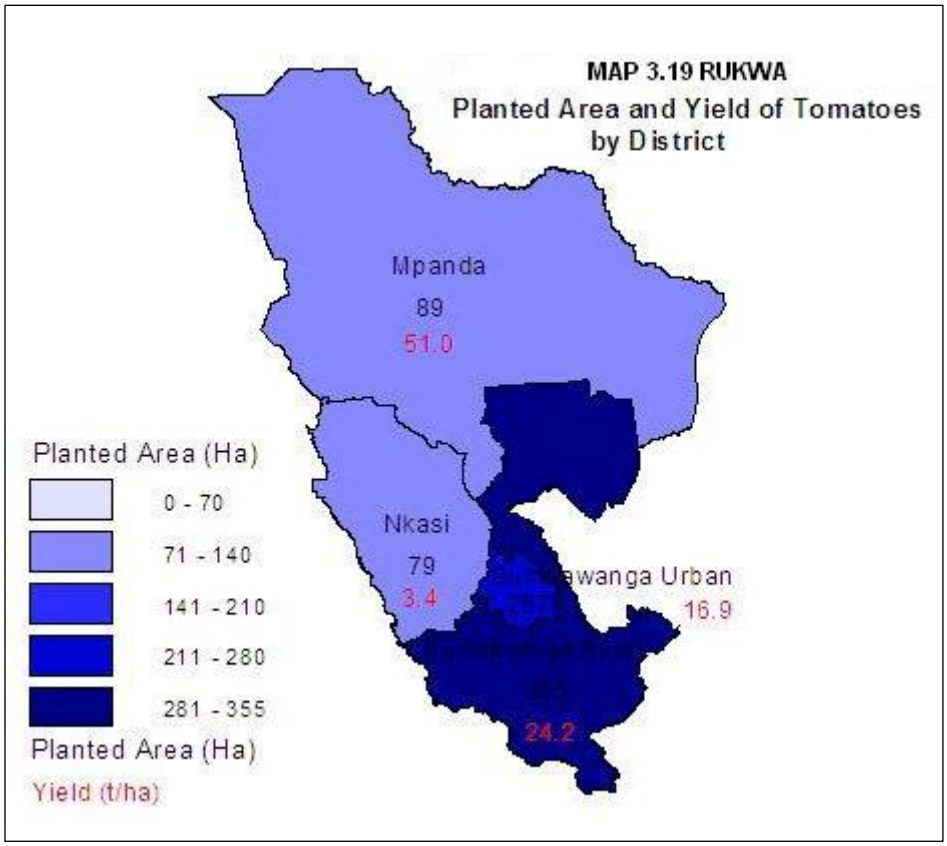
#### 3.3.8.2 Onions

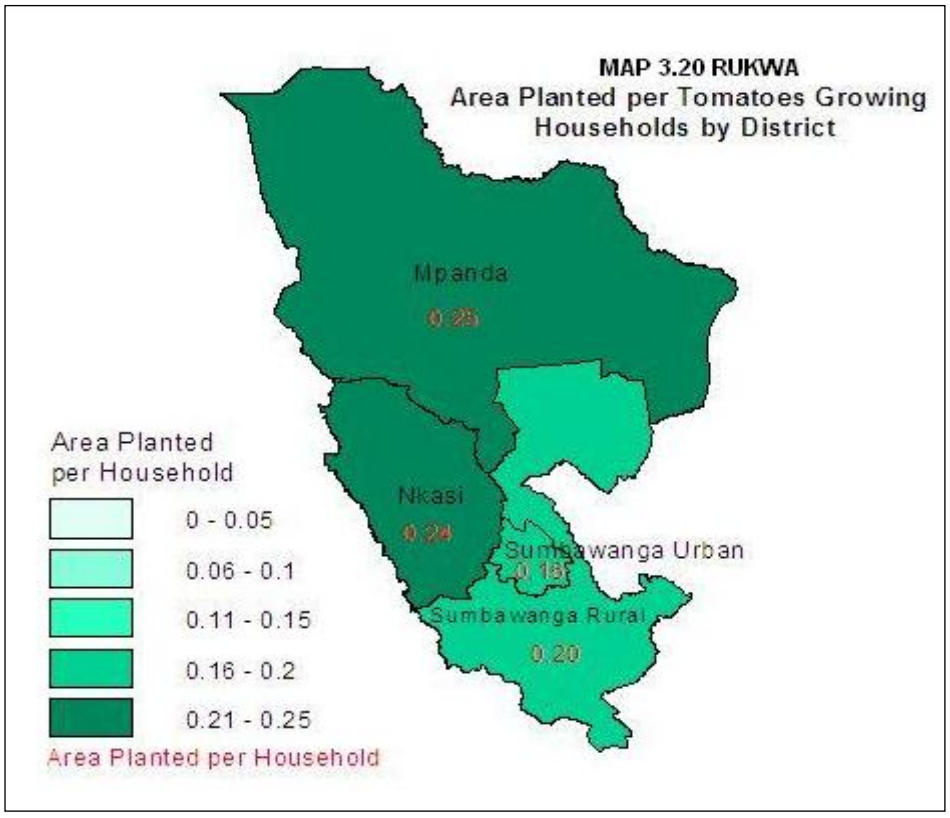
The number of households growing onions in the region was 1,730. This represented 1.0 percent of the total crop growing households in the region. The district with the largest planted area with onions was Sumbawanga Rural (273 ha, 60% of the total area planted with onions in the region), followed by Sumbawanga Urban (134 ha, 30%) and Nkasi (45 ha, 10%) while Mpanda had no land with onion. The total area planted with onions accounted for 0.11 percent of the total area planted with annual crops and vegetables during the wet seasons.

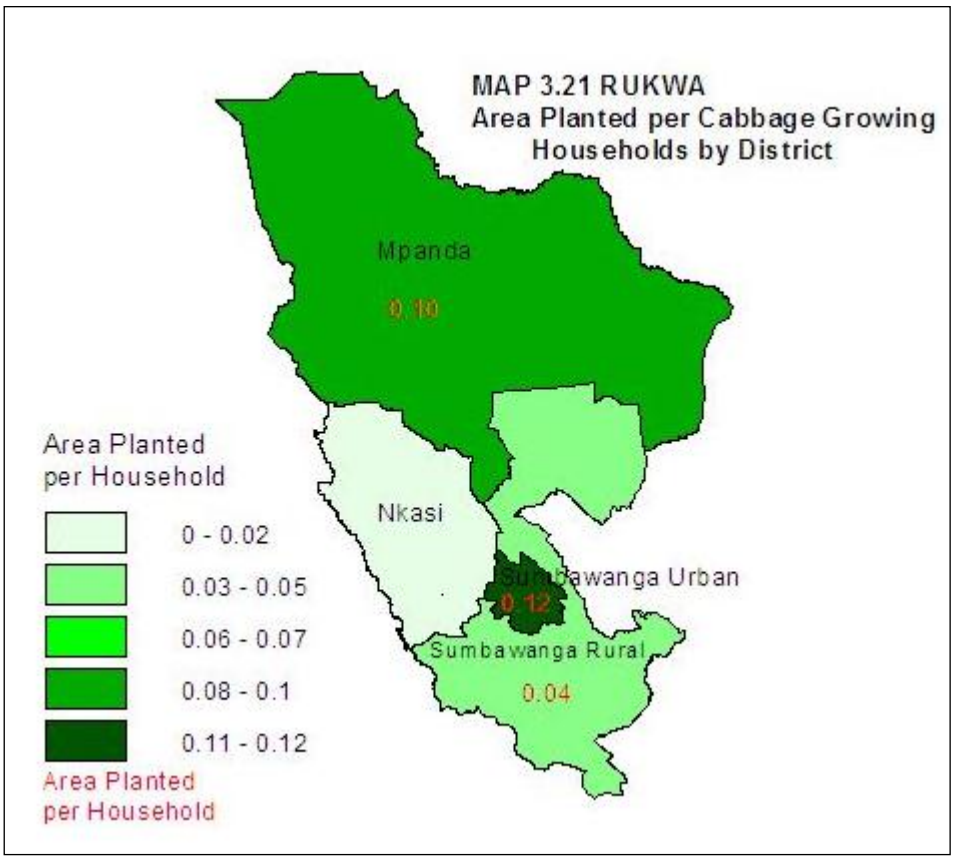
#### 3.3.8.3 Cabbage

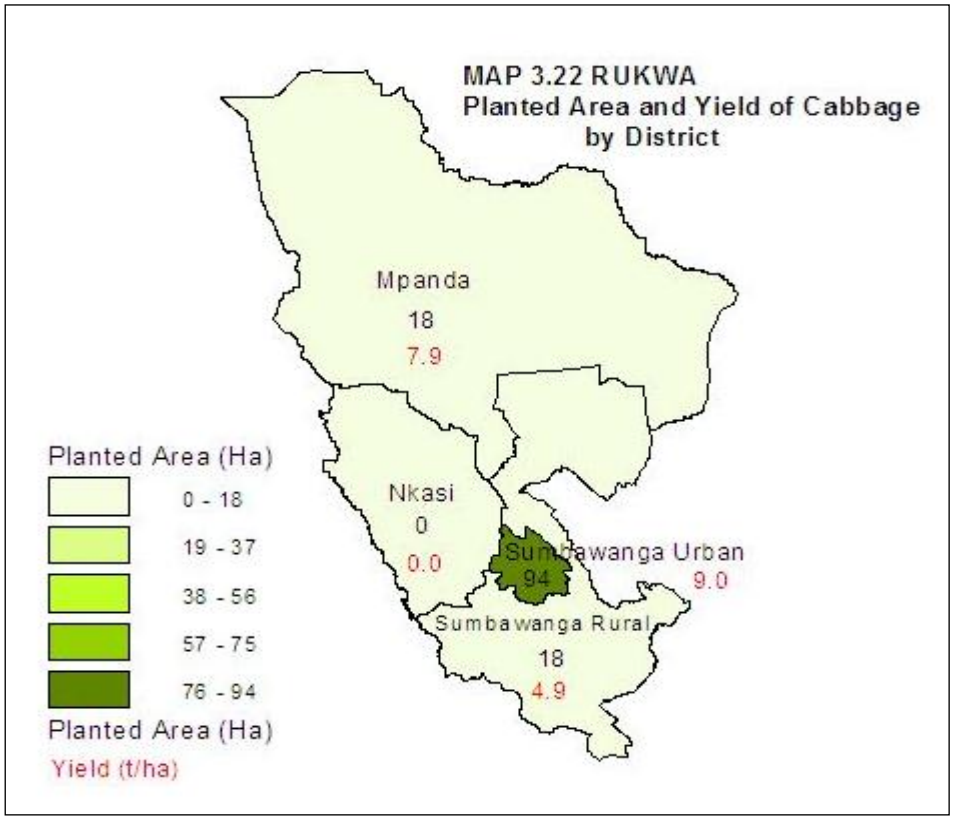
The number of households growing cabbages in the region was 1,381 households in the. This represents 0.6 percent of the total crop growing households in the region. Sumbawanga Urban district had the largest planted area of cabbage (94 ha, 72.3% of the total area planted with cabbage in the region), followed by Sumbawanga Rural and Mpanda (18 ha, 13.8%) each while Nkasi had no land planted with cabbages.

The district with the largest proportion of the land area planted with cabbages was Sumbawanga Urban district (0.234%) followed by Sumbawanga Rural and Mpanda (0.006 ha) each. The total area planted with cabbage accounted for 0.03 percent of the total area planted with annual crops and vegetables during the wet season.


MAP 3.19 RUKWA
Planted Area and Yield of Tomatoes by District
Mpanda
89
51.0
Nkasi
79
3.4
awanga Urban
16.9
24.2
Planted Area (Ha)
0 - 70
71 - 140
141 - 210
211 - 280
281 - 355
Planted Area (Ha)
Yield (t/ha)


MAP 3.20 RUKWA
Area Planted per Tomatoes Growing Households by District
Mpanda
0.25
Nkasi
0.24
Sumbawanga Urban
0.15
Sumbawanga Rural
0.20
Area Planted per Household
0 - 0.05
0.06 - 0.1
0.11 - 0.15
0.16 - 0.2
0.21 - 0.25
Area Planted per Household


MAP 3.21 RUKWA
Area Planted per Cabbage Growing Households by District
Mpanda
0.10
Nkasi
Sumbawanga Urban
0.12
Sumbawanga Rural
0.04
Area Planted per Household
0 - 0.02
0.03 - 0.05
0.06 - 0.07
0.08 - 0.1
0.11 - 0.12
Area Planted per Household


MAP 3.22 RUKWA
Planted Area and Yield of Cabbage by District
Mpanda
18
7.9
Nkasi
0
0.0
Sumbawanga Urban
94
9.0
Sumbawanga Rural
18
4.9
Planted Area (Ha)
0 - 18
19 - 37
38 - 56
57 - 75
76 - 94
Planted Area (Ha)
Yield (t/ha)

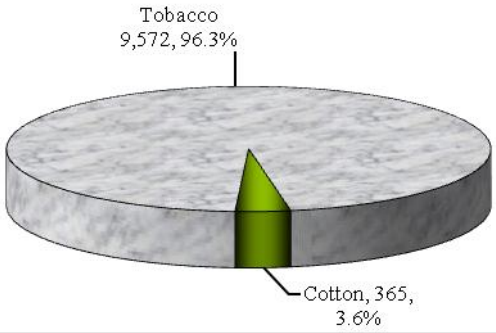
### 3.3.9 Other Annual Crop Production

Most of the other annual crops are cash crops. An area of 9,936 ha was planted with cash crops.Tobacco (96.3% of the area under cash crops) was the most prominent followed by cotton (3.6%).

#### 3.3.9.1 Tobacco

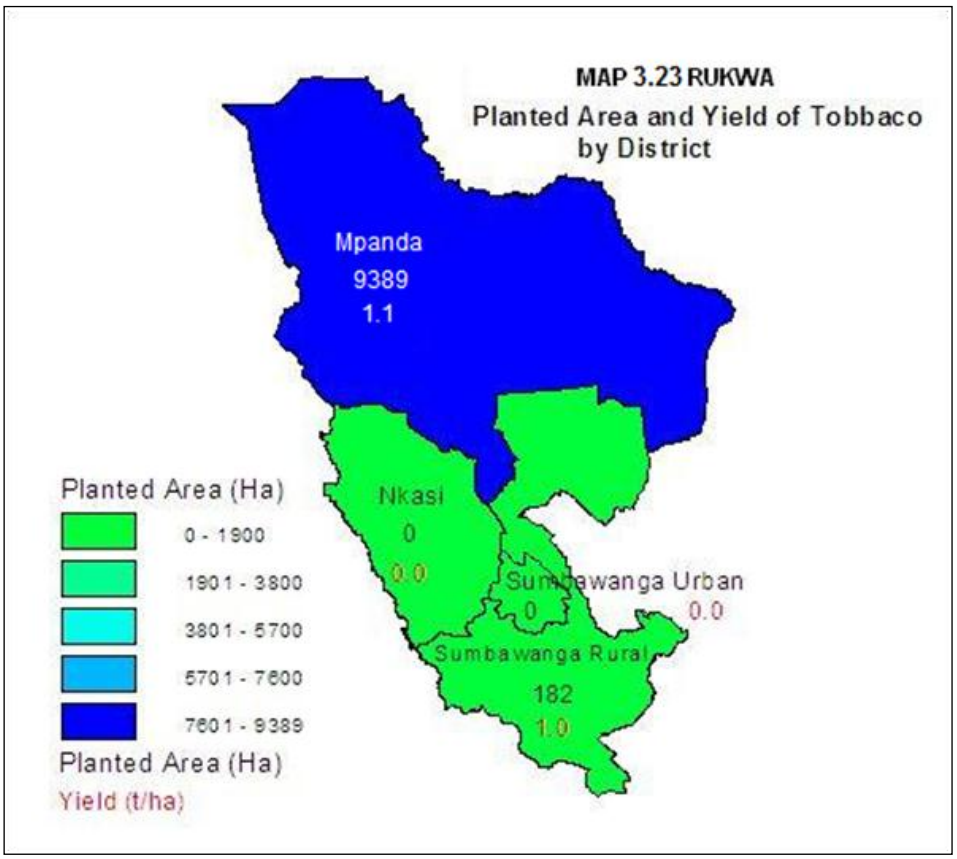
The quantity of tobacco produced was 10,661 tonnes. Tobacco had a planted area of 9,572 hectares with all of being planted in the wet season. Tobacco production was concentrated in two districts with Mpanda having the largest planted area (98% of total area planted with tobacco in the region) followed by Sumbawanga Rural (2%), (Chart 3.27, .Map 3.23)

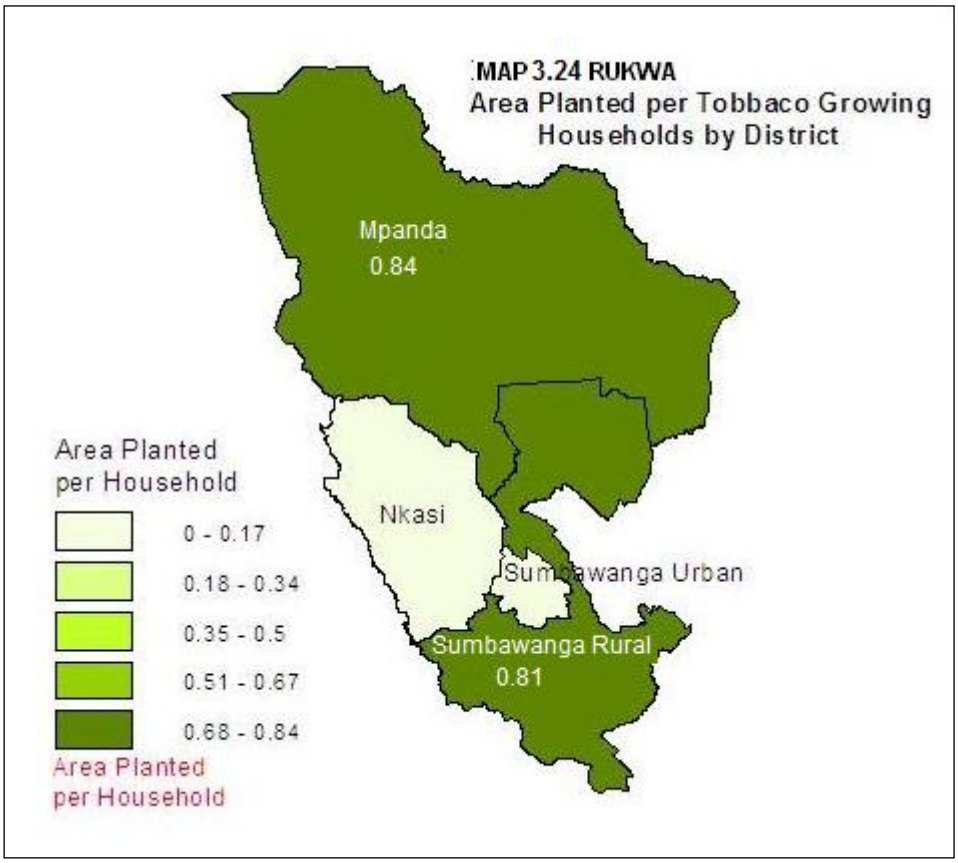
**Chart 3.27 Area planted with Annual Cash Crops**




#### 3.3.9.2 Cotton

The production of cotton in Rukwa Region was only 437 tonnes from a planted area of 365 ha. It was all produced during the wet season. The crop was only grown in Sumbawanga Rural with an average planted area of 0.54 hectares per cotton growing household.

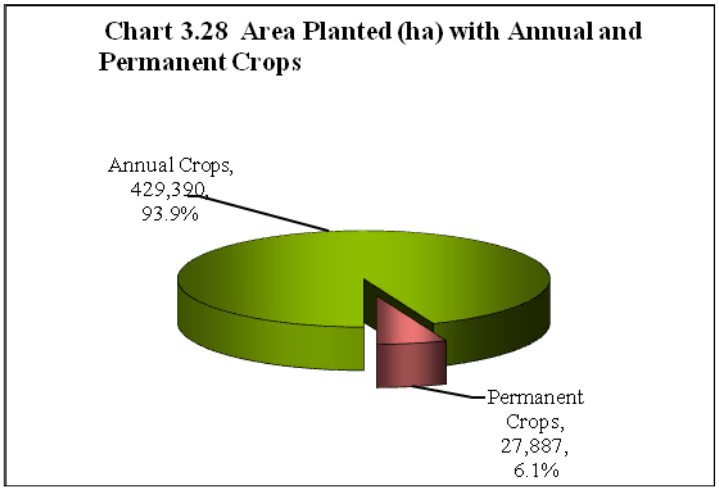

MAP 3.23 RUKWA
Planted Area and Yield of Tobbaco by District
Mpanda
9389
1.1
Nkasi
0
0.0
Sumbawanga Urban
0
0.0
Sumbawanga Rural
182
1.0
Planted Area (Ha)
0 - 1900
1901 - 3800
3801 - 5700
5701 - 7600
7601 - 9389
Planted Area (Ha)
Yield (t/ha)


MAP 3.24 RUKWA
Area Planted per Tobbaco Growing Households by District
Mpanda
0.84
Nkasi
Sumbawanga Urban
Sumbawanga Rural
0.81
Area Planted per Household
0 - 0.17
0.18 - 0.34
0.35 - 0.5
0.51 - 0.67
0.68 - 0.84
Area Planted per Household

## 3.4 Permanent Crops

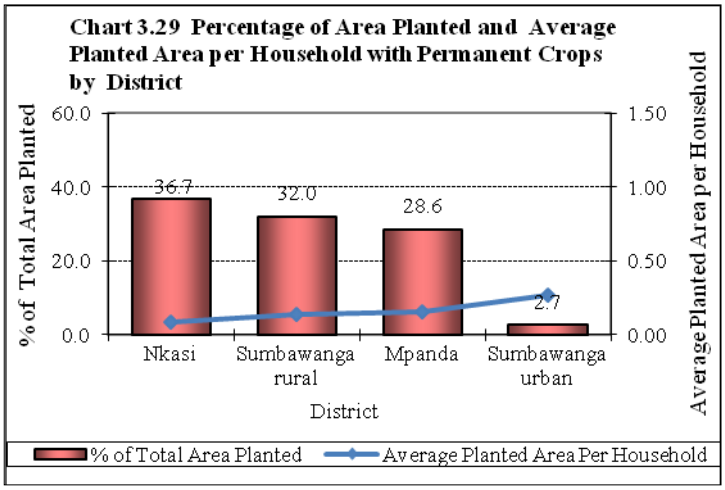
Permanent crops (sometimes referred to as perennial crops) are crops that normally take over a year to mature and once mature can be harvested for a number of years. For most crops, it is easy to determine if they are annual or permanent. However, for crops like cassava and bananas the distinction is not so clear. Cassava has varieties that mature within a year and produces only one harvest, whilst other varieties survive for more than one year and produces several harvests. In this census, cassava was treated as an annual crop. Conversely, bananas normally take less than a year to mature but survive for more than one year and are thus treated as a permanent crop.

In this report the agriculture census results are presented for the most important permanent crops in terms of production, yield and area planted. Previous censuses and surveys did not measure these percent variables for permanent crops, therefore no time series analysis is made in this section.The area of smallholders planted with permanent crops was 27,887 hectares (6.1% of the area planted with both annual and permanent crops in the region). However, the area planted with annual crops is not the actual physical land area as it double counts the area planted more than once in the same year whilst for the planted area for permanent crops is the same as physical planted land area. So the percentage physical area planted with permanent crops would be higher than indicated in, (Chart 3.28).




The most important permanent crop in Rukwa region was banana, 2,747 ha followed by sugar cane 1,401 ha, mango 603 ha, oranges 391 ha, palm oil 54 ha, coffee 19 and coconuts 5 ha, (Chart 3.28). The remaining permanent crops had very small planted areas each. The large proportion of land was taken by other crops which took about 22,668 ha which is 5.3 percent of the total land. The district with the largest area planted with permanent crops by

smallholders was Nkasi district (10,225 ha, 36.7%) followed by Sumbawanga Rural (8,934 ha, 32.0%), Mpanda (7,983 ha, 28.6%) and Sumbawanga Urban (746 ha, 2.7%). However, Sumbawanga Rural district had the largest area planted per permanent crop growing household (0.71 ha) followed by Nkasi (0.64), Mpanda (0.59 ha) and Sumbawanga Urban (0.29 ha), (Chart 3.29).



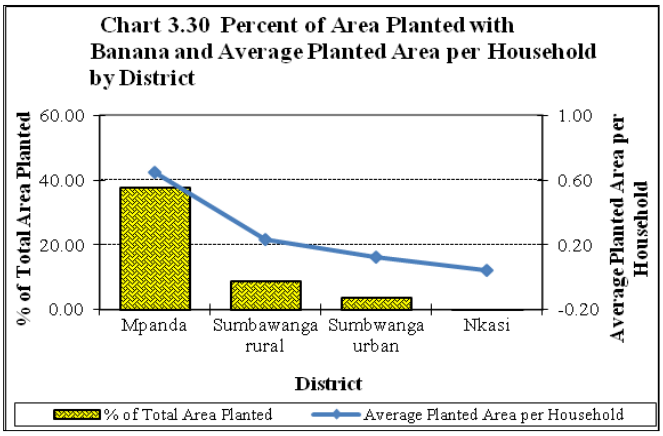

In terms of area of permanent crops planted expressed as a percentage of the total area planted with crops per district, Nkasi had the highest (36.7%) followed by Sumbawanga Rural (32.0%), Mpanda (28.6%) and Sumbawanga Urban (2.7%), Chart (3.29)

### 3.4.1 Sugarcane

The total production of sugarcane by smallholders was 26,826 tonnes. In terms of area planted, sugarcane was the second most important permanent crop grown by smallholders in the region. Sugarcane was grown by 2,568 households (0.5616% of the total crop growing households). The average area planted with sugarcane per household was relatively small at around 0.55 ha per sugarcane growing household and the average yield obtained by smallholders was (24,931 kg/ha) from a harvest area of 1076 hectares.

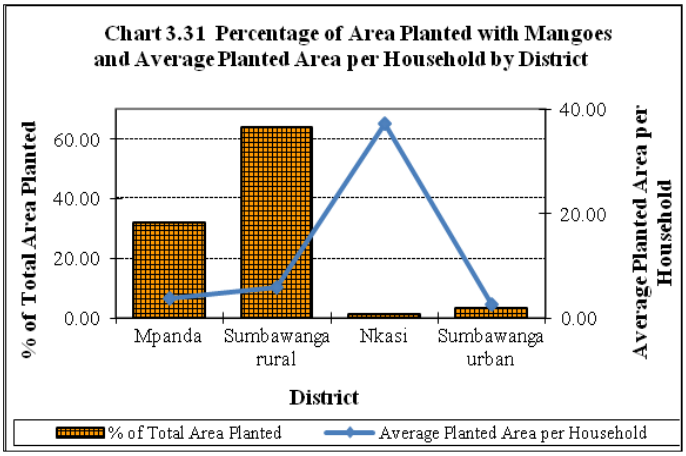
Sumbawanga Rural district had the largest area planted with sugarcane (883 ha, 63.0%) followed by Sumbawanga Urban (236 ha, 16.8%), Nkasi (143 ha, 10.2%) and Mpanda (139 ha, 9.9%). However, the average area planted with sugarcane per sugarcane growing household was highest in Sumbawanga Rural district (0.78 ha) followed by Nkasi (0.43 ha), Mpanda (0.39 ha) and Sumbawanga Urban (0.31 ha).

### 3.4.2 Banana



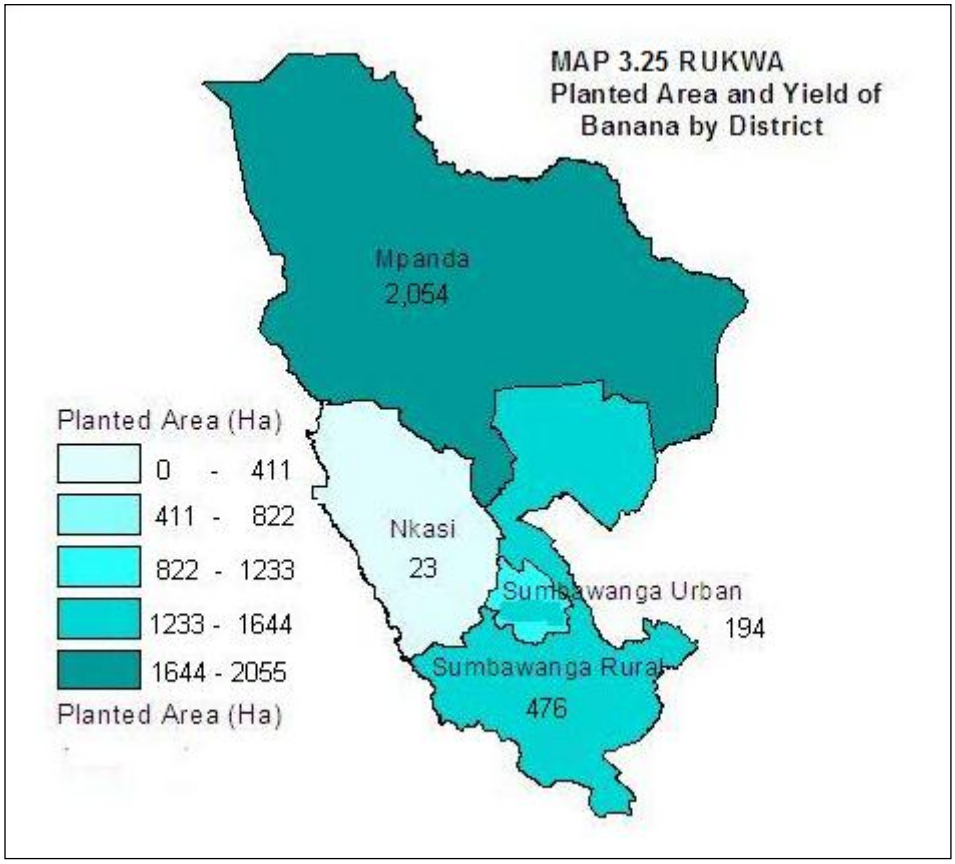

The total area planted with banana in Rukwa region was 2,747 ha. The crop was grown by 7,363 households (1.6% of the total crop growing households). The average area (Map 3.31) planted with banana per household was relatively small at around 0.37 ha per banana growing household and the average yield obtained by smallholders was 7.79 tonnes/ha from a harvested area of 1,966 hectares. Mpanda district had the largest planted area of bananas in the region (2,054 ha, 74.77%) followed by Sumbawanga Rural (476 ha, 17.32%), Sumbawanga Urban (194 ha, 7.07%) and Nkasi (23ha, 0.85%). The districts with largest area planted with banana per banana growing household was Mpanda (0.65), followed by Sumbawanga Rural (0.23), Sumbawanga Urban (0.12) and Nkasi (0.04), (Chart 3.30).

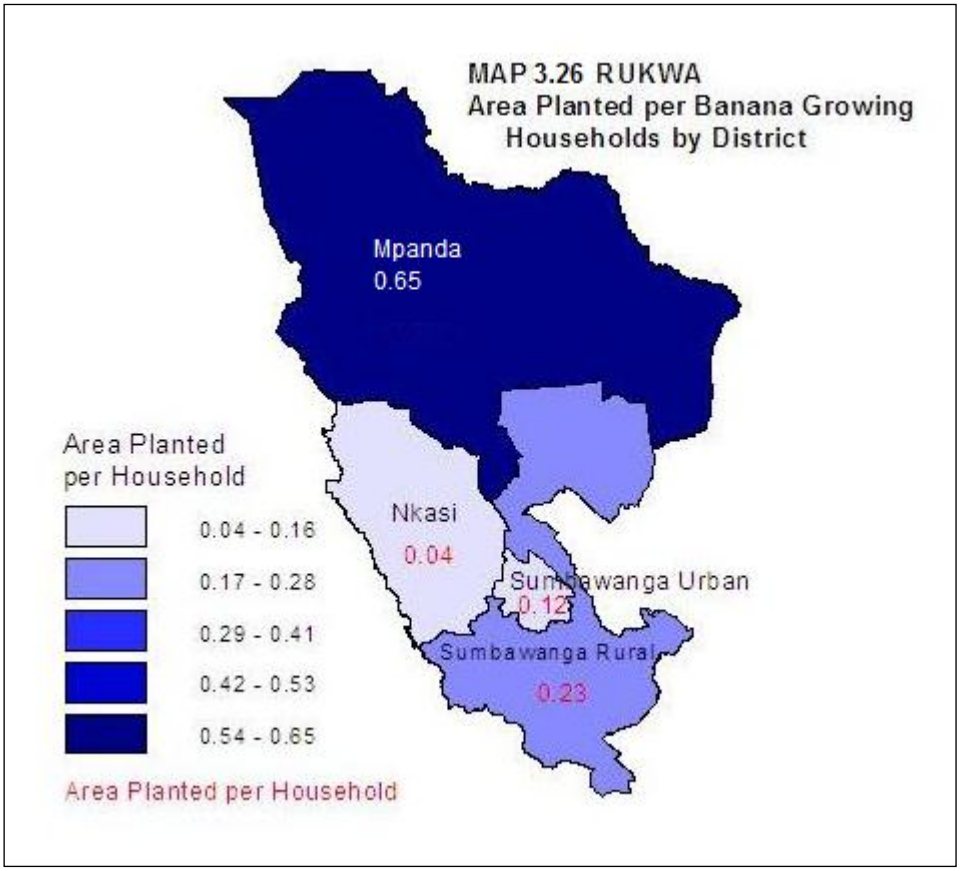
### 3.4.3 Mangoes




The total production of mangoes by smallholders was 2,092 tonnes. In terms of area planted, mango was the third most important permanent crop grown by smallholders in the region. It was grown by 3,227 households (0.71% of the total crop growing households). The average area planted with mangoe per household was relatively small at around 0.19 ha per mangoes growing household and the average yield obtained by smallholders was (4,865 kg/ha) from a harvested area of (430 ha).

Sumbawanga rural has the largest area of mangoes in the region (388 ha, 64.5%) followed by Mpanda (190 ha, 31.6%), Sumbawanga Urban (18 ha, 3.0% and Nkasi (6 ha, 1.0%). Moreover, Sumbawanga Urban district had the highest average planted area per mangoes growing household of (0.38 ha) followed Mpanda (0.27), Sumbawanga Rural (0.17 ha) and Nkasi (0.03 ha).


MAP 3.25 RUKWA
Planted Area and Yield of
Banana by District
Mpanda
2,054
Nkasi
23
Sumbawanga Urban
194
Sumbawanga Rural
476
Planted Area (Ha)
0 - 411
411 - 822
822 - 1233
1233 - 1644
1644 - 2055
Planted Area (Ha)


MAP 3.26 RUKWA
Area Planted per Banana Growing
Households by District
Mpanda
0.65
Nkasi
0.04
Sumbawanga Urban
0.12
Sumbawanga Rural
0.23
Area Planted
per Household
0.04 - 0.16
0.17 - 0.28
0.29 - 0.41
0.42 - 0.53
0.54 - 0.65
Area Planted per Household

## 3.5 Use of Inputs

### 3.5.1 Improved Seed Use

The planted area using improved seeds during the wet season was estimated at 35,288 ha which represents 8.3 percent of the total planted with the annual crops and vegetables during the season.

The area planted without using improved seeds was (391,051 ha, 92%). Mpanda had the largest area planted with improved seeds (17,999 ha, 50% of the planted area with improved seeds) followed by Sumbawanga Rural (12,611 ha 35%) Sumbawanga Urban (3,343 ha, 9%) and Nkasi (1,952 ha, 5%),

### 3.5.2 Inorganic Fertiliser Use

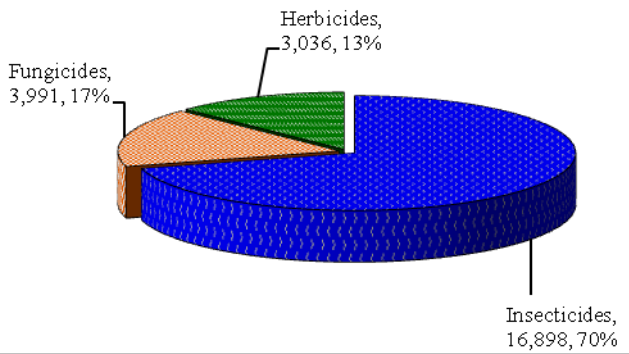
The total planted area applied with inorganic fertilisers in Rukwa region was 27,723 hectares which represents 6.5 percent of the total planted area with annual crops in the region and 70.8 percent of the total planted area with fertilisers. The number of households that applied inorganic fertilizer on their annual crops during the wet season was 20,028. Cereals had the largest area applied with inorganic fertilizers accounting about 68.3% of the total area applied with inorganic fertilizers, followed by cash crops (28.5%), pulses (1.8%), fruits and vegetables (1.2%) and roots and tubers (0.03%). However, the proportion of planted area applied with inorganic fertilizers was highest for cash crops at 79.9 percent followed by fruits & vegetables (13.1%), cereals (6.9%) and roots and tubers (0.2%).

Inorganic fertiliser was mostly used in Mpanda (67.9% of the total planted area in the district) followed by Sumbawanga Rural (23.7%), Sumbawanga Urban (6.3%) and Nkasi (2.1%).

### 3.5.3 Pesticide Use

Pesticides are chemicals used for controlling insects, diseases and weeds. This section analyses the use of these chemicals by smallholders on both annual and permanent crops in the region. Pesticides were applied to a

**Chart 3. 32 Planted Area (ha) by Pesticide Use**



planted area of 23,924 ha of annual crops and vegetables. Insecticides are the most common pesticide used in the region (70.6% of the total area applied with pesticides).This was followed by fungicide (16.7%) and herbicides (12.7%), (Chart 3.32).

### 3.5.3.1 Insecticide Use

The planted area applied with insecticides during the wet season was estimated at 16,510 hectares which represented 3.9 percent of the total planted area for annual crops and vegetables. Cereals had the largest planted area applied with insecticides (9,951 ha, 60.3% of the total planted area applied with insecticides) followed by cash crops (3,616 ha, 21.9%), pulses (2,491 ha, 15.1%) and fruits and vegetables (366 ha, 2.2%).

However, the proportion of area applied with insecticides was highest for cash crops and fruits and vegetables being 36.45% and 14.42% respectively, while in cereals the proportion was (3.41%), pulses (6.52%).

The annual crops with more than 50 percent insecticide use were maize (60.3%). The remaining annual crops used insecticides on less than 50 percent of the planted area Sumbawanga Urban had the highest percent of planted area with insecticides (23.3% of the total planted area with annual crops in the district). This was far followed by Sumbawanga Rural (3.1%), Mpanda (2.8%) and Nkasi (0.4%).

### 3.5.3.2 Herbicide Use

The planted area applied with herbicides was 1,519 hectares which represented 0.35 percent of the total planted area annual crops and vegetables. Cash crops had the largest planted area applied with herbicides (1,089 ha, 71.74 %) followed by cereals (384 ha, 25.30%) then fruits & vegetables (45 ha, 2.96%). No herbicides were applied on other crops.

### 3.5.3.3 Fungicide Use

The planted area applied with fungicides was 3,732 hectares which represented 0.87 percent of the total planted area for annual crops and vegetables. Cereals had the largest planted area applied with fungicides (1,549 ha, 41.5%) followed by cash crops (1,089 ha, 29.2%), fruits and vegetables (636ha, 17.0%), oil seed & oil nuts (374 ha, 10.0%) and pulses (84 ha, 2.3%).

The annual crop with more than 40 percent fungicide use was maize (40.36%).Tobacco had (28.37%), Groundnut (8.90%), Onion (4.75%), Tomatoes (4.04%) and Paddy (2.79%). Sumbawanga Rural had the highest percent of planted area applied with fungicides (1.25% of the total planted area with annual crops in the district) followed by Sumbawanga Urban (0.91%), Mpanda (0.80%) and Nkasi (0.14%).

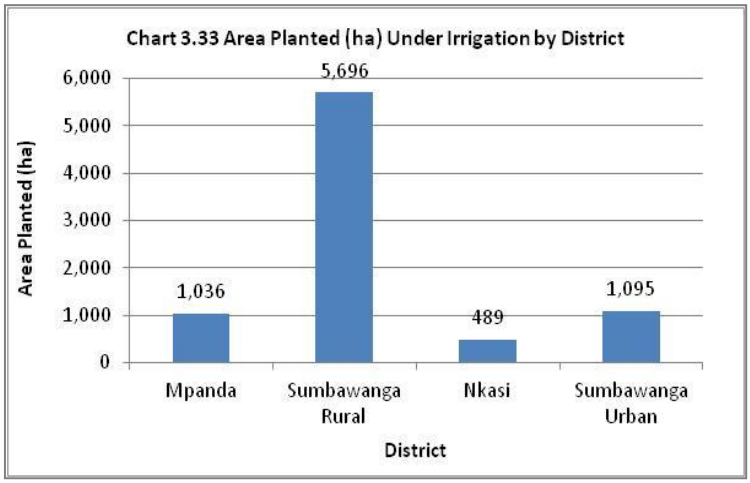
## 3.6 Irrigation

Water is the limiting factor to crop production in the majority of areas in Tanzania and without water most other agricultural practices applied to crops do not result in significant increases in yields. This section deals with the area under irrigation for different crops and the means by which water was extracted from the source and applied to the field.

### 3.6.1 Area Planted with Annual Crops and Under Irrigation

In Rukwa region, the area of annual crops under irrigation was (8,316 ha) representing 1.82 percent of the total area planted.

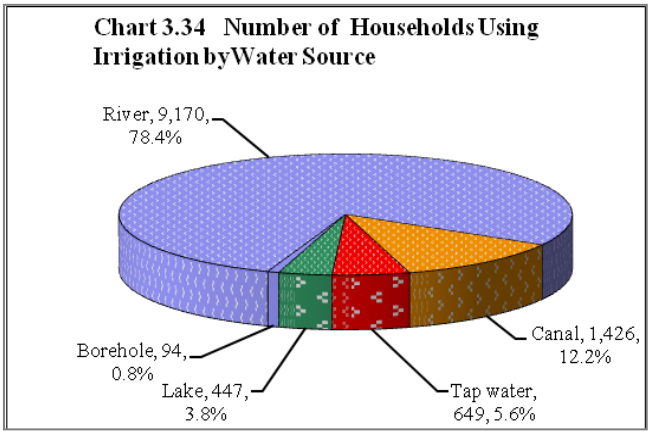
The district with the largest planted area under irrigation for annual crops was Sumbawanga Rural (5,696 ha, 68.5% of the total irrigated area under annual crops in the region). Sumbawanga Urban, (1095, 13.2%), Mpanda (1036 ha, 12.5%) and Nkasi (489, 5.9%), (Chart 3.33).




The number of agricultural households practicing irrigation in Rukwa region appears to have increased by (42.9%) from 8,958 agricultural households in 2002/03 to 12,800 in 2007/08.

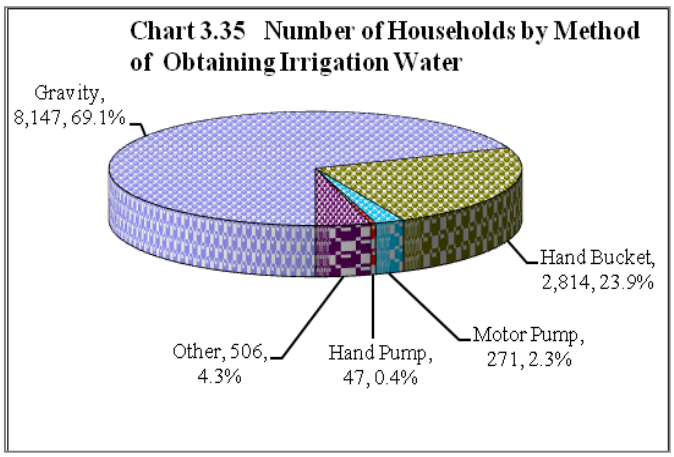
### 3.6.2 Sources of Water Used for Irrigation

The main source of water used for irrigation was from rivers (78.4% of households with irrigation). This was followed by canal (12.2%), tape water (5.6%), lake (3.8%), boreholes (0.8%), dam (0%) and wells (0%).




### 3.6.3 Methods of Obtaining Water for Irrigation

Gravity was the most common means of getting water for irrigation with 69.12 percent of households using this method. This was far followed by hand bucket with 23.87 percent of households. The remaining methods (hand pump, motor pump and others) were of minor importance (Chart 3.35).

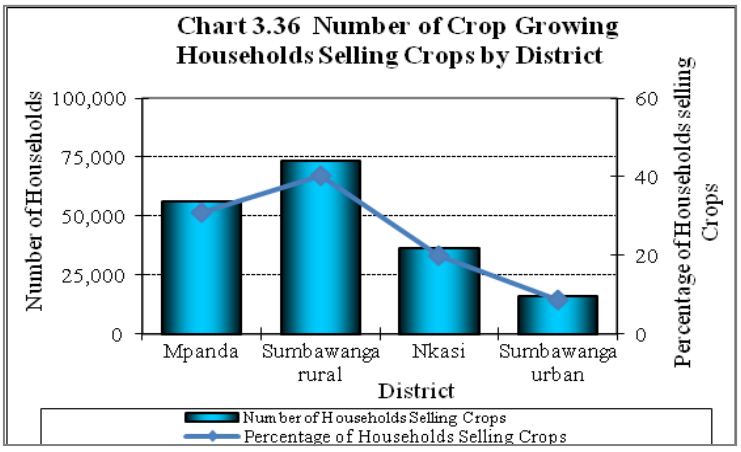



Gravity was used by most households with irrigation in Sumbawanga Rural (69%), followed by Sumbawanga Urban (16.7%), Mpanda (8.6%) and Nkasi (5.4%). Hand bucket was more common in Sumbawanga urban with 43.5 percent of households using the method to obtain water for irrigation, followed by Sumbawanga rural (31.9%), Mpanda (12.5%) and Nkasi (11.9%).

While the method of obtaining irrigation water by hand pumps was the most common method in Sumbawanga urban district, motor pump was the most common method of obtaining irrigation water in Mpanda and Sumbawanga Urban.

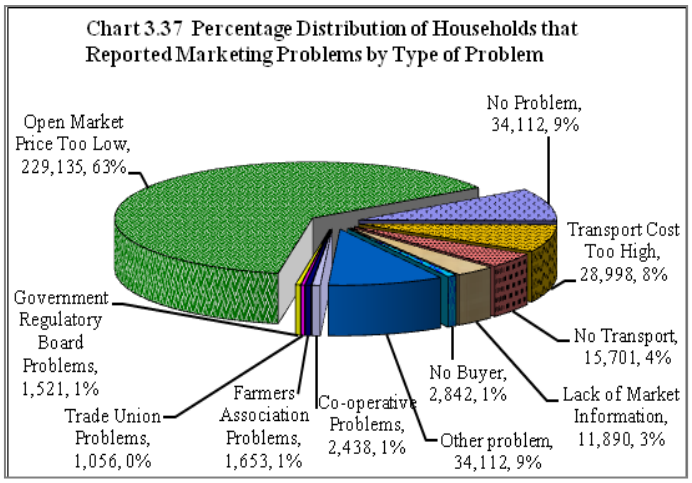
## 3.7 Crop Marketing and Marketing Problem

### 3.7.1 Crop Marketing




The number of households that reported selling crops was 182,019 which represent 80.53 percent of the total number of crop growing households. The percent of crop growing households selling crops was highest in Sumbawanga Rural (40.4%) followed by Mpanda (30.8%),Nkasi (20.0%) and Sumbawanga Urban (8.7%).

#### 3.7.1.1 Main Marketing Problems




Open market price too low for agricultural produce was the main marketing problem reported by most households (48.21% of crop growing households) followed by other (27.14%), no problem (7.15%), transport cost too high (6.14%), crop market too far (3.58%), no transport (3.33%), lack of market information (2.50%) and other marketing problems are minor and represented less than 1 percent of the total reported problems.

## 3.8 Access to Crop Production Services

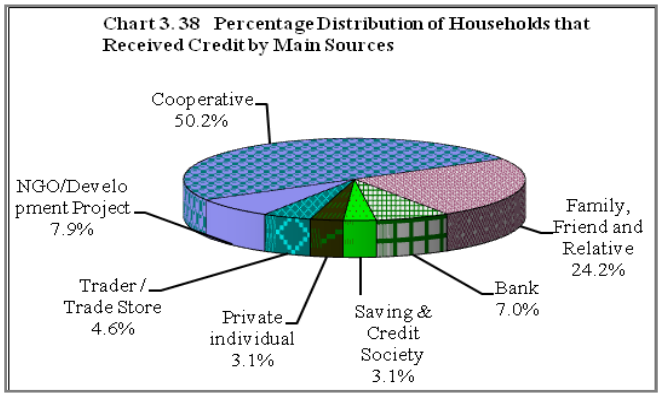
### 3.8.1 Access to Agricultural Credit

The census result shows that in Rukwa region very few agricultural households (7,277, 3.2% of the number of crop growing households) accessed credit out of which 6,187 (85.03%) were male-headed households and 1,090 (14.97%) were female-headed households. In Sumbawanga urban district only man-headed households got agricultural credit whereas in

Mpanda, Sumbawanga Rural and Sumbawanga districts both male and female headed households' accessed credit.

### 3.8.1.1 Source of Agricultural Credit

The major agricultural credit providers in Rukwa region were co-operatives who served 50.0%% of the total number of households that accessed creditfollowed by family, friends or relatives (24.2%), NGO/development (7.9%), banks (7.0%), trader/trade store (4.6%), private individual and saving & credit society each with (3.1%). Saving and credits saccos and private individual were the sole source of agricultural credit in Sumbawanga rural, Bank was the source of agricultural credit in Mpanda and Nkasi, and NGO/development project was the source in Mpanda and Sumbawanga urban, (Chart 3.38).




### 3.8.1.2 Reasons for Not Using Agricultural Credit

The main reason for not using agricultural credit as a source of finance was did not know how to get credit (26.9%), credits were not available (24.7%), don't know about credit (16.8%), did not want to go into debt (15.9%), and credit was not needed (7.0%). The rest of the reasons were less than 5 percent each.

### 3.8.2 Crop Extension

The number of Agricultural households that received crop extension was 110,159 (48.7% of total crop growing households in the region). Some districts had more access to extension services than others; with Sumbawanga urban having a relatively high proportion of households (72.0%) that received crop extension messages in the district followed by Mpanda (51.6%), Sumbawanga rural (47.3%) and Nkasi (37.8%), (Map 3.29).

#### 3.8.2.1 Sources of Crop Extension Messages

Of the households receiving extension advice the Government provided the largest proportion (76.7%, 84,476 households). The proportion by other sources were; Neighbour (24.7%), Radio/Television (17.8%), NGO/Development projects provided (10.1%), the remaining source of extension provided less than (6%) each.

## 3.9 Access to Inputs

Access to inputs in this section refers to all crop growing households in Tanzania regardless of whether the household grew annual or permanent crops. In previous sections the reference was to annual crops. Because of this, some of the figures presented in this section may be slightly different from those in previous section on insecticides inputs use (Section 3.5). Data on sources of inputs is only found in this section and it applies to both annual and permanent crops.

A small number of households use inputs and this is particularly true of inputs that are not produced on farm i.e., improved seeds, fungicides, inorganic fertiliser and herbicides. In Rukwa region farm yard manure was used by 225,976 households which represent 96.7 percent of the total number of crop growing households. This was followed by households using fungicides (26.5%), improved seed (13.5%), insecticide (7.6%), improved seeds (5.2%) and herbicide (1.8%)

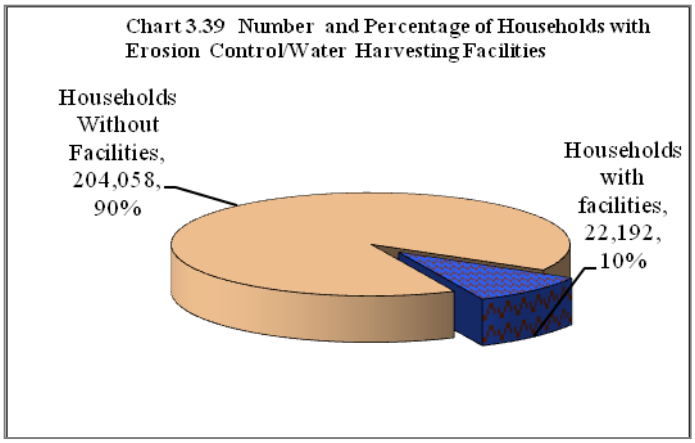
## 3.10 Improved Seeds

The percentage of households that used improved seeds was 13.6 percent of the total number of crop growing households.

The districts that mostly used improved seeds are Mpanda (57.6 percent of the total number of households using improved seeds in Rukwa region), followed by Sumbawanga Rural (23.5%) and Sumbawanga Urban (14.8%) and Nkasi (4.1%)

### 3.11 Irrigation and Erosion Control Facilities

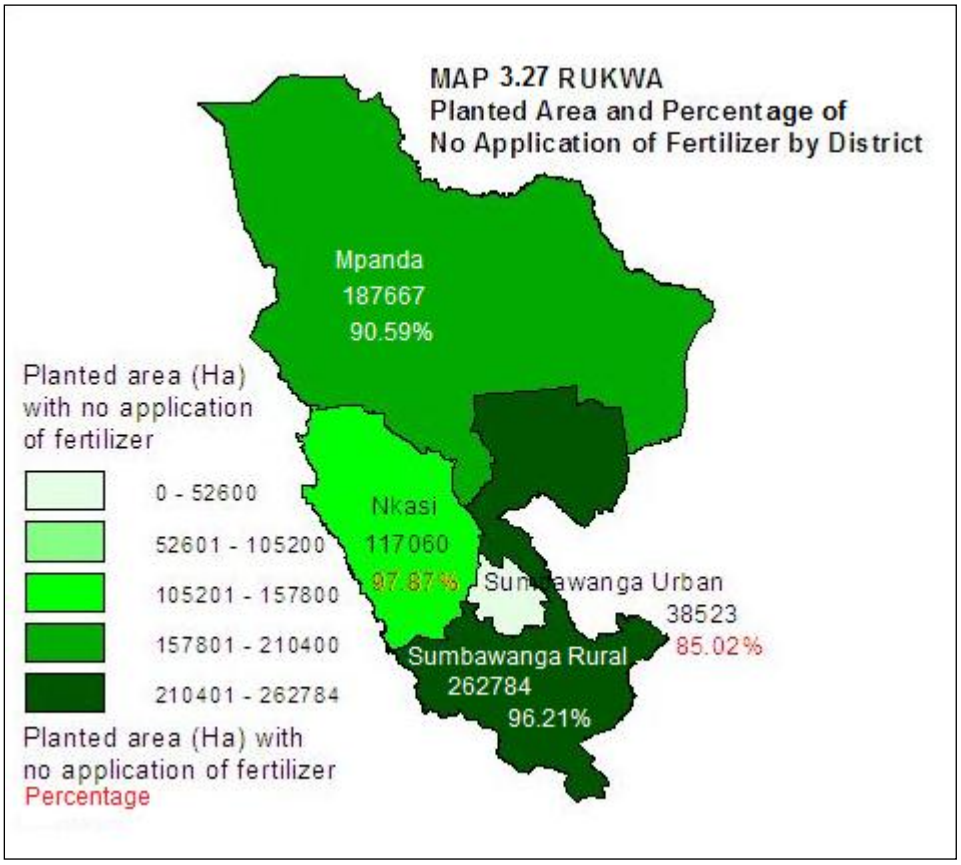
Erosion control and water harvesting facilities are grouped together as they normally have dual purposes of reducing erosion and increasing the amount of water available for crop production.The number of agricultural households that had soil erosion and water harvesting facilities on their farms was 22,192 which represent 10 percent of the total number of agricultural households in the region (Chart 3.39).

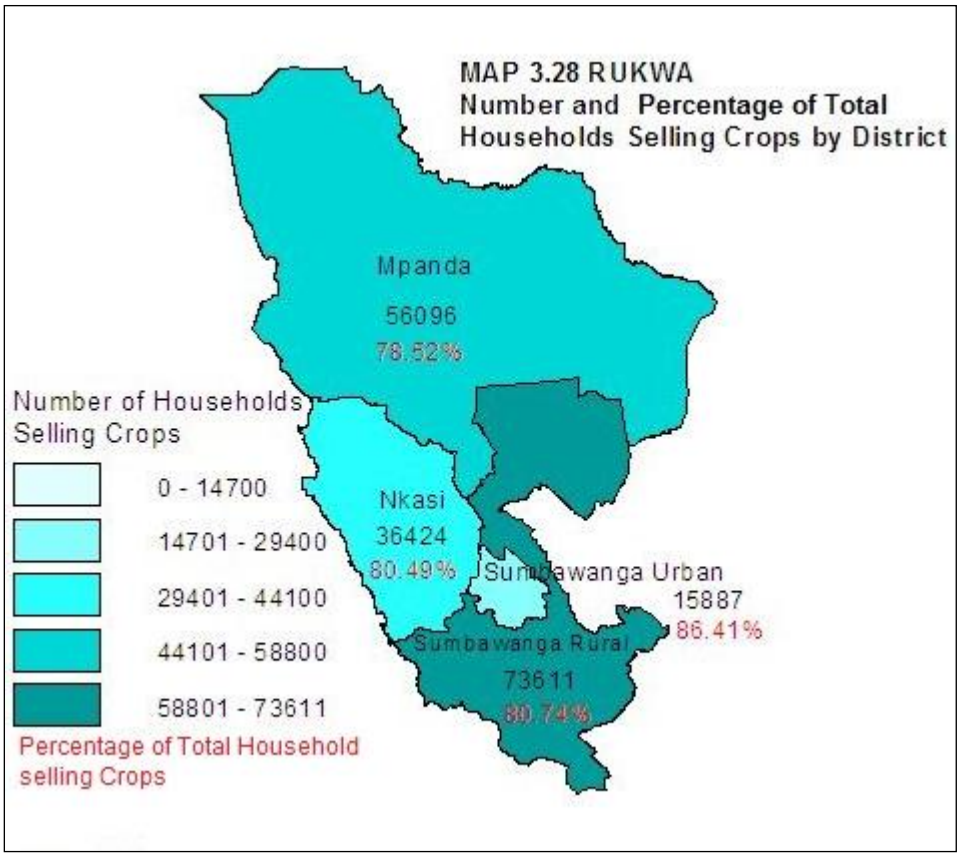


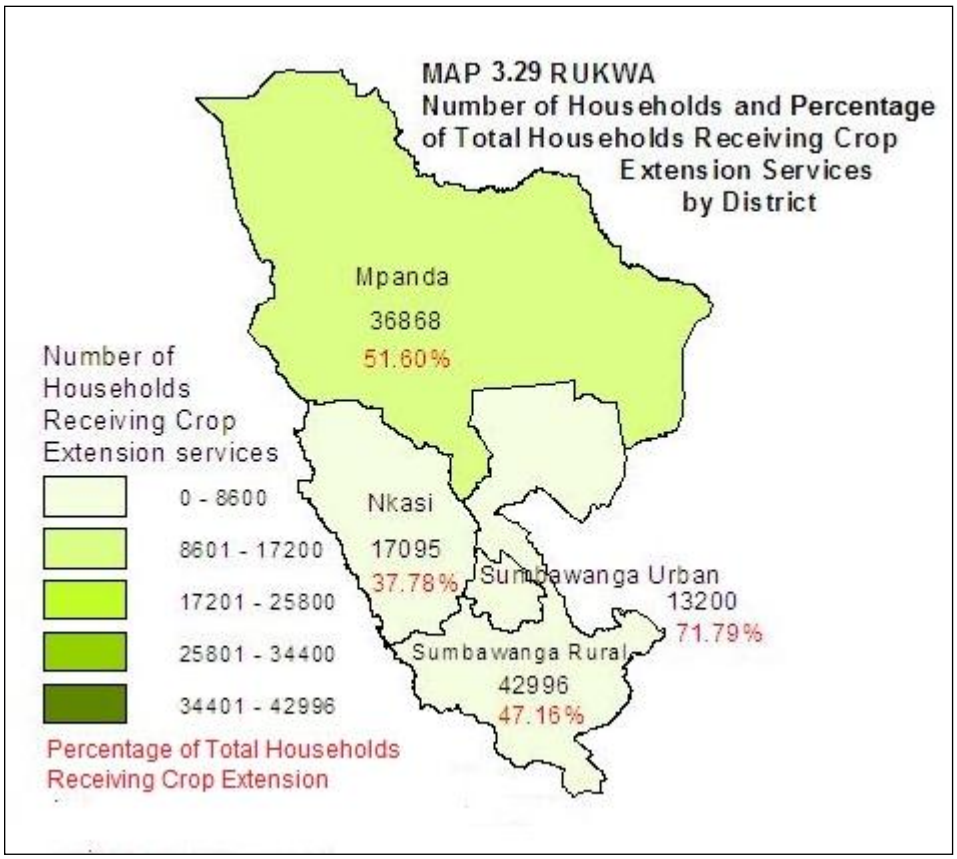

The proportion of households with soil erosion control and water harvesting facilities was highest in Sumbawanga Rural district (48.7%) followed by Nkasi (18.6%), Sumbawanga Urban (16.8%) and Mpanda (15.9%).

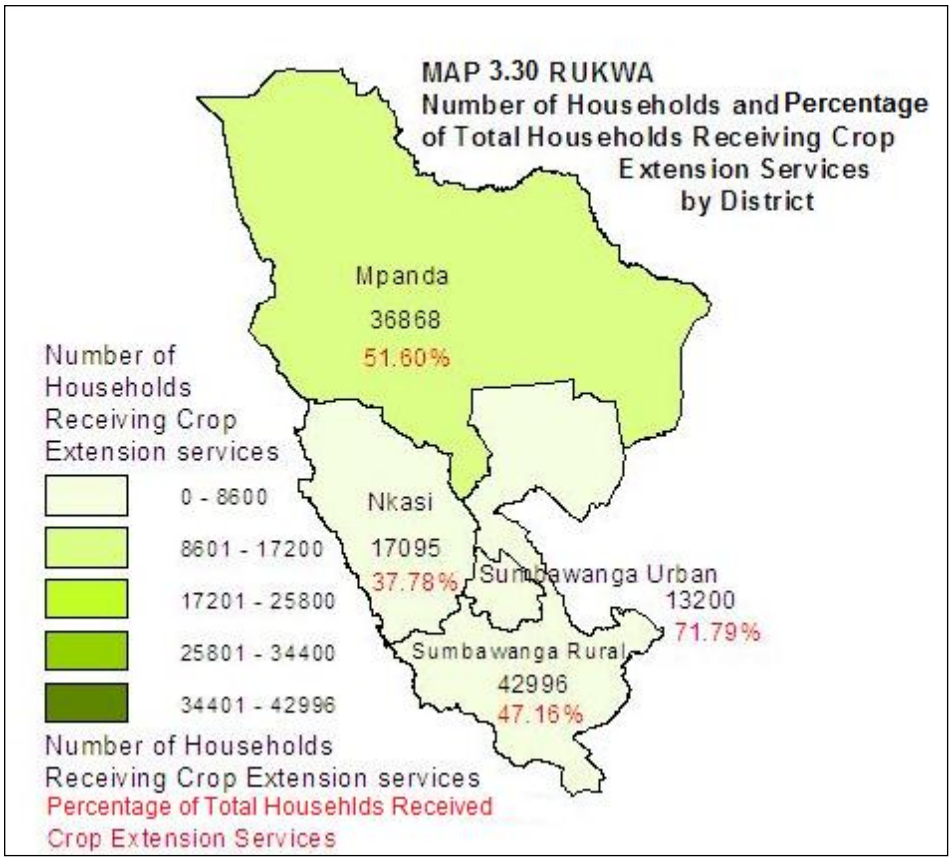
Erosion control bunds accounted for 34.6 percent of the total number of structures, followed by terraces (27.7%), water harvesting bunds (18.9%), tree belts (9.8%), drainage ditches (4.7%), vetiver grass (1.6%), gabions/sandbags (1.1%) and others (1.7%).

Erosion control bunds, water harvesting bunds and terraces together had 135,024 structures. This represented 81.2 percent of the total structures in the region. The remaining 18.8 percentages were shared among the rest of the erosion control methods mentioned above. Mpanda and Sumbawanga Rural districts had 111,560 erosion control structures which is equivalent to 67.11 percent of the total erosion structures in the region.


MAP 3.27 RUKWA
Planted Area and Percentage of
No Application of Fertilizer by District
Mpanda
187667
90.59%
Nkasi
117060
97.87%
Sumbawanga Urban
38523
85.02%
Sumbawanga Rural
262784
96.21%
Planted area (Ha)
with no application
of fertilizer
0 - 52600
52601 - 105200
105201 - 157800
157801 - 210400
210401 - 262784
Planted area (Ha) with
no application of fertilizer
Percentage


MAP 3.28 RUKWA
Number and Percentage of Total
Households Selling Crops by District
Mpanda
56096
78.52%
Nkasi
36424
80.49%
Sumbawanga Urban
15887
86.41%
Sumbawanga Rural
73611
80.74%
Number of Households
Selling Crops
0 - 14700
14701 - 29400
29401 - 44100
44101 - 58800
58801 - 73611
Percentage of Total Household
selling Crops


MAP 3.29 RUKWA
Number of Households and Percentage of Total Households Receiving Crop Extension Services by District
Mpanda
36868
51.60%
Nkasi
17095
37.78%
Sumbawanga Urban
13200
71.79%
Sumbawanga Rural
42996
47.16%
Number of Households Receiving Crop Extension services
0 - 8600
8601 - 17200
17201 - 25800
25801 - 34400
34401 - 42996
Percentage of Total Households Receiving Crop Extension

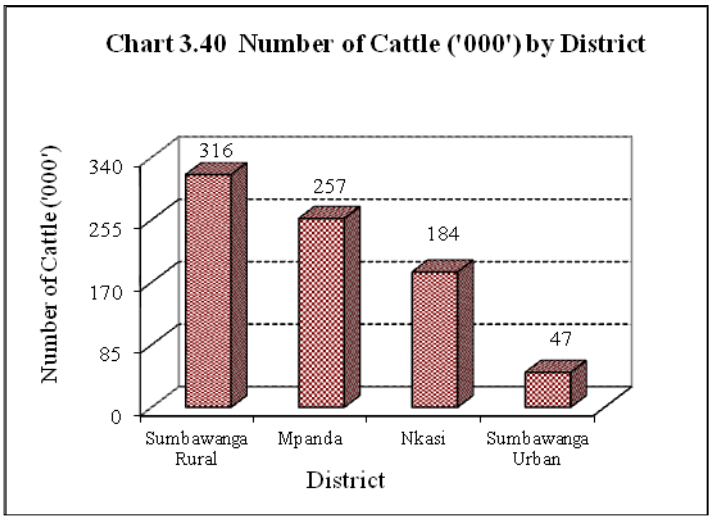

MAP 3.30 RUKWA
Number of Households and Percentage of Total Households Receiving Crop Extension Services by District
Mpanda
36868
51.60%
Nkasi
17095
37.78%
Sumbawanga Urban
13200
71.79%
Sumbawanga Rural
42996
47.16%
Number of Households Receiving Crop Extension services
0 - 8600
8601 - 17200
17201 - 25800
25801 - 34400
34401 - 42996
Number of Households Receiving Crop Extension services
Percentage of Total Households Received Crop Extension Services

## 3.12 LIVESTOCK RESULTS

### 3.12.1 Cattle Production

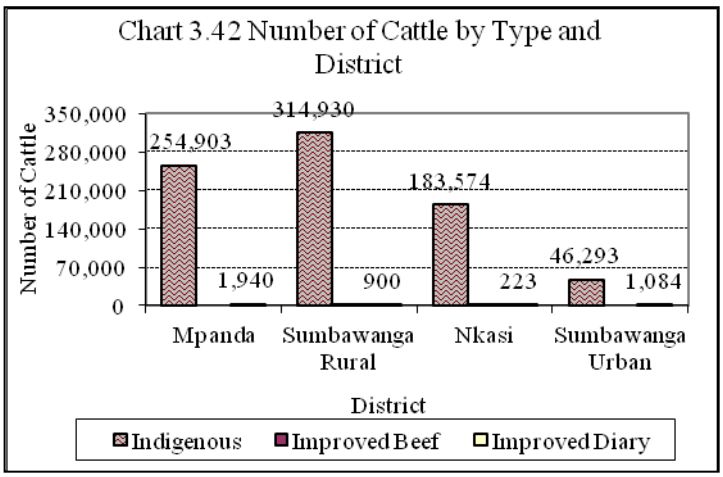
The total number of cattle in the region was 804,411. Cattle were the most dominant livestock type in the region followed by goats, sheep and pigs. The region had 3.8 percent of the total cattle population on Tanzania Mainland.

#### 3.12.1.1 Cattle Population




The number of indigenous cattle in Rukwa region was 799,700 (99.4 % of the total number of cattle in the region). The number of improved dairy breeds was 4,149 cattle (0.5%) and that of improved beef was 562 cattle (0.1%). The census results show that 68,944 agricultural households in the region (30.5% of total agricultural households) kept 804,411 cattle. Therefore, the average number of cattle per household was 11.

Sumbawanga Rural had the largest number of cattle in the region and most of them were indigenous. The numbers of dairy and beef cattle were very small in the district. Mpanda district had the largest number of dairy cattle in the region. In general, the number of beef cattle in the region was insignificant (Chart 3.42).



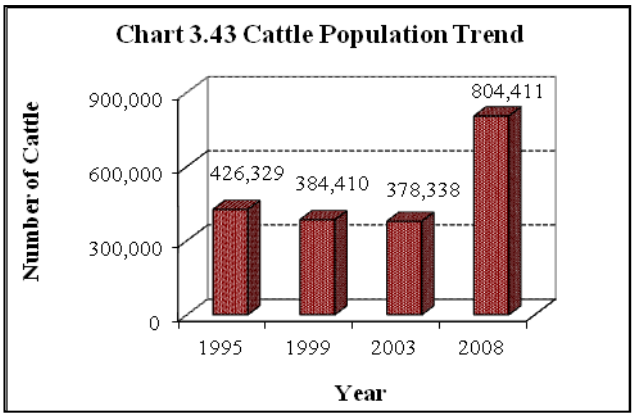
### 3.12.1.2 Herd Size

Sixty one percent of the cattle-rearing households had herds of size 1-5 cattle with an average of three cattle per household. Herd sizes of 6-30 accounted for about 33.7 percent of all cattle in the region. Only 5.1 percent of the cattle rearing households had herd sizes of 31- 100 cattle. About 93 percent of cattle rearing households had herds of size 1-30 cattle and owned 47.7 percent of total cattle in the region, resulting in an average of 6 cattle per cattle rearing household.

There were about 400 households with a herd size of more than 151 cattle each (92,557 cattle in total) resulting in an average of 231 cattle per household.

### 3.12.1.3 Cattle Population Trend

Cattle population in Rukwa decreased during the period of eight years from 426,329 in 1995 to 378,338 cattle in 2003. This trend depicts an overall annual negative growth rate of -1.48 percent.




However, the 2007/08 results shows that for the period of five years from 2003 to 2008 the population of cattle has increased at the rate of 16 percent whereby the number increased from 378,338 cattle to 804,411 cattle (Chart 3.43).

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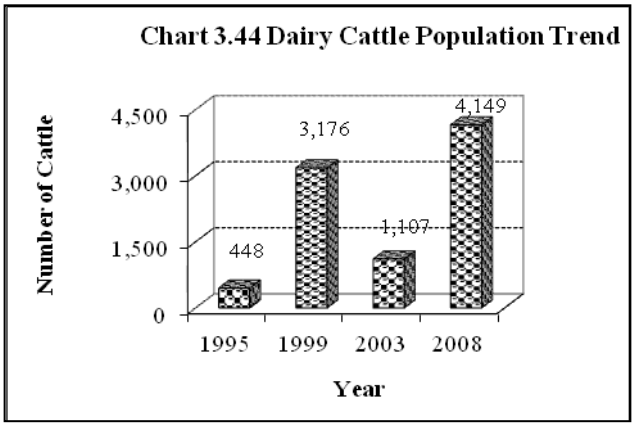
### 3.12.1.4 Improved Cattle Breeds

The total number of improved cattle in Rukwa region was 4,711 (4,149 dairy and 562 improved beef). The dairy cattle constituted 0.5 percent of the total cattle and 88.1 percent of improved cattle in the region. The number of beef cattle in the region was insignificant constituting only 11.9 percent of the total number of the



improved cattle and 0.1 percent of the total cattle. The number of improved cattle increased from 1,107 in 2003 to 4,711 in 2008 at an annual growth rate of 0.34 (Chart 3.44).

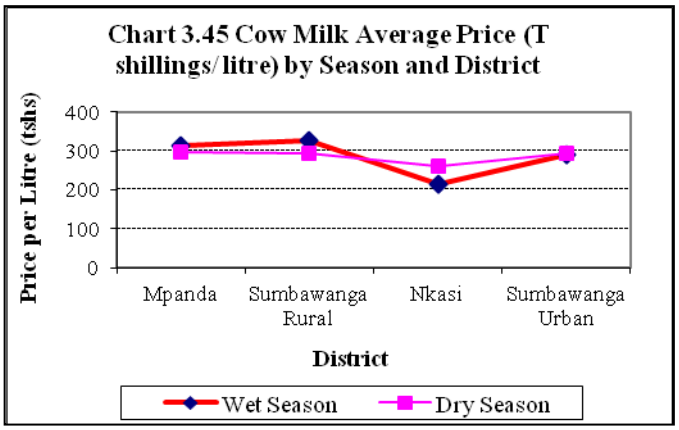
### 3.12.1.5 Cattle Milk Production

During 2007/08 the total milk production in the region was 64,207,135 litres. Out of this 42,121,482 litres (65% of the total milk produced in wet and dry seasons) were produced in wet season and only 22,085,653 litres (34.4%) were produced in the dry season. The total milk production for indigenous (62,123,272 litres) type was higher than that of improved breed (2,083,863 litres) in the two seasons. However the average milk production per cow per day in the region was higher for improved breed (6 litres in wet season) than for indigenous (3 litres in wet season). The lactation length was 137 and 104 days in the wet season for improved and indigenous breed respectively and 147 and 93 days in the dry season, Table 3.7.

**Table 3.7 Milk Production by Season, Category of Cattle and District During 2007/08 Agricultural Year**

| District | Average Milk Production per cow per day | | | | Total Milk Production | | | | Total |
|---|---|---|---|---|---|---|---|---|---|
| | Wet Season | | Dry Season | | Wet Season | | Dry Season | | |
| | Improved Breed | Indigenous | Improved Breed | Indigenous | Improved Breed | Indigenous | Improved Breed | Indigenous | |
| | Litres | Litres | Litres | Litres | Litres | Litres | Litres | Litres | |
| Mpanda | 6 | 3 | 4 | 2 | 452,769 | 15,608,582 | 286,656 | 8,973,671 | 25,321,678 |
| Sumbawanga Rural | 4 | 3 | 0 | 2 | 37,819 | 9,277,998 | 0 | 3,335,169 | 12,650,986 |
| Nkasi | 5 | 4 | 4 | 3 | 217,875 | 20,790,042 | 156,423 | 13,087,544 | 34,251,884 |
| Sumbawanga Urban | 7 | 3 | 6 | 2 | 476,038 | 946,574 | 341,212 | 666,915 | 2,430,740 |
| **Total** | **6** | **3** | **5** | **2** | **1,303,093** | **40,818,389** | **780,770** | **21,304,883** | 64,207,135 |

The district with the highest production of milk was Nkasi (34,251,884 litres), followed by Mpanda (25,321,678 litres), Sumbawanga Rural (12,650,986 litres) and the least production was in Sumbawanga Urban (2,430,740 litres).




Milk prices varied between district and for the majority of the districts, the prices of milk fluctuated between Tsh. 213 and Tsh.326 for the wet season and Tsh. 282 to

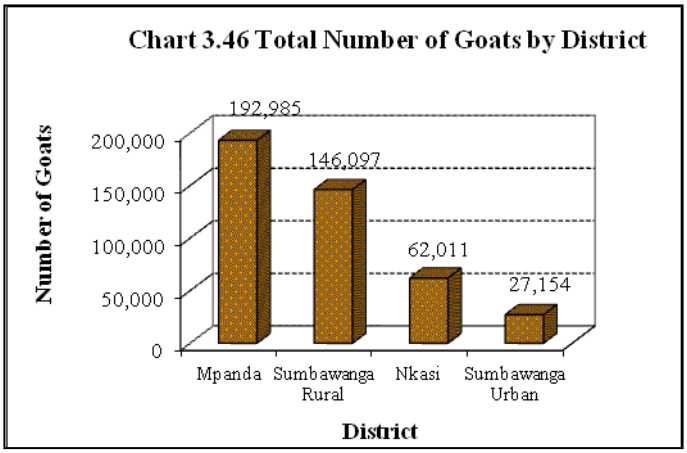
Tsh. 301 in dry season, whereby the minimum prices were Tsh 213 in the wet season and increased to Tsh.282 during the dry season. Highest prices were observed in Sumbawanga Rural where a litre of milk was sold at Tsh.326 during the wet season (Chart 3.45).

### 3.12.2 Goat Production

Goat rearing was the second most important livestock keeping activity in the region followed by sheep and pig rearing. In terms of total number of goats on the Mainland, Rukwa region ranked 14th out of the 21 regions with 2.8 percent of the total goats on the Mainland.

#### 3.12.2.1 Goat Population

The number of goat-rearing-households in Rukwa region was 56,556 (25% of all agricultural households in the region) with a total of 428,247 goats giving an average of 8 heads of goat per goat-rearing-household. Mpanda district had the largest number of goats 192, 985 (45.1% of all goats in the region) followed by Sumbawanga Rural (146,097 goats, 34.1%) and Nkasi (62,011 goats, 14.5%). Sumbawanga Urban district had the least number of goats (27,154 goats, 6.3%), (Chart 3.46). However both Sumbawanga Urban and Sumbawanga Rural districts had the highest density of goats (22 head per square km) each .




#### 3.12.2.2 Goat Flock Size

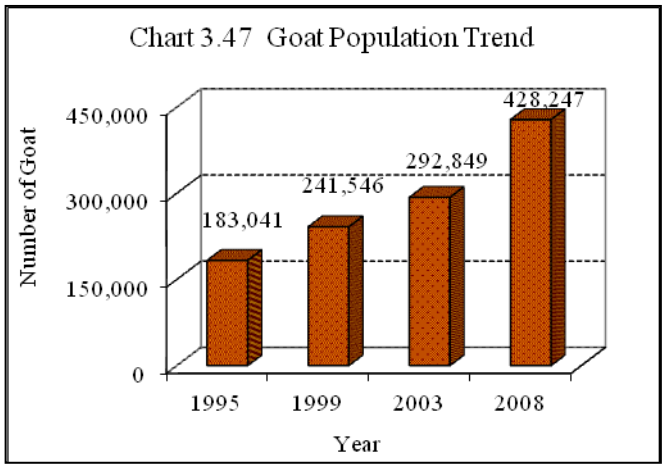
About 80.1percent of the goat-rearing households had flock size of 1-4 goats with an average of 2 goats per goat rearing household, while 97.7 percent of the total goat-rearing households had flock size of 1-14 goats and accounted for 83.5 percent of the total goats in the region resulting in an average of 3 goats per goat-rearing household. The region had 224 households (0.2%) with flock size of 40 or more goats, rearing a total of 13,413 goats, resulting in an average of 60 goats per household.

### 3.12.2.3 Goat Breeds

Goat husbandry in the region was dominated by the indigenous breeds that constituted 95.9 percent of the total goats in the region. Improved goats for meat and diary goats constituted 0.3 and 3.9 percent of total goats respectively.

### 3.12.2.4 Goat Population Trend

The overall annual growth rate of goat population from 1995 to 2003 was 6.05 percent. This positive trend implies eight years of population increase from 183,041 in 1995 to 292,849 in 2003. The number of goats increased from 183,041 in 1995 at an estimated annual rate of 7.18 percent to 241,546 in 1999. From 2003 to 2008, the goat population increased at an annual rate of 7.9 percent resulting to an increase in the number of goats from 292,849 in 2003 to 428,247 in 2008 (Chart 3. 47).

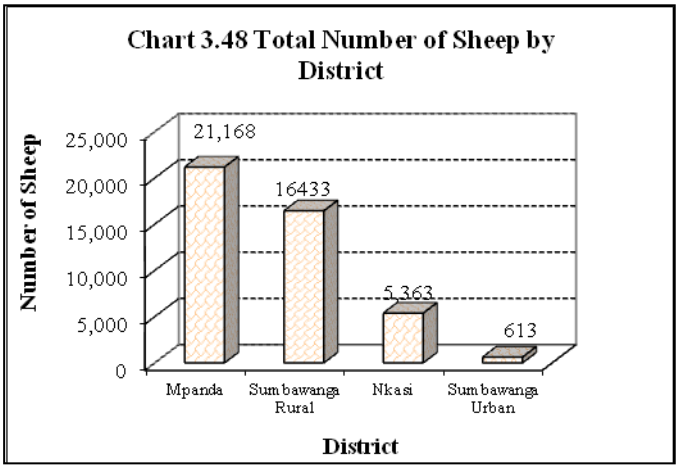



### 3.12.3 Sheep Production

Sheep rearing was the third important livestock keeping activity in Rukwa region after cattle and goats. The region ranked 16 out of 21 Mainland regions and had 0.8 percent of all sheep on Tanzania Mainland.

### 3.12.3.1 Sheep Population

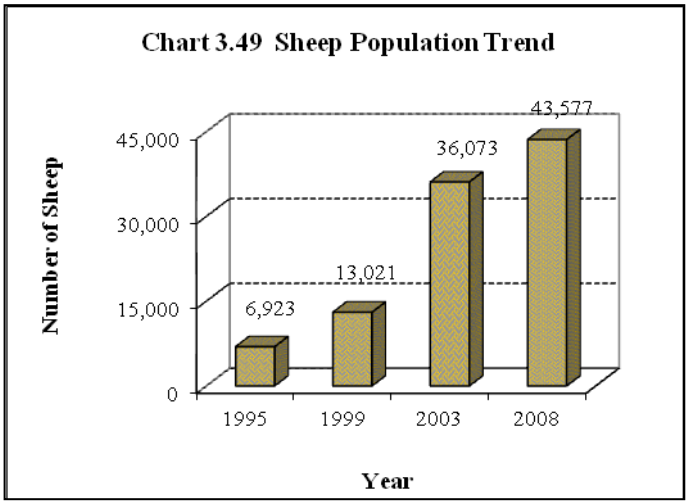
The total number of sheep in Rukwa region was 43,577 kept by 5,835 households (2.6%) resulting to an average of 7 sheep per household. The district with the largest number of sheep was Mpanda with 21,168 sheep (49% of



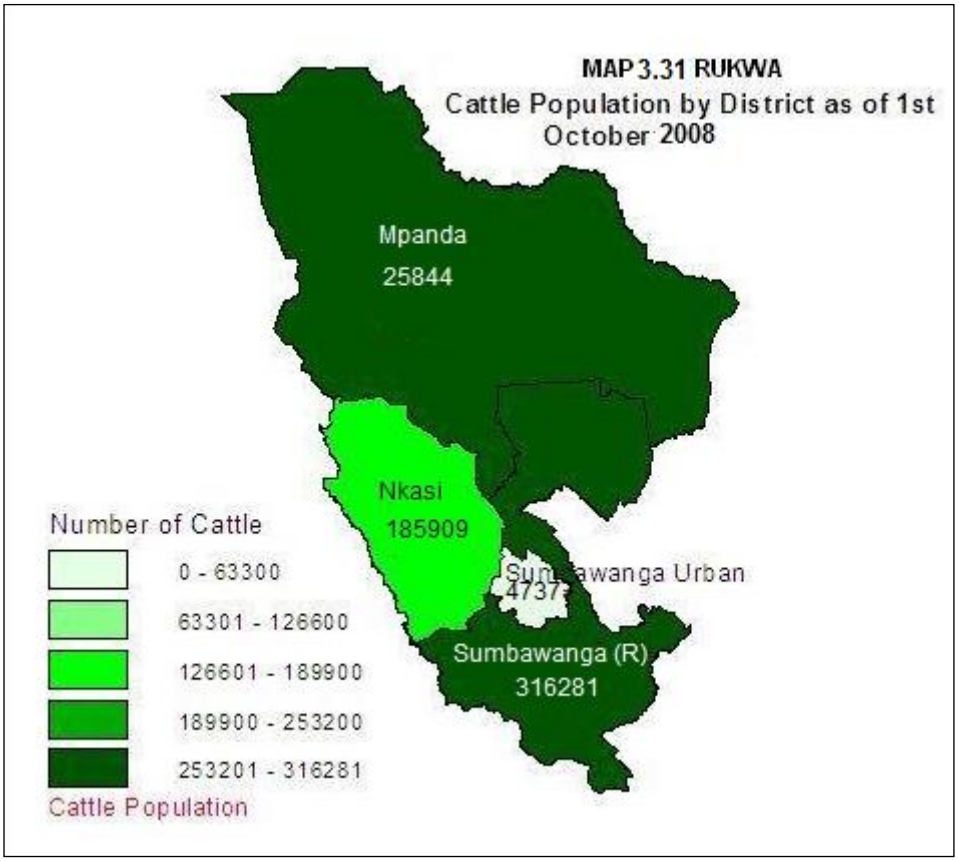
total sheep in Rukwa region) followed by Sumbawanga Rural (16,433 sheep, 38%) and Nkasi (5,363 sheep, 12%). Sumbawanga Urban district had the least number of sheep (613 sheep, 1%) (Chart 3.48)

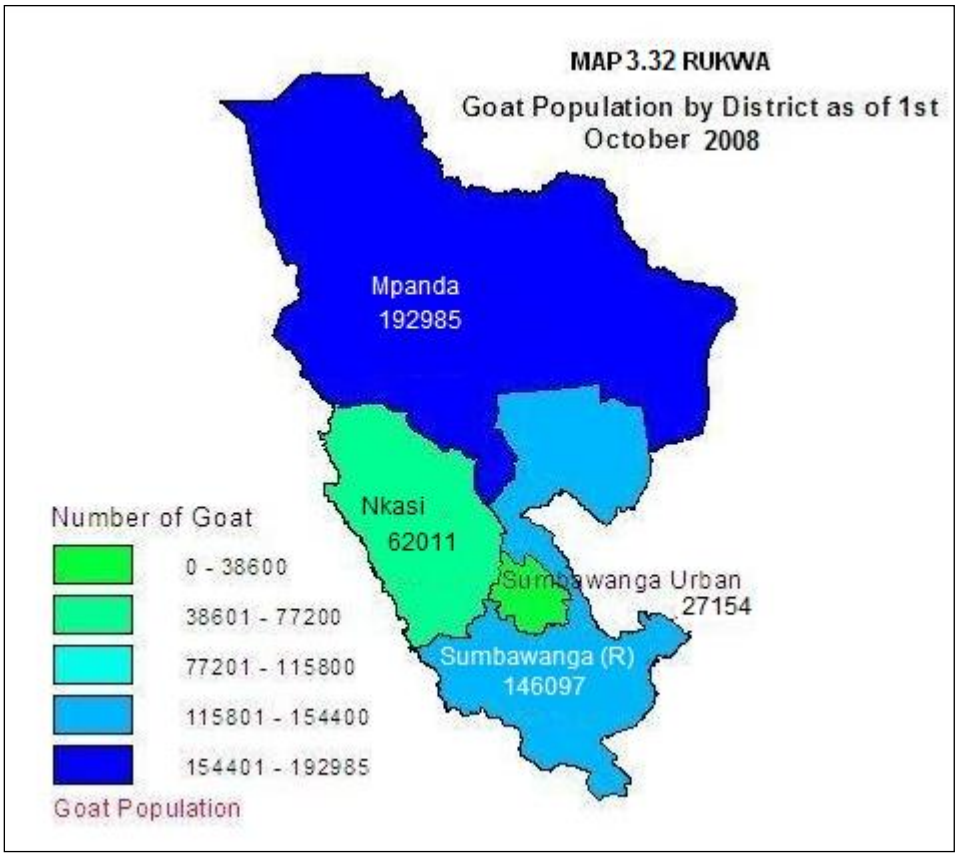
Sumbawanga Rural and Nkasi districts also had the highest density (2 head per km2) each. All sheep kept were indigenous breed.

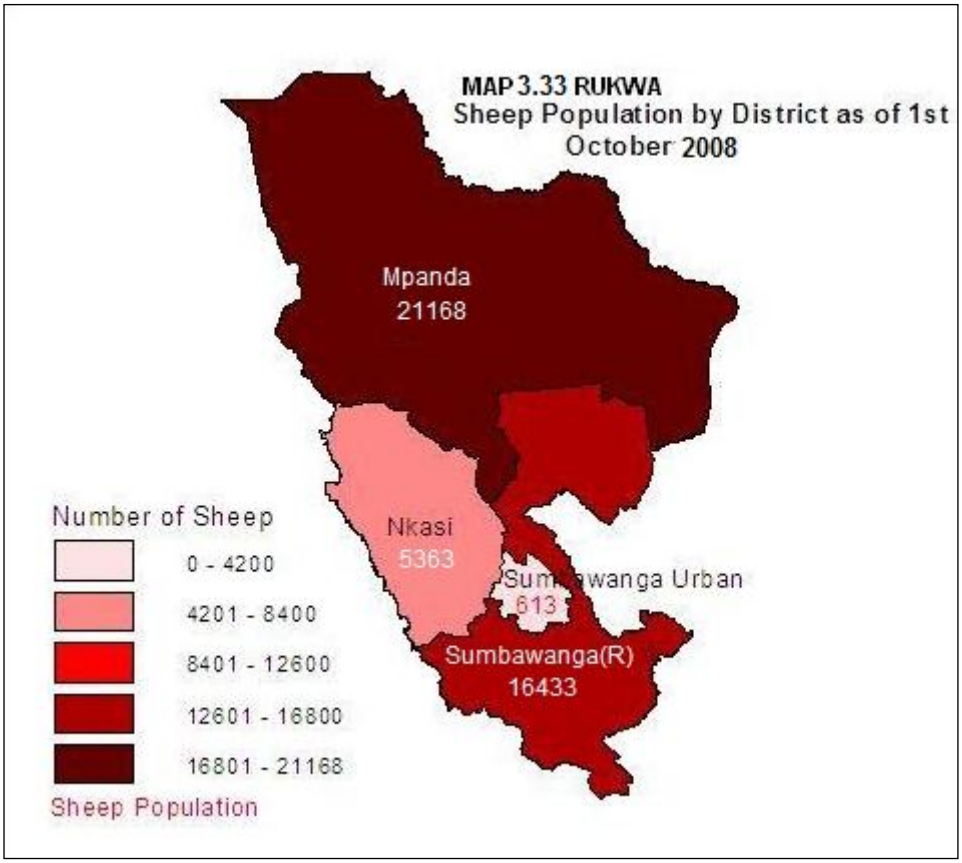
### 3.12.3.2 Sheep Population Trend




The overall annual growth rate of the sheep population for the eight year period from 1995 to 2003 is estimated at 22.92 percent. The population increased at an annual rate of 17.11 percent from 6,923 in 1995 to 13,021 in 1999. From 1999 to 2003, sheep population increased at an annual rate of 22.92 percent. However there was an increasing trend in the population of sheep from 36,073 in 2003 to 43,577 in 2008 at a rate of 3.9 percent, (Chart 3.49).

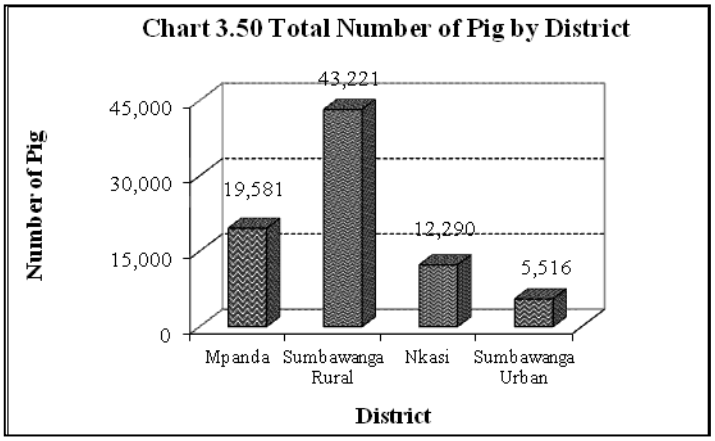

MAP 3.31 RUKWA
Cattle Population by District as of 1st October 2008
Mpanda
25844
Nkasi
185909
Sumbawanga Urban
4737
Sumbawanga (R)
316281
Number of Cattle
0 - 63300
63301 - 126600
126601 - 189900
189900 - 253200
253201 - 316281
Cattle Population


MAP 3.32 RUKWA
Goat Population by District as of 1st October 2008
Mpanda
192985
Nkasi
62011
Sumbawanga Urban
27154
Sumbawanga (R)
146097
Number of Goat
0 - 38600
38601 - 77200
77201 - 115800
115801 - 154400
154401 - 192985
Goat Population


MAP 3.33 RUKWA
Sheep Population by District as of 1st October 2008
Mpanda
21168
Nkasi
5363
Sumbawanga Urban
613
Sumbawanga(R)
16433
Number of Sheep
0 - 4200
4201 - 8400
8401 - 12600
12601 - 16800
16801 - 21168
Sheep Population

### 3.12.4 Pig Production

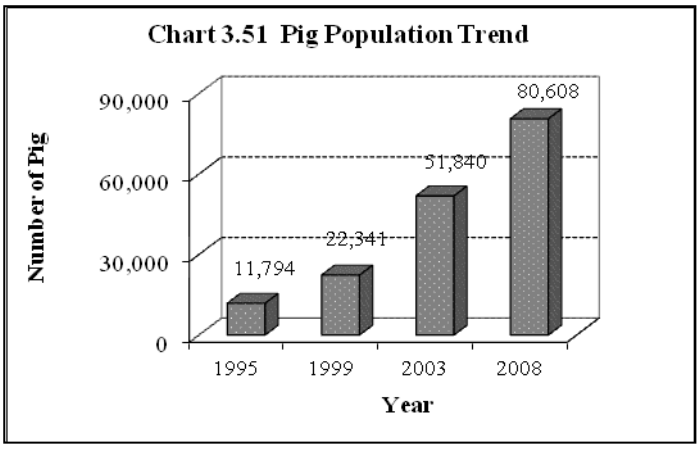
Piggery was the least important livestock keeping activity in the region after cattle, goats and sheep. The region ranked 8th out of 21 Mainland regions and accounted for 5.1 percent of the total pigs on the Mainland.




The number of pig-rearing agricultural households in Rukwa region was 19,834 (8.8% of the total agricultural households in the region) rearing 80,608 pigs. This gives an average of 4 pigs per pig-rearing household. The district with the largest number of pigs was Sumbawanga Rural with 43,221 pigs (53.6% of the total pig population in the region) followed by Mpanda (19,581 pigs, 24.3%), Nkasi (12,290 pigs, 15.2%), and Sumbawanga Urban (5,516 pigs, 6.8%), (Chart 3.50). However Sumbawanga Urban district had the highest density (3.6 head per km2)

#### 3.12.4.1 Pig Population Trend

The overall annual growth rate of the pig population over the eight years period from 1995 to 2003 was 20.33 percent. During this period the population grew from 11,794 to 51,840. The pig population increased from 51,840 in 2003 to 80,806 in 2008 at a rate of 9.2 percent (Chart 3.51).

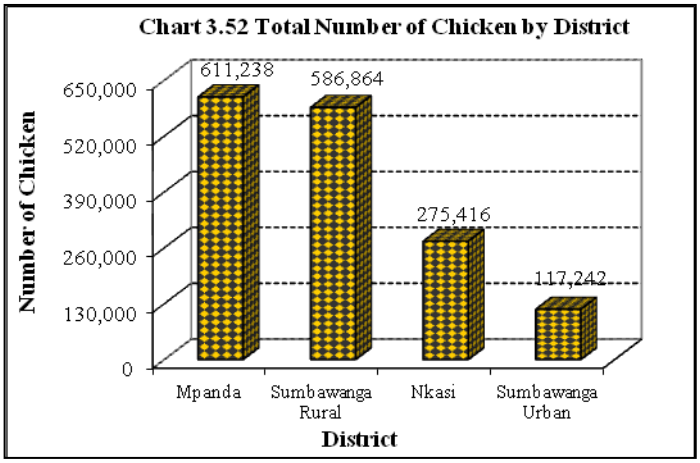


### 3.12.5 Chicken Production

The poultry sector in Rukwa region was dominated by chicken production. The region contributed 3.8 percent to the total chicken population on Tanzania Mainland.

#### 3.12.5.1 Chicken Population

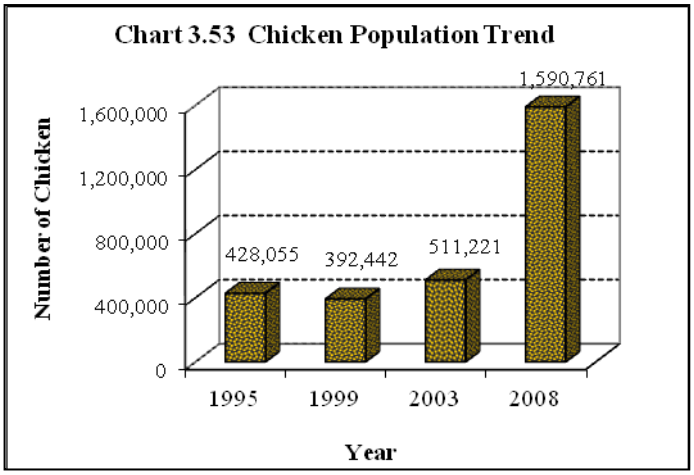
The number of households keeping chicken was 147,818 raising about 1,590,761 chicken. This gives an average of 11chicken per chicken-rearing household. In terms of total number of chicken in the country, Rukwa region was ranked fourteenth out of the 21 Mainland regions.




The District with largest number of chicken was Mpanda (611,238 chicken, 38,4% of the total number of chickens in the region) followed by Sumbawanga Rural (586,864 36.9%) and Nkasi (275,416, 17.3%). Sumbawanga Urban district had the least number of chicken (117,242, 7.4%), (Chart 3.52). However Sumbawanga Urban district had the highest density (90 chicken per km 2)

#### 3.12.5.2 Chicken Population Trend

The overall annual chicken population growth rate during the eight-year period from 1995 to 2003 was 2.24 percent. The population decreased at a rate of -2.15 percent from 1995 to 1999 after which it increased at a rate of 6.83 percent for the four years period from 1999 to 2003. The annual growth rate between 2003 and 2008 census periods was 25.5 percent equivalent to an increase of chicken population from 511,221 to 1,590,761. (Chart 3.53)

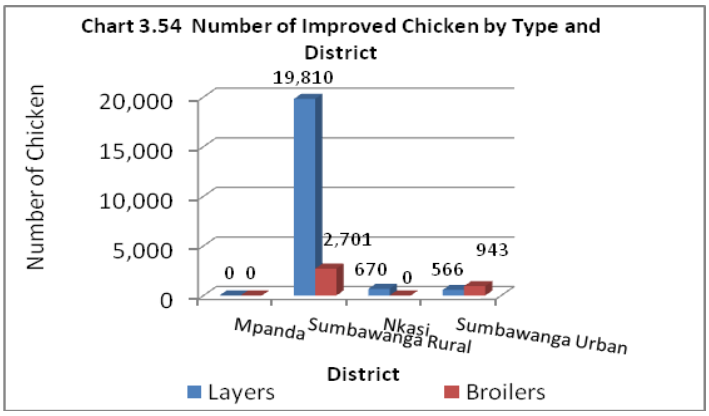


### 3.12.5.3 Chicken Flock Size

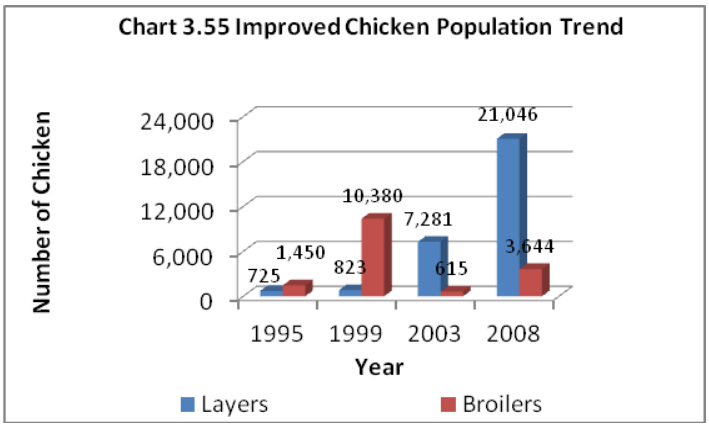
The results indicate that about 98.2 percent of all chicken rearing households were keeping 1-49 chickens with an average of 10 chicken per household. About 1.7 percent of chicken rearing households were reported to be keeping the flock size of 50 to 99 chicken with an average of 55 chicken per household. Only 0.1 percent of households kept the flock sizes of 100 chicken or more at an average of 100 chicken per household

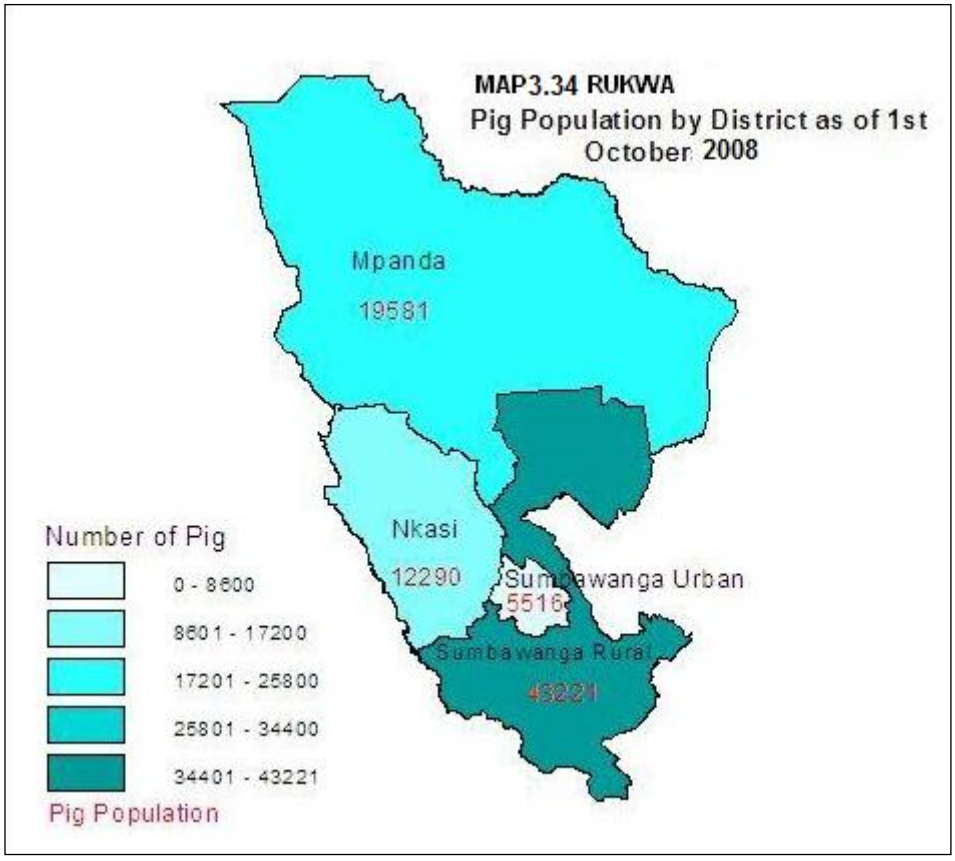
### 3.12.5.4 Improved Chickens (layers and broilers)

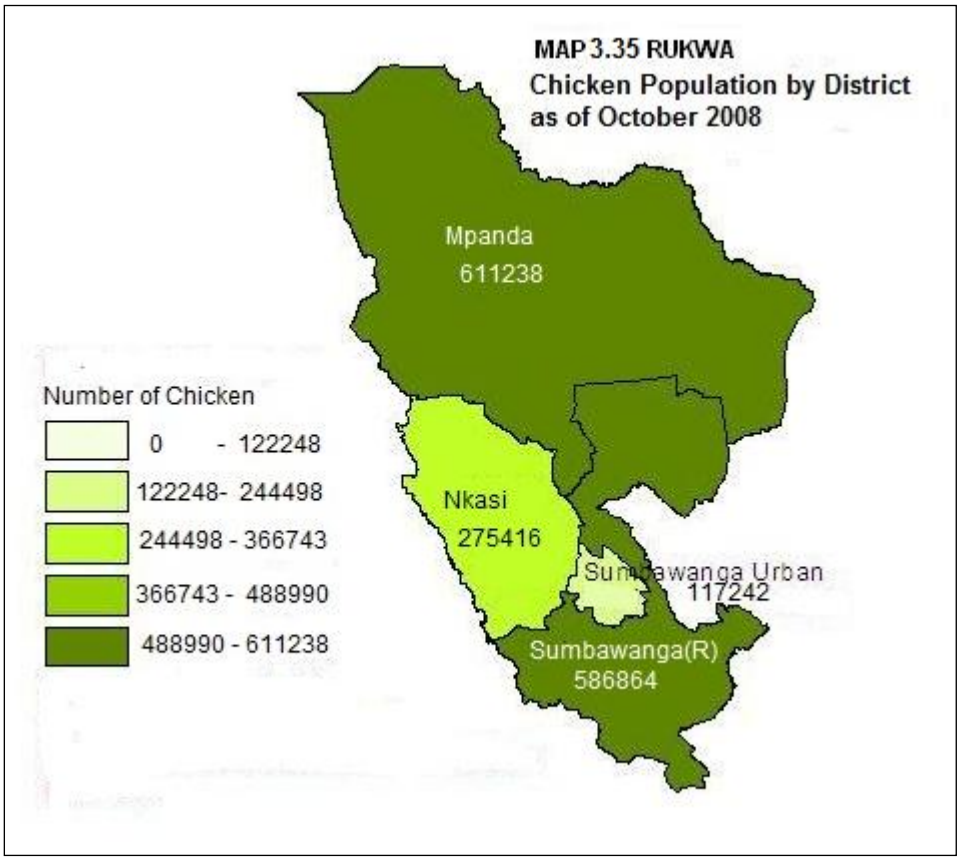
Layers chicken population in Rukwa Region increased at an annual rate of 72.35 percent for the period of four years from 823 in 1999 to 7,281 in 2003. The population has shown an increasing trend at 23.7 percent for the period of five years from 7,281 in 2003 to 21,046 in 2008. The number of improved chicken was most significant in Sumbawanga Rural (22,511 ) followed by Sumbawanga Urban (1,508 and Nkasi (670) districts.




The annual growth rate was (72.35%) for the period of four years from 1995 to 1999. The broiler population exhibited an increasing trend at the rate of 63.59 percent per annum for the period of four years from 1995 to 1999 before decreasing at an annual rate of -50.67 from 1999 to 2003. The overall annual growth rate for broilers was -10.17 during the eight-year period from 1,450 chicken in 1995 to 615 chicken in 2003. However, for the period of five years from 2003 to 2008 broiler population has increased at the rate of 42.7 percent from 615 to 3,644 chicken (Chart 3. 54 and Chart 3.55).




MAP3.34 RUKWA
Pig Population by District as of 1st October 2008
Mpanda
19581
Nkasi
12290
Sumbawanga Urban
5516
Sumbawanga Rural
43221
Number of Pig
0 - 8600
8601 - 17200
17201 - 25800
25801 - 34400
34401 - 43221
Pig Population


MAP 3.35 RUKWA
Chicken Population by District as of October 2008
Mpanda
611238
Nkasi
275416
Sumbawanga Urban
117242
Sumbawanga(R)
586864
Number of Chicken
0 - 122248
122248- 244498
244498 - 366743
366743 - 488990
488990 - 611238

### 3.12.6 Other Livestock

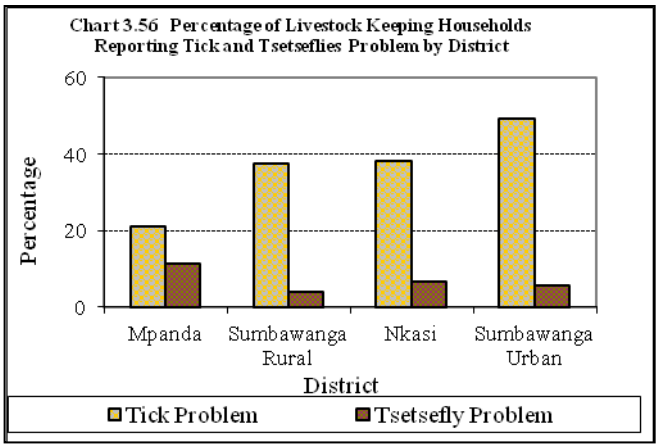
There were 56,626 ducks, 8,489 donkeys, 8,002 rabbits and 6,501 guinepigs raised by rural agricultural households in Rukwa region. Table 3-12 indicates the number of livestock kept in each district. The biggest number of ducks in the region was found in Sumbawanga Rural district (41.3% of all ducks in the region), followed by Mpanda (34.0%) and Nkasi (18%). Sumbawanga Urban district had the least number of ducks estimated at 6.7 percent of total ducks in the region. There were no turkeys reported in the region. (Table 3.8).

**Table 3.8 Number of Other Livestock by Type of Livestock and District as of 1st October 2008**

| District | Ducks | Guine pigs | Turkeys | Rabbits | Donkeys |
|---|---|---|---|---|---|
| Mpanda | 19,228 | 529 | 0 | 1,058 | 2,117 |
| Sumbawanga Rural | 23,412 | 1,126 | 0 | 0 | 4,277 |
| Nkasi | 10,167 | 1,452 | 0 | 1,899 | 1,341 |
| Sumbawanga Urban | 3,818 | 3,394 | 0 | 5,044 | 754 |
| **Total** | **56,626** | **6,501** | **0** | **8,002** | **8,489** |

### 3.12.7 Pest and Parasite Incidence and Control

The results indicate that 34 percent and 7 percent of the total livestock-keeping households reported to have encountered tick and tsetse fly problems respectively. (Chart 3.56) shows that there was a predominance of tick related diseases over tsetse related diseases. Incidences of both problems were highest in Sumbawanga urban district but lowest in Mpanda district.

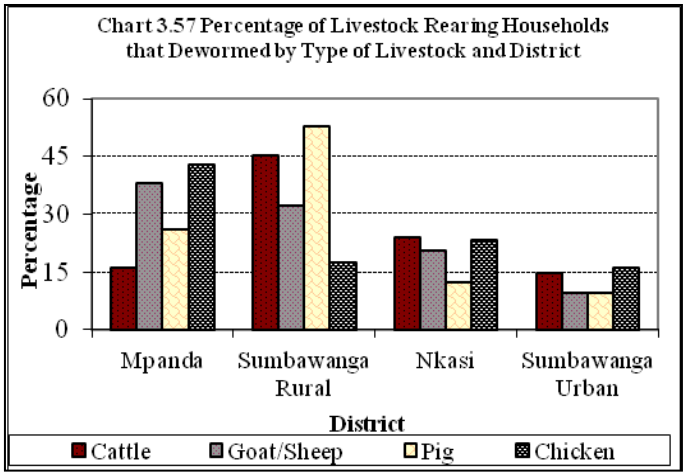



The most practiced method of tick controlling was spraying with 25 percent of all livestock-rearing households in the region using the method. Other methods used were dipping (4%), smearing (2%) and other traditional methods like hand picking (0.03%). However, 68 percent of livestock-keeping households did not use any method.

The most common method used to control tsetse flies was spraying which was practiced by 8.1 percent of livestock rearing households; this was followed by trapping (1.6%) and dipping (1.5%). However, 88.6 percent of the livestock rearing households did not use any of the three aforementioned methods.

### 3.12.7.1 De-worming

Livestock rearing households that de-wormed their animals were 53,001 (31% of the total livestock rearing households in the region). The percentage of the households that de-wormed cattle was 71 percent of the total cattle keeping households, goats/sheep (34%), chicken (27%) and pig (10%) The district with the highest number of households that de-wormed cattle was Sumbawanga Rural (45% of total households that de-wormed cattle), followed by Nkasi (24%), Mpanda (16%) and Sumbawanga Urban (15%). However the highest percentage of households deworming chicken was recorded in Mpanda district (41% of the total households deworming chicken in the region**)** (Chart 3.57).




### 3.12.8 Access to Livestock Extension Services

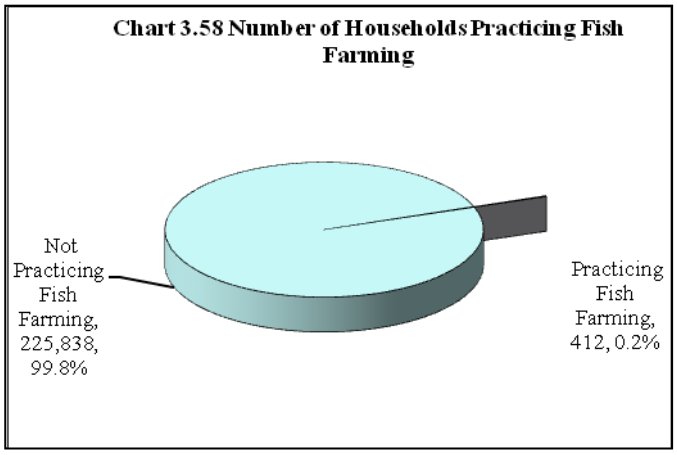
The total number of households that received livestock advice was 68,550, representing 40 percent of the total livestock-rearing households. The main livestock extension agent was the government which provided service to about 84.4 percent of all households receiving livestock extension services. The rest of the households got services from neighbor (18.9%), radio/Tv/newspaper (15.3%), NGO/Development Projects (10.1%) large-scale farmers (2.5%) and Co-operatives (1%), (Table 3.9)

**Table 3.9 Percentage of Livestock Rearing Households Receiving Livestock Extension by Source and District**

| District | Government | NGO/Dev project | Cooperative | Large scale farmer | Radio/TV/Newspapers | Neighbour | Number of Household receiving Extension |
|---|---|---|---|---|---|---|---|
| Mpanda | 70.8 | 22.5 | 0.8 | 5.0 | 13.3 | 28.3 | 21,168 |
| Sumbawanga Rural | 90.5 | 2.4 | 0.8 | 0.0 | 21.4 | 15.1 | 28,364 |
| Nkasi | 93.5 | 3.2 | 1.1 | 2.2 | 5.4 | 6.5 | 10,391 |
| Sumbawanga Urban | 86.9 | 13.1 | 2.2 | 4.9 | 12.0 | 23.5 | 8,627 |
| **Total** | **84.4** | **10.1** | **1.0** | **2.5** | **15.3** | **18.9** | **68,550** |

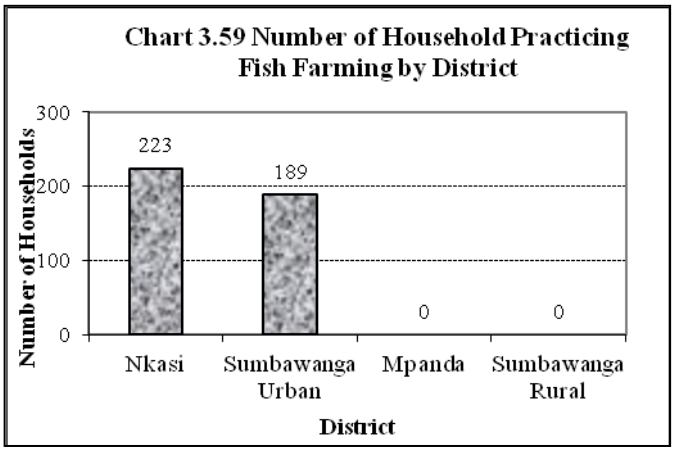
### 3.12.9 Fish Farming

The number of households involved in fish farming in Rukwa region was 412, representing 0.2 percent of the total agricultural households in the region (Chart 3.58).

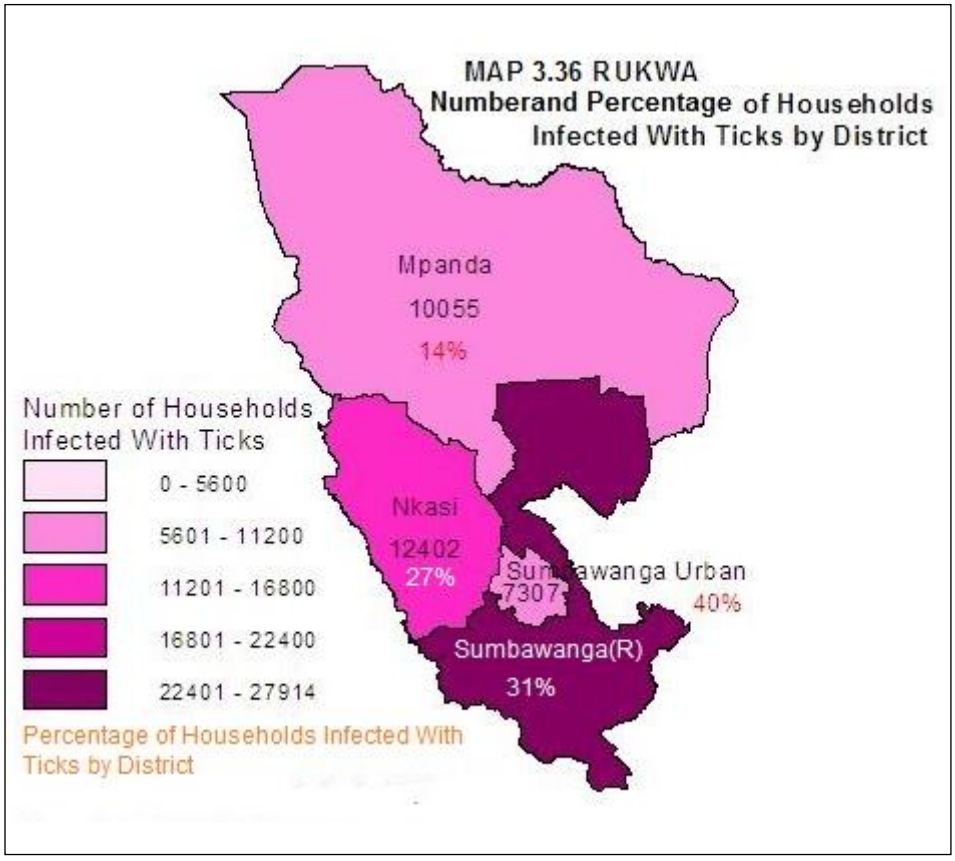



Fish farming was practiced in Nkasi and Sumbawanga Urban district only. No fish farming was practiced in the remaining district, (Chart 3.59).

The main source of fingerings was from the neighbors (335 households) followed by NGO/Projects (141 households) and other sources (112 households). About 588 households practicing fish farming in the region used the natural ponds for fish farming and 47 households used water reservoir.




The number of fish harvested in Rukwa region was 67,127 all of them being tilapia by type. Most of the households (335) sold the harvested fish to secondary markets, followed by those sold to neighbors (159 households).

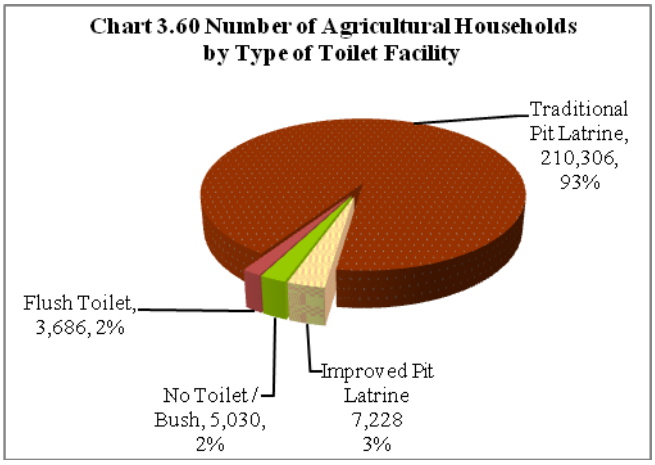

MAP 3.36 RUKWA
Numberand Percentage of Households
Infected With Ticks by District
Mpanda
10055
14%
Nkasi
12402
27%
Sumbawanga Urban
7307
40%
Sumbawanga(R)
31%
Number of Households
Infected With Ticks
0 - 5600
5601 - 11200
11201 - 16800
16801 - 22400
22401 - 27914
Percentage of Households Infected With
Ticks by District

## 3.13 Poverty indicators

The agricultural census collected data on poverty for the purpose of providing a base for tracking progress in poverty reduction strategies undertaken by the government.

### 3.13.1 Type of Toilets

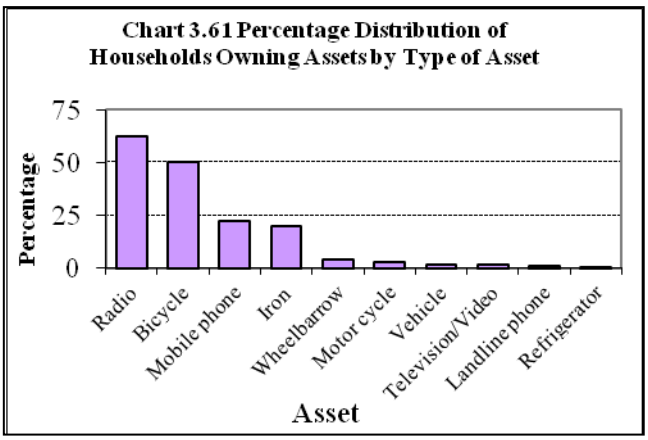
A large number of rural agricultural households used traditional pit latrines (210,306 households, 93% of all rural agricultural households). Other types of toilets were used as follows: Improved pit latrine (7,228 households,3%) flush toilets (3,686 households, 2%). However, 5,030 households or (2%) had no toilet facilities (Chart 3.60).




The distribution of the households without toilets within the region indicated that Mpanda district had 38.6 percent, followed by Sumbawanga Rural (35.8 %), Nkasi (20.0%) and Sumbawanga Urban with 5.6 percent.

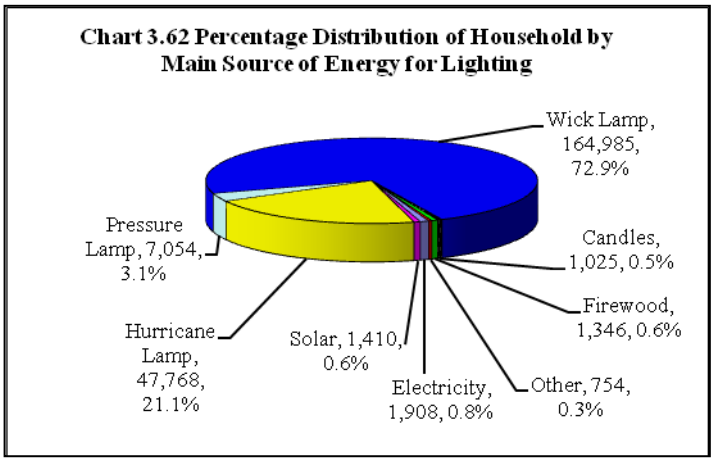
### 3.13.2 Household's Assets

Radios were owned by most rural agricultural households in Rukwa region with 141,457 households (63% of the agricultural households in the region) owning the asset, followed by bicycle (113,281 households, 50%), mobile phones (50,647 households, 22%), iron (44,504 households, 20%) and wheelbarrows (9,541 households, 4.0%). Each remaining assets was owned by less than 4 percent of agricultural households in the region (Chart 3.61)



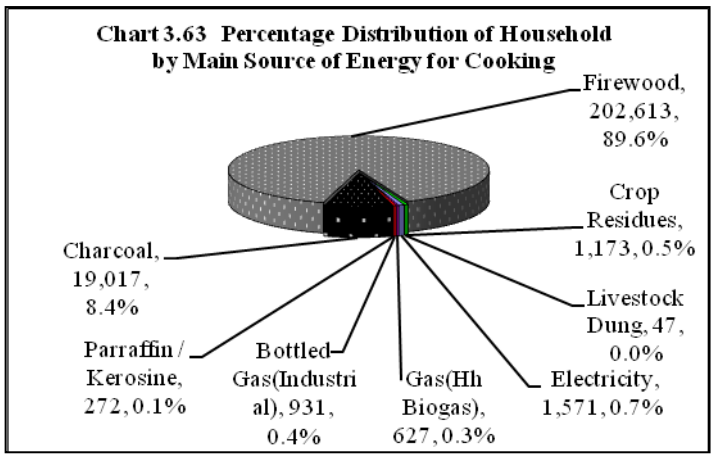
### 3.13.3 Sources of Lighting Energy

Wick lamp is the most common source of lighting energy in the region with 72.9 percent of the total rural households using this source of energy followed by hurricane lamp (21.1%), pressure lamp (3.1%), electricity (0.8%), firewood and solar each with 0.6 percent, candle (0.5%) and other sources accounted for 0.3 percent (Chart 3. 62)



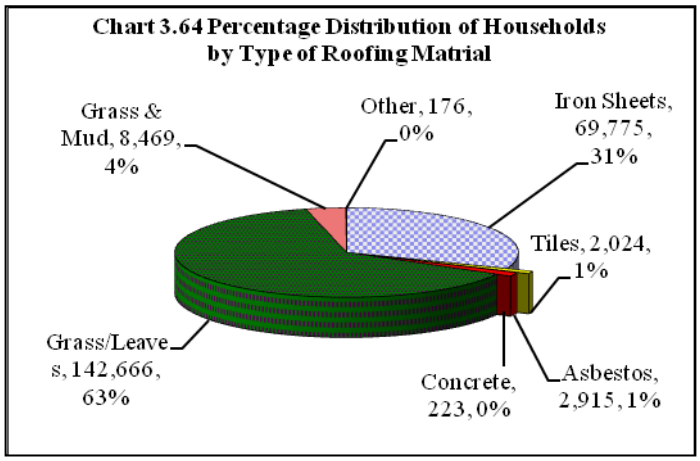

### 3.13.4 Sources of Energy for Cooking

The most prevalent source of energy for cooking was firewood, which was used by 89.6 percent of all rural agricultural households in Rukwa region. This was followed by charcoal (8.4%), electricity (0.7%), crop residues (0.5%) and gas (industrial) (0.4%). The percentage for households using the remaining sources was less than 0.4 (Chart 3.63)




### 3.13.5 Roofing Materials

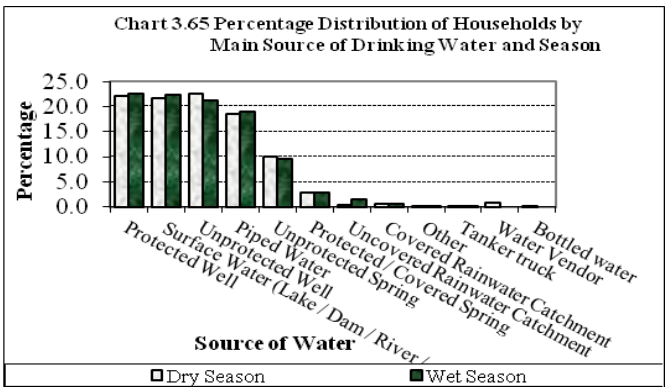
The most common material for roofing for the main dwelling was grass and/or leaves which used by 63.1 percent of the rural agricultural households. This was far followed by iron sheets (30.8%), grass/mud (3.7%), asbestos (1.3%), and tiles (0.9%) and concrete (0.1%), (Chart 3.64).



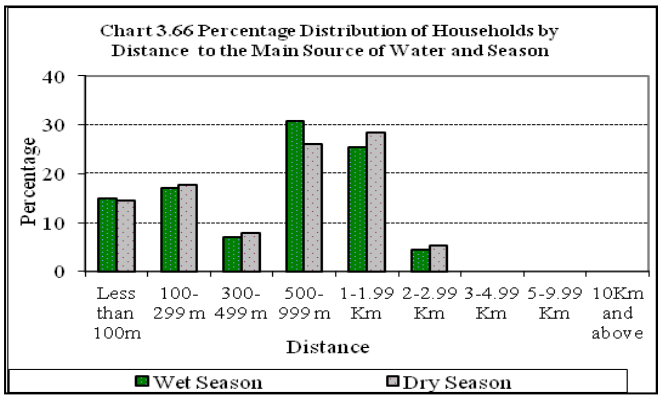
Proportionally, Nkasi districts had the highest percentage of households with grass/leaves roofing (72.8%), followed by Mpanda (66.2%), Sumbawanga Urban (57.9) and Sumbawanga Rural (56.8%)

### 3.13.6 Access to Drinking Water

The main source of drinking water for rural agricultural households in Rukwa region was unprotected wells which were used by 22.6 percent of the households during the dry seasons. This was followed by protected wells (22.2% of households during dry season), surface water (21.6% of households during the dry season), piped water (18.6% of households during dry season) and unprotected spring water (10% of households in dry seasons), protected/covered spring (2.7% of households in dry season). The remaining sources had below 1 percent of households. Protected wells were commonly used source during the wet season accounting for 22.6 percent of households during wet season, followed by surface water (lake, river, dam, stream) (22.3%), unprotected well (21.2%) and piped water (18.9%). The remaining sources during the wet season had less than 10 percent of the rural agricultural households (Chart 3.65).




About 70 percent of the rural agricultural households in Rukwa region obtained drinking water within a distance of less than one kilometer during wet season compared to 66 percent of the households during the dry season. However, 30 percent of the agricultural households obtained



drinking water from a distance of one or more kilometers during wet compared to 33 percent of households in the dry season. The most common distance from the source of drinking water was between 500 meter and 2 kilometers (Chart 3.66).

### 3.13.7 Food Consumption Pattern

#### 3.13.7.1 Number of Meals per Day

The majority of households in Rukwa region normally had two (2) meals per day (73 percent of the households in the region. This was followed by two (3) meals per day (23%) and one (1) meal per day (4 percent (Chart 3.67). Sumbawanga Urban district had the largest percent of households eating one meal per day (9%) whilst Mpanda district had the highest percent of households eating 3 meals per day (43%). (Table 3.16).

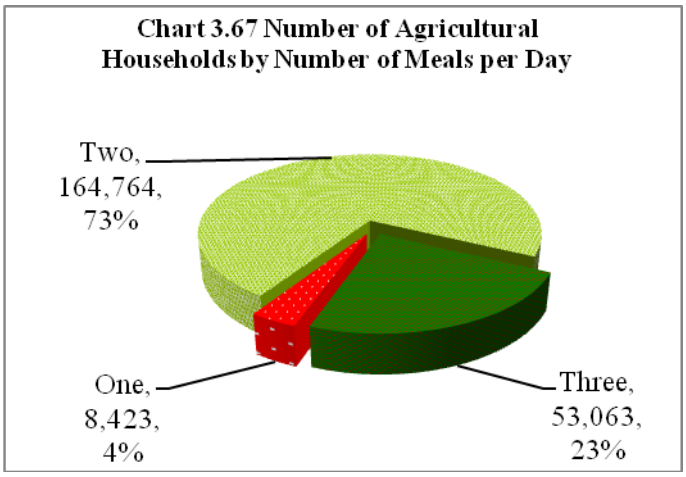
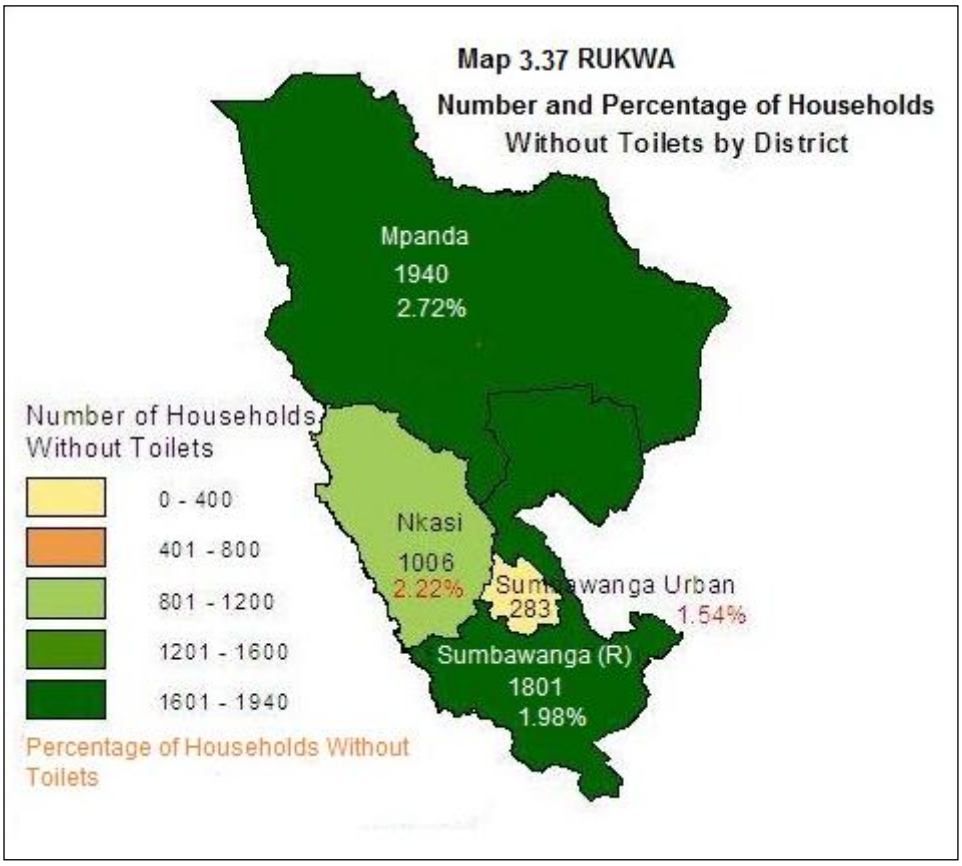
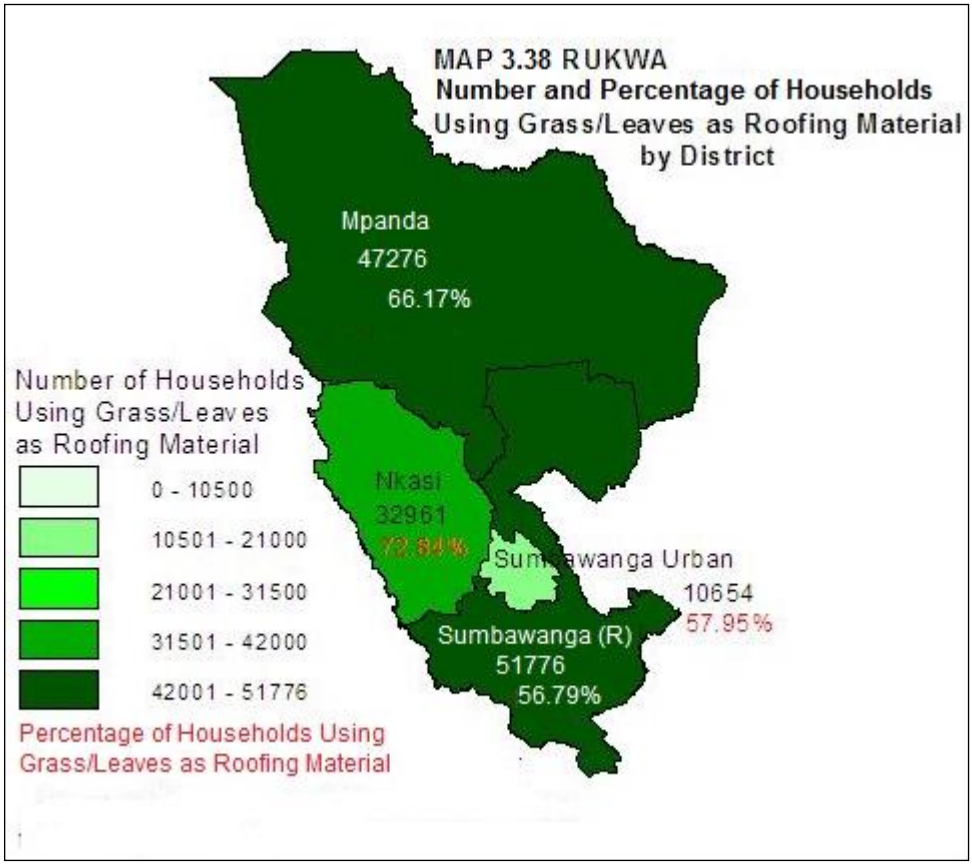



**Table 3.10 Number of Agricultural Households by Number of Meals the Household Nomally Takes per Day**

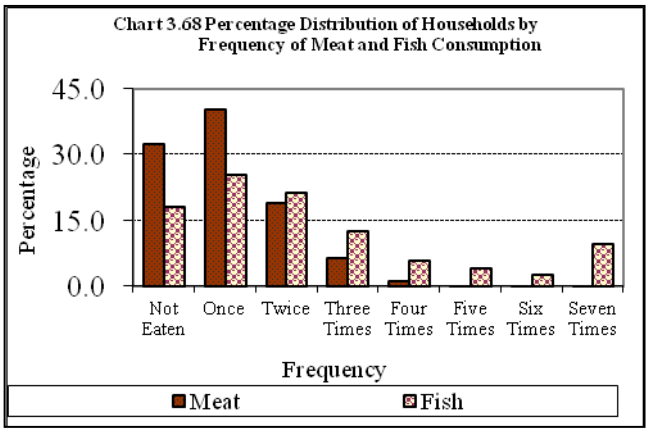
| District | One | % | Two | % | Three | % | Total |
|---|---|---|---|---|---|---|---|
| Mpanda | 1,764 | 2 | 38,809 | 54 | 30,871 | 43 | 71,443 |
| Sumbawanga Rural | 3,827 | 4 | 79,014 | 87 | 8,329 | 9 | 91,170 |
| Nkasi | 1,229 | 3 | 31,620 | 70 | 12,402 | 27 | 45,251 |
| Sumbawanga Urban | 1,603 | 9 | 15,321 | 83 | 1,461 | 8 | 18,385 |
| **Total** | **8,423** | **4** | **164,764** | **73** | **53,063** | **23** | **226,250** |


Map 3.37 RUKWA
Number and Percentage of Households
Without Toilets by District
Mpanda
1940
2.72%
Nkasi
1006
2.22%
Sumbawanga Urban
1.54%
Sumbawanga (R)
1801
1.98%
Number of Households
Without Toilets
0 - 400
401 - 800
801 - 1200
1201 - 1600
1601 - 1940
Percentage of Households Without
Toilets


MAP 3.38 RUKWA
Number and Percentage of Households
Using Grass/Leaves as Roofing Material
by District
Mpanda
47276
66.17%
Nkasi
32961
Sumbawanga Urban
10654
57.95%
Sumbawanga (R)
51776
56.79%
Number of Households
Using Grass/Leaves
as Roofing Material
0 - 10500
10501 - 21000
21001 - 31500
31501 - 42000
42001 - 51776
Percentage of Households Using
Grass/Leaves as Roofing Material

### 3.13.7.2 Meat Consumption Frequency

The number of agricultural households that consumed meat during the week preceding the census was 152,887 (67.6% of the agricultural households in Rukwa region). Out of which 91,011 households (40.2 % of the agricultural households in the region) consumed meat only once during the respective week.This was followed by those who had meat twice during the week 43,296 (19.1%). Very few households (18,580 households, 8.2%) had meat three or more times during the respective week.




However, 73,363 (32.4 percent of the agricultural households in Rukwa region did not eat meat during the week preceding the census (Chart 3.68)

### 3.13.7.3 Fish Consumption Frequencies

The number of agricultural households that consumed fish during the week preceding the census was 185,310 (81.9% of the total agricultural households in Rukwa region) of which 57,923 households (25.6% of the total agricultural households in the region) consumed fish once during the week preceeding the census. This was followed by those who had fish three times 48,208 (21.3%). In general, the percentage of households that consumed fish three times or more during the week in Rukwa region was 35 percent of the total agricultural households in the region.

However, 40,939 (18.1%) of the agricultural households in Rukwa region did not eat fish during the week preceding the census (Chart 3.68)

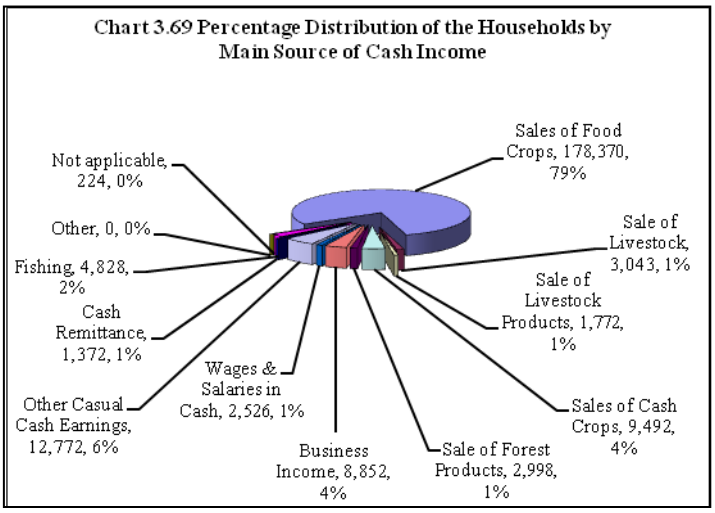
### 3.13.8 Food Security

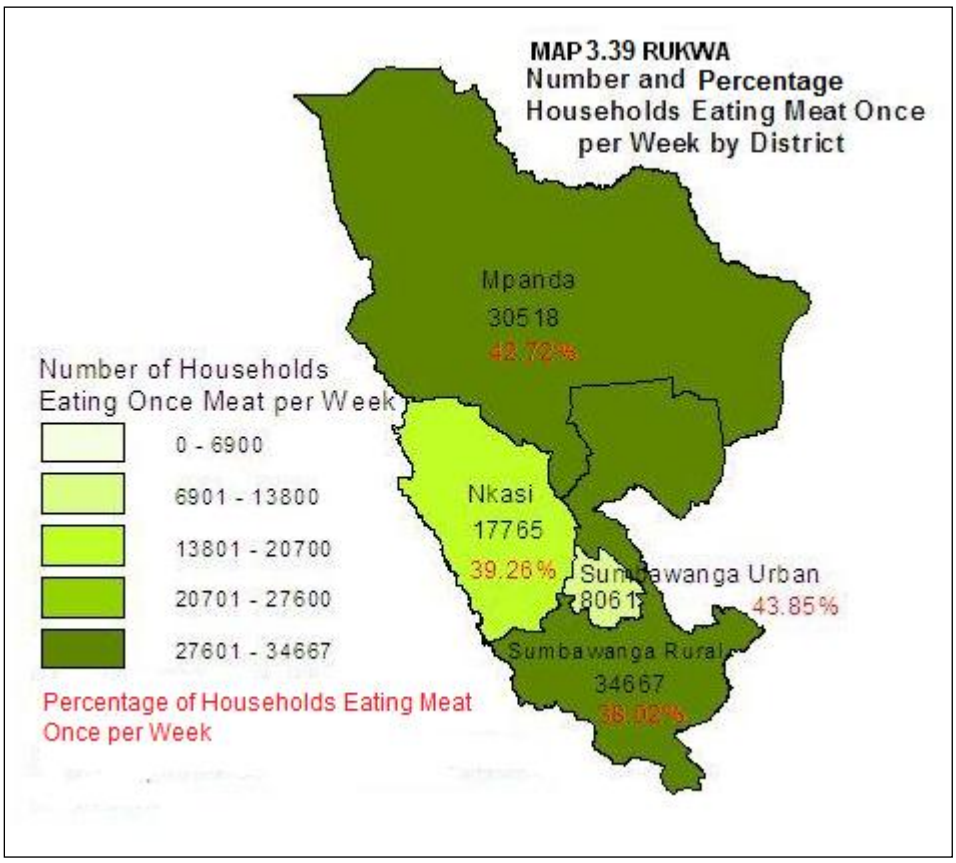
In Rukwa region, 83,152 households (36.8% of the total agricultural households in the region) said they seldom experienced problems in satisfying the household for food requirement. However 18,598 households (8.2%) said they sometimes experience problems, 10,951 households (4.8%) often experienced problems and 6,631 (2.9%) always had problems in

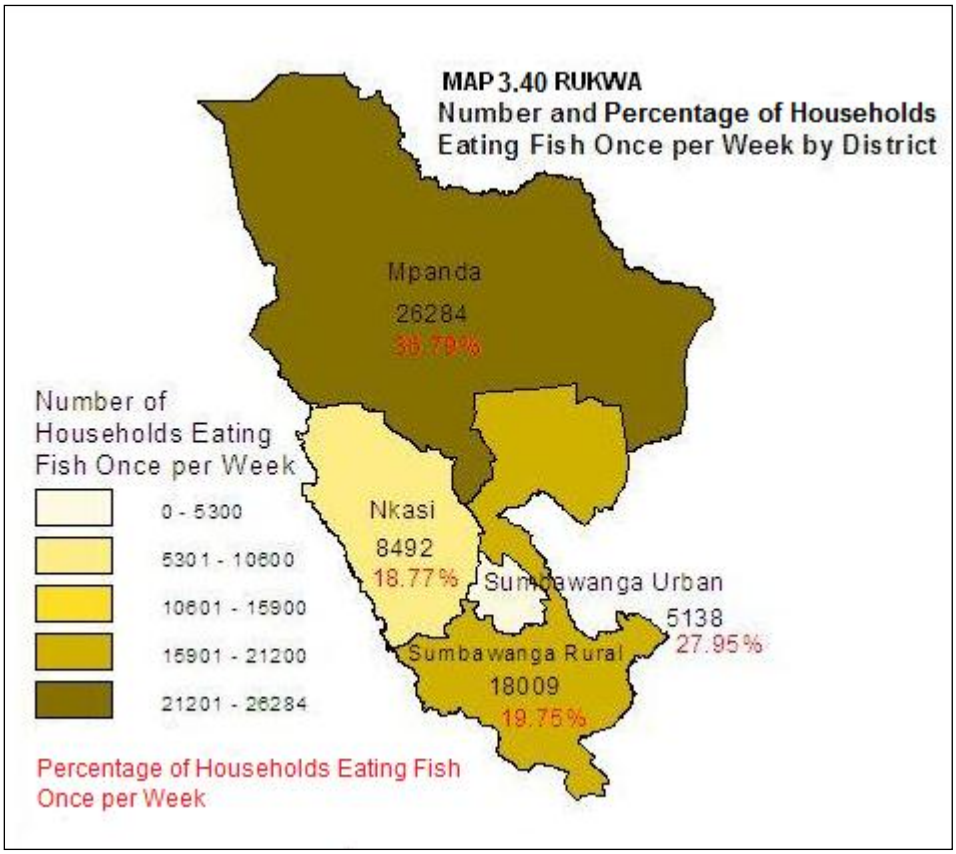
satisfying the household food requirement. However, 106,918 (47.3%) agricultural households said they never experience any food sufficiency problem.

### 3.13.9 Main Sources of Cash Income

The main source of cash income for most of the households in Rukwa region was from selling food crops (78.8 percent of agricultural households in the region), followed by other casual cash earnings (5.6%), sale of cash crops (4.2%), businesses income (3.9%), fishing (2.1%), sales of forest products and sale of livestock each with 1.3 percent and wages and salaries in cash 1.1%). Sales of livestock products and cash remittances had less than one percent of the agricultural households in the region (Chart 3.69).




MAP 3.39 RUKWA
Number and Percentage Households Eating Meat Once per Week by District
Mpanda
30518
42.72%
Nkasi
17765
39.26%
Sumbawanga Urban
43.85%
Sumbawanga Rural
34667
Number of Households Eating Once Meat per Week
0 - 6900
6901 - 13800
13801 - 20700
20701 - 27600
27601 - 34667
Percentage of Households Eating Meat Once per Week


MAP 3.40 RUKWA
Number and Percentage of Households Eating Fish Once per Week by District
Mpanda
26284
Nkasi
8492
18.77%
Sumbawanga Urban
5138
27.95%
Sumbawanga Rural
18009
19.75%
Number of Households Eating Fish Once per Week
0 - 5300
5301 - 10600
10601 - 15900
15901 - 21200
21201 - 26284
Percentage of Households Eating Fish Once per Week

# 4 Rukwa Profiles

This section presents the status of crops and livestock production, access to natural resources and services, demography and poverty for both the region as a whole and for each district.

**Rukwa**

Rukwa region had the second largest area planted with tobacco (9,572 ha or 14.8%), followed by Mbeya (6,328 ha or 9.8%), Shinyanga (5,949 ha or 9.2%), Ruvuma (4,183 ha or 6.5%) and Singida (2,303 ha or 3.6%).

Besides, Rukwa had the highest area planted to paddy per household (1.34 ha), the second highest average yield of 2.74 tons/ha and the highest yield of wheat (1.94 tons/ha), followed by Manyara (1.47 tons/ha) and Arusha (1.17 tons/ha). Furthermore, Rukwa region had the largest area planted with finger millet (10,999 ha) and produced the largest quantity harvested (10,770 tons). It also had the third highest percent of area planted with groundnuts (6.9%) after Tabora (11.6%) and Dodoma (9.7%)

Moreover, the region had the fourth largest area of area per groundnut growing household (0.55 ha) after Dodoma (0.64 ha), Manyara (0.59 ha), and Shinyanga (0.56 ha) and only 48.8% of households reported receiving extension advice, which however was higher than both (33.6%) and Lindi (40.8%).

## 4.1 Mpanda

Mpanda district had the second highest number of agricultural households in the region and it had the second highest percent of households involved in smallholder agriculture in the region. Most smallholders were involved in crop production, followed by crop and livestock. Households involved in livestock only and pastoralists were not found in the district.

The most important livelihood activity for smallholder households in Mpanda district is Annual Crop Farming, followed by livestock keeping, fishing/hunting and gathering. However the district had higher percent of agriculture households with off-farm income were Mpanda (35.6%) second to Sumbawanga rural.

It has the smallest utilized land area per household (2.0 ha) and the allocated area is not fully utilized indicating that there is -low level of land pressure. The total planted area is greater than in other districts in the region due to the presence of good wet and dry seasons, however it has the second lowest planted area per household (1.5 ha) attributed to the high number of smallholders in the district.

The district is moderately important for maize production in the region with a planted area of over 43,000 ha; however the planted area per household is the lowest in the region. Paddy production is not important as it was not grown in the district and the production of sorghum is very small. Mpanda is the only district in the region which did not grow wheat. Cassava production though is small but it is higher accounting for 39 percent of the quantity harvested in the region. Mpanda is the only district in the region that did not grow Irish potatoes. The production of beans in Mpanda is the second highest in the region with a planted area of 10,255 ha. Oilseed crops are important in Mpanda and groundnuts were grown in the district.

Vegetable production is important in the district. It has the second largest planted area with tomatoes but lowest in cabbage production, chilies were not grown in the district, it accounts for 27 percent of the tomato production, 8 percent of the cabbage production. Traditional cash crops (e.g. tobacco and cotton) are grown in very small quantities.

Compared to other districts in the region, Mpanda has a moderate planted area with permanent crops which is dominated by Lime/lemon (3,866 ha), banana (694 ha) and mangoes (392 ha). Other permanent crops are either not grown or are grown in very small quantities.

As with other districts in the region, most land clearing and preparation is done by hand, however very slightly more land preparation is done by oxen compared to most other districts. The use of inputs in the region is very small, however district differences exist. Mpanda has the second largest planted area with improved seed in Rukwa region and this is due to the higher planted area of vegetables. The district has moderate to low planted area with fertilizers (Farm yard manure, compost and inorganic fertilizer), however most of this is inorganic manure. Compared to other districts in the region, Mpanda district has a lowest level of insecticide use. The use of fungicides,

although small, was the highest compared to other districts. Virtually no herbicide was used. It has the smallest area with irrigation compared to other districts with 1,138 hectares of irrigated land. The most common source of water for irrigation is from rivers using hand buckets.

The most common method of crop storage is in sacks/open drums; however the proportion of households not storing crops in the district is lower than other districts in the region. The district has the largest number of households not selling crops. Although very small, accessto credit in the district is to both men and women and the main sources are co-operatives, traders/trade stores, and family friends and relatives.

A comparatively larger number of households receive extension services in Mpanda and all of this is from the government. The quality of extension services was rated between good and average by the majority of the households.

Tree farming is not important in Mpanda district by having planted 2,251 trees only and is mostly senna spp with some eucalyptus and gravellis. The highest proportion of households with erosion control and water harvesting structures is found in Mpanda district and is mostly erosion control bunds however it also has the highest number of water harvesting bunds than other districts.

The district has the third largest number of cattle in the region and they are almost all indigenous. Goat production is the highest when compared to other districts; also, it has the largest population of sheep in the region. It has the second smallest number of pigs in the region but highest number of chickens. Mpanda is the only district in the region which did not have layers. Big number of ducks but small number of rabbits and donkeys both are found in the district.
The largest number of households reporting Tsetse and tick problems was in Mpanda district and it had the largest number of households de-worming livestock. The use of draft animals in the district is very small. There was no any household in the district who did practice fish farming.

Mpanda district has the second lowest percent of households with no toilet facilities and it has the highest percent of households owning bicycles, vehicles and tv/video and mobile phones. It has the second lowest number of households using mains electricity in the region. The most common source of energy for lighting is the wick lamp and practically all households use firewood for

cooking. The district has one of the largest percent of households with grass roofs with 16.4 percent of households having iron sheets. The most common source of drinking water is from protected wells. It has the lowest percent of households having two and second lowest district with households having one meal per day compared to other districts and the highest percent with 3 meals per day. The district had the lowest percent of households that did not eat meat but highest number of households that did not eat fish during the week prior to enumeration; however most households seldom had problems with food satisfaction.

### 4.2 Sumbawanga Rural

Sumbawanga Rural district has the largest number of households in the region and it has a high percentage of households involved in smallholder agriculture. Most smallholders are involved in crop farming only, followed by crop and livestock farming. It has a very large number of livestock only households and no pastoralists were found in the district.

The most important livelihood activity for smallholder households in Sumbawanga Rural district is Annual Crop Farming. Sumbawanga rural district had the highest percentage of agriculture households with off-farm income (37.1% of total agriculture households in the district). Sumbawanga Rural has a relatively high percent of female headed households (23%) and it has one of the lowest average age of the household head in the region. With a household size of 5 members per household it is average for the region. Sumbawanga Rural has a comparatively high literacy rate among smallholder households and this is reflected by the district having the highest level of school attendance in the region. It has a highest utilized land area per household (2.7 ha) and 79.1 percent of the allocated area is currently being utilized. The district has the largest planted area in the region and the largest planted area per household (0.8ha in the wet season.

The district is very important for maize production in the region with a planted area of over 65,900 ha, and the planted area per maize growing household is also moderate for the region. The district has the second largest planted area of paddy in the region with 11,605 hectares. Sorghum is also grown in the district. Cassava production is moderate to high, accounting for 25.2 percent of the quantity harvested in the region. The district has a very small planted area of Irish potatoes (49 ha). The production of beans in Sumbawanga Rural district is higher with a planted area of 17,142 ha.

Sumbawanga Rural district has the second largest groundnut planted area in Rukwa region with a planted area per groundnut growing household of 0.27 ha. Vegetable production is moderately important in the district. Although small, it has the largest planted area with tomatoes and cabbage and chilies (245 ha and 60 ha respectively). A traditional cash crop (e.g. tobacco) was grown in very small quantities. No cultivation of cotton in the district

Compared to other districts in the region, Sumbawanga Rural has the largest planted area with permanent crops which is dominated by sugarcane (1,356 ha), banana (758 ha) and Mango (155 ha). The use of inputs in the region is very small, however district differences exist. Sumbawanga Rural has the largest planted area with improved seed in the region as well as the highest proportion of households using improved seeds. Though small, the district has the second highest planted area with fertilizers (Farm yard manure, compost and inorganic fertilizer), and most of this is with farm yard manure. Compared to other districts in the region, Sumbawanga Rural district has a moderate level of insecticide use. The use of fungicides and herbicides is low. It has the largest area with irrigation compared to other districts with 9,983 ha of irrigated land. The most common source of water for irrigation is from rivers using gravity methods.

The most common method of crop storage in Sumbawanga Rural district is in sacks/open drums, however the proportion of households not storing crops is slightly above for the region. Sumbawanga Rural has the highest number of households selling crops.

Access to credit in the district though small but it was second in the region.A comparatively larger number of households receive extension services in Sumbawanga Rural district and all of this is from the government.

The district has the largest number of cattle (316,281) in the region and they are almost all indigenous. Goat production is moderate compared to other districts; however it has the second largest population of sheep (16,433) in the region. It has the largest number of pigs (43,221) in the region and a moderate number of chicken (586,864). Some ducks, rabbits and donkeys are also found in the district. A number of households reported tsetse and tick problems and it has the

largest number of households de-worming livestock in the region. No any households in the district who did practice fish farming.

The percentage of households without toilet facility in Sumbawanga Rural district is comparatively low. It is amongst the districts with the highest percent of households owning wheel barrows (3,377), vehicles (1,576), bicycles, tv/video (1,126) and mobile phones (20,035). It has the largest number of households using mains electricity source of energy for cooking in the region. The most common source of energy for lighting is the wick lamp and practically all households use firewood for cooking. The roofing material for most of the households in the district is grass/leaves (57%), however it has the second highest percent of households with iron sheet roofing (35%) compared to most other districts. The most common source of drinking water is from Surface water (Lake Dam/River and Stream). It is one of the districts with the moderate percent of households having three meals per day. The district had one of the lowest percent of households that did not eat meat or fish during the week prior to enumeration and most households seldom had problems with food satisfaction.

### 4.3 Nkasi

Nkasi district has the third largest number of households in the region and it has moderate to higher percent of households involved in smallholder agriculture in the region. Most smallholders are involved in crop farming only, followed by crop and livestock farming. It is one of the districts with very small number of livestock only households and no pastoralists were found in the district. The most important livelihood activity for smallholder households in Nkasi district is Annual Crop Farming, followed by fishing/hunting/gathering.

However, the district has the agriculture households with off-farm income (18.4%) in the region and the second lowest percent of households with more than one member with off-farm income. compared to other districts in the region,

Nkasi has a comparatively high literacy rate among smallholder households.

The land area utilized per household (2.4 ha) is above the average for the region which is estimated at 2.0 hectares.75 percent of the allocated area is currently being utilized which is moderate to high for the region.

The district is moderately important for maize production in the region with a planted area of over 47,000 ha and the planted area per household is 1.2 ha which is slightly above of average for the region. Paddy production is not important with a planted area of only 4,784 hectares; however Sorghum production is the second lower in the region. Sorghum, The district has the First largest planted area of cassava accounting for 46 percent of the cassava planted area in the region. However, the largest area planted with beans per beans growing household was in Nkasi district (0.73 ha). The production of beans in Nkasi is second lower in the region with a planted area of 11,050 ha. Oilseed crops are relative important in Nkasi with 2,321 ha. of the groundnuts grown in the district.

The district with the largest area planted with permanent crops by smallholders was Nkasi district (10,225 ha, 36.7%) and are more important than any other district in the region. The most prominent permanent crops in the district include mangoes (7,863ha), sugarcane (143ha) and bananas (23 ha, other permanent crops are either not grown or are grown in very small quantities.
The most common method of crop storage is in Nkasi is by using sacks or open drums and locally made traditional cribs, and the proportion of households not storing crops in the district is moderate to low for the region. The percent of crop growing households selling crops was (18.4%) in Nkasi district. Bank was the source of agricultural credit in Nkasi, However the households that receiving extension advice, the Government provided the greatest proportion followed by Neighbor, Radio/Television, and NGO/Development projects. Nkasi has the smallest planted area with improved seed in Rukwa region only 4.1% of households using Improved

The district has a moderate number of cattle in the region and they are almost all indigenous (183,909). Goat and sheep production is moderate compared to other districts. It has the Third largest number of pigs (12,290) in the region and the second lowest number of chicken (275,416), all of which are indigenous. Virtually no broilers chicken was found in the district. The district has one of the smallest number of ducks, and a small number of rabbits are found in the district.

A moderate number of households reported tsetse (2,123hh) and problems in Nkasi district. A moderate amount of de-worming of livestock is practiced in the district. Fish farming is practiced by a small number of households.

The percentage of households without toilet facility in Nkasi district is below the average for the region (2.0%). It has the lowest percent of households owning vehicles (20%) and second highest number owing tvs/video, second highest number owing land line phones. It has the third highest number of households using mains electricity in the region as source of cooking and fourth of households using Electricity as a source of lighting and the most common source of energy for lighting is the wick lamp and practically all households use firewood for cooking. The district has one of the lowest percent of households with grass roofs (23%) and only 16 percent of households have iron sheet roofing. The most common source of drinking water is from unprotected wells. Forty four percent of the households in the district reported having one or two meals per day and virtually 82 household reported having more than three meals per day. The district had a moderate percent of households that did not eat meat or fish during the week prior to enumeration and most households seldom had problems with food satisfaction.

### 4.4 Sumbawanga Urban

Sumbawanga Urban district has an average number of households for the region and it has the smallest percent of households involved in smallholder agriculture in the region. Most smallholders are involved in crop farming only, followed by crop and livestock farming. It has a very small number of livestock only households and no pastoralists were found in the district.

The most important livelihood activity for smallholder households in Sumbawanga Urban district is annual crop farming. It has the second highest percent of households with no off-farm activities and the highest percent of households with more than one member with off-farm income. Compared to other districts in the region, Sumbawanga Urban district has a relatively high percent of female headed households (13%) and it has one of the highest average ages of the household head. With an average household size of 5.4 members per household it is average for the region. Sumbawanga Urban district has a comparatively high literacy rate among smallholder households and this is reflected by the concomitant relatively high level of school attendance in the region. It has the second smallest utilized land area per household (2.0 ha) and only 86.2 percent of the

allocated land area is utilized. The total planted area is the smallest in the region however it has the second lowest planted area per household (0.61ha in the wet season.

Sumbawanga Urban district is not important for maize production in the region with a planted area of only 225,533 ha**.,** Paddy production is also not important as there was no any cultivation of paddy in the district hectares and the production of sorghum is small.

Cassava and beans production in Sumbawanga urban district has large number of households that planted of Irish potato, wheat are also grown. Oilseed crops groundnuts and sunflowers are also grown in the district, however traditional cash crops (e.g. tobacco and cotton) are not grown in the district.

Compared to other districts in the region, Sumbawanga Urban district has the largest area planted with permanent crops (10,225 ha, 36.7% 0f total permanent crop planted area) However, the average area planted with sugarcane per growing household was (0.64 ha), banana (0.05ha), Mango (0.03 ha.

The use of inputs in the region is very small, however district differences exist. Sumbawanga Urban district has the moderate planted area with improved seed. The district also has the smallest percent of planted area with fertilizers (Farm yard manure, compost and inorganic fertilizer), and most of this is with farm yard manure. Compared to other districts in the region, Sumbawanga Urban district has the highest area planted with insecticide but has the small total planted area in the region. The percent of planted area with fungicides is amongst the highest in the region and is the moderates for herbicides. It has second up number of households practicing irrigation 3,017hh.. The most common source of water for irrigation is from rivers using gravity and hand buckets

The most common method of crop storage is in sacks/open drums; however the proportion of households not storing crops in Sumbawanga Urban district is one of the highest in the region. The number of households selling crops in the district is also among the biggest in the region, however for those who sell, the main problem in selling was low price. Access to credit in the district is very small.A very small number of households receives extension services in Sumbawanga Urban district and almost all of this is from the government.

Sumbawanga Urban district has the smallest number of cattle in the region and most of them are indigenous. It is one of the districts with the smallest number of goats in the region.

Sumbawanga urban is also one of the districts with the smallest number of sheep, pigs and chicken, Large numbers of rabbits and Guinea pigs. Donkeys and Ducks are also found in the district. A small number of households reported Tsetse and tick problems in Sumbawanga Urban district and it had one of the smallest numbers of households de-worming livestock. The use of draft animals in the district is very small and largest number of households practice fish farming. in the district.

Sumbawanga Urban district has though small number of households with no toilet facilities. The district has the highest percent of households owning vehicles and television/video, land line and mobile phones and it has the second highest percent of households with radio, bicycles and irons. It has one of the smallest numbers of households using mains electricity in the region. The most common source of energy for lighting is the wick lamp and practically all households use firewood for cooking about 96% of households. The district has the highest percent (60%) of households with grass roofs with 39 percent of households having iron sheets. The most common source of drinking water is piped water and it has the lowest percent of households having two meals per day and forth with households having two meals per day compared to other districts and the fourth lowest percent with 3 meals per day. The district had the lowest percent of households that did not eat meat during the week prior to enumeration but has the lowest percent of households that did not eat fish. Most households never had problems with food satisfaction.

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# APPENDIX II: TABLES

## TYPE OF AGRICULTURE HOUSEHOLDS

### 2.1 Number of Agricultural Households by Type of Holding and District During 2007/08 Agriculture year

| District | Crops Only | | Livestock Only | | Pastoralist | | Crops & Livestock | | Total Number of Households | Total Number of Households Growing Crops | Total Number of Households Rearing Livestock |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of households | % | Number of households | % | Number of households | % | Number of households | % | | | |
| Mpanda | 52,039 | 72.8 | 0 | 0.0 | 0 | 0.0 | 19,404 | 27.2 | 71,443 | 71,443 | 19,404 |
| Sumbawanga Rural | 48,399 | 53.1 | 225 | 0.2 | 0 | 0.0 | 42,546 | 46.7 | 91,170 | 90,945 | 42,771 |
| Nkasi | 28,044 | 62.0 | 0 | 0.0 | 0 | 0.0 | 17,207 | 38.0 | 45,251 | 45,251 | 17,207 |
| Sumbawanga Urban | 8,627 | 46.9 | 47 | 0.3 | 0 | 0.0 | 9,711 | 52.8 | 18,385 | 18,338 | 9,758 |
| **Total** | **137,109** | **60.6** | **272** | **0.1** | **0** | **0.0** | **88,868** | **39.3** | **226,250** | **225,977** | **89,140** |

### 2.2 Number of Agriculture Households By Type and Size of Holding, 2007/08 Agricultural Year (Row percent) – RUKWA

| Size of Holding | Type of Agriculture Household | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Crops only | | Livestock only | | Pastoralist | | Crops and Livestock | | Total | |
| | Number | % | Number | % | Number | % | Number | % | Number | % |
| 0.01 - 0.50 | 12,830 | 87.2 | 0 | 0.0 | 0 | 0.0 | 1,890 | 12.8 | 14,721 | 100 |
| 0.51 - 1.00 | 19,418 | 85.0 | 0 | 0.0 | 0 | 0.0 | 3,421 | 15.0 | 22,839 | 100 |
| 1.01 - 1.50 | 25,246 | 77.6 | 0 | 0.0 | 0 | 0.0 | 7,283 | 22.4 | 32,529 | 100 |
| 1.51 - 2.00 | 17,275 | 68.5 | 0 | 0.0 | 0 | 0.0 | 7,957 | 31.5 | 25,232 | 100 |
| 2.01 - 2.50 | 22,234 | 66.7 | 0 | 0.0 | 0 | 0.0 | 11,095 | 33.3 | 33,329 | 100 |
| 2.51 - 3.00 | 6,858 | 53.3 | 0 | 0.0 | 0 | 0.0 | 6,018 | 46.7 | 12,876 | 100 |
| 3.01 - 3.50 | 6,544 | 54.2 | 47 | 0.4 | 0 | 0.0 | 5,490 | 45.4 | 12,081 | 100 |
| 3.51 - 4.00 | 2,165 | 28.1 | 0 | 0.0 | 0 | 0.0 | 5,545 | 71.9 | 7,710 | 100 |
| 4.01 -4.50 | 9,267 | 53.1 | 225 | 1.3 | 0 | 0.0 | 7,954 | 45.6 | 17,446 | 100 |
| 4.51 -5.00 | 1,924 | 40.7 | 0 | 0.0 | 0 | 0.0 | 2,800 | 59.3 | 4,724 | 100 |
| Above 5 | 13,349 | 31.2 | 0 | 0.0 | 0 | 0.0 | 29,414 | 68.8 | 42,763 | 100 |
| **Total** | **137,109** | **60.6** | **272** | **0.1** | **0** | **0.0** | **88,868** | **39.3** | **226,250** | **100** |

**2.3 Number of Agriculture Households By Type and Size of Holding, 2007/08 Agricultural Year (Column percent) – RUKWA**

| Size of Holding | Type of Agriculture Household | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Crops only | | Livestock only | | Pastoralist | | Crops and Livestock | | Total | |
| | Number | % | Number | % | Number | % | Number | % | Number | % |
| 0.01 - 0.50 | 12,830 | 9.4 | 0 | 0.0 | 0 | 0.0 | 1,890 | 2.1 | 14,721 | 6.5 |
| 0.51 - 1.00 | 19,418 | 14.2 | 0 | 0.0 | 0 | 0.0 | 3,421 | 3.8 | 22,839 | 10.1 |
| 1.01 - 1.50 | 25,246 | 18.4 | 0 | 0.0 | 0 | 0.0 | 7,283 | 8.2 | 32,529 | 14.4 |
| 1.51 - 2.00 | 17,275 | 12.6 | 0 | 0.0 | 0 | 0.0 | 7,957 | 9.0 | 25,232 | 11.2 |
| 2.01 - 2.50 | 22,234 | 16.2 | 0 | 0.0 | 0 | 0.0 | 11,095 | 12.5 | 33,329 | 14.7 |
| 2.51 - 3.00 | 6,858 | 5.0 | 0 | 0.0 | 0 | 0.0 | 6,018 | 6.8 | 12,876 | 5.7 |
| 3.01 - 3.50 | 6,544 | 4.8 | 47 | 17.3 | 0 | 0.0 | 5,490 | 6.2 | 12,081 | 5.3 |
| 3.51 - 4.00 | 2,165 | 1.6 | 0 | 0.0 | 0 | 0.0 | 5,545 | 6.2 | 7,710 | 3.4 |
| 4.01 -4.50 | 9,267 | 6.8 | 225 | 82.7 | 0 | 0.0 | 7,954 | 9.0 | 17,446 | 7.7 |
| 4.51 -5.00 | 1,924 | 1.4 | 0 | 0.0 | 0 | 1.8 | 2,800 | 3.2 | 4,724 | 2.1 |
| Above 5 | 13,349 | 9.7 | 0 | 0.0 | 0 | 0.0 | 29,414 | 33.1 | 42,763 | 18.9 |
| **Total** | **137,109** | **100.0** | **272** | **100.0** | **0** | **0.0** | **88,868** | **100.0** | **226,250** | **100** |

**HOUSEHOLDS DEMOGRAPHICS**

### 3.1 Number of Heads of Agricultural Households by Sex of Head and District, 2007/08 Agricultural Year

| | Male | | Female | | |
|---|---|---|---|---|---|
| **District** | Number | Percent | Number | Percent | Total |
| Mpanda | 60,859 | 85 | 10,584 | 15 | 71,443 |
| Sumbawanga Rural | 82,391 | 90 | 8,779 | 10 | 91,170 |
| Nkasi | 39,776 | 88 | 5,475 | 12 | 45,251 |
| Sumbawanga Urban | 15,792 | 86 | 2,593 | 14 | 18,385 |
| **Total** | **198,818** | **88** | **27,431** | **12** | **226,250** |

### 3.2 Number of Household Members Classified by District and Sex

| District | Male | | Female | | Total |
|---|---|---|---|---|---|
| | Number | Percent | Number | Percent | |
| Mpanda | 209,567 | 51 | 198,807 | 49 | 408,374 |
| Sumbawanga Rural | 252,800 | 51 | 246,046 | 49 | 498,846 |
| Nkasi | 126,144 | 52 | 116,423 | 48 | 242,567 |
| Sumbawanga Urban | 48,792 | 50 | 48,132 | 50 | 96,924 |
| **Total** | **637,303** | **51** | **609,408** | **49** | **1,246,711** |

### 3.3a Number of Agricultural Household Members By Sex and Age Group, 2007/08 Agricultural Year, Rukwa- (Row percent)

| | Sex | | | | | |
|---|---|---|---|---|---|---|
| | Male | | Female | | Total | |
| Age Group | Number | % | Number | % | Number | % |
| Less than 4 | 101,390 | 50 | 103,190 | 50 | 204,580 | 100 |
| 5 - 9 | 107,288 | 52 | 98,720 | 48 | 206,007 | 100 |
| 10 - 14 | 97,155 | 53 | 86,834 | 47 | 183,989 | 100 |
| 15 - 19 | 77,269 | 55 | 64,351 | 45 | 141,620 | 100 |
| 20 - 24 | 44,234 | 45 | 54,310 | 55 | 98,544 | 100 |
| 25 - 29 | 43,548 | 44 | 56,072 | 56 | 99,620 | 100 |
| 30 - 34 | 37,405 | 55 | 31,144 | 45 | 68,550 | 100 |
| 35 - 39 | 31,792 | 50 | 31,164 | 50 | 62,955 | 100 |
| 40 - 44 | 23,158 | 53 | 20,560 | 47 | 43,718 | 100 |
| 45 - 49 | 20,968 | 51 | 19,795 | 49 | 40,763 | 100 |
| 50 - 54 | 14,336 | 48 | 15,525 | 52 | 29,861 | 100 |
| 55 - 59 | 12,593 | 62 | 7,841 | 38 | 20,434 | 100 |
| 60 - 64 | 9,466 | 53 | 8,346 | 47 | 17,812 | 100 |
| 65 - 69 | 6,675 | 59 | 4,702 | 41 | 11,376 | 100 |
| 70 - 74 | 5,345 | 60 | 3,517 | 40 | 8,862 | 100 |
| 75 - 79 | 2,692 | 68 | 1,245 | 32 | 3,937 | 100 |
| 80 - 84 | 653 | 37 | 1,135 | 63 | 1,788 | 100 |
| Above 85 | 1,336 | 58 | 959 | 42 | 2,295 | 100 |
| **Total** | **637,303** | **51** | **609,408** | **49** | **1,246,711** | **100** |

**3.3b Number of Agricultural Household Members By Sex and Age Group, 2007/08 Agricultural Year, Rukwa- (Column percent)**

| | Sex | | | | | |
|---|---|---|---|---|---|---|
| | Male | | Female | | Total | |
| Age Group | Number | % | Number | % | Number | % |
| Less than 4 | 101,390 | 16 | 103,190 | 17 | 204,580 | 16 |
| 5 - 9 | 107,288 | 17 | 98,720 | 16 | 206,007 | 17 |
| 10 - 14 | 97,155 | 15 | 86,834 | 14 | 183,989 | 15 |
| 15 - 19 | 77,269 | 12 | 64,351 | 11 | 141,620 | 11 |
| 20 - 24 | 44,234 | 7 | 54,310 | 9 | 98,544 | 8 |
| 25 - 29 | 43,548 | 7 | 56,072 | 9 | 99,620 | 8 |
| 30 - 34 | 37,405 | 6 | 31,144 | 5 | 68,550 | 5 |
| 35 - 39 | 31,792 | 5 | 31,164 | 5 | 62,955 | 5 |
| 40 - 44 | 23,158 | 4 | 20,560 | 3 | 43,718 | 4 |
| 45 - 49 | 20,968 | 3 | 19,795 | 3 | 40,763 | 3 |
| 50 - 54 | 14,336 | 2 | 15,525 | 3 | 29,861 | 2 |
| 55 - 59 | 12,593 | 2 | 7,841 | 1 | 20,434 | 2 |
| 60 - 64 | 9,466 | 1 | 8,346 | 1 | 17,812 | 1 |
| 65 - 69 | 6,675 | 1 | 4,702 | 1 | 11,376 | 1 |
| 70 - 74 | 5,345 | 1 | 3,517 | 1 | 8,862 | 1 |
| 75 - 79 | 2,692 | 0 | 1,245 | 0 | 3,937 | 0 |
| 80 - 84 | 653 | 0 | 1,135 | 0 | 1,788 | 0 |
| Above 85 | 1,336 | 0 | 959 | 0 | 2,295 | 0 |
| **Total** | **637,303** | **100** | **609,408** | **100** | **1,246,711** | **100** |

### 3.4 Number of Heads of Agricultural Households by Marital Status, Sex of Head and District, 2007/08 Agricultural Year

| District | Married | | | | | | Not Married | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Male | % | Female | % | Total | % | Male | % | Female | % | Total | % |
| Mpanda | 55,920 | 97 | 1,940 | 3 | 57,860 | 100 | 2,646 | 65 | 1,411 | 35 | 4,057 | 100 |
| Sumbawanga Rural | 77,213 | 95 | 4,277 | 5 | 81,490 | 100 | 1,351 | 86 | 225 | 14 | 1,576 | 100 |
| Nkasi | 38,547 | 97 | 1,229 | 3 | 39,776 | 100 | 223 | 33 | 447 | 67 | 670 | 100 |
| Sumbawanga Urban | 14,708 | 96 | 613 | 4 | 15,321 | 100 | 330 | 78 | 94 | 22 | 424 | 100 |
| **Total** | **186,388** | **96** | **8,059** | **4** | **194,448** | **100** | **4,550** | **68** | **2,178** | **32** | **6,728** | **100** |

### Cont. 3.4 Number of Heads of Agricultural Households by Marital Status, Sex of Head and District, 2007/08 Agricultural Year

| District | Living together | | | | | | Separated | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Male | % | Female | % | Total | % | Male | % | Female | % | Total | % |
| Mpanda | 176 | 33 | 353 | 67 | 529 | 100 | 1,235 | 28 | 3,175 | 72 | 4,410 | 100 |
| Sumbawanga Rural | 2,701 | 100 | 0 | 0 | 2,701 | 100 | 675 | 27 | 1,801 | 73 | 2,476 | 100 |
| Nkasi | 112 | 33 | 223 | 67 | 335 | 100 | 447 | 25 | 1,341 | 75 | 1,788 | 100 |
| Sumbawanga Urban | 141 | 60 | 94 | 40 | 236 | 100 | 0 | 0 | 519 | 100 | 519 | 100 |
| **Total** | **3,131** | **82** | **671** | **18** | **3,801** | **100** | **2,357** | **26** | **6,835** | **74** | **9,193** | **100** |

### Cont. 3.4 Number of Heads of Agricultural Households by Marital Status, Sex of Head and District, 2007/08 Agricultural Year

| District | Widowed | | | | | | Total | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Male | % | Female | % | Total | % | Male | % | Female | % | Total | % |
| Mpanda | 882 | 19 | 3,704 | 81 | 4,586 | 100 | 60,859 | 85 | 10,584 | 15 | 71,443 | 100 |
| Sumbawanga Rural | 450 | 15 | 2,476 | 85 | 2,926 | 100 | 82,391 | 90 | 8,779 | 10 | 91,170 | 100 |
| Nkasi | 447 | 17 | 2,235 | 83 | 2,682 | 100 | 39,776 | 88 | 5,475 | 12 | 45,251 | 100 |
| Sumbawanga Urban | 613 | 33 | 1,273 | 68 | 1,886 | 100 | 15,792 | 86 | 2,593 | 14 | 18,385 | 100 |
| **Total** | **2,392** | **20** | **9,688** | **80** | **12,080** | **100** | **198,818** | **88** | **27,431** | **12** | **226,250** | **100** |

### 3.5 Number of Heads of Agricultural Households by Survival of Female Parent, Sex of Head and District, 2007/08 Agricultural Year

| District | Yes | | | | | | No | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Male | % | Female | % | Total | % | Male | % | Female | % | Total | % |
| Mpanda | 25,931 | 86 | 4,234 | 14 | 30,165 | 100 | 34,399 | 84 | 6,351 | 16 | 40,749 | 100 |
| Sumbawanga Rural | 45,022 | 94 | 2,926 | 6 | 47,949 | 100 | 37,143 | 86 | 5,853 | 14 | 42,996 | 100 |
| Nkasi | 22,570 | 91 | 2,235 | 9 | 24,804 | 100 | 17,207 | 84 | 3,240 | 16 | 20,447 | 100 |
| Sumbawanga Urban | 7,778 | 87 | 1,131 | 13 | 8,910 | 100 | 7,967 | 85 | 1,461 | 16 | 9,428 | 100 |
| **Total** | **101,302** | **91** | **10,526** | **9** | **111,828** | **100** | **96,715** | **85** | **16,905** | **15** | **113,620** | **100** |

### Cont. 3.5 Number of Heads of Agricultural Households by Survival of Female Parent, Sex of Head and District, 2007/08 Agricultural Year

| District | Don't know | | | | | | Total | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Male | % | Female | % | Total | % | Male | % | Female | % | Total | % |
| Mpanda | 529 | 100 | 0 | 0 | 529 | 100 | 60,859 | 85 | 10,584 | 15 | 71,443 | 100 |
| Sumbawanga Rural | 225 | 100 | 0 | 0 | 225 | 100 | 82,391 | 90 | 8,779 | 10 | 91,170 | 100 |
| Nkasi | 0 | 0 | 0 | 0 | 0 | 100 | 39,776 | 88 | 5,475 | 12 | 45,251 | 100 |
| Sumbawanga Urban | 47 | 100 | 0 | 0 | 47 | 100 | 15,792 | 86 | 2,593 | 14 | 18,385 | 100 |
| **Total** | **801** | **100** | **0** | **0** | **801** | **100** | **198,818** | **88** | **27,431** | **12** | **226,250** | **100** |

### 3.6 Number of Heads of Agricultural Households by Survival of Male Parent, Sex of Head and District, 2007/08 Agricultural Year

| District | Yes | | | | | | No | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Male | % | Female | % | Total | % | Male | % | Female | % | Total | % |
| Mpanda | 33,693 | 86 | 5,292 | 14 | 38,985 | 100 | 26,990 | 84 | 5,292 | 16 | 32,282 | 100 |
| Sumbawanga Rural | 54,252 | 92 | 4,502 | 8 | 58,754 | 100 | 28,139 | 87 | 4,277 | 13 | 32,416 | 100 |
| Nkasi | 26,704 | 92 | 2,458 | 8 | 29,162 | 100 | 13,072 | 81 | 3,017 | 19 | 16,089 | 100 |
| Sumbawanga Urban | 9,287 | 88 | 1,320 | 12 | 10,607 | 100 | 6,506 | 84 | 1,226 | 16 | 7,731 | 100 |
| **Total** | **123,935** | **90** | **13,572** | **10** | **137,508** | **100** | **74,707** | **84** | **13,812** | **16** | **88,518** | **100** |

**Cont. 3.6 Number of Heads of Agricultural Households by Survival of Male Parent, Sex of Head and District,, 2007/08 Agricultural Year**

| District | Don't know | | | | | | Total | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Male | % | Female | % | Total | % | Male | % | Female | % | Total | % |
| Mpanda | 176 | 100 | 0 | 0 | 176 | 100 | 60,859 | 85 | 10,584 | 15 | 71,443 | 100 |
| Sumbawanga Rural | 0 | 0 | 0 | 0 | 0 | 0 | 82,391 | 90 | 8,779 | 10 | 91,170 | 100 |
| Nkasi | 0 | 0 | 0 | 0 | 0 | 0 | 39,776 | 88 | 5,475 | 12 | 45,251 | 100 |
| Sumbawanga Urban | 0 | 0 | 47 | 100 | 47 | 100 | 15,792 | 86 | 2,593 | 14 | 18,385 | 100 |
| **Total** | **176** | **79** | **47** | **21** | **224** | **100** | **198,818** | **88** | **27,431** | **12** | **226,250** | **100** |

**3.7 Number of Household Members Who Can Read and Write by Type of Language and District**

| District | Swahili | | Swahili & English | | Any Other Language | | Don't Read / Write | | Total |
|---|---|---|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % | Number | % | |
| Mpanda | 210,979 | 60.8 | 14,641 | 4.2 | 0 | 0 | 121,542 | 35 | 347,162 |
| Sumbawanga Rural | 251,224 | 60.9 | 26,338 | 6.4 | 225 | 0.1 | 134,616 | 32.6 | 412,403 |
| Nkasi | 134,971 | 67.3 | 8,045 | 4 | 112 | 0.1 | 57,318 | 28.6 | 200,445 |
| Sumbawanga Urban | 45,680 | 55.6 | 14,237 | 17.3 | 47 | 0.1 | 22,157 | 27 | 82,121 |
| **Total** | **642,854** | **61.7** | **63,261** | **6.1** | **384** | **0** | **335,633** | **32.2** | **1,042,131** |

### 3.8 Number of Agricultural Household Members Reporting Literacy Levels by Sex of Member and District, 2007/08 Agricultural Year

| | Male | | | | | | Female | | | | | | Total | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Can Read and Write | | Can not Read and Write | | Total | | Can Read and Write | | Can not Read and Write | | Total | | Can Read and Write | | Can not Read and Write | | Total | |
| District | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 126,481 | 71 | 52,215 | 29 | 178,697 | 100 | 99,139 | 59 | 69,327 | 41 | 168,465 | 100 | 225,620 | 65 | 121,542 | 35 | 347,162 | 100 |
| Sumbawanga Rural | 150,824 | 72 | 58,979 | 28 | 209,803 | 100 | 126,963 | 63 | 75,637 | 37 | 202,600 | 100 | 277,787 | 67 | 134,616 | 33 | 412,403 | 100 |
| Nkasi | 79,776 | 76 | 25,586 | 24 | 105,362 | 100 | 63,351 | 67 | 31,732 | 33 | 95,083 | 100 | 143,127 | 71 | 57,318 | 29 | 200,445 | 100 |
| Sumbawanga Urban | 31,585 | 75 | 10,465 | 25 | 42,050 | 100 | 28,379 | 71 | 11,691 | 29 | 40,071 | 100 | 59,964 | 73 | 22,157 | 27 | 82,121 | 100 |
| **Total** | **388,666** | **73** | **147,246** | **27** | **535,913** | **100** | **317,832** | **63** | **188,387** | **37** | **506,219** | **100** | **706,499** | **68** | **335,633** | **32** | **1,042,131** | **100** |

### 3.9 Number of Heads of Agricultural Households Reporting Literacy Levels by Sex of Member and District, 2007/08 Agricultural Year

| | Male | | | | | | Female | | | | | | Total | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Can Read and Write | | Can not Read and Write | | Total | | Can Read and Write | | Can not Read and Write | | Total | | Can Read and Write | | Can not Read and Write | | Total | |
| District | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 48,158 | 79 | 12,701 | 21 | 60,859 | 100 | 5,292 | 50 | 5,292 | 50 | 10,584 | 100 | 53,450 | 75 | 17,993 | 25 | 71,443 | 100 |
| Sumbawanga Rural | 66,408 | 81 | 15,983 | 19 | 82,391 | 100 | 4,052 | 46 | 4,727 | 54 | 8,779 | 100 | 70,460 | 77 | 20,710 | 23 | 91,170 | 100 |
| Nkasi | 33,072 | 83 | 6,704 | 17 | 39,776 | 100 | 3,017 | 55 | 2,458 | 45 | 5,475 | 100 | 36,089 | 80 | 9,162 | 20 | 45,251 | 100 |
| Sumbawanga Urban | 12,728 | 81 | 3,064 | 19 | 15,792 | 100 | 1,226 | 47 | 1,367 | 53 | 2,593 | 100 | 13,954 | 76 | 4,431 | 24 | 18,385 | 100 |
| **Total** | **160,366** | **81** | **38,452** | **19** | **198,818** | **100** | **13,587** | **50** | **13,845** | **50** | **27,431** | **100** | **173,953** | **77** | **52,297** | **23** | **226,250** | **100** |

**3.10 Number of Heads of Agricultural Households By Status of Writing and Reading Languages, Sex of Head and District, 2007/08 Agricultural Year**

| | Swahili | | | | | | Swahili & English | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| District | Male | % | Female | % | Total | % | Male | % | Female | % | Total | % |
| Mpanda | 44,101 | 90 | 4,939 | 10 | 49,040 | 100 | 4,057 | 92 | 353 | 8 | 4,410 | 100 |
| Sumbawanga Rural | 59,880 | 94 | 3,827 | 6 | 63,706 | 100 | 6,528 | 97 | 225 | 3 | 6,753 | 100 |
| Nkasi | 30,279 | 92 | 2,793 | 8 | 33,072 | 100 | 2,682 | 92 | 223 | 8 | 2,905 | 100 |
| Sumbawanga Urban | 9,900 | 91 | 943 | 9 | 10,843 | 100 | 2,781 | 91 | 283 | 9 | 3,064 | 100 |
| **Total** | **144,159** | **92** | **12,502** | **8** | **156,662** | **100** | **16,048** | **94** | **1,084** | **6** | **17,133** | **100** |

**Cont. 3.10 Number of Heads of Agricultural Households By Status of Writing and Reading Languages, Sex of Head and District, 2007/08 Agricultural Year**

| | Any Other Language | | | | | | Don't Read / Write | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| District | Male | % | Female | % | Total | % | Male | % | Female | % | Total | % |
| Mpanda | 0 | 0 | 0 | 0 | 0 | 0 | 12,701 | 71 | 5,292 | 29 | 17,993 | 100 |
| Sumbawanga Rural | 0 | 0 | 0 | 0 | 0 | 0 | 15,983 | 77 | 4,727 | 23 | 20,710 | 100 |
| Nkasi | 112 | 100 | 0 | 0 | 112 | 100 | 6,704 | 73 | 2,458 | 27 | 9,162 | 100 |
| Sumbawanga Urban | 47 | 100 | 0 | 0 | 47 | 100 | 3,064 | 69 | 1,367 | 31 | 4,431 | 100 |
| **Total** | **159** | **100** | **0** | **0** | **159** | **100** | **38,452** | **74** | **13,845** | **26** | **52,297** | **100** |

**3.11 Number of Household Members by Education Status and District**

| District | Attending School | % | Completed | % | Never Attended to School | % | Total |
|---|---|---|---|---|---|---|---|
| Mpanda | 117,308 | 33 | 122,953 | 31 | 106,901 | 37 | 347,162 |
| Sumbawanga Rural | 143,396 | 41 | 155,101 | 39 | 113,906 | 40 | 412,403 |
| Nkasi | 62,011 | 18 | 91,061 | 23 | 47,374 | 16 | 200,445 |
| Sumbawanga Urban | 30,689 | 9 | 31,868 | 8 | 19,564 | 7 | 82,121 |
| **Total** | **353,404** | **100** | **400,983** | **100** | **287,744** | **100** | **1,042,131** |

**3.12 Number of Heads of Agricultural Households by Education Status, Sex of Head and District, 2007/08 Agricultural Year**

| District | Attending School | | | | | | Completed | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Male | % | Female | % | Total | % | Male | % | Female | % | Total | % |
| Mpanda | 529 | 100 | 0 | 0 | 529 | 100 | 47,982 | 90 | 5,116 | 10 | 53,097 | 100 |
| Sumbawanga Rural | 1,126 | 100 | 0 | 0 | 1,126 | 100 | 65,507 | 94 | 4,052 | 6 | 69,559 | 100 |
| Nkasi | 112 | 100 | 0 | 0 | 112 | 100 | 33,296 | 91 | 3,240 | 9 | 36,536 | 100 |
| Sumbawanga Urban | 236 | 100 | 0 | 0 | 236 | 100 | 12,493 | 91 | 1,226 | 9 | 13,718 | 100 |
| **Total** | **2,002** | **100** | **0** | **0** | **2,002** | **100** | **159,277** | **92** | **13,634** | **8** | **172,911** | **100** |

**Cont.. 3.12 Number of Heads of Agricultural Households by Education Status, Sex of head and District, 2007/08 Agricultural Year**

| District | Never Attended to School | | | | | | Total | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Male | % | Female | % | Total | % | Male | % | Female | % | Total | % |
| Mpanda | 12,348 | 69 | 5,469 | 31 | 17,817 | 100 | 60,859 | 85 | 10,584 | 15 | 71,443 | 100 |
| Sumbawanga Rural | 15,758 | 77 | 4,727 | 23 | 20,485 | 100 | 82,391 | 90 | 8,779 | 10 | 91,170 | 100 |
| Nkasi | 6,369 | 74 | 2,235 | 26 | 8,603 | 100 | 39,776 | 88 | 5,475 | 12 | 45,251 | 100 |
| Sumbawanga Urban | 3,064 | 69 | 1,367 | 31 | 4,431 | 100 | 15,792 | 86 | 2,593 | 14 | 18,385 | 100 |
| **Total** | **37,539** | **73** | **13,798** | **27** | **51,336** | **100** | **198,818** | **88** | **27,431** | **12** | **226,250** | **100** |

**cont 3.13 Number of Agricultural Household Members By Level of Formal Education Completion and District, 2007/08 Agricultural Year**

| District | Education Level | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Standard Six | | Standard Seven | | Standard Eight | | Training After Primary Education | | Pre Form One | | Form One | |
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 5,998 | 4.9 | 78,147 | 63.6 | 882 | 0.7 | 176 | 0.1 | 176 | 0.1 | 706 | 0.6 |
| Sumbawanga Rural | 3,602 | 2.3 | 124,036 | 80.0 | 675 | 0.4 | 900 | 0.6 | 450 | 0.3 | 900 | 0.6 |
| Nkasi | 3,128 | 3.4 | 66,927 | 73.5 | 112 | 0.1 | 335 | 0.4 | 0 | 0.0 | 335 | 0.4 |
| Sumbawanga Urban | 754 | 2.4 | 23,477 | 73.7 | 377 | 1.2 | 236 | 0.7 | 0 | 0.0 | 141 | 0.4 |
| **Total** | **13,482** | **3.4** | **292,586** | **73.0** | **2,046** | **0.5** | **1,648** | **0.4** | **627** | **0.2** | **2,083** | **0.5** |

**3.13 Number of Agricultural Household Members By Level of Formal Education Completion and District, 2007/08 Agricultural Year**

| District | Education Level | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Under Standard One | | Standard One | | Standard Two | | Standard Three | | Standard Four | | Standard Five | |
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 0 | 0.0 | 1,940 | 1.6 | 3,881 | 3.2 | 4,234 | 3.4 | 13,230 | 10.8 | 5,998 | 4.9 |
| Sumbawanga Rural | 0 | 0.0 | 675 | 0.4 | 2,251 | 1.5 | 4,952 | 3.2 | 8,779 | 5.7 | 2,926 | 1.9 |
| Nkasi | 112 | 0.1 | 2,458 | 2.7 | 2,346 | 2.6 | 3,017 | 3.3 | 4,469 | 4.9 | 4,022 | 4.4 |
| Sumbawanga Urban | 0 | 0.0 | 283 | 0.9 | 849 | 2.7 | 707 | 2.2 | 1,886 | 5.9 | 660 | 2.1 |
| **Total** | **112** | **0.0** | **5,357** | **1.3** | **9,327** | **2.3** | **12,910** | **3.2** | **28,364** | **7.1** | **13,606** | **3.4** |

### 3.14 Number of Heads of Agricultural Households By Level of Formal Education Completion and District , 2007/08 Agricultural Year

| District | Primary Education | | Post Primary Education | | Adult Education | | No Education | | Total | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 49,746 | 70 | 2,999 | 4 | 706 | 1 | 17,993 | 25 | 71,443 | 100 |
| Sumbawanga Rural | 66,408 | 73 | 3,152 | 3 | 1,126 | 1 | 20,485 | 22 | 91,170 | 100 |
| Nkasi | 34,301 | 76 | 1,788 | 4 | 559 | 1 | 8,603 | 19 | 45,251 | 100 |
| Sumbawanga Urban | 12,540 | 68 | 896 | 5 | 519 | 3 | 4,431 | 24 | 18,385 | 100 |
| **Total** | **162,995** | **72** | **8,834** | **4** | **2,908** | **1** | **51,513** | **23** | **226,250** | **100** |

### 3.15 Number of Agricultural Household Members By Level of Involvement in Farming Activity and District, 2007/08 Agricultural Year

| District | Involvement in Farming | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Works Full-time on Farm | | Works Part-time on Farm | | Rarely Works on Farm | | Never Works on Farm | | Total | |
| | Number | % | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 180,990 | 52 | 5,292 | 2 | 80,087 | 23 | 80,793 | 23 | 347,162 | 100 |
| Sumbawanga Rural | 210,479 | 51 | 7,879 | 2 | 61,680 | 15 | 132,365 | 32 | 412,403 | 100 |
| Nkasi | 102,569 | 51 | 15,307 | 8 | 21,341 | 11 | 61,228 | 31 | 200,445 | 100 |
| Sumbawanga Urban | 36,676 | 45 | 3,394 | 4 | 21,544 | 26 | 20,507 | 25 | 82,121 | 100 |
| **Total** | **530,714** | **51** | **31,872** | **3** | **184,652** | **18** | **294,893** | **28** | **1,042,131** | **100** |

### 3.16 Number of Agricultural Household Members By Main Activity and District, 2007/08 Agricultural Year

| District | Main Activity | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Crop/Seaweed Farming | | Livestock Keeping / Herding | | Livestock Pastoralist | | Fishing | | Fish Farming | |
| | Number | % | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 181,872 | 52 | 3,352 | 1 | 176 | 0 | 706 | 0 | 0 | 0 |
| Sumbawanga Rural | 209,578 | 51 | 2,926 | 1 | 0 | 0 | 1,351 | 0 | 0 | 0 |
| Nkasi | 101,898 | 51 | 2,346 | 1 | 0 | 0 | 6,927 | 3 | 0 | 0 |
| Sumbawanga Urban | 38,986 | 47 | 519 | 1 | 0 | 0 | 47 | 0 | 0 | 0 |
| **Total** | **532,335** | **51** | **9,143** | **1** | **176** | **0** | **9,031** | **1** | **0** | **0** |

**Cont 3.16 Number of Agricultural Household Members By Main Activity and District, 2007/08 Agricultural Year**

| | Main Activity | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Government / Parastatal | | Private - NGO / Mission / etc | | Self Employed (Non Farming) with Employees | | Self Employed (Non Farming) without Employees | | Unpaid Family Helper (Non Agriculture) | |
| District | Number | % | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 882 | 0 | 529 | 0 | 0 | 0 | 176 | 0 | 2,999 | 1 |
| Sumbawanga Rural | 450 | 0 | 1,126 | 0 | 1,576 | 0 | 225 | 0 | 1,351 | 0 |
| Nkasi | 1,006 | 1 | 2,793 | 1 | 0 | 0 | 782 | 0 | 223 | 0 |
| Sumbawanga Urban | 141 | 0 | 283 | 0 | 424 | 1 | 1,461 | 2 | 471 | 1 |
| **Total** | **2,479** | **0** | **4,731** | **0** | **2,000** | **0** | **2,645** | **0** | **5,044** | **0** |

**Cont 3.16 Number of Agricultural Household Members By Main Activity and District, 2007/08 Agricultural Year**

| | Main Activity | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Not Working & Available | | Not Working & Unavailable | | Housemaker / Housewife | | Student | | Unable to Work / Too Old / Retired / Sick / Disabled | | Other | | Total | |
| District | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 0 | 0 | 706 | 0 | 1,058 | 0 | 118,543 | 34 | 35,457 | 10 | 706 | 0 | 347,162 | 100 |
| Sumbawanga Rural | 225 | 0 | 1,126 | 0 | 900 | 0 | 135,067 | 33 | 56,503 | 14 | 0 | 0 | 412,403 | 100 |
| Nkasi | 0 | 0 | 670 | 0 | 1,676 | 1 | 61,228 | 31 | 20,894 | 10 | 0 | 0 | 200,445 | 100 |
| Sumbawanga Urban | 141 | 0 | 236 | 0 | 236 | 0 | 30,548 | 37 | 8,627 | 11 | 0 | 0 | 82,121 | 100 |
| **Total** | **367** | **0** | **2,737** | **0** | **3,871** | **0** | **345,386** | **33** | **121,481** | **12** | **706** | **0** | **1,042,131** | **100** |

**LAND ACCESS/ OWNERSHIP AND LAND USE**

### 4.1 Number of Farming Households by Type of Land Ownership/Tenure and District for the 2007/08 Agriculture year

| District | Land ownership/tenure | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Leased / Certificate of Ownership | | Owned under Customary Law | | Bought | | Rented | | Borrowed | | Households with area Share - cropped | | Households with area under Other forms of Tenure | | Total number of households |
| | Number of Households | % | Number of Households | % | Number of Households | % | Number of Households | % | Number of Households | % | Number of Households | % | Number of Households | % | |
| Mpanda | 6,174 | 8.6 | 51,333 | 71.9 | 13,407 | 18.8 | 5,469 | 7.7 | 4,586 | 6.4 | 0 | 0.0 | 882 | 1.2 | 71,443 |
| Sumbawanga Rural | 3,152 | 3.5 | 68,434 | 75.1 | 19,810 | 21.7 | 14,407 | 15.8 | 5,853 | 6.4 | 450 | 0.5 | 900 | 1.0 | 91,170 |
| Nkasi | 1,006 | 2.2 | 29,944 | 66.2 | 15,084 | 33.3 | 2,570 | 5.7 | 4,134 | 9.1 | 447 | 1.0 | 2,682 | 5.9 | 45,251 |
| Sumbawanga Urban | 1,367 | 7.4 | 15,321 | 83.3 | 4,997 | 27.2 | 1,320 | 7.2 | 660 | 3.6 | 47 | 0.3 | 236 | 1.3 | 18,385 |
| **Total** | **11,698** | **5.2** | **165,032** | **72.9** | **53,297** | **23.6** | **23,765** | **10.5** | **15,233** | **6.7** | **944** | **0.4** | **4,700** | **2.1** | **226,250** |

### 4.2 Area of Land (ha) by Ownership/Tenure and District for the 2007/08 Agriculture Year

| District | Land Ownership/Tenure | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Area leased / Certificate of Ownership | Area owned under Customary Law | Area Bought | Area rented | Area Borrowed | Area Share - cropped | Area under Other forms of Tenure | Total area |
| Mpanda | 32,138 | 189,241 | 45,333 | 7,142 | 6,321 | 0 | 3,482 | 283,656 |
| Sumbawanga Rural | 5,651 | 207,262 | 67,538 | 17,499 | 4,922 | 638 | 4,375 | 307,883 |
| Nkasi | 4,297 | 100,580 | 56,092 | 2,952 | 5,734 | 1,176 | 10,879 | 181,709 |
| Sumbawanga Urban | 1,388 | 27,400 | 9,616 | 1,031 | 496 | 38 | 167 | 40,137 |
| **Total** | **43,475** | **524,483** | **178,579** | **28,623** | **17,473** | **1,852** | **18,902** | **813,386** |
| **%** | **5.3** | **64.5** | **22.0** | **3.5** | **2.1** | **0.2** | **2.3** | **100** |

### 4.3 Number of Agriculture Households by Whether All Land Available to the Household Was Used during 2007/08 agriculture year and District

| District | Was all Land Available to the Hh Used During 2007/08? | | | | |
|---|---|---|---|---|---|
| | Yes | % | No | % | Total |
| Mpanda | 29,107 | 41 | 42,337 | 59 | 71,443 |
| Sumbawanga Rural | 39,620 | 43 | 51,550 | 57 | 91,170 |
| Nkasi | 15,307 | 34 | 29,944 | 66 | 45,251 |
| Sumbawanga Urban | 9,381 | 51 | 9,004 | 49 | 18,385 |
| **Total** | **93,414** | **41** | **132,835** | **59** | **226,250** |

### 4.4 Number of Agriculture Households by Whether they Consider Having Sufficient Land for the Household and District during 2007/08 agriculture year

| District | Do you Consider that you have sufficient land for the Hh? | | | | |
|---|---|---|---|---|---|
| | Yes | % | No | % | Total |
| Mpanda | 33,869 | 47 | 37,574 | 53 | 71,443 |
| Sumbawanga Rural | 38,044 | 42 | 53,126 | 58 | 91,170 |
| Nkasi | 17,877 | 40 | 27,374 | 60 | 45,251 |
| Sumbawanga Urban | 6,883 | 37 | 11,503 | 63 | 18,385 |
| **Total** | **96,673** | **43** | **129,577** | **57** | **226,250** |

### 4.5 Number of Agriculture Households By Whether Female Members of the Household Own or Have Customary Right to Land By District During 2007/08 Agriculture year

| District | Do any Female Members of the Hh own or have customary right to Land | | | | |
|---|---|---|---|---|---|
| | Yes | % | No | % | Total |
| Mpanda | 21,521 | 30 | 49,922 | 70 | 71,443 |
| Sumbawanga Rural | 13,056 | 14 | 78,114 | 86 | 91,170 |
| Nkasi | 5,922 | 13 | 39,329 | 87 | 45,251 |
| Sumbawanga Urban | 6,694 | 36 | 11,691 | 64 | 18,385 |
| **Total** | **47,194** | **21** | **179,056** | **79** | **226,250** |

### 4.6 Number of Agricultural Households by Type of Land Use and District for the 2007/08 Agriculture year

| District | Type of land use | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Households under Temporary Mono Crops | Households under Temporary Mixed Crops | Households under Permanent Mono Crops | Households under Permanent Mixed Crops | Households under Permanent / Annual Mix | Households under Pasture | Households under Fallow | Households under Natural Bush | Households under Planted Trees | Households Rented to Others | Households Unusable | Households of Uncultivated Usable Land | Total number of households |
| Mpanda | 62,094 | 13,054 | 6,174 | 353 | 882 | 1,764 | 16,582 | 5,998 | 529 | 1,588 | 1,764 | 24,696 | 71,443 |
| Sumbawanga Rural | 83,291 | 5,628 | 4,502 | 450 | 6,303 | 2,476 | 27,013 | 5,628 | 3,377 | 4,502 | 5,853 | 12,606 | 91,170 |
| Nkasi | 41,117 | 5,363 | 670 | 0 | 670 | 1,341 | 21,787 | 2,123 | 335 | 447 | 2,570 | 8,380 | 45,251 |
| Sumbawanga Urban | 16,217 | 7,166 | 896 | 566 | 1,084 | 707 | 5,610 | 377 | 1,179 | 1,037 | 471 | 1,320 | 18,385 |
| **Total** | **202,719** | **31,210** | **12,242** | **1,369** | **8,940** | **6,288** | **70,993** | **14,126** | **5,420** | **7,574** | **10,658** | **47,002** | **226,250** |

### 4.7 Area of Land (ha) by Land Use and District for the 2007/08 Agriculture Year

| District | Land use area | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Area under Temporary Mono Crops | Area under Temporary Mixed Crops | Area under Permanent Mono Crops | Area under Permanent Mixed Crops | Area under Permanent / Annual Mix | Area under Pasture | Area under Fallow | Area under Natural Bush | Area under Planted Trees | Area Rented to Others | Area Unusable | Area of Uncultivated Usable Land | Total area (ha) |
| Mpanda | 127,714 | 15,926 | 3,517 | 161 | 750 | 7,570 | 30,103 | 21,533 | 1,000 | 2,357 | 2,785 | 70,240 | 283,656.21 |
| Sumbawanga Rural | 176,320 | 7,391 | 4,261 | 314 | 4,817 | 8,294 | 53,791 | 19,914 | 1,390 | 7,382 | 4,921 | 19,089 | 307,883.49 |
| Nkasi | 84,714 | 5,678 | 498 | 0 | 2,737 | 3,596 | 48,995 | 3,935 | 1,040 | 452 | 3,013 | 27,051 | 181,709.39 |
| Sumbawanga Urban | 22,329 | 6,296 | 226 | 158 | 640 | 701 | 6,728 | 310 | 468 | 754 | 286 | 1,241 | 40,137.32 |
| **Total** | **411,078** | **35,291** | **8,502** | **634** | **8,943** | **20,162** | **139,616** | **45,692** | **3,898** | **10,945** | **11,006** | **117,620** | **813,386.42** |
| **%** | **50.5** | **4.3** | **1.0** | **0.1** | **1.1** | **2.5** | **17.2** | **5.6** | **0.5** | **1.3** | **1.4** | **14.5** | **100.0** |

## ANNUAL CROP AND VEGETABLE PRODUCTION

### 5.1 Number of Household Members Owning Most of the Crop by Sex of the Main Owner, Season and District for the Agriculture Year 2007/08

| District | SHORT RAINY SEASON | | | | | | LONG RAINY SEASON | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Male | | Female | | Total | | Male | | Female | | Total | |
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 1,058 | 75 | 353 | 25 | 1,411 | 100 | 57,331 | 76 | 17,817 | 24 | 75,148 | 100 |
| Sumbawanga Rural | 675 | 50 | 675 | 50 | 1,351 | 100 | 77,888 | 85 | 14,182 | 15 | 92,070 | 100 |
| Nkasi | 112 | 100 | 0 | 0 | 112 | 100 | 34,301 | 84 | 6,369 | 16 | 40,670 | 100 |
| Sumbawanga Urban | 0 | 0 | 0 | 0 | 0 | 0 | 14,473 | 72 | 5,751 | 28 | 20,224 | 100 |
| **Total** | **1,845** | **64** | **1,028** | **36** | **2,874** | **100** | **183,993** | **81** | **44,119** | **19** | **228,112** | **100** |

### 5.2 Planted Area by District, Season and Sex of Household Members Owning Most of the Crop for the Agriculture Year 2007/08

| District | SHORT RAINY SEASON | | | | | | LONG RAINY SEASON | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Male | | Female | | Total | | Male | | Female | | Total | |
| | Area (ha) | % | Area (ha) | % | Area (ha) | % | Area (ha) | % | Area (ha) | % | Area (ha) | % |
| Mpanda | 946 | 75 | 286 | 25 | 1,232 | 100 | 120,622 | 76 | 16,380 | 24 | 137,002 | 100 |
| Sumbawanga Rural | 365 | 50 | 820 | 50 | 1,185 | 100 | 168,546 | 85 | 13,231 | 15 | 181,778 | 100 |
| Nkasi | 633 | 100 | 0 | 0 | 633 | 100 | 70,549 | 84 | 8,764 | 16 | 79,313 | 100 |
| Sumbawanga Urban | 0 | 0 | 0 | 0 | 0 | 0 | 22,930 | 72 | 5,317 | 28 | 28,247 | 100 |
| **Total** | **1,944** | **64** | **1,106** | **36** | **3,050** | **100** | **382,647** | **81** | **43,693** | **19** | **426,340** | **100** |

### 5.3 Number of Crop Growing Households and Area Planted (ha) by Season and District

| District | Short Rainy Season | | Long Rainy Season | | Total area planted (hectare) | % Area planted in short rainy season |
|---|---|---|---|---|---|---|
| | Number of Households | Planted Area (hectare) | Number of Households | Planted Area (hectare) | | |
| Mpanda | 1,058 | 1,232 | 68,974 | 137,002 | 138,234 | 0.89 |
| Sumbawanga Rural | 1,351 | 1,185 | 88,694 | 181,778 | 182,962 | 0.65 |
| Nkasi | 112 | 633 | 40,000 | 79,313 | 79,947 | 0.79 |
| Sumbawanga Urban | 0 | 0 | 18,338 | 28,247 | 28,247 | 0 |
| **Total** | **2,521** | **3,050** | **216,005** | **426,340** | **429,390** | **0.71** |

### 5.4 Number of Crop Growing Households Planting Crops by Season and District

| District | Short Rainy Season | | Long Rainy Season | | Total Number of Crop Growing households |
|---|---|---|---|---|---|
| | Number of households Growing Crops | Number of households NOT Growing Crops | Number of households Growing Crops | Number of households NOT Growing Crops | |
| Mpanda | 1,058 | 70,385 | 68,974 | 2,470 | 71,443 |
| Sumbawanga Rural | 1,351 | 89,819 | 88,694 | 2,476 | 90,945 |
| Nkasi | 112 | 45,139 | 40,000 | 5,251 | 45,251 |
| Sumbawanga Urban | 0 | 18,385 | 18,338 | 47 | 18,338 |
| **Total** | **2,521** | **223,729** | **216,005** | **10,244** | **225,977** |

### 5.5 Number of Agriculture Households by Area Planted (ha) and Crop for the Agriculture Year 2007/08 Short and Long Rainy Season - MPANDA

| Crop | SHORT RAINY | | LONG RAINY | | SHORT & LONG SEASON | |
|---|---|---|---|---|---|---|
| | Number of Household | Planted Area (hectare) | Number of Household | Planted Area (hectare) | Number of Household | Planted Area (hectare) |
| Maize | 882 | 509 | 66,504 | 66,830 | 67,386 | 67,339 |
| Paddy | 176 | 143 | 12,348 | 15,837 | 12,525 | 15,980 |
| Sorghum | 0 | 0 | 2,117 | 2,214 | 2,117 | 2,214 |
| Finger Millet | 0 | 0 | 706 | 250 | 706 | 250 |
| **CEREALS** | | **652** | | **85,131** | | **85,783** |
| Sweet Potato | 0 | 0 | 9,173 | 3,785 | 9,173 | 3,785 |
| Coco Yam | 0 | 0 | 176 | 71 | 176 | 71 |
| **ROOTS & TUBERS** | | **0** | | **9,463** | | **9,463** |
| Beans | 706 | 368 | 7,938 | 4,024 | 8,644 | 4,392 |
| **PULSES** | | **368** | | **4,024** | | **4,392** |
| Sunflower | 0 | 0 | 2,822 | 1,768 | 2,822 | 1,768 |
| Simsim | 0 | 0 | 4,234 | 5,821 | 4,234 | 5,821 |
| Groundnut | 176 | 54 | 36,868 | 26,564 | 37,045 | 26,618 |
| **OIL SEEDS & OIL NUTS** | | **54** | | **34,152** | | **34,206** |
| Cabbage | 176 | 18 | 0 | 0 | 176 | 18 |
| Tomatoes | 353 | 89 | 0 | 0 | 353 | 89 |
| Amaranths | 176 | 36 | 0 | 0 | 176 | 36 |
| **FRUITS & VEGETAB** | | **143** | | **0** | | **143** |
| Tobacco | 176 | 16 | 10,937 | 9,374 | 11,113 | 9,389 |
| **CASH CROPS** | | **16** | | **9,374** | | **9,389** |
| **Total** | | **1,232** | | **137,002** | | **138,234** |

### 5.6 Number of Agriculture Households by Area Planted (ha) and Crop for the Agriculture Year 2007/08 Short and Long Rainy Season - SUMBAWANGA RURAL

| Crop | SHORT RAINY | | LONG RAINY | | SHORT & LONG SEASON | |
|---|---|---|---|---|---|---|
| | Number of Household | Planted Area (hectare) | Number of Household | Planted Area (hectare) | Number of Household | Planted Area (hectare) |
| Maize | 675 | 547 | 75,412 | 94,445 | 76,088 | 94,992 |
| Paddy | 225 | 365 | 16,208 | 25,358 | 16,433 | 25,723 |
| Sorghum | 0 | 0 | 5,403 | 6,107 | 5,403 | 6,107 |
| Wheat | 0 | 0 | 675 | 501 | 675 | 501 |
| **CEREALS** | | **911** | | **130,928** | | **131,839** |
| Cassava | 0 | 0 | 9,004 | 6,709 | 9,004 | 6,709 |
| Sweet Potato | 0 | 0 | 2,251 | 606 | 2,251 | 606 |
| Irish potatoes | 0 | 0 | 225 | 91 | 225 | 91 |
| **ROOTS & TUBERS** | | **0** | | **7,452** | | **7,452** |
| Beans | 225 | 91 | 27,013 | 18,775 | 27,238 | 18,866 |
| Cowpeas | 0 | 0 | 2,026 | 207 | 2,026 | 207 |
| **PULSES** | | **91** | | **18,982** | | **19,073** |
| Sunflower | 225 | 91 | 29,490 | 23,534 | 29,715 | 23,625 |
| Groundnut | 0 | 0 | 15,308 | 4,902 | 15,308 | 4,902 |
| **OIL SEEDS & OIL NUTS** | | **91** | | **29,256** | | **29,347** |
| Okra | 0 | 0 | 450 | 547 | 450 | 547 |
| Onion | 0 | 0 | 675 | 273 | 675 | 273 |
| Tomatoes | 450 | 64 | 1,351 | 292 | 1,801 | 355 |
| Spinach | 225 | 18 | 450 | 109 | 675 | 128 |
| Amaranths | 0 | 0 | 225 | 91 | 225 | 91 |
| **FRUITS & VEGETABLE** | | **91** | | **1,322** | | **1,413** |
| Cotton | 0 | 0 | 675 | 365 | 675 | 365 |
| Tobacco | 0 | 0 | 225 | 182 | 225 | 182 |
| **CASH CROPS** | | **0** | | **547** | | **547** |
| **Total** | | **1,185** | | **181,778** | | **182,962** |

### 5.7 Number of Agriculture Households by Area Planted (ha) and Crop for the Agriculture Year 2007/08 Short and Long Rainy Season - NKASI

| Crop | SHORT RAINY | | LONG RAINY | | SHORT & LONG SEASON | |
|---|---|---|---|---|---|---|
| | Number of Household | Planted Area (hectare) | Number of Household | Planted Area (hectare) | Number of Household | Planted Area (hectare) |
| Maize | 112 | 181 | 33,854 | 46,304 | 33,966 | 46,485 |
| Paddy | 0 | 0 | 5,810 | 4,784 | 5,810 | 4,784 |
| Sorghum | 0 | 0 | 1,229 | 403 | 1,229 | 403 |
| Finger Millet | 112 | 362 | 5,475 | 5,227 | 5,587 | 5,589 |
| Wheat | 0 | 0 | 335 | 226 | 335 | 226 |
| **CEREALS** | | **543** | | **56,943** | | **57,486** |
| Cassava | 0 | 0 | 15,642 | 10,070 | 15,642 | 10,070 |
| Sweet Potato | 0 | 0 | 1,676 | 837 | 1,676 | 837 |
| **ROOTS & TUBERS** | | **0** | | **10,907** | | **10,907** |
| Beans | 112 | 90 | 15,084 | 10,960 | 15,195 | 11,050 |
| **PULSES** | | **90** | | **10,965** | | **11,055** |
| Sunflower | 0 | 0 | 9,609 | 7,801 | 9,609 | 7,801 |
| Simsim | 0 | 0 | 112 | 6 | 112 | 6 |
| Groundnut | 0 | 0 | 8,045 | 2,321 | 8,045 | 2,321 |
| **OIL SEEDS & OIL NUTS** | | **0** | | **10,128** | | **10,128** |
| Okra | 0 | 0 | 223 | 271 | 223 | 271 |
| Onion | 0 | 0 | 112 | 45 | 112 | 45 |
| Tomatoes | 0 | 0 | 335 | 79 | 335 | 79 |
| Amaranths | 0 | 0 | 112 | 23 | 112 | 23 |
| **FRUITS & VEGETABLES** | | **0** | | **418** | | **418** |
| **CASH CROPS** | | **0** | | **0** | | **0** |
| **Total** | | **633** | | **79,313** | | **79,947** |

**5.8 Number of Agriculture Households by Area Planted (ha) and Crop for the Agriculture Year 2007/08 Short and Long Rainy Season - SUMBAWANGA URBAN**

| Crop | SHORT RAINY | | LONG RAINY | | SHORT & LONG SEASON | |
|---|---|---|---|---|---|---|
| | Number of Household | Planted Area (hectare) | Number of Household | Planted Area (hectare) | Number of Household | Planted Area (hectare) |
| Maize | 0 | 0 | 18,244 | 16,716 | 18,244 | 16,716 |
| Sorghum | 0 | 0 | 283 | 60 | 283 | 60 |
| Finger Millet | 0 | 0 | 1,179 | 644 | 1,179 | 644 |
| Wheat | 0 | 0 | 1,367 | 1,212 | 1,367 | 1,212 |
| **CEREALS** | | **0** | | **18,637** | | **18,637** |
| Sweet Potato | 0 | 0 | 613 | 210 | 613 | 210 |
| Irish potatoes | 0 | 0 | 1,273 | 331 | 1,273 | 331 |
| Coco Yam | 0 | 0 | 47 | 9 | 47 | 9 |
| **ROOTS & TUBERS** | | **0** | | **698** | | **698** |
| Beans | 0 | 0 | 10,324 | 3,837 | 10,324 | 3,837 |
| Cowpeas | 0 | 0 | 47 | 10 | 47 | 10 |
| Bambaranuts | 0 | 0 | 236 | 33 | 236 | 33 |
| Field Peas | 0 | 0 | 424 | 337 | 424 | 337 |
| **PULSES** | | **0** | | **4,217** | | **4,217** |
| Sunflower | 0 | 0 | 6,317 | 3,581 | 6,317 | 3,581 |
| Groundnut | 0 | 0 | 1,886 | 407 | 1,886 | 407 |
| **OIL SEEDS & OIL NUT** | | **0** | | **3,988** | | **3,988** |
| Bitteer Aubergine | 0 | 0 | 283 | 33 | 283 | 33 |
| Onion | 0 | 0 | 943 | 134 | 943 | 134 |
| Cabbage | 0 | 0 | 754 | 94 | 754 | 94 |
| Tomatoes | 0 | 0 | 1,650 | 267 | 1,650 | 267 |
| Spinach | 0 | 0 | 896 | 191 | 896 | 191 |
| Carrot | 0 | 0 | 189 | 29 | 189 | 29 |
| **FRUITS & VEGETABLES** | | **0** | | **798** | | **798** |
| **Total** | | **0** | | **28,247** | | **28,247** |

### 5.9 Area Planted (ha) and Quantity Harvested by Season and Crop for the 2007/08 Agriculture Year - MPANDA

| Crop | SHORT RAINY | | | LONG RAINY | | | SHORT & LONG RAINY SEASON | | |
|---|---|---|---|---|---|---|---|---|---|
| | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Maize | 509 | 741 | 1.5 | 66,830 | 84,043 | 1.3 | 67,339 | 84,784 | 1.3 |
| Paddy | 143 | 564 | 4 | 15,837 | 43,463 | 2.7 | 15,980 | 44,027 | 2.8 |
| Sorghum | 0 | 0 | 0 | 2,214 | 2,015 | 0.9 | 2,214 | 2,015 | 0.9 |
| Finger Millet | 0 | 0 | 0 | 250 | 84 | 0.3 | 250 | 84 | 0.3 |
| **CEREALS** | **652** | **1,305** | **2** | **85,131** | **129,604** | **1.5** | **85,783** | **130,909** | **1.5** |
| Sweet Potato | 0 | 0 | 0 | 3,785 | 8,686 | 2.3 | 3,785 | 8,686 | 2.3 |
| Coco Yam | 0 | 0 | 0 | 71 | 35 | 0.5 | 71 | 35 | 0.5 |
| **ROOTS** | **0** | **0** | **0** | **9,463** | **15,557** | **1.6** | **9,463** | **15,557** | **1.6** |
| Beans | 368 | 240 | 0.7 | 4,024 | 2,538 | 0.6 | 4,392 | 2,778 | 0.6 |
| **PULSES** | **368** | **240** | **0.7** | **4,024** | **2,538** | **0.6** | **4,392** | **2,778** | **0.6** |
| Sunflower | 0 | 0 | 0 | 1,768 | 1,029 | 0.6 | 1,768 | 1,029 | 0.6 |
| Simsim | 0 | 0 | 0 | 5,821 | 2,798 | 0.5 | 5,821 | 2,798 | 0.5 |
| Groundnut | 54 | 71 | 1.3 | 26,564 | 22,322 | 0.8 | 26,618 | 22,392 | 0.8 |
| **OIL SEEDS** | **54** | **71** | **1.3** | **34,152** | **26,148** | **0.8** | **34,206** | **26,219** | **0.8** |
| Cabbage | 18 | 141 | 7.9 | 0 | 0 | 0 | 18 | 141 | 7.9 |
| Tomatoes | 89 | 4,550 | 51 | 0 | 0 | 0 | 89 | 4,550 | 51 |
| Amaranths | 36 | 1,428 | 40 | 0 | 0 | 0 | 36 | 1,428 | 40 |
| **FRUITS** | **143** | **6,119** | **42.8** | **0** | **0** | **0** | **143** | **6,119** | **42.8** |
| Tobacco | 16 | 23 | 1.5 | 9,374 | 10,446 | 1.1 | 9,389 | 10,470 | 1.1 |
| **CASH CROPS** | **16** | **23** | **1.5** | **9,374** | **10,446** | **1.1** | **9,389** | **10,470** | **1.1** |
| **Total** | **1,232** | **7,758** | **6.3** | **137,002** | **178,141** | **1.3** | **138,234** | **185,900** | **1.3** |

### 5.11 Area Planted (ha) and Quantity Harvested by Season and Crop for the 2007/08 Agriculture Year - NKASI

| Crop | SHORT RAINY | | | LONG RAINY | | | SHORT & LONG RAINY SEASON | | |
|---|---|---|---|---|---|---|---|---|---|
| | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Maize | 181 | 391 | 2.2 | 46,304 | 69,819 | 1.5 | 46,485 | 70,210 | 1.5 |
| Paddy | 0 | 0 | 0.0 | 4,784 | 14,130 | 3.0 | 4,784 | 14,130 | 3.0 |
| Sorghum | 0 | 0 | 0.0 | 403 | 427 | 1.1 | 403 | 427 | 1.1 |
| Bulrush Millet | 0 | 0 | 0.0 | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| Finger Millet | 362 | 380 | 1.0 | 5,227 | 6,117 | 1.2 | 5,589 | 6,497 | 1.2 |
| Wheat | 0 | 0 | 0.0 | 226 | 327 | 1.4 | 226 | 327 | 1.4 |
| **CEREALS** | **543** | **771** | **1.4** | **56,943** | **90,819** | **1.6** | **57,486** | **91,590** | **1.6** |
| Cassava | 0 | 0 | 0.0 | 10,070 | 29,820 | 3.0 | 10,070 | 29,820 | 3.0 |
| Sweet Potato | 0 | 0 | 0.0 | 837 | 1,403 | 1.7 | 837 | 1,403 | 1.7 |
| Irish potatoes | 0 | 0 | 0.0 | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| Yams | 0 | 0 | 0.0 | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0.0 | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| **ROOTS & TUBERS** | **0** | **0** | **0.0** | **10,907** | **31,223** | **1.6** | **10,907** | **31,223** | **1.6** |
| Beans | 90 | 89 | 1.0 | 10,960 | 6,816 | 0.6 | 11,050 | 6,905 | 0.6 |
| Cowpeas | 0 | 0 | 0.0 | 5 | 8 | 1.7 | 5 | 8 | 1.7 |
| Bambaranuts | 0 | 0 | 0.0 | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0.0 | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| **PULSES** | **90** | **89** | **1.0** | **10,965** | **6,824** | **0.6** | **11,055** | **6,913** | **0.6** |
| Sunflower | 0 | 0 | 0.0 | 7,801 | 5,156 | 0.7 | 7,801 | 5,156 | 0.7 |
| Simsim | 0 | 0 | 0.0 | 6 | 2 | 0.4 | 6 | 2 | 0.4 |
| Groundnut | 0 | 0 | 0.0 | 2,321 | 2,637 | 1.1 | 2,321 | 2,637 | 1.1 |
| **OIL SEEDS & OIL NUTS** | **0** | **0** | **0.0** | **10,128** | **7,796** | **0.8** | **10,128** | **7,796** | **0.8** |
| Okra | 0 | 0 | 0.0 | 271 | 199 | 0.7 | 271 | 199 | 0.7 |
| Bitteer Aubergine | 0 | 0 | 0.0 | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0.0 | 45 | 72 | 1.6 | 45 | 72 | 1.6 |
| Cabbage | 0 | 0 | 0.0 | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| Tomatoes | 0 | 0 | 0.0 | 79 | 266 | 3.4 | 79 | 266 | 3.4 |
| Spinach | 0 | 0 | 0.0 | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| Carrot | 0 | 0 | 0.0 | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0.0 | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0.0 | 23 | 2 | 0.1 | 23 | 2 | 0.1 |
| **FRUITS & VEGETABLES** | **0** | **0** | **0.0** | **418** | **538** | **1.3** | **418** | **538** | **1.3** |
| Cotton | 0 | 0 | 0.0 | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| Tobacco | 0 | 0 | 0.0 | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| **CASH CROPS** | **0** | **0** | **0.0** | **0** | **0** | **0.0** | **0** | **0** | **0.0** |
| **Total** | **633** | **860** | **1.4** | **79,313** | **107,393** | **1.4** | **79,947** | **108,253** | **1.4** |

### 5.12 Area Planted (ha) and Quantity Harvested by Season and Crop for the 2007/08 Agriculture Year - SUMBAWANGA URBAN

| Crop | SHORT RAINY | | | LONG RAINY | | | SHORT & LONG RAINY SEASON | | |
|---|---|---|---|---|---|---|---|---|---|
| | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Maize | 0 | 0 | 0.0 | 16,716 | 27,081 | 1.6 | 16,716 | 27,081 | 1.6 |
| Paddy | 0 | 0 | 0.0 | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| Sorghum | 0 | 0 | 0.0 | 60 | 81 | 1.3 | 60 | 81 | 1.3 |
| Bulrush Millet | 0 | 0 | 0.0 | 5 | 1 | 0.2 | 5 | 1 | 0.2 |
| Finger Millet | 0 | 0 | 0.0 | 644 | 606 | 0.9 | 644 | 606 | 0.9 |
| Wheat | 0 | 0 | 0.0 | 1,212 | 2,427 | 2.0 | 1,212 | 2,427 | 2.0 |
| **CEREALS** | **0** | **0** | **0.0** | **18,637** | **30,197** | **1.6** | **18,637** | **30,197** | **1.6** |
| Cassava | 0 | 0 | 0.0 | 148 | 135 | 0.9 | 148 | 135 | 0.9 |
| Sweet Potato | 0 | 0 | 0.0 | 210 | 868 | 4.1 | 210 | 868 | 4.1 |
| Irish potatoes | 0 | 0 | 0.0 | 331 | 841 | 2.5 | 331 | 841 | 2.5 |
| Yams | 0 | 0 | 0.0 | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0.0 | 9 | 16 | 1.8 | 9 | 16 | 1.8 |
| **ROOTS & TUBERS** | **0** | **0** | **0.0** | **698** | **1,861** | **2.7** | **698** | **1,861** | **2.7** |
| Beans | 0 | 0 | 0.0 | 3,837 | 3,406 | 0.9 | 3,837 | 3,406 | 0.9 |
| Cowpeas | 0 | 0 | 0.0 | 10 | 2 | 0.2 | 10 | 2 | 0.2 |
| Bambaranuts | 0 | 0 | 0.0 | 33 | 30 | 0.9 | 33 | 30 | 0.9 |
| Field Peas | 0 | 0 | 0.0 | 337 | 313 | 0.9 | 337 | 313 | 0.9 |
| **PULSES** | **0** | **0** | **0.0** | **4,217** | **3,751** | **0.9** | **4,217** | **3,751** | **0.9** |
| Sunflower | 0 | 0 | 0.0 | 3,581 | 2,324 | 0.6 | 3,581 | 2,324 | 0.6 |
| Simsim | 0 | 0 | 0.0 | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| Groundnut | 0 | 0 | 0.0 | 407 | 333 | 0.8 | 407 | 333 | 0.8 |
| **OIL SEEDS & OIL NUTS** | **0** | **0** | **0.0** | **3,988** | **2,658** | **0.7** | **3,988** | **2,658** | **0.7** |
| Okra | 0 | 0 | 0.0 | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0.0 | 33 | 180 | 5.5 | 33 | 180 | 5.5 |
| Onion | 0 | 0 | 0.0 | 134 | 396 | 3.0 | 134 | 396 | 3.0 |
| Cabbage | 0 | 0 | 0.0 | 94 | 841 | 9.0 | 94 | 841 | 9.0 |
| Tomatoes | 0 | 0 | 0.0 | 267 | 4,526 | 16.9 | 267 | 4,526 | 16.9 |
| Spinach | 0 | 0 | 0.0 | 191 | 380 | 2.0 | 191 | 380 | 2.0 |
| Carrot | 0 | 0 | 0.0 | 29 | 139 | 4.9 | 29 | 139 | 4.9 |
| Chillies | 0 | 0 | 0.0 | 6 | 11 | 1.8 | 6 | 11 | 1.8 |
| Amaranths | 0 | 0 | 0.0 | 44 | 315 | 7.1 | 44 | 315 | 7.1 |
| **FRUITS & VEGETABLES** | **0** | **0** | **0.0** | **798** | **6,789** | **8.5** | **798** | **6,789** | **8.5** |
| Cotton | 0 | 0 | 0.0 | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| Tobacco | 0 | 0 | 0.0 | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| **CASH CROPS** | **0** | **0** | **0.0** | **0** | **0** | **0.0** | **0** | **0** | **0.0** |
| **Total** | **0** | **0** | **0.0** | **28,247** | **45,134** | **1.6** | **28,247** | **45,134** | **1.6** |

**5.13 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Short Rainy SEASON Agricultural Year 2007/08**

| District | Maize | | | | Paddy | | | | Sorghum | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 882 | 509 | 741 | 1.5 | 176 | 143 | 564 | 4.0 | 0 | 0 | 0 | 0.0 |
| Sumbawanga Rural | 675 | 547 | 592 | 1.1 | 225 | 365 | 0 | 0.0 | 0 | 0 | 0 | 0.0 |
| Nkasi | 112 | 181 | 391 | 2.2 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 |
| Sumbawanga Urban | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 |
| **Total** | **1,669** | **1,237** | **1,724** | **1.4** | **402** | **507** | **564** | **1.1** | **0** | **0** | **0** | **0.0** |

**Cont. 5.13 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Short Rainy SEASON Agricultural Year 2007/08**

| District | Bulrush Millet | | | | Finger Millet | | | | Wheat | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 | 0 |
| Sumbawanga Rural | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 | .00 | .00 |
| Nkasi | 0 | 0 | 0 | 0.0 | 112 | 362 | 380 | 1.0 | 0 | 0 | 0 | 0 |
| Sumbawanga Urban | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 | .00 | .00 |
| **Total** | **0** | **0** | **0** | **0.0** | **112** | **362** | **380** | **1.0** | **0** | **0** | **0** | **0** |

**Cont. 5.13 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Short Rainy SEASON Agricultural Year 2007/08**

| District | Barley | | | | Yam | | | | Sweet Potato | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | .00 | .00 |
| Sumbawanga Rural | 0 | 0 | .00 | .00 | 0 | 0 | 0 | 0 | 0 | 0 | .00 | .00 |
| Nkasi | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | .00 | .00 |
| Sumbawanga Urban | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | .00 | .00 |
| **Total** | **0** | **0** | **0** | **0** | **0** | **0** | **.00** | **.00** | **0** | **0** | **.00** | **.00** |

**Cont. 5.13 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Short Rainy SEASON Agricultural Year 2007/08**

| District | Irish potatoes | | | | Yams | | | | Coco Yam | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 0 | 0 | .00 | .00 | 0 | 0 | .00 | .00 | 0 | 0 | 0 | 0 |
| Sumbawanga Rural | 0 | 0 | .00 | .00 | 0 | 0 | .00 | .00 | 0 | 0 | 0 | 0 |
| Nkasi | 0 | 0 | .00 | .00 | 0 | 0 | .00 | .00 | 0 | 0 | .00 | .00 |
| Sumbawanga Urban | 0 | 0 | .00 | .00 | 0 | 0 | .00 | .00 | 0 | 0 | .00 | .00 |
| **Total** | **0** | **0** | **.00** | **.00** | **0** | **0** | **.00** | **.00** | **0** | **0** | **.00** | **.00** |

**Cont. 5.13 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Short Rainy SEASON Agricultural Year 2007/08**

| District | Mung Bean | | | | Beans | | | | Cowpeas | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 0 | 0 | 0 | 0 | 706 | 367.80 | 239.91 | 0.65 | 0 | 0 | 0 | 0 |
| Sumbawanga Rural | 0 | 0 | 0 | 0 | 225 | 91 | 270.13 | 2.96 | 0 | 0 | .00 | .00 |
| Nkasi | 0 | 0 | .00 | .00 | 112 | 90 | 89.38 | .99 | 0 | 0 | .00 | .00 |
| Sumbawanga Urban | 0 | 0 | .00 | .00 | 0 | 0 | .00 | .00 | 0 | 0 | .00 | .00 |
| **Total** | **0** | **0** | **.00** | **.00** | **1,042** | **549** | **599.43** | **1.09** | **0** | **0** | **.00** | **.00** |

**Cont. 5.13 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Short Rainy SEASON Agricultural Year 2007/08**

| District | Green gram | | | | Chick peas | | | | Bambaranuts | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Rural | 0 | 0 | .00 | .00 | 0 | 0 | .00 | .00 | 0 | 0 | 0 | 0 |
| Nkasi | 0 | 0 | .00 | .00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Urban | 0 | 0 | .00 | .00 | 0 | 0 | .00 | .00 | 0 | 0 | 0 | 0 |
| **Total** | **0** | **0** | **.00** | **.00** | **0** | **0** | **0** | **0** | **0** | **0** | **.00** | **.00** |

**Cont. 5.13 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Short Rainy SEASON Agricultural Year 2007/08**

| District | Field Peas | | | | Sunflower | | | | Simsim | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 0 | 0 | 0 | 0 | 0 | 0 | .00 | .00 | 0 | 0 | 0 | 0 |
| Sumbawanga Rural | 0 | 0 | 0 | 0 | 225 | 91 | 67.53 | .74 | 0 | 0 | 0 | 0 |
| Nkasi | 0 | 0 | .00 | .00 | 0 | 0 | .00 | .00 | 0 | 0 | .00 | .00 |
| Sumbawanga Urban | 0 | 0 | .00 | .00 | 0 | 0 | .00 | .00 | 0 | 0 | .00 | .00 |
| **Total** | **0** | **0** | **.00** | **.00** | **225** | **91** | **67.53** | **.74** | **0** | **0** | **.00** | **.00** |

**Cont. 5.13 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Short Rainy SEASON Agricultural Year 2007/08**

| District | Groundnut | | | | Soya Beans | | | | Castor Fung | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 176 | 54 | 70.56 | 1.32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Rural | 0 | 0 | 0 | 0 | 0 | 0 | .00 | .00 | 0 | 0 | 0 | 0 |
| Nkasi | 0 | 0 | .00 | .00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Urban | 0 | 0 | .00 | .00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Total** | **176** | **54** | **70.56** | **1.32** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

**Cont. 5.13 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Short Rainy SEASON Agricultural Year 2007/08**

| District | Okra | | | | Radish | | | | Turmeric | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Rural | 0 | 0 | .00 | .00 | 0 | 0 | .00 | .00 | 0 | 0 | .00 | .00 |
| Nkasi | 0 | 0 | .00 | .00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Urban | 0 | 0 | .00 | .00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Total** | **0** | **0** | **.00** | **.00** | **0** | **0** | **.00** | **.00** | **0** | **0** | **0** | **0** |

**Cont. 5.13 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Short Rainy SEASON Agricultural Year 2007/08**

| District | Bitter Aubergine | | | | Kothmir | | | | Onion | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | .00 | .00 |
| Sumbawanga Rural | 0 | 0 | .00 | .00 | 0 | 0 | 0 | 0 | 0 | 0 | .00 | .00 |
| Nkasi | 0 | 0 | .00 | .00 | 0 | 0 | 0 | 0 | 0 | 0 | .00 | .00 |
| Sumbawanga Urban | 0 | 0 | .00 | .00 | 0 | 0 | 0 | 0 | 0 | 0 | .00 | .00 |
| **Total** | **0** | **0** | **.00** | **.00** | **0** | **0** | **0** | **0** | **0** | **0** | **.00** | **.00** |

**Cont. 5.13 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Short Rainy SEASON Agricultural Year 2007/08**

| District | Ginger | | | | Zukkin | | | | Star Fruit | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Rural | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nkasi | 0 | 0 | .00 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Urban | 0 | 0 | .00 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Total** | **0** | **0** | **0** | **0.00** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

**Cont. 5.13 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Short Rainy SEASON Agricultural Year 2007/08**

| District | Cabbage | | | | Tomatoes | | | | Spinach | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 176 | 17.85 | 141.12 | 7.90 | 353 | 89 | 4,550 | 50.96 | 0 | 0 | .00 | .00 |
| Sumbawanga Rural | 225 | 9 | 45.02 | 4.94 | 450 | 64 | 1,396 | 21.88 | 225 | 18 | 33.77 | 1.85 |
| Nkasi | 0 | 0 | .00 | .00 | 0 | 0 | 0 | .00 | 0 | 0 | .00 | .00 |
| Sumbawanga Urban | 0 | 0 | .00 | .00 | 0 | 0 | 0 | .00 | 0 | 0 | .00 | .00 |
| **Total** | **402** | **27** | **186.15** | **6.90** | **803** | **153** | **5,945** | **38.84** | **225** | **18** | **33.77** | **1.85** |

**Cont. 5.13 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Short Rainy SEASON Agricultural Year 2007/08**

| District | Carrot | | | | Chilies | | | | Amaranths | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 176 | 36 | 1,428.34 | 40.00 |
| Sumbawanga Rural | 0 | 0 | .00 | .00 | 0 | 0 | .00 | .00 | 0 | 0 | .00 | .00 |
| Nkasi | 0 | 0 | .00 | .00 | 0 | 0 | .00 | .00 | 0 | 0 | .00 | .00 |
| Sumbawanga Urban | 0 | 0 | .00 | .00 | 0 | 0 | .00 | .00 | 0 | 0 | .00 | .00 |
| **Total** | **0** | **0** | **.00** | **.00** | **0** | **0** | **.00** | **.00** | **176** | **36** | **1,428.34** | **40.00** |

**Cont. 5.13 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Short Rainy SEASON Agricultural Year 2007/08**

| District | Pumpkins | | | | Cucumber | | | | Egg Plant | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Rural | 0 | 0 | 0 | 0 | 0 | 0 | .00 | .00 | 0 | 0 | .00 | .00 |
| Nkasi | 0 | 0 | .00 | .00 | 0 | 0 | .00 | .00 | 0 | 0 | 0 | 0 |
| Sumbawanga Urban | 0 | 0 | .00 | .00 | 0 | 0.23 | 0 | 0 | 0 | 0 | .00 | .00 |
| **Total** | **0** | **0** | **.00** | **.00** | **0** | **0** | **.00** | **.00** | **0** | **0** | **.00** | **.00** |

**Cont. 5.13 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Short Rainy SEASON Agricultural Year 2007/08**

| District | Water Mellon | | | | Malay | | | |
|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Rural | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nkasi | 0 | 0 | .00 | .00 | 0 | 0 | 0 | 0 |
| Sumbawanga Urban | 0 | 0 | .00 | .00 | 0 | 0 | 0 | 0 |
| **Total** | **0** | **0** | **.00** | **.00** | **0** | **0** | **0** | **0** |

**5.14 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) During Long Rainy SEASON Agricultural Year 2007/08**

| District | Maize | | | | Paddy | | | | Sorghum | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 66,504 | 66,830 | 84,043 | 1.0 | 12,348 | 15,837 | 43,463 | 2.7 | 2,117 | 2,214 | 2,015 | 0.9 |
| Sumbawanga Rural | 75,412 | 94,445 | 168,347 | 1.8 | 16,208 | 25,358 | 69,087 | 2.7 | 5,403 | 6,107 | 5,556 | 0.9 |
| Nkasi | 33,854 | 46,304 | 69,819 | 1.5 | 5,810 | 4,784 | 14,130 | 3.0 | 1,229 | 403 | 427 | 1.1 |
| Sumbawanga Urban | 18,244 | 16,716 | 27,081 | 1.6 | 0 | 0 | 0 | 0.0 | 283 | 60 | 81 | 1.3 |
| **Total** | **194,015** | **224,296** | **349,289** | **1.6** | **34,366** | **45,979** | **126,679** | **2.8** | **9,031** | **8,784** | **8,079** | **0.9** |

**Cont. 5.14 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) During Long Rainy SEASON Agricultural Year 2007/08**

| District | Bulrush Millet | | | | Finger Millet | | | | Wheat | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 0 | 0 | 0 | 0.0 | 706 | 250 | 83.79 | 0.3 | 0 | 0 | 0 | 0 |
| Sumbawanga Rural | 0 | 0 | 0 | 0.0 | 5,853 | 4,516 | 3,583 | 0.8 | 675 | 501 | 1,013.00 | 2.0 |
| Nkasi | 0 | 0 | 0 | 0.0 | 5,475 | 5,227 | 6,117 | 1.2 | 335 | 226 | 327 | 1.4 |
| Sumbawanga Urban | 47 | 5 | 1 | 0.2 | 1,179 | 644 | 606 | 0.9 | 1,367 | 1212 | 2427 | 2.0 |
| **Total** | **47** | **5** | **1** | **0.2** | **13,212** | **10637** | **10390** | **1.0** | **2,378** | **1,939** | **3,766.72** | **1.9** |

**Cont. 5.14 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Long Rainy SEASON Agricultural Year 2007/08**

| District | Barley | | | | Cassava | | | | Sweet Potato | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 0 | 0 | 0 | 0 | 10,761 | 5,607 | 6,835 | 1.2 | 9,173 | 3,785 | 8,686.46 | 2.3 |
| Sumbawanga Rural | 0 | 0 | .00 | 0.0 | 9,004 | 6,709 | 13,359 | 2.0 | 2,251 | 606 | 3,009.06 | 5.0 |
| Nkasi | 0 | 0 | 0 | 0 | 15,642 | 10,070 | 29,820 | 3.0 | 1,676 | 837 | 1,403.23 | 1.7 |
| Sumbawanga Urban | 0 | 0 | 0 | 0 | 236 | 148 | 135 | 0.9 | 613 | 210 | 868.16 | 4.1 |
| **Total** | **0** | **0** | **0** | **0** | **35,643** | **22,534** | **50,149** | 2.2 | **13,713** | **5,438** | **13,966.91** | **2.6** |

**Cont. 5.14 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Long Rainy SEASON Agricultural Year 2007/08**

| District | Irish potatoes | | | | Yams | | | | Coco Yam | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 0 | 0 | 0 | 0 | 0 | 0 | .00 | 0.0 | 176 | 71.4 | 35.3 | 0.494 |
| Sumbawanga Rural | 225 | 91 | 168.8 | 1.9 | 225 | 45.6 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nkasi | 0 | 0 | 0.0 | 0.0 | 0 | 0 | .00 | 0.0 | 0 | 0 | .00 | 0.0 |
| Sumbawanga Urban | 1,273 | 331 | 840.9 | 2.5 | 0 | 0 | 0 | 0 | 47 | 9 | 16.45 | 1.8 |
| **Total** | **1,498** | **422** | **1009.7** | **2.4** | **225** | **46** | **.00** | **0.0** | **224** | **81** | **51.73** | **0.6** |

**Cont. 5.14 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Long Rainy SEASON Agricultural Year 2007/08**

| District | Mung Bean | | | | Beans | | | | Cowpeas | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 0 | 0 | .00 | 0.0 | 7,938 | 4,024 | 2,537.74 | 0.6 | 0 | 0 | .00 | 0.0 |
| Sumbawanga Rural | 0 | 0 | .00 | 0.0 | 27,013 | 18,775 | 14,303.33 | 0.8 | 2,026 | 207 | 81.94 | 0.4 |
| Nkasi | 0 | 0 | .00 | 0.0 | 15,084 | 10,960 | 6,815.68 | 0.6 | 112 | 5 | 7.82 | 1.7 |
| Sumbawanga Urban | 0 | 0 | 0 | 0 | 10,324 | 3,837 | 3,405.90 | 0.9 | 47 | 10 | 1.89 | 0.2 |
| **Total** | **0** | **0** | **.00** | **0.0** | **60,359** | **37,596** | **27,062.65** | **0.7** | **2,185** | **221** | **91.65** | **0.4** |

**Cont. 5.14 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) During Long Rainy SEASON Agricultural Year 2007/08**

| District | Green gram | | | | Chick peas | | | | Bambaranuts | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 0 | 0 | .00 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | .00 | 0.0 |
| Sumbawanga Rural | 0 | 0 | .00 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 | 0 |
| Nkasi | 0 | 0 | .00 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Urban | 0 | 0 | .00 | 0.0 | 0 | 0 | 0 | 0 | 236 | 33 | 30.17 | 0.9 |
| **Total** | **0** | **0** | **.00** | **0.0** | **0** | **0** | **.00** | **0.0** | **236** | **33** | **30.17** | **0.9** |

**Cont. 5.14 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Long Rainy SEASON Agricultural Year 2007/08**

| District | Field Peas | | | | Sunflower | | | | Simsim | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 0 | 0 | .00 | 0.0 | 2,822 | 1,768 | 1,028.79 | 0.6 | 4,234 | 5,821 | 2,797.94 | 0.5 |
| Sumbawanga Rural | 0 | 0 | .00 | 0.0 | 29,490 | 23,534 | 18,848.77 | 0.8 | 450 | 820 | 393.94 | 0.5 |
| Nkasi | 0 | 0 | .00 | 0.0 | 9,609 | 7,801 | 5,155.92 | 0.7 | 112 | 6 | 2.23 | 0.4 |
| Sumbawanga Urban | 424 | 337 | 313.30 | 0.9 | 6,317 | 3,581 | 2,324.18 | 0.6 | 0 | 0 | .00 | 0.0 |
| **Total** | **424** | **337** | **313.30** | **0.9** | **48,238** | **36,683** | **27,357.66** | **0.7** | **4,796** | **6,647** | **3,194.12** | **0.5** |

**Cont. 5.14 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Long Rainy SEASON Agricultural Year 2007/08**

| District | Groundnut | | | | Soya Beans | | | | Castor Fung | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 36,868 | 26,564 | 22,321.58 | 0.8 | 0 | 0 | .00 | 0.0 | 0 | 0 | 0 | 0 |
| Sumbawanga Rural | 15,308 | 4,902 | 4,678.71 | 1.0 | 0 | 0 | .00 | 0.0 | 0 | 0 | 0 | 0 |
| Nkasi | 8,045 | 2,321 | 2,637.40 | 1.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Urban | 1,886 | 407 | 333.39 | 0.8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Total** | **62,106** | **34,195** | **29,971.07** | **0.9** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

**Cont. 5.14 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Long Rainy SEASON Agricultural Year 2007/08**

| District | Okra | | | | Radish | | | | Turmeric | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Rural | 450 | 547 | 648.32 | 1.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nkasi | 223 | 271 | 198.88 | 0.7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Urban | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Total** | **674** | **818** | **847.2** | **1** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

**Cont. 5.14 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Long Rainy SEASON Agricultural Year 2007/08**

| District | Bitteer Aubergine | | | | **Kothmir** | | | | Onion | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 0 | 0 | .00 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | .00 | 0.0 |
| Sumbawanga Rural | 0 | 0 | .00 | 0.0 | 0 | 0 | 0 | 0 | 675 | 273 | 1,047.67 | 3.8 |
| Nkasi | 0 | 0 | .00 | 0.0 | 0 | 0 | 0 | 0 | 112 | 45 | 71.51 | 1.6 |
| Sumbawanga Urban | 283 | 33 | 180.08 | 5.5 | 0 | 0 | 0 | 0 | 943 | 134 | 396.42 | 3.0 |
| **Total** | **283** | **33** | **180.08** | **5.5** | **0** | **0** | **0** | **0** | **1,730** | **452** | **1,515.59** | **3.3** |

**Cont. 5.14 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Long Rainy SEASON Agricultural Year 2007/08**

| District | Ginger | | | | Zukkin | | | | Star Fruit | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Rural | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nkasi | 0 | 0 | .00 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Urban | 0 | 0 | .00 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Total** | **0** | **0** | **0** | **0.00** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

**Cont. 5.14 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Long Rainy SEASON Agricultural Year 2007/08**

| District | Cabbage | | | | Tomatoes | | | | Spinach | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 0 | 0 | .00 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 | .00 | 0.0 |
| Sumbawanga Rural | 225 | 9 | 45.02 | 4.9 | 1,351 | 292 | 7,204 | 24.7 | 450 | 109 | 213.86 | 2.0 |
| Nkasi | 0 | 0 | .00 | 0.0 | 335 | 79 | 266 | 3.4 | 0 | 0 | .00 | 0.0 |
| Sumbawanga Urban | 754 | 94 | 840.92 | 9.0 | 1,650 | 267 | 4,526 | 16.9 | 896 | 191 | 380.48 | 2.0 |
| **Total** | **979** | **103** | **885.94** | **8.6** | **3,336** | **638** | **11,996** | **18.8** | **1,346** | **301** | **594.34** | **2.0** |

**Cont. 5.14 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Long Rainy SEASON Agricultural Year 2007/08**

| District | Carrot | | | | **Chilies** | | | | Amaranths | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 0 | 0 | 0 | 0 | 0 | 0 | .00 | 0.0 | 0 | 0 | .00 | 0.0 |
| Sumbawanga Rural | 0 | 0 | .00 | 0.0 | 0 | 0 | .00 | 0.0 | 225 | 91 | 180.09 | 2.0 |
| Nkasi | 0 | 0 | .00 | 0.0 | 0 | 0 | .00 | 0.0 | 112 | 23 | 1.68 | 0.1 |
| Sumbawanga Urban | 189 | 28.63 | 139.07 | 4.86 | 141 | 6 | 11.17 | 1.8 | 330 | 44 | 314.53 | 7.1 |
| **Total** | **189** | **29** | **139.07** | **4.9** | **141** | **6** | **11.17** | **1.8** | **667** | **158** | **496.29** | **3.1** |

**Cont. 5.14 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Long Rainy SEASON Agricultural Year 2007/08**

| District | **Pumpkins** | | | | Cucumber | | | | Egg Plant | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Rural | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nkasi | 0 | 0 | .00 | .00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Urban | 0 | 0 | .00 | .00 | 0 | 0 | .00 | 0.0 | 0 | 0 | .00 | 0.0 |
| **Total** | **0** | **0** | **.00** | **.00** | **0** | **0** | **.00** | **0.0** | **0** | **0** | **.00** | **0.0** |

**Cont. 5.14 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Long Rainy SEASON Agricultural Year 2007/08**

| District | Water Mellon | | | | Malay | | | | Cotton | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Rural | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 675 | 365 | 437 | 1.2 |
| Nkasi | 0 | 0 | .00 | .00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Urban | 0 | 0 | .00 | .00 | 0 | 0 | 0 | 0 | 0 | 0 | .00 | 0.0 |
| **Total** | **0** | **0** | **.00** | **.00** | **0** | **0** | **0** | **0** | **675** | **365** | **437** | **1.2** |

**Cont. 5.14 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Long Rainy SEASON Agricultural Year 2007/08**

| District | Tobacco | | | | Pyrethrum | | | | Jute | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 10,937 | 9374 | 10446.09 | 1.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Rural | 225 | 182 | 191.34 | 1.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nkasi | 0 | 0 | .00 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Urban | 0 | 0 | .00 | 0.0 | 0 | 0 | .00 | 0.0 | 0 | 0 | 0 | 0 |
| **Total** | **11,162** | **9,556** | **10,637.43** | **1.1** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

**5.15 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Short and Long Rainy SEASON Agricultural Year 2007/08**

| District | Maize | | | | Paddy | | | | Sorghum | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 67,386 | 67,339 | 84,784 | 1.26 | 12,525 | 15,980 | 44,027 | 2.76 | 2,117 | 2,214 | 2,015 | 0.91 |
| Sumbawanga Rural | 76,088 | 94,992 | 168,939 | 1.78 | 16,433 | 25,723 | 69,087 | 2.69 | 5,403 | 6,107 | 5,556 | 0.91 |
| Nkasi | 33,966 | 46,485 | 70,210 | 1.51 | 5,810 | 4,784 | 14,130 | 2.95 | 1,229 | 403 | 427 | 1.06 |
| Sumbawanga Urban | 18,244 | 16,716 | 27,081 | 1.62 | 0 | 0 | 0 | 0.00 | 283 | 60 | 81 | 1.35 |
| **Total** | **195,684** | **225,533** | **351,013** | **1.56** | **34,768** | **46,486** | **127,244** | **2.74** | **9,031** | **8,784** | **8,079** | **0.92** |

**Cont. 5.15 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) During Short and Long Rainy SEASON Agricultural Year 2007/08**

| District | Bulrush Millet | | | | Finger Millet | | | | Wheat | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 0 | 0 | 0 | 0.00 | 706 | 250 | 84 | 0.34 | 0 | 0 | 0 | 0 |
| Sumbawanga Rural | 0 | 0 | 0 | 0 | 5,853 | 4,516 | 3,583 | 0.79 | 675 | 501 | 1,013 | 2.02 |
| Nkasi | 0 | 0 | 0 | 0 | 5,587 | 5,589 | 6,497 | 1.16 | 335 | 226 | 327 | 1 |
| Sumbawanga Urban | 47 | 5 | 1 | 0 | 1,179 | 644 | 606 | 0.94 | 1,367 | 1,212 | 2,427 | 2.00 |
| **Total** | **47** | **5** | **1** | **0.25** | **13,324** | **10,999** | **10,770** | **0.98** | **2,378** | **1,939** | **3,767** | **1.94** |

**Cont. 5.15 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Short and Long Rainy SEASON Agricultural Year 2007/08**

| District | Barley | | | | Cassava | | | | Sweet Potato | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 0 | 0 | 0 | 0 | 10,761 | 5,607 | 6,835 | 1.2 | 9,173 | 3,785 | 8,686 | 2.29 |
| Sumbawanga Rural | 0 | 0 | .00 | 0.0 | 9,004 | 6,709 | 13,359 | 2.0 | 2,251 | 606 | 3,009 | 4.96 |
| Nkasi | 0 | 0 | 0 | 0 | 15,642 | 10,070 | 29,820 | 3.0 | 1,676 | 837 | 1,403 | 1.68 |
| Sumbawanga Urban | 0 | 0 | 0 | 0 | 236 | 148 | 135 | 0.9 | 613 | 210 | 868 | 4.14 |
| **Total** | **0** | **0** | **0** | **0** | **35,643** | **22,534** | **50,149** | 2.2 | **13,713** | **5,438** | **13,967** | **2.57** |

**Cont. 5.15 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Short and Long Rainy SEASON Agricultural Year 2007/08**

| District | Irish potatoes | | | | Yams | | | | Coco Yam | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 176 | 71 | 35 | 0 |
| Sumbawanga Rural | 225 | 91 | 169 | 1.85 | 225 | 46 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nkasi | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 | 0.00 |
| Sumbawanga Urban | 1,273 | 331 | 841 | 2.54 | 0 | 0 | 0 | 0.00 | 47 | 9 | 16 | 1.80 |
| **Total** | **1,498** | **422** | **1,010** | **2.39** | **225** | **46** | **0** | **0.00** | **224** | **81** | **52** | **0.64** |

**Cont. 5.15 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Short and Long Rainy SEASON Agricultural Year 2007/08**

| District | Mung Bean | | | | Beans | | | | Cowpeas | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 0 | 0 | .00 | 0.0 | 8,644 | 4,392 | 2,778 | 0.63 | 0 | 0 | 0 | 0.00 |
| Sumbawanga Rural | 0 | 0 | .00 | 0.0 | 27,238 | 18,866 | 14,573 | 0.77 | 2,026 | 207 | 82 | 0.40 |
| Nkasi | 0 | 0 | .00 | 0.0 | 15,195 | 11,050 | 6,905 | 0.62 | 112 | 5 | 8 | 1.73 |
| Sumbawanga Urban | 0 | 0 | 0 | 0 | 10,324 | 3,837 | 3,406 | 0.89 | 47 | 10 | 2 | 0.20 |
| **Total** | **0** | **0** | **.00** | **0.0** | **61,402** | **38,146** | **27,662** | **0.73** | **2,185** | **221** | **92** | **0.41** |

**Cont. 5.15 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Short and Long Rainy SEASON Agricultural Year 2007/08**

| District | Green gram | | | | Chick peas | | | | Bambaranuts | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 0 | 0 | .00 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| Sumbawanga Rural | 0 | 0 | .00 | 0.0 | 0 | 0 | .00 | 0.0 | 0 | 0 | 0 | 0 |
| Nkasi | 0 | 0 | .00 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Urban | 0 | 0 | .00 | 0.0 | 0 | 0 | 0 | 0 | 236 | 33 | 30 | 0.90 |
| **Total** | **0** | **0** | **.00** | **0.0** | **0** | **0** | **.00** | **0.0** | **236** | **33** | **30** | **0.90** |

**Cont. 5.15 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Short and Long Rainy SEASON Agricultural Year 2007/08**

| District | Field Peas | | | | Sunflower | | | | Simsim | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 0 | 0 | 0 | 0.00 | 2,822 | 1,768 | 1,029 | 0.58 | 4,234 | 5,821 | 2,798 | 0.48 |
| Sumbawanga Rural | 0 | 0 | 0 | 0.00 | 29,715 | 23,625 | 18,916 | 0.80 | 450 | 820 | 394 | 0.48 |
| Nkasi | 0 | 0 | 0 | 0.00 | 9,609 | 7,801 | 5,156 | 0.66 | 112 | 6 | 2 | 0.38 |
| Sumbawanga Urban | 424 | 337 | 313 | 0.93 | 6,317 | 3,581 | 2,324 | 0.65 | 0 | 0 | 0 | 0.00 |
| **Total** | **424** | **337** | **313** | **0.93** | **48,463** | **36,774** | **27,425** | **0.75** | **4,796** | **6,647** | **3,194** | **0.48** |

**Cont. 5.15 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Short and Long Rainy SEASON Agricultural Year 2007/08**

| District | Groundnut | | | | Soya Beans | | | | Castor Fung | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 37,045 | 26,618 | 22,392 | 0.84 | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 | 0 |
| Sumbawanga Rural | 15,308 | 4,902 | 4,679 | 0.95 | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 | 0 |
| Nkasi | 8,045 | 2,321 | 2,637 | 1.14 | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 | 0 |
| Sumbawanga Urban | 1,886 | 407 | 333 | 0.82 | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 | 0 |
| **Total** | **62,283** | **34,248** | **30,042** | **0.88** | **0** | **0** | **0** | **0.00** | **0** | **0** | **0** | **0** |

**Cont. 5.15 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Short and Long Rainy SEASON Agricultural Year 2007/08**

| District | Okra | | | | Radish | | | | Turmeric | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 0 | 0 | 0 | 0.00 | 0 | 0 | .00 | 0.0 | 0 | 0 | .00 | 0.0 |
| Sumbawanga Rural | 450 | 547 | 648 | 1.19 | 0 | 0 | .00 | 0.0 | 0 | 0 | .00 | 0.0 |
| Nkasi | 223 | 271 | 199 | 0.73 | 0 | 0 | .00 | 0.0 | 0 | 0 | .00 | 0.0 |
| Sumbawanga Urban | 0 | 0 | 0 | 0.00 | 0 | 0 | .00 | 0.0 | 0 | 0 | .00 | 0.0 |
| **Total** | **674** | **818** | **847** | **1.04** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

**Cont. 5.15 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Short and Long Rainy SEASON Agricultural Year 2007/08**

| District | Bitteer Aubergine | | | | **Kothmir** | | | | Onion | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| Sumbawanga Rural | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 | 0 | 675 | 273 | 1,048 | 3.83 |
| Nkasi | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 | 0 | 112 | 45 | 72 | 1.58 |
| Sumbawanga Urban | 283 | 33 | 180 | 5.49 | 0 | 0 | 0 | 0 | 943 | 134 | 396 | 2.96 |
| **Total** | **283** | **33** | **180** | **5.49** | **0** | **0** | **0** | **0** | **1,730** | **452** | **1,516** | **3.35** |

**Cont. 5.15 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) During Short and Long Rainy SEASON Agricultural Year 2007/08**

| District | Ginger | | | | Zukkin | | | | Star Fruit | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Rural | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nkasi | 0 | 0 | .00 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Urban | 0 | 0 | .00 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Total** | **0** | **0** | **0** | **0.00** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

**Cont. 5.15 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) During Short and Long Rainy SEASON Agricultural Year 2007/08**

| District | Cabbage | | | | Tomatoes | | | | Spinach | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 176 | 18 | 141 | 7.90 | 353 | 89 | 4,550 | 50.96 | 0 | 0 | 0 | 0.00 |
| Sumbawanga Rural | 450 | 18 | 90 | 4.94 | 1,801 | 355 | 8,599 | 24.19 | 675 | 128 | 248 | 1.94 |
| Nkasi | 0 | 0 | 0 | 0.00 | 335 | 79 | 266 | 3.36 | 0 | 0 | 0 | 0.00 |
| Sumbawanga Urban | 754 | 94 | 841 | 8.99 | 1,650 | 267 | 4,526 | 16.94 | 896 | 191 | 380 | 1.99 |
| **Total** | **1,381** | **130** | **1,072** | **8.27** | **4,139** | **791** | **17,941** | **22.68** | **1,571** | **319** | **628** | **1.97** |

**Cont. 5.15 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Short and Long Rainy SEASON Agricultural Year 2007/08**

| District | Carrot | | | | **Chillies** | | | | Amaranths | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 | 176 | 36 | 1,428 | 40.00 |
| Sumbawanga Rural | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 | 0.00 | 225 | 91 | 180 | 1.98 |
| Nkasi | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 | 0.00 | 112 | 23 | 2 | 0.07 |
| Sumbawanga Urban | 189 | 29 | 139 | 4.86 | 141 | 6 | 11 | 1.77 | 330 | 44 | 315 | 7.10 |
| **Total** | **189** | **29** | **139** | **4.86** | **141** | **6** | **11** | **1.77** | **843** | **194** | **1,925** | **9.93** |

**Cont. 5.15 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Short and Long Rainy SEASON Agricultural Year 2007/08**

| District | **Pumpkins** | | | | Cucumber | | | | Egg Plant | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Rural | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nkasi | 0 | 0 | .00 | .00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Urban | 0 | 0 | .00 | .00 | 0 | 0 | .00 | 0.0 | 0 | 0 | .00 | 0.0 |
| **Total** | **0** | **0** | **.00** | **.00** | **0** | **0** | **.00** | **0.0** | **0** | **0** | **.00** | **0.0** |

**Cont. 5.15 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Short and Long Rainy SEASON Agricultural Year 2007/08**

| District | Water Mellon | | | | Malay | | | | Cotton | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| Sumbawanga Rural | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 675 | 365 | 437 | 1.20 |
| Nkasi | 0 | 0 | .00 | .00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| Sumbawanga Urban | 0 | 0 | .00 | .00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| **Total** | **0** | **0** | **.00** | **.00** | **0** | **0** | **0** | **0** | **675** | **365** | **437** | **1.20** |

**Cont. 5.15 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Short and Long Rainy SEASON Agricultural Year 2007/08**

| District | Tobacco | | | | Pyrethrum | | | | Jute | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) | Number of Household | Actual Planted Area (ha) | Quantity Harvested (tons) | Yield (tons/ha) |
| Mpanda | 11,113 | 9,389 | 10,470 | 1.12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Rural | 225 | 182 | 191 | 1.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nkasi | 0 | 0 | 0 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Urban | 0 | 0 | 0 | 0.00 | 0 | 0 | .00 | 0.0 | 0 | 0 | 0 | 0 |
| **Total** | **11,162** | **9,556** | **10,637** | **1.11** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

**INPUT USE**

### 5.16 Number of Households and Planted Area by Organic Fertiliser Use and District - SHORT RAINY SEASON

| District | Organic Fertlizer Use | | | | | | % of Planted area using Organic Fertlizer |
|---|---|---|---|---|---|---|---|
| | Number of Households using Organic Fertlizer | Planted Area Applied with Organic Fertlizer | Number of Households NOT using Organic Fertlizer | Planted Area NOT Applied with Organic Fertlizer | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Mpanda | 0 | 0 | 1,058 | 1,232 | 1,058 | 1,232 | 0.0 |
| Sumbawanga Rural | 225 | 46 | 1,126 | 1,139 | 1,351 | 1,185 | 3.8 |
| Nkasi | 0 | 0 | 112 | 633 | 112 | 633 | 0.0 |
| Sumbawanga Urban | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **Total** | **225** | **46** | **2,296** | **3,004** | **2,521** | **3,050** | **1.5** |

### 5.17 Number of Households and Planted Area by Organic Fertiliser Use and District - LONG RAINY SEASON

| District | Organic Fertlizer Use | | | | | | % of Planted area using Organic Fertlizer |
|---|---|---|---|---|---|---|---|
| | Number of Households using Organic Fertlizer | Planted Area Applied with Organic Fertlizer | Number of Households NOT using Organic Fertlizer | Planted Area NOT Applied with Organic Fertlizer | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Mpanda | 529 | 657 | 68,445 | 136,345 | 68,974 | 137,002 | 0.5 |
| Sumbawanga Rural | 2,251 | 3,737 | 86,443 | 178,041 | 88,694 | 181,778 | 2.1 |
| Nkasi | 1,788 | 1,973 | 38,212 | 77,340 | 40,000 | 79,313 | 2.5 |
| Sumbawanga Urban | 6,317 | 5,043 | 12,021 | 23,203 | 18,338 | 28,247 | 17.9 |
| **Total** | **10,885** | **11,411** | **205,120** | **414,929** | **216,005** | **426,340** | **2.7** |

### 5.18 Number of Households and Planted Area by Inorganic Fertiliser Use and District - SHORT RAINY SEASON

| District | Inorganic Fertilizer Use | | | | | | % of Planted area using Inorganic Fertilizer |
|---|---|---|---|---|---|---|---|
| | Number of Households using Inorganic Fertilizer | Planted Area Applied with Inorganic Fertilizer | Number of Households NOT using Inorganic Fertilizer | Planted Area NOT Applied with Inorganic Fertilizer | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Mpanda | 0 | 0 | 1,058 | 1,232 | 1,058 | 1,232 | 0.0 |
| Sumbawanga Rural | 0 | 0 | 1,351 | 1,185 | 1,351 | 1,185 | 0.0 |
| Nkasi | 0 | 0 | 112 | 633 | 112 | 633 | 0.0 |
| Sumbawanga Urban | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **Total** | **0** | **0** | **2,521** | **3,050** | **2,521** | **3,050** | **0.0** |

### 5.19 Number of Households and Planted Area by Inorganic Fertiliser Use and District - LONG RAINY SEASON

| District | Inorganic Fertilizer Use | | | | | | % of Planted area using Inorganic Fertilizer |
|---|---|---|---|---|---|---|---|
| | Number of Households using Inorganic Fertilizer | Planted Area Applied with Inorganic Fertilizer | Number of Households NOT using Inorganic Fertilizer | Planted Area NOT Applied with Inorganic Fertilizer | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Mpanda | 14,112 | 18,838 | 54,862 | 118,164 | 68,974 | 137,002 | 13.8 |
| Sumbawanga Rural | 3,377 | 6,562 | 85,317 | 175,216 | 88,694 | 181,778 | 3.6 |
| Nkasi | 559 | 577 | 39,441 | 78,736 | 40,000 | 79,313 | 0.7 |
| Sumbawanga Urban | 1,980 | 1,745 | 16,358 | 26,502 | 18,338 | 28,247 | 6.2 |
| **Total** | **20,028** | **27,723** | **195,978** | **398,617** | **216,005** | **426,340** | **6.5** |

### 5.20: Number of Households and Planted Area by Fungicide Use and District - Short Rainy Season

| District | Fungicide Use | | | | | | % of Planted area using Fungicide |
|---|---|---|---|---|---|---|---|
| | Number of Households using Fungicide | Planted Area Applied with Fungicide | Number of Households NOT using Fungicide | Planted Area NOT Applied with Herbicide | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Mpanda | 176 | 134 | 882 | 1,098 | 1,058 | 1,232 | 10.9 |
| Sumbawanga Rural | 225 | 18 | 1,126 | 1,167 | 1,351 | 1,185 | 1.5 |
| Nkasi | 0 | 0 | 112 | 633 | 112 | 633 | 0.0 |
| Sumbawanga Urban | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **Total** | **402** | **152** | **2,119** | **2,898** | **2,521** | **3,050** | **5.0** |

### 5.21 Number of Households and Planted Area by Fungicide Use and District - Long Rainy Season

| District | Fungicide Use | | | | | | % of Planted area using Fungicide |
|---|---|---|---|---|---|---|---|
| | Number of Households using Fungicide | Planted Area Applied with Fungicide | Number of Households NOT using Fungicide | Planted Area NOT Applied with Fungicide | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Mpanda | 2,117 | 1,196 | 66,857 | 135,806 | 68,974 | 137,002 | 0.9 |
| Sumbawanga Rural | 2,251 | 2,274 | 86,443 | 179,504 | 88,694 | 181,778 | 1.3 |
| Nkasi | 223 | 113 | 39,776 | 79,200 | 40,000 | 79,313 | 0.1 |
| Sumbawanga Urban | 990 | 256 | 17,348 | 27,991 | 18,338 | 28,247 | 0.9 |
| **Total** | **5,581** | **3,839** | **210,424** | **422,501** | **216,005** | **426,340** | **0.9** |

### 5.22 Number of Households and Planted Area by Herbicide Use and District - Short Rainy Season

| District | Herbicide Use | | | | | | % of Planted area using Herbicide |
|---|---|---|---|---|---|---|---|
| | Number of Households using Herbicide | Planted Area Applied with Herbicide | Number of Households NOT using Herbicides | Planted Area NOT Applied with Herbicide | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Mpanda | 0 | 0 | 1,058 | 1,232 | 1,058 | 1,232 | 0.0 |
| Sumbawanga Rural | 0 | 0 | 1,351 | 1,185 | 1,351 | 1,185 | 0.0 |
| Nkasi | 0 | 0 | 112 | 633 | 112 | 633 | 0.0 |
| Sumbawanga Urban | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **Total** | **0** | **0** | **2,521** | **3,050** | **2,521** | **3,050** | **0.0** |

### 5.23 Number of Households and Planted Area by Herbicide Use and District - Long Rainy Season

| District | Herbicide Use | | | | | | % of Planted area using Herbicide |
|---|---|---|---|---|---|---|---|
| | Number of Households using Herbicide | Planted Area Applied with Herbicide | Number of Households NOT using Herbicides | Planted Area NOT Applied with Herbicide | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Mpanda | 3,528 | 2,714 | 65,446 | 134,288 | 68,974 | 137,002 | 2.0 |
| Sumbawanga Rural | 0 | 0 | 88,694 | 181,778 | 88,694 | 181,778 | 0.0 |
| Nkasi | 335 | 240 | 39,664 | 79,073 | 40,000 | 79,313 | 0.3 |
| Sumbawanga Urban | 283 | 82 | 18,055 | 28,165 | 18,338 | 28,247 | 0.3 |
| **Total** | **4,146** | **3,036** | **211,859** | **423,304** | **216,005** | **426,340** | **0.7** |

### 5.24 Number of Households and Planted Area by Improved Seed Use and District - Short Rainy Season

| District | Improved Seed Use | | | | | | % of area planted using improved seeds |
|---|---|---|---|---|---|---|---|
| | Number of HouseholdsUsing Improved Seeds | Planted Area Improved Seeds Used | Number of Households NOT using Improved Seeds | Planted Area Improved Seed not Used | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Mpanda | 706 | 571 | 353 | 661 | 1,058 | 1,232 | 46.4 |
| Sumbawanga Rural | 225 | 46 | 1,126 | 1,139 | 1,351 | 1,185 | 3.8 |
| Nkasi | 0 | 0 | 112 | 633 | 112 | 633 | 0.0 |
| Sumbawanga Urban | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **Total** | **931** | **617** | **1,590** | **2,433** | **2,521** | **3,050** | **20.2** |

### 5.25 Number of Households and Planted Area by Improved Seed Use and District - Long Rainy Season

| District | Improved Seed Use | | | | | | % of area planted using improved seeds |
|---|---|---|---|---|---|---|---|
| | Number of Households Using Improved Seeds | Planted Area Improved Seed Used | Number of Households NOT using Improved Seeds | Planted Area Improved Seeds not Used | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Mpanda | 16,406 | 17,428 | 52,568 | 119,574 | 68,974 | 137,002 | 12.7 |
| Sumbawanga Rural | 6,753 | 12,566 | 81,940 | 169,212 | 88,694 | 181,778 | 6.9 |
| Nkasi | 1,229 | 1,952 | 38,771 | 77,361 | 40,000 | 79,313 | 2.5 |
| Sumbawanga Urban | 4,384 | 3,343 | 13,954 | 24,904 | 18,338 | 28,247 | 11.8 |
| **Total** | **28,772** | **35,288** | **187,233** | **391,051** | **216,005** | **426,340** | **8.3** |

### 5.26 Number of Crop Growing Households and Planted Area (hectare) by Local Seed Use and District; 2007/08 Agriculture Year - SHORT Rainy Season

| District | Using Local seeds | | Not using Local seeds | | TOTAL | | % of Planted Area Using Local seeds |
|---|---|---|---|---|---|---|---|
| | Number of Households | Planted Area (ha) | Number of Households | Planted Area (ha) | Number of Households | Planted Area (ha) | |
| Mpanda | 706 | 661 | 353 | 571 | 1,058 | 1,232 | 54 |
| Sumbawanga Rural | 1,126 | 1,139 | 225 | 46 | 1,351 | 1,185 | 96 |
| Nkasi | 112 | 633 | 0 | 0 | 112 | 633 | 100 |
| Sumbawanga Urban | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Total** | **1,943** | **2,433** | **578** | **617** | **2,521** | **3,050** | **80** |

### 5.27 Number of Crop Growing Households and Planted Area (hectare) by Local Seed Use and District; 2007/08 Agriculture Year - LONG Rainy Season

| District | Using Local seeds | | Not using Local seeds | | TOTAL | | % of Planted Area Using Local seeds |
|---|---|---|---|---|---|---|---|
| | Number of Households | Planted Area (ha) | Number of Households | Planted Area (ha) | Number of Households | Planted Area (ha) | |
| Mpanda | 67,386 | 115,482 | 1,588 | 21,520 | 68,974 | 137,002 | 84 |
| Sumbawanga Rural | 87,568 | 163,906 | 1,126 | 17,872 | 88,694 | 181,778 | 90 |
| Nkasi | 39,664 | 76,935 | 335 | 2,378 | 40,000 | 79,313 | 97 |
| Sumbawanga Urban | 17,631 | 24,323 | 707 | 3,924 | 18,338 | 28,247 | 86 |
| **Total** | **212,250** | **380,646** | **3,756** | **45,694** | **216,005** | **426,340** | **89** |

### 5.28 Number of Households and Planted Area by Insecticides Use by District - SHORT RAINY SEASON

| District | Insecticide Use | | | | | | % of Planted area using Insecticides |
|---|---|---|---|---|---|---|---|
| | Number of Households using Insecticides | Planted Area Applied with Insecticides | Number of Households NOT using Insecticides | Planted Area Without Insecticides | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Mpanda | 176 | 232 | 882 | 1,000 | 1,058 | 1,232 | 18.8 |
| Sumbawanga Rural | 450 | 155 | 900 | 1,030 | 1,351 | 1,185 | 13.1 |
| Nkasi | 0 | 0 | 112 | 633 | 112 | 633 | 0.0 |
| Sumbawanga Urban | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **Total** | **627** | **387** | **1,894** | **2,663** | **2,521** | **3,050** | **12.7** |

### 5.29 Number of Households and Planted Area by Insecticide Use and District - Long Rainy Season

| District | Insecticide Use | | | | | | % of Planted area using Insecticides |
|---|---|---|---|---|---|---|---|
| | Number of Households using Insecticides | Planted Area Applied with Insecticides | Number of Households NOT using Insecticides | Planted Area Without Insecticides | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Mpanda | 5,821 | 3,901 | 63,152 | 133,101 | 68,974 | 137,002 | 2.8 |
| Sumbawanga Rural | 4,727 | 5,680 | 83,966 | 176,097 | 88,694 | 181,778 | 3.1 |
| Nkasi | 447 | 339 | 39,553 | 78,974 | 40,000 | 79,313 | 0.4 |
| Sumbawanga Urban | 7,778 | 6,590 | 10,560 | 21,657 | 18,338 | 28,247 | 23.3 |
| **Total** | **18,774** | **16,510** | **197,231** | **409,829** | **216,005** | **426,340** | **3.9** |

### 5.30: Number of Households and Planted Area by Irrigation Use and District -SHORT RAINY SEASON

| District | Irrigation use | | | | | | % of area planted under irrigation in Short rainy season |
|---|---|---|---|---|---|---|---|
| | Number of Households using Irrigation | Planted Area with Irrigation | Number of Households NOT using Irrigation | Planted Area with no Irrigation | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Mpanda | 0 | 0 | 1,058 | 1,232 | 1,058 | 1,232 | 0.0 |
| Sumbawanga Rural | 225 | 46 | 1,126 | 1,139 | 1,351 | 1,185 | 3.8 |
| Nkasi | 0 | 0 | 112 | 633 | 112 | 633 | 0.0 |
| Sumbawanga Urban | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **Total** | **225** | **46** | **2,296** | **3,004** | **2,521** | **3,050** | **1.5** |

### 5.31 Number of Households and Planted Area by Irrigation Use and District -LONG RAINY SEASON

| District | Irrigation use | | | | | | % of area planted under irrigation in long rainy season |
|---|---|---|---|---|---|---|---|
| | Number of Households using Irrigation | Planted Area with Irrigation | Number of Households NOT using Irrigation | Planted Area with no Irrigation | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Mpanda | 1,235 | 1,036 | 67,739 | 135,966 | 68,974 | 137,002 | 0.8 |
| Sumbawanga Rural | 4,502 | 5,651 | 84,192 | 176,127 | 88,694 | 181,778 | 3.1 |
| Nkasi | 670 | 489 | 39,329 | 78,824 | 40,000 | 79,313 | 0.6 |
| Sumbawanga Urban | 2,876 | 1,095 | 15,463 | 27,152 | 18,338 | 28,247 | 3.9 |
| **Total** | **9,283** | **8,270** | **206,722** | **418,069** | **216,005** | **426,340** | **1.9** |

### 5.32 Planted Area & Number of Households by Organic Fertiliser Use by Crop - SHORT RAINY SEASON-MPANDA

| Crop | Fertilizer Use | | | | | | | % of area planted using Organic Fertilizer |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Organic Fertilizer | Planted Area Organic Fertilizer Used | Cost of Organic Fertilizer | Number of Households NOT using Organic Fertilizer | Planted Area Organic Fertilizer not Used | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Maize | 0 | 0 | 0 | 882 | 509 | 882 | 509 | 0.0 |
| Paddy | 0 | 0 | 0 | 176 | 143 | 176 | 143 | 0.0 |
| Sorghum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CEREALS** | | **0** | **0** | | **652** | **1,058** | **652** | **0.0** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Beans | 0 | 0 | 0 | 706 | 368 | 706 | 368 | 0.0 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **0** | **0** | | **368** | **706** | **368** | **0.0** |
| Sunflower | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Groundnut | 0 | 0 | 0 | 176 | 54 | 176 | 54 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **54** | **176** | **54** | **0.0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Cabbage | 0 | 0 | 0 | 176 | 18 | 176 | 18 | 0.0 |
| Tomatoes | 0 | 0 | 0 | 353 | 89 | 353 | 89 | 0.0 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 176 | 36 | 176 | 36 | 0.0 |
| **FRUITS & VEGETABLES** | | **0** | **0** | | **143** | **706** | **143** | **0.0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 0 | 0 | 0 | 176 | 16 | 176 | 16 | 0.0 |
| **CASH CROPS** | | **0** | **0** | | **16** | **176** | **16** | **0.0** |
| **Total** | **0** | **0** | **0** | | **1,232** | **2,822** | **1,232** | **0.0** |

### 5.33 Planted Area & Number of Households by Organic Fertiliser Use by Crop - SHORT RAINY SEASON- SUMBAWANGA RURAL

| Crop | Fertilizer Use | | | | | | | % of area planted using Organic Fertilizer |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Organic Fertilizer | Planted Area Organic Fertilizer Used | Cost of Organic Fertilizer | Number of Households NOT using Organic Fertilizer | Planted Area Organic Fertilizer not Used | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Maize | 0 | 0 | 0 | 675 | 547 | 675 | 547 | 0.0 |
| Paddy | 0 | 0 | 0 | 225 | 365 | 225 | 365 | 0.0 |
| Sorghum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CEREALS** | | **0** | **0** | | **911** | **900** | **911** | **0.0** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Beans | 0 | 0 | 0 | 225 | 91 | 225 | 91 | 0.0 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **0** | **0** | | **91** | **225** | **91** | **0.0** |
| Sunflower | 0 | 0 | 0 | 225 | 91 | 225 | 91 | 0.0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Groundnut | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **91** | **225** | **91** | **0.0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Cabbage | 0 | 0 | 0 | 225 | 9 | 225 | 9 | 0.0 |
| Tomatoes | 225 | 46 | 405,200 | 225 | 18 | 450 | 64 | 71.4 |
| Spinach | 0 | 0 | 0 | 225 | 18 | 225 | 18 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **FRUITS & VEGETABLES** | | **46** | **405,200** | | **46** | **900** | **91** | **50.0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CASH CROPS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| **Total** | **225** | **46** | **405,200** | | **1,139** | **2,251** | **1,185** | **3.8** |

### 5.34 Planted Area & Number of Households by Organic Fertiliser Use by Crop - SHORT RAINY SEASON- NKASI

| Crop | Fertilizer Use | | | | | | | % of area planted using Organic Fertilizer |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Organic Fertilizer | Planted Area Organic Fertilizer Used | Cost of Organic Fertilizer | Number of Households NOT using Organic Fertilizer | Planted Area Organic Fertilizer not Used | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Maize | 0 | 0 | 0 | 112 | 181 | 112 | 181 | 0.0 |
| Paddy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sorghum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 112 | 362 | 112 | 362 | 0.0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CEREALS** | | **0** | **0** | | **543** | **223** | **543** | **0.0** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Beans | 0 | 0 | 0 | 112 | 90 | 112 | 90 | 0.0 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **0** | **0** | | **90** | **112** | **90** | **0.0** |
| Sunflower | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Groundnut | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Cabbage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tomatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **FRUITS & VEGETABLES** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CASH CROPS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| **Total** | **0** | **0** | **0** | | **633** | **335** | **633** | **0.0** |

### 5.35 Planted Area & Number of Households by Organic Fertiliser Use by Crop - SHORT RAINY SEASON- SUMBAWANGA URBAN

| Crop | Fertilizer Use | | | | | | | % of area planted using Organic Fertilizer |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Organic Fertilizer | Planted Area Organic Fertilizer Used | Cost of Organic Fertilizer | Number of Households NOT using Organic Fertilizer | Planted Area Organic Fertilizer not Used | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Maize | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Paddy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sorghum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CEREALS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Beans | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Sunflower | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Groundnut | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Cabbage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tomatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **FRUITS & VEGETABLES** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CASH CROPS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| **Total** | **0** | **0** | **0** | | **0** | **0** | **0** | **0.0** |

### 5.36 Planted Area & Number of Households by Organic Fertiliser Use by Crop - SHORT RAINY SEASON- RUKWA REGION

| Crop | Fertilizer Use | | | | | | | % of area planted using Organic Fertilizer |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Organic Fertilizer | Planted Area Organic Fertilizer Used | Cost of Organic Fertilizer | Number of Households NOT using Organic Fertilizer | Planted Area Organic Fertilizer not Used | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Maize | 0 | 0 | 0 | 1,669 | 1,237 | 1,669 | 1,237 | 0.0 |
| Paddy | 0 | 0 | 0 | 402 | 507 | 402 | 507 | 0.0 |
| Sorghum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 112 | 362 | 112 | 362 | 0.0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CEREALS** | | **0** | **0** | | **2,106** | **2,182** | **2,106** | **0.0** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Beans | 0 | 0 | 0 | 1,042 | 549 | 1,042 | 549 | 0.0 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **0** | **0** | | **549** | **1,042** | **549** | **0.0** |
| Sunflower | 0 | 0 | 0 | 225 | 91 | 225 | 91 | 0.0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Groundnut | 0 | 0 | 0 | 176 | 54 | 176 | 54 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **145** | **402** | **145** | **0.0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Cabbage | 0 | 0 | 0 | 402 | 27 | 402 | 27 | 0.0 |
| Tomatoes | 225 | 46 | 405,200 | 578 | 108 | 803 | 153 | 29.8 |
| Spinach | 0 | 0 | 0 | 225 | 18 | 225 | 18 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 176 | 36 | 176 | 36 | 0.0 |
| **FRUITS & VEGETABLES** | | **46** | **405,200** | | **188** | **1,606** | **234** | **0.0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 0 | 0 | 0 | 176 | 16 | 176 | 16 | 0.0 |
| **CASH CROPS** | | **0** | **0** | | **16** | **176** | **16** | **0.0** |
| **Total** | **225** | **46** | **405,200** | | **3,004** | **5,409** | **3,050** | **1.5** |

### 5.37 Planted Area & Number of Households by Inorganic Fertiliser Use by Crop - SHORT RAINY SEASON- MPANDA

| Crop | Fertilizer Use | | | | | | | % of area planted using Inorganic Fertilizer |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Inorganic Fertilizer | Planted Area Inorganic Fertilizer Used | Cost of Inorganic Fertilizer | Number of Households NOT using Inorganic Fertilizer | Planted Area Inorganic Fertilizer not Used | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Maize | 0 | 0 | 0 | 882 | 509 | 882 | 509 | 0.0 |
| Paddy | 0 | 0 | 0 | 176 | 143 | 176 | 143 | 0.0 |
| Sorghum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CEREALS** | | **0** | **0** | | **652** | **1,058** | **652** | **0.0** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Beans | 0 | 0 | 0 | 706 | 368 | 706 | 368 | 0.0 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **0** | **0** | | **368** | **706** | **368** | **0.0** |
| Sunflower | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Groundnut | 0 | 0 | 0 | 176 | 54 | 176 | 54 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **54** | **176** | **54** | **0.0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Cabbage | 0 | 0 | 0 | 176 | 18 | 176 | 18 | 0.0 |
| Tomatoes | 0 | 0 | 0 | 353 | 89 | 353 | 89 | 0.0 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 176 | 36 | 176 | 36 | 0.0 |
| **FRUITS & VEGETABLES** | | **0** | **0** | | **143** | **706** | **143** | **0.0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 0 | 0 | 0 | 176 | 16 | 176 | 16 | 0.0 |
| **CASH CROPS** | | **0** | **0** | | **16** | **176** | **16** | **0.0** |
| **Total** | **0** | **0** | **0** | | **1,232** | **2,822** | **1,232** | **0.0** |

### 5.38 Planted Area & Number of Households by Inorganic Fertiliser Use by Crop - SHORT RAINY SEASON- SUMBAWANGA RURAL

| Crop | Fertilizer Use | | | | | | | % of area planted using Inorganic Fertilizer |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Inorganic Fertilizer | Planted Area Inorganic Fertilizer Used | Cost of Inorganic Fertilizer | Number of Households NOT using Inorganic Fertilizer | Planted Area Inorganic Fertilizer not Used | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Maize | 0 | 0 | 0 | 675 | 547 | 675 | 547 | 0.0 |
| Paddy | 0 | 0 | 0 | 225 | 365 | 225 | 365 | 0.0 |
| Sorghum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CEREALS** | | **0** | **0** | | **911** | **900** | **911** | **0.0** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Beans | 0 | 0 | 0 | 225 | 91 | 225 | 91 | 0.0 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **0** | **0** | | **91** | **225** | **91** | **0.0** |
| Sunflower | 0 | 0 | 0 | 225 | 91 | 225 | 91 | 0.0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Groundnut | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **91** | **225** | **91** | **0.0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Cabbage | 0 | 0 | 0 | 225 | 9 | 225 | 9 | 0.0 |
| Tomatoes | 0 | 0 | 0 | 450 | 64 | 450 | 64 | 0.0 |
| Spinach | 0 | 0 | 0 | 225 | 18 | 225 | 18 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **FRUITS & VEGETABLES** | | **0** | **0** | | **91** | **900** | **91** | **0.0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CASH CROPS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| **Total** | **0** | **0** | **0** | | **1,185** | **2,251** | **1,185** | **0.0** |

### 5.39 Planted Area & Number of Households by Inorganic Fertiliser Use by Crop - SHORT RAINY SEASON- NKASI

| Crop | Fertilizer Use | | | | | | | % of area planted using Inorganic Fertilizer |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Inorganic Fertilizer | Planted Area Inorganic Fertilizer Used | Cost of Inorganic Fertilizer | Number of Households NOT using Inorganic Fertilizer | Planted Area Inorganic Fertilizer not Used | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Maize | 0 | 0 | 0 | 112 | 181 | 112 | 181 | 0.0 |
| Paddy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sorghum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 112 | 362 | 112 | 362 | 0.0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CEREALS** | | **0** | **0** | | **543** | **223** | **543** | **0.0** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Beans | 0 | 0 | 0 | 112 | 90 | 112 | 90 | 0.0 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **0** | **0** | | **90** | **112** | **90** | **0.0** |
| Sunflower | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Groundnut | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Cabbage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tomatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **FRUITS & VEGETABLES** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CASH CROPS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| **Total** | **0** | **0** | **0** | | **633** | **335** | **633** | **0.0** |

### 5.40 Planted Area & Number of Households by Inorganic Fertiliser Use by Crop - SHORT RAINY SEASON- SUMBAWANGA URBAN

| Crop | Fertilizer Use | | | | | | | % of area planted using Inorganic Fertilizer |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Inorganic Fertilizer | Planted Area Inorganic Fertilizer Used | Cost of Inorganic Fertilizer | Number of Households NOT using Inorganic Fertilizer | Planted Area Inorganic Fertilizer not Used | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Maize | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Paddy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sorghum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CEREALS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Beans | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Sunflower | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Groundnut | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Cabbage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tomatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **FRUITS & VEGETABLES** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CASH CROPS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| **Total** | **0** | **0** | **0** | | **0** | **0** | **0** | **0.0** |

### 5.41 Planted Area & Number of Households by Insecticide Use by Crop During 2007/08 Agriculture Year - SHORT RAINY SEASON - MPANDA

| Crop | Insecticide use | | | | | | | % of Planted area using Insecticide |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Insecticide | Planted Area Applied with Insecticide | Cost of Insecticide | Number of Households NOT using Insecticide | Planted Area Without Insecticide | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Maize | 0 | 0 | 0 | 882 | 509 | 882 | 509 | 0.0 |
| Paddy | 0 | 0 | 0 | 176 | 143 | 176 | 143 | 0.0 |
| Sorghum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CEREALS** | | **0** | **0** | | **652** | | **652** | **0.0** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **0** | **1,058** | **0** | **0.0** |
| Beans | 176 | 214 | 2,646,053 | 529 | 154 | 706 | 368 | 58.3 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **214** | **2,646,053** | | **154** | **706** | **368** | **58.3** |
| Sunflower | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Groundnut | 0 | 0 | 0 | 176 | 54 | 176 | 54 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **54** | | **54** | **0.0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Cabbage | 176 | 18 | 882,018 | 0 | 0 | 176 | 18 | 100.0 |
| Tomatoes | 0 | 0 | 0 | 353 | 89 | 353 | 89 | 0.0 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 176 | 36 | 176 | 36 | 0.0 |
| **FRUITS & VEGETABLES** | | **18** | **882,018** | | **125** | | **143** | **12.5** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 0 | 0 | 0 | 176 | 16 | 176 | 16 | 0.0 |
| **CASH CROPS** | | **0** | **0** | **176** | **16** | **176** | **16** | **0.0** |
| **Total** | **353** | **232** | **3,528,071** | **2,470** | **1,000** | **3,881** | **1,232** | **18.8** |

### 5.42 Planted Area & Number of Households by Insecticide Use by Crop During 2007/08 Agriculture Year - SHORT RAINY SEASON - SUMBAWANGA RURAL

| Crop | Insecticide use | | | | | | | % of Planted area using Insecticide |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Insecticide | Planted Area Applied with Insecticide | Cost of Insecticide | Number of Households NOT using Insecticide | Planted Area Without Insecticide | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Maize | 225 | 137 | 900,444 | 675 | 410 | 900 | 547 | 25.0 |
| Paddy | 0 | 0 | 0 | 225 | 365 | 225 | 365 | 0.0 |
| Sorghum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CEREALS** | | **137** | **900,444** | | **775** | | **911** | **15.0** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **0** | **1,126** | **0** | **0.0** |
| Beans | 0 | 0 | 0 | 225 | 91 | 225 | 91 | 0.0 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **0** | **0** | | **91** | **225** | **91** | **0.0** |
| Sunflower | 0 | 0 | 0 | 225 | 91 | 225 | 91 | 0.0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Groundnut | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **91** | | **91** | **0.0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Cabbage | 0 | 0 | 0 | 225 | 9 | 225 | 9 | 0.0 |
| Tomatoes | 225 | 18 | 2,251,110 | 225 | 46 | 450 | 64 | 28.6 |
| Spinach | 0 | 0 | 0 | 225 | 18 | 225 | 18 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **FRUITS & VEGETABLES** | | **18** | **2,251,110** | | **73** | | **91** | **20.0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CASH CROPS** | | **0** | **0** | **0** | **0** | **0** | **0** | **0.0** |
| **Total** | **450** | **155** | **3,151,554** | **2,026** | **1,030** | **3,602** | **1,185** | **13.1** |

### 5.43 Planted Area & Number of Households by Insecticide Use by Crop During 2007/08 Agriculture year - SHORT RAINY SEASON - NKASI

| Crop | Insecticide use | | | | | | | % of Planted area using Insecticide |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Insecticide | Planted Area Applied with Insecticide | Cost of Insecticide | Number of Households NOT using Insecticide | Planted Area Without Insecticide | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Maize | 0 | 0 | 0 | 112 | 181 | 112 | 181 | 0.0 |
| Paddy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sorghum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 112 | 362 | 112 | 362 | 0.0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CEREALS** | | **0** | **0** | | **543** | | **543** | **0.0** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **0** | **223** | **0** | **0.0** |
| Beans | 0 | 0 | 0 | 112 | 90 | 112 | 90 | 0.0 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **0** | **0** | | **90** | **112** | **90** | **0.0** |
| Sunflower | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Groundnut | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **0** | | **0** | **0.0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Cabbage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tomatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **FRUITS & VEGETABLES** | | **0** | **0** | | **0** | | **0** | **0.0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CASH CROPS** | | **0** | **0** | **0** | **0** | **0** | **0** | **0.0** |
| **Total** | **0** | **0** | **0** | **335** | **633** | **559** | **633** | **0.0** |

### 5.44 Planted Area & Number of Households by Insecticide Use by Crop During 2007/08 Agriculture year - SHORT RAINY SEASON - SUMBAWANGA URBAN

| Crop | Insecticide use | | | | | | | % of Planted area using Insecticide |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Insecticide | Planted Area Applied with Insecticide | Cost of Insecticide | Number of Households NOT using Insecticide | Planted Area Without Insecticide | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Maize | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Paddy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sorghum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CEREALS** | | **0** | **0** | | **0** | | **0** | **0.0** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Beans | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Sunflower | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Groundnut | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **0** | | **0** | **0.0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Cabbage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tomatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **FRUITS & VEGETABLES** | | **0** | **0** | | **0** | | **0** | **0.0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CASH CROPS** | | **0** | **0** | **0** | **0** | **0** | **0** | **0.0** |
| **Total** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0.0** |

### 5.45 Planted Area & Number of Households by Fungicide Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - MPANDA

| Crops | Fungicide Use | | | | | | | % of Planted area using Fungicide |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Fungicide | Planted Area Fungicide Used | Cost of Fungicides | Number of Households NOT using Fungicide | Planted Area Fungicide not Used | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Maize | 0 | 0 | 0 | 882 | 509 | 882 | 509 | 0.0 |
| Paddy | 0 | 0 | 0 | 176 | 143 | 176 | 143 | 0.0 |
| Sorghum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CEREALS** | | **0** | **0** | | **652** | | **652** | **0.0** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **0** | | **0** | **0.0** |
| Beans | 176 | 54 | 882,018 | 706 | 314 | 882 | 368 | 14.6 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **54** | **882,018** | | **314** | | **368** | **14.6** |
| Sunflower | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Groundnut | 0 | 0 | 0 | 176 | 54 | 176 | 54 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **54** | | **54** | **0.0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Cabbage | 0 | 0 | 0 | 176 | 18 | 176 | 18 | 0.0 |
| Tomatoes | 176 | 54 | 529,211 | 353 | 36 | 529 | 89 | 60.0 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 176 | 27 | 0 | 176 | 9 | 353 | 36 | 75.0 |
| **FRUITS & VEGETABLES** | | **80** | **529,211** | | **62** | | **143** | **56.3** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 0 | 0 | 0 | 176 | 16 | 176 | 16 | 0.0 |
| **CASH CROPS** | | **0** | **0** | | **16** | | **16** | **0.0** |
| **Total** | **529** | **134** | **1,411,228** | **2,822** | **1,098** | **3,352** | **1,232** | **10.9** |

### 5.46 Planted Area & Number of Households by Fungicide Use by Crop during 2007/08 Agriculture year - SHORT RAINY SEASON - SUMBAWANGA RURAL

| Crops | Fungicide Use | | | | | | | % of Planted area using Fungicide |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Fungicide | Planted Area Fungicide Used | Cost of Fungicides | Number of Households NOT using Fungicide | Planted Area Fungicide not Used | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Maize | 0 | 0 | 0 | 675 | 547 | 675 | 547 | 0.0 |
| Paddy | 0 | 0 | 0 | 225 | 365 | 225 | 365 | 0.0 |
| Sorghum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CEREALS** | | **0** | **0** | | **911** | | **911** | **0.0** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **0** | | **0** | **0.0** |
| Beans | 0 | 0 | 0 | 225 | 91 | 225 | 91 | 0.0 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **0** | **0** | | **91** | | **91** | **0.0** |
| Sunflower | 0 | 0 | 0 | 225 | 91 | 225 | 91 | 0.0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Groundnut | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **91** | | **91** | **0.0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Cabbage | 0 | 0 | 0 | 225 | 9 | 225 | 9 | 0.0 |
| Tomatoes | 225 | 18 | 3,376,665 | 225 | 46 | 450 | 64 | 28.6 |
| Spinach | 0 | 0 | 0 | 225 | 18 | 225 | 18 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **FRUITS & VEGETABLES** | | **18** | **3,376,665** | | **73** | | **91** | **20.0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CASH CROPS** | | **0** | **0** | | **0** | | **0** | **0.0** |
| **Total** | **225** | **18** | **3,376,665** | **2,026** | **1,167** | **2,251** | **1,185** | **1.5** |

### 5.47 Planted Area & Number of Households by Fungicide Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - NKASI

| Crops | Fungicide Use | | | | | | | % of Planted area using Fungicide |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Fungicide | Planted Area Fungicide Used | Cost of Fungicides | Number of Households NOT using Fungicide | Planted Area Fungicide not Used | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Maize | 0 | 0 | 0 | 112 | 181 | 112 | 181 | 0.0 |
| Paddy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sorghum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 112 | 362 | 112 | 362 | 0.0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CEREALS** | | **0** | **0** | | **543** | | **543** | **0.0** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **0** | | **0** | **0.0** |
| Beans | 0 | 0 | 0 | 112 | 90 | 112 | 90 | 0.0 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **0** | **0** | | **90** | | **90** | **0.0** |
| Sunflower | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Groundnut | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **0** | | **0** | **0.0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Cabbage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tomatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **FRUITS & VEGETABLES** | | **0** | **0** | | **0** | | **0** | **0.0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CASH CROPS** | | **0** | **0** | | **0** | | **0** | **0.0** |
| **Total** | **0** | **0** | **0** | **335** | **633** | **335** | **633** | **0.0** |

### 5.48 Planted Area & Number of Households by Fungicide Use by Crop During 2007/08 Agriculture Year - SHORT RAINY SEASON - SUMBAWANGA URBAN

| Crops | Fungicide Use | | | | | | | % of Planted area using Fungicide |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Fungicide | Planted Area Fungicide Used | Cost of Fungicides | Number of Households NOT using Fungicide | Planted Area Fungicide not Used | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Maize | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Paddy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sorghum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CEREALS** | | **0** | **0** | | **0** | | **0** | **0.0** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **0** | | **0** | **0.0** |
| Beans | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **0** | **0** | | **0** | | **0** | **0.0** |
| Sunflower | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Groundnut | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **0** | | **0** | **0.0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Cabbage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tomatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **FRUITS & VEGETABLES** | | **0** | **0** | | **0** | | **0** | **0.0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CASH CROPS** | | **0** | **0** | | **0** | | **0** | **0.0** |
| **Total** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0.0** |

### 5.49 Planted Area & Number of Households by Herbicide Use by Crop - SHORT RAINY SEASON - MPANDA

| Crop | Herbicide use | | | | | | | % of area planted under Herbicide in SHORT rainy season |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Herbicide | Planted Area with Herbicide | Cost of Herbicide | Number of Households NOT using Herbicide | Planted Area with no Herbicide | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Maize | 0 | 0 | 0 | 882 | 509 | 882 | 509 | 0.0 |
| Paddy | 0 | 0 | 0 | 176 | 143 | 176 | 143 | 0.0 |
| Sorghum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CEREALS** | | **0** | **0** | | **652** | **1,058** | **652** | **0.0** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Beans | 0 | 0 | 0 | 706 | 368 | 706 | 368 | 0.0 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **0** | **0** | | **368** | **706** | **368** | **0.0** |
| Sunflower | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Groundnut | 0 | 0 | 0 | 176 | 54 | 176 | 54 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **54** | | **54** | **0.0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Cabbage | 0 | 0 | 0 | 176 | 18 | 176 | 18 | 0.0 |
| Tomatoes | 0 | 0 | 0 | 353 | 89 | 353 | 89 | 0.0 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 176 | 36 | 176 | 36 | 0.0 |
| **FRUITS & VEGETABLES** | | **0** | **0** | | **143** | **706** | **143** | **0.0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 0 | 0 | 0 | 176 | 16 | 176 | 16 | 0.0 |
| **CASH CROPS** | | **0** | **0** | | **16** | **176** | **16** | **0.0** |
| **Total** | **0** | **0** | **0** | | **1,232** | **2,822** | **1,232** | **0.0** |

### 5.50 Planted Area & Number of Households by Herbicide Use by Crop - SHORT RAINY SEASON – SUMBAWANGA RURAL

| Crop | Herbicide use | | | | | | | % of area planted under Herbicide in SHORT rainy season |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Herbicide | Planted Area with Herbicide | Cost of Herbicide | Number of Households NOT using Herbicide | Planted Area with no Herbicide | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Maize | 0 | 0 | 0 | 675 | 547 | 675 | 547 | 0.0 |
| Paddy | 0 | 0 | 0 | 225 | 365 | 225 | 365 | 0.0 |
| Sorghum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CEREALS** | | **0** | **0** | | **911** | **900** | **911** | **0.0** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Beans | 0 | 0 | 0 | 225 | 91 | 225 | 91 | 0.0 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **0** | **0** | | **91** | **225** | **91** | **0.0** |
| Sunflower | 0 | 0 | 0 | 225 | 91 | 225 | 91 | 0.0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Groundnut | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **91** | | **91** | **0.0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Cabbage | 0 | 0 | 0 | 225 | 9 | 225 | 9 | 0.0 |
| Tomatoes | 0 | 0 | 0 | 450 | 64 | 450 | 64 | 0.0 |
| Spinach | 0 | 0 | 0 | 225 | 18 | 225 | 18 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **FRUITS & VEGETABLES** | | **0** | **0** | | **91** | **900** | **91** | **0.0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CASH CROPS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| **Total** | **0** | **0** | **0** | | **1,185** | **2,251** | **1,185** | **0.0** |

### 5.51 Planted Area & Number of Households by Herbicide Use by Crop - SHORT RAINY SEASON - NKASI

| Crop | Herbicide Use | | | | | | | % of area planted under Herbicide in SHORT rainy season |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Herbicide | Planted Area with Herbicide | Cost of Herbicide | Number of Households NOT using Herbicide | Planted Area with no Herbicide | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Maize | 0 | 0 | 0 | 112 | 181 | 112 | 181 | 0.0 |
| Paddy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sorghum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 112 | 362 | 112 | 362 | 0.0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CEREALS** | | **0** | **0** | | **543** | **223** | **543** | **0.0** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Beans | 0 | 0 | 0 | 112 | 90 | 112 | 90 | 0.0 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **0** | **0** | | **90** | **112** | **90** | **0.0** |
| Sunflower | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Groundnut | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **0** | | **0** | **0.0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Cabbage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tomatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **FRUITS & VEGETABLES** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CASH CROPS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| **Total** | **0** | **0** | **0** | | **633** | **335** | **633** | **0.0** |

### 5.52 Planted Area & Number of Households by Herbicide Use by Crop - SHORT RAINY SEASON - SUMBAWANGA URBAN

| Crop | Herbicide use | | | | | | | % of area planted under Herbicide in SHORT rainy season |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Herbicide | Planted Area with Herbicide | Cost of Herbicide | Number of Households NOT using Herbicide | Planted Area with no Herbicide | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Maize | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Paddy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sorghum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CEREALS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Beans | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Sunflower | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Groundnut | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **0** | | **0** | **0.0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Cabbage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tomatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **FRUITS & VEGETABLES** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CASH CROPS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| **Total** | **0** | **0** | **0** | | **0** | **0** | **0** | **0.0** |

### 5.53 Planted Area & Number of Households by Improved Seeds Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - MPANDA

| Crop | Improved Seed | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Improved Seed | Planted Area Improved Seed Used | Cost of Improved Seeds | Number of Households NOT using Improved Seeds | Planted Area Improved Seed not Used | Total Number of Households Planting in VULI | Total Planted Area in VULI | % of area planted using improved seed |
| Maize | 529 | 357 | 4,156,068 | 353 | 152 | 882 | 509 | 70.13 |
| Paddy | 0 | 0 | 0 | 176 | 143 | 176 | 143 | 0 |
| Sorghum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Finger Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **CEREALS** | | **357** | **4,156,068** | | **295** | | **652** | **54.76** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sweet Potato | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **0** | | **0** | **0** |
| Beans | 176 | 71 | 2,116,843 | 529 | 296 | 706 | 368 | 19.42 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **PULSES** | | **71** | **2,116,843** | | **296** | **706** | **368** | **19.42** |
| Sunflower | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Groundnut | 0 | 0 | 0 | 176 | 54 | 176 | 54 | 0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **54** | | **54** | **0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cabbage | 176 | 18 | 882,018 | 0 | 0 | 176 | 18 | 100 |
| Tomatoes | 353 | 89 | 1,940,439 | 0 | 0 | 353 | 89 | 100 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Amaranths | 176 | 36 | 617,412 | 0 | 0 | 176 | 36 | 100 |
| **FRUITS & VEGETABLES** | | **143** | **3,439,869** | | **0** | | **143** | **100** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tobacco | 0 | 0 | 0 | 176 | 16 | 176 | 16 | 0 |
| **CASH CROPS** | | **0** | **0** | | **16** | | **16** | **0** |
| **Total** | | **571** | **9,712,780** | | **661** | | **1,232** | **46.4** |

### 5.54 Planted Area & Number of Households by Improved Seeds Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - SUMBAWANGA RURAL

| Crop | Improved Seed | | | | | | | % of area planted using improved seed |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Improved Seed | Planted Area Improved Seed Used | Cost of Improved Seeds | Number of Households NOT using Improved Seeds | Planted Area Improved Seed not Used | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Maize | 0 | 0 | 0 | 675 | 547 | 675 | 547 | 0.00 |
| Paddy | 0 | 0 | 0 | 225 | 365 | 225 | 365 | 0.00 |
| Sorghum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Finger Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **CEREALS** | | **0** | **0** | | **911** | | **911** | **0.00** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sweet Potato | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **0** | | **0** | **0** |
| Beans | 0 | 0 | 0 | 225 | 91 | 225 | 91 | 0.00 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **PULSES** | | **0** | **0** | | **91** | **225** | **91** | **0.00** |
| Sunflower | 0 | 0 | 0 | 225 | 91 | 225 | 91 | 0.00 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Groundnut | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **91** | | **91** | **0.00** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cabbage | 225 | 9 | 450,222 | 0 | 0 | 225 | 9 | 100.00 |
| Tomatoes | 225 | 18 | 675,333 | 225 | 46 | 450 | 64 | 28.57 |
| Spinach | 225 | 18 | 450,222 | 0 | 0 | 225 | 18 | 100.00 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Amaranths | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **FRUITS & VEGETABLES** | | **46** | **1,575,777** | | **46** | | **91** | **50.00** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **CASH CROPS** | | **0** | **0** | | **0** | | **0** | **0** |
| **Total** | **675** | **46** | **1,575,777** | | **1,139** | | **1,185** | **3.8** |

### 5.55 Planted Area & Number of Households by Improved Seeds Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON – NKASI

| Crop | Improved Seed | | | | | | | % of area planted using improved seed |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Improved Seed | Planted Area Improved Seed Used | Cost of Improved Seeds | Number of Households NOT using Improved Seeds | Planted Area Improved Seed not Used | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Maize | 0 | 0 | 0 | 112 | 181 | 112 | 181 | 0.00 |
| Paddy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sorghum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Finger Millet | 0 | 0 | 0 | 112 | 362 | 112 | 362 | 0.00 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| **CEREALS** | | **0** | **0** | | **543** | | **543** | **0.00** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sweet Potato | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **0** | | **0** | **0** |
| Beans | 0 | 0 | 0 | 112 | 90 | 112 | 90 | 0.00 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **PULSES** | | **0** | **0** | | **90** | **112** | **90** | **0.00** |
| Sunflower | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Groundnut | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **0** | | **0** | **0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cabbage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tomatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Amaranths | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **FRUITS & VEGETABLES** | | **0** | **0** | | **0** | | **0** | **0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **CASH CROPS** | | **0** | **0** | | **0** | | **0** | **0** |
| **Total** | **0** | **0** | **0** | | **633** | | **633** | **0.0** |

### 5.56 Planted Area & Number of Households by Improved Seeds Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - SUMBAWANGA URBAN

| Crop | Improved Seed | | | | | | | % of area planted using improved seed |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Improved Seed | Planted Area Improved Seed Used | Cost of Improved Seeds | Number of Households NOT using Improved Seeds | Planted Area Improved Seed not Used | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Maize | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Paddy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sorghum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Finger Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **CEREALS** | | **0** | **0** | | **0** | | **0** | **0** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sweet Potato | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **0** | | **0** | **0** |
| Beans | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **PULSES** | | **0** | **0** | | **0** | **0** | **0** | **0** |
| Sunflower | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Groundnut | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **0** | | **0** | **0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cabbage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tomatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Amaranths | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **FRUITS & VEGETABLES** | | **0** | **0** | | **0** | | **0** | **0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **CASH CROPS** | | **0** | **0** | | **0** | | **0** | **0** |
| **Total** | **0** | **0** | **0** | | **0** | | **0** | **0** |

### 5.57 Planted Area & Number of Households by Local Seeds Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - MPANDA

| Crop | Local Seed | | | | | | | % of area planted using Local seed |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Local Seed | Planted Area Local Seed Used | Cost of Local Seeds | Number of Households NOT using Local Seeds | Planted Area Local Seed not Used | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Maize | 353 | 152 | 1,058,421 | 529 | 357 | 882 | 509 | 29.9 |
| Paddy | 176 | 143 | 5,292,107 | 0 | 0 | 176 | 143 | 100.0 |
| Sorghum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CEREALS** | | **295** | **6,350,528** | | **357** | **1,058** | **652** | **45.2** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Beans | 529 | 296 | 4,586,493 | 176 | 71 | 706 | 368 | 80.6 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **296** | **4,586,493** | | **71** | **706** | **368** | **80.6** |
| Sunflower | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Groundnut | 176 | 54 | 1,764,036 | 0 | 0 | 176 | 54 | 100.0 |
| **OIL SEEDS & OIL NUTS** | | **54** | **1,764,036** | | **0** | **176** | **54** | **100.0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Cabbage | 0 | 0 | 0 | 176 | 18 | 176 | 18 | 0.0 |
| Tomatoes | 0 | 0 | 0 | 353 | 89 | 353 | 89 | 0.0 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 176 | 36 | 176 | 36 | 0.0 |
| **FRUITS & VEGETABLES** | | **0** | **0** | | **143** | **706** | **143** | **0.0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 176 | 16 | 1,058,421 | 0 | 0 | 176 | 16 | 100.0 |
| **CASH CROPS** | | **16** | **1,058,421** | | **0** | **176** | **16** | **100.0** |
| **Total** | **1,411** | **661** | **13,759,478** | | **571** | **2,822** | **1,232** | **53.6** |

### 5.58 Planted Area & Number of Households by Local Seeds Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - SUMBAWANGA RURAL

| Crop | Local Seed | | | | | | | % of area planted using Local seed |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Local Seed | Planted Area Local Seed Used | Cost of Local Seeds | Number of Households NOT using Local Seeds | Planted Area Local Seed not Used | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Maize | 675 | 547 | 2,138,554 | 0 | 0 | 675 | 547 | 100.0 |
| Paddy | 225 | 365 | 1,125,555 | 0 | 0 | 225 | 365 | 100.0 |
| Sorghum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CEREALS** | | **911** | **3,264,109** | | **0** | **900** | **911** | **100.0** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Beans | 225 | 91 | 450,222 | 0 | 0 | 225 | 91 | 100.0 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **91** | **450,222** | | **0** | **225** | **91** | **100.0** |
| Sunflower | 225 | 91 | 450,222 | 0 | 0 | 225 | 91 | 100.0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Groundnut | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **91** | **450,222** | | **0** | **225** | **91** | **100.0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Cabbage | 0 | 0 | 0 | 225 | 9 | 225 | 9 | 0.0 |
| Tomatoes | 225 | 46 | 2,251,110 | 225 | 18 | 450 | 64 | 71.4 |
| Spinach | 0 | 0 | 0 | 225 | 18 | 225 | 18 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **FRUITS & VEGETABLES** | | **46** | **2,251,110** | | **46** | **900** | **91** | **50.0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CASH CROPS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| **Total** | **1,576** | **1,139** | **6,415,663** | | **46** | **2,251** | **1,185** | **96.2** |

### 5.59 Planted Area & Number of Households by Local Seeds Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - NKASI

| Crop | Local Seed | | | | | | | % of area planted using Local seed |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Local Seed | Planted Area Local Seed Used | Cost of Local Seeds | Number of Households NOT using Local Seeds | Planted Area Local Seed not Used | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Maize | 112 | 181 | 1,229,038 | 0 | 0 | 112 | 181 | 100.0 |
| Paddy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sorghum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 112 | 362 | 1,117,307 | 0 | 0 | 112 | 362 | 100.0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CEREALS** | | **543** | **2,346,345** | | **0** | **223** | **543** | **100.0** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Beans | 112 | 90 | 4,022,305 | 0 | 0 | 112 | 90 | 100.0 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **90** | **4,022,305** | | **0** | **112** | **90** | **100.0** |
| Sunflower | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Groundnut | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Cabbage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tomatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **FRUITS & VEGETABLES** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CASH CROPS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| **Total** | **335** | **633** | **6,368,650** | | **0** | **335** | **633** | **100.0** |

### 5.60 Planted Area & Number of Households by Local Seeds Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - SUMBAWANGA URBAN

| Crop | Local Seed | | | | | | | % of area planted using Local seed |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Local Seed | Planted Area Local Seed Used | Cost of Local Seeds | Number of Households NOT using Local Seeds | Planted Area Local Seed not Used | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Maize | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Paddy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sorghum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CEREALS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Beans | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Sunflower | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Groundnut | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Cabbage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tomatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **FRUITS & VEGETABLES** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CASH CROPS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| **Total** | **0** | **0** | **0** | | **0** | **0** | **0** | **0.0** |

### 5.61 Planted Area (ha) & Number of Households by Irrigation Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - MPANDA

| Crop | Irrigation use | | | | | | % of Planted area using Irrigation |
|---|---|---|---|---|---|---|---|
| | Number of Households using Irrigation | Planted Area Irrigated | Number of Households NOT using Irrigation | Planted Area Without Irrigation | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Maize | 0 | 0 | 882 | 509 | 882 | 509 | 0.0 |
| Paddy | 0 | 0 | 176 | 143 | 176 | 143 | 0.0 |
| Sorghum | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Finger Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **CEREALS** | | **0** | | **652** | | **652** | **0.0** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sweet Potato | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **ROOTS & TUBERS** | | **0** | | **0** | | **0** | **0** |
| Beans | 0 | 0 | 706 | 368 | 706 | 368 | 0.0 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **PULSES** | | **0** | | **368** | | **368** | **0.0** |
| Sunflower | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Groundnut | 0 | 0 | 176 | 54 | 176 | 54 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | | **54** | | **54** | **0.0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cabbage | 0 | 0 | 176 | 18 | 176 | 18 | 0.0 |
| Tomatoes | 0 | 0 | 353 | 89 | 353 | 89 | 0.0 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Amaranths | 0 | 0 | 176 | 36 | 176 | 36 | 0.0 |
| **FRUITS & VEGETABLES** | | **0** | | **143** | | **143** | **0.0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tobacco | 0 | 0 | 176 | 16 | 176 | 16 | 0.0 |
| **CASH CROPS** | | **0** | | **16** | | **16** | **0.0** |
| **Total** | | **0** | | **1,232** | | **1,232** | **0.0** |

## 5.62 Planted Area (ha) & Number of Households by Irrigation Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - SUMBAWANGA RURAL

| Crop | Irrigation use | | | | | | % of Planted area using Irrigation |
|---|---|---|---|---|---|---|---|
| | Number of Households using Irrigation | Planted Area Irrigated | Number of Households NOT using Irrigation | Planted Area Without Irrigation | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Maize | 0 | 0 | 675 | 547 | 675 | 547 | 0 |
| Paddy | 0 | 0 | 225 | 365 | 225 | 365 | 0 |
| Sorghum | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Finger Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **CEREALS** | | **0** | | **911** | | **911** | **0** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sweet Potato | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **ROOTS & TUBERS** | | **0** | | **0** | | **0** | **0** |
| Beans | 0 | 0 | 225 | 91 | 225 | 91 | 0 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **PULSES** | | **0** | | **91** | | **91** | **0** |
| Sunflower | 0 | 0 | 225 | 91 | 225 | 91 | 0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Groundnut | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **OIL SEEDS & OIL NUTS** | | **0** | | **91** | | **91** | **0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cabbage | 0 | 0 | 225 | 9 | 225 | 9 | 0 |
| Tomatoes | 225 | 46 | 225 | 18 | 450 | 64 | 71.4 |
| Spinach | 0 | 0 | 225 | 18 | 225 | 18 | 0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Amaranths | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **FRUITS & VEGETABLES** | | **46** | | **46** | | **91** | **50** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **CASH CROPS** | | **0** | | **0** | | **0** | **0** |
| **Total** | | **46** | | **1,139** | | **1,185** | **3.8** |

### 5.63 Planted Area (ha) & Number of Households by Irrigation Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - NKASI

| Crop | Irrigation use | | | | | | % of Planted area using Irrigation |
|---|---|---|---|---|---|---|---|
| | Number of Households using Irrigation | Planted Area Irrigated | Number of Households NOT using Irrigation | Planted Area Without Irrigation | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Maize | 0 | 0 | 112 | 181 | 112 | 181 | 0.0 |
| Paddy | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sorghum | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Finger Millet | 0 | 0 | 112 | 362 | 112 | 362 | 0.0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **CEREALS** | | **0** | | **543** | | **543** | **0.0** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sweet Potato | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **ROOTS & TUBERS** | | **0** | | **0** | | **0** | **0** |
| Beans | 0 | 0 | 112 | 90 | 112 | 90 | 0.0 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **PULSES** | | **0** | | **90** | | **90** | **0.0** |
| Sunflower | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Groundnut | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **OIL SEEDS & OIL NUTS** | | **0** | | **0** | | **0** | **0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cabbage | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tomatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Amaranths | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **FRUITS & VEGETABLES** | | **0** | | **0** | | **0** | **0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **CASH CROPS** | | **0** | | **0** | | **0** | **0** |
| **Total** | | **0** | | **633** | | **633** | **0.0** |

### 5.64 Planted Area (ha) & Number of Households by Irrigation Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - SUMBAWANGA URBAN

| Crop | Irrigation use | | | | | | % of Planted area using Irrigation |
|---|---|---|---|---|---|---|---|
| | Number of Households using Irrigation | Planted Area Irrigated | Number of Households NOT using Irrigation | Planted Area Without Irrigation | Total Number of Households Planting in VULI | Total Planted Area in VULI | |
| Maize | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Paddy | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sorghum | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Finger Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **CEREALS** | | **0** | | **0** | | **0** | **0** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sweet Potato | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **ROOTS & TUBERS** | | **0** | | **0** | | **0** | **0** |
| Beans | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **PULSES** | | **0** | | **0** | | **0** | **0** |
| Sunflower | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Groundnut | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **OIL SEEDS & OIL NUTS** | | **0** | | **0** | | **0** | **0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cabbage | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tomatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Amaranths | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **FRUITS & VEGETABLES** | | **0** | | **0** | | **0** | **0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **CASH CROPS** | | **0** | | **0** | | **0** | **0** |
| **Total** | | **0** | | **0** | | **0** | **0** |

## 5.65 Planted Area & Number of Households by Organic Fertiliser Use by Crop - LONG RAINY SEASON- MPANDA

| Crop | Fertilizer Use | | | | | | | % of area planted using Organic Fertilizer |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Organic Fertilizer | Planted Area Organic Fertilizer Used | Cost of Organic Fertilizer | Number of Households NOT using Organic Fertilizer | Planted Area Organic Fertilizer not Used | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Maize | 176 | 300 | 10,231,406 | 66,328 | 66,530 | 66,504 | 66,830 | 0.4 |
| Paddy | 0 | 0 | 0 | 12,348 | 15,837 | 12,348 | 15,837 | 0.0 |
| Sorghum | 0 | 0 | 0 | 2,117 | 2,214 | 2,117 | 2,214 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 706 | 250 | 706 | 250 | 0.0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CEREALS** | | **300** | **10,231,406** | | **84,831** | **81,675** | **85,131** | **0.4** |
| Cassava | 0 | 0 | 0 | 882 | 464 | 882 | 464 | 0.0 |
| Sweet Potato | 176 | 71 | 3,175,264 | 8,997 | 3,714 | 9,173 | 3,785 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 176 | 71 | 176 | 71 | 0.0 |
| **ROOTS & TUBERS** | | **71** | **3,175,264** | | **4,249** | **10,231** | **4,321** | **0.0** |
| Beans | 0 | 0 | 0 | 7,938 | 4,024 | 7,938 | 4,024 | 0.0 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **0** | **0** | | **4,024** | **7,938** | **4,024** | **0.0** |
| Sunflower | 0 | 0 | 0 | 2,822 | 1,768 | 2,822 | 1,768 | 0.0 |
| Simsim | 0 | 0 | 0 | 4,234 | 5,821 | 4,234 | 5,821 | 0.0 |
| Groundnut | 0 | 0 | 0 | 36,868 | 26,564 | 36,868 | 26,564 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **34,152** | **43,924** | **34,152** | **0.0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Cabbage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tomatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **FRUITS & VEGETABLES** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 176 | 286 | 158,763,204 | 10,761 | 9,088 | 10,937 | 9,374 | 3.0 |
| **CASH CROPS** | | **286** | **158,763,204** | | **9,088** | **10,937** | **9,374** | **3.0** |
| **Total** | **529** | **657** | **172,169,875** | | **136,345** | **154,706** | **137,002** | **0.5** |

## 5.66 Planted Area & Number of Households by Organic Fertiliser Use by Crop - LONG RAINY SEASON- SUMBAWANGA RURAL

| Crop | Fertilizer Use | | | | | | | % of area planted using Organic Fertilizer |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Organic Fertilizer | Planted Area Organic Fertilizer Used | Cost of Organic Fertilizer | Number of Households NOT using Organic Fertilizer | Planted Area Organic Fertilizer not Used | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Maize | 2,026 | 2,734 | 89,369,067 | 74,062 | 91,711 | 76,088 | 94,445 | 2.9 |
| Paddy | 0 | 0 | 0 | 16,208 | 25,358 | 16,208 | 25,358 | 0.0 |
| Sorghum | 0 | 0 | 0 | 5,403 | 6,107 | 5,403 | 6,107 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 5,853 | 4,516 | 5,853 | 4,516 | 0.0 |
| Wheat | 0 | 0 | 0 | 675 | 501 | 675 | 501 | 0.0 |
| **CEREALS** | | **2,734** | **89,369,067** | | **128,194** | **104,226** | **130,928** | **2.1** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 2,251 | 606 | 2,251 | 606 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 225 | 91 | 225 | 91 | 0.0 |
| Yams | 0 | 0 | 0 | 225 | 46 | 225 | 46 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **743** | **2,701** | **743** | **0.0** |
| Beans | 675 | 638 | 97,247,952 | 26,338 | 18,137 | 27,013 | 18,775 | 3.4 |
| Cowpeas | 0 | 0 | 0 | 2,026 | 207 | 2,026 | 207 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **638** | **97,247,952** | | **18,344** | **29,039** | **18,982** | **3.4** |
| Sunflower | 450 | 365 | 18,459,102 | 29,039 | 23,169 | 29,490 | 23,534 | 1.5 |
| Simsim | 0 | 0 | 0 | 450 | 820 | 450 | 820 | 0.0 |
| Groundnut | 0 | 0 | 0 | 15,308 | 4,902 | 15,308 | 4,902 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **365** | **18,459,102** | | **28,892** | **45,247** | **29,256** | **1.2** |
| Okra | 0 | 0 | 0 | 450 | 547 | 450 | 547 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 675 | 273 | 675 | 273 | 0.0 |
| Cabbage | 0 | 0 | 0 | 225 | 9 | 225 | 9 | 0.0 |
| Tomatoes | 0 | 0 | 0 | 1,351 | 292 | 1,351 | 292 | 0.0 |
| Spinach | 0 | 0 | 0 | 450 | 109 | 450 | 109 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 225 | 91 | 225 | 91 | 0.0 |
| **FRUITS & VEGETABLES** | | **0** | **0** | | **1,322** | **3,377** | **1,322** | **0.0** |
| Cotton | 0 | 0 | 0 | 675 | 365 | 675 | 365 | 0.0 |
| Tobacco | 0 | 0 | 0 | 225 | 182 | 225 | 182 | 0.0 |
| **CASH CROPS** | | **0** | **0** | | **547** | **900** | **547** | **0.0** |
| **Total** | **3,152** | **3,737** | **205,076,121** | | **178,041** | **185,491** | **181,778** | **2.1** |

### 5.67 Planted Area & Number of Households by Organic Fertiliser Use by Crop - LONG RAINY SEASON-NKASI

| Crop | Fertilizer Use | | | | | | | % of area planted using Organic Fertilizer |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Organic Fertilizer | Planted Area Organic Fertilizer Used | Cost of Organic Fertilizer | Number of Households NOT using Organic Fertilizer | Planted Area Organic Fertilizer not Used | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Maize | 1,229 | 1,620 | 41,055,444 | 33,184 | 44,684 | 34,413 | 46,304 | 3.5 |
| Paddy | 0 | 0 | 0 | 5,810 | 4,784 | 5,810 | 4,784 | 0.0 |
| Sorghum | 0 | 0 | 0 | 1,229 | 403 | 1,229 | 403 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 5,475 | 5,227 | 5,475 | 5,227 | 0.0 |
| Wheat | 0 | 0 | 0 | 335 | 226 | 335 | 226 | 0.0 |
| CEREALS | | 1,620 | 41,055,444 | | 55,323 | 47,262 | 56,943 | 2.8 |
| Cassava | 0 | 0 | 0 | 112 | 23 | 112 | 23 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 1,676 | 837 | 1,676 | 837 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| ROOTS & TUBERS | | 0 | 0 | | 859 | 1,788 | 859 | 0.0 |
| Beans | 223 | 34 | 1,229,038 | 14,972 | 10,926 | 15,195 | 10,960 | 0.3 |
| Cowpeas | 0 | 0 | 0 | 112 | 5 | 112 | 5 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| PULSES | | 34 | 1,229,038 | | 10,931 | 15,307 | 10,965 | 0.3 |
| Sunflower | 223 | 226 | 3,407,786 | 9,497 | 7,575 | 9,721 | 7,801 | 0.0 |
| Simsim | 0 | 0 | 0 | 112 | 6 | 112 | 6 | 0.0 |
| Groundnut | 0 | 0 | 0 | 8,045 | 2,321 | 8,045 | 2,321 | 0.0 |
| OIL SEEDS & OIL NUTS | | 226 | 3,407,786 | | 9,902 | 17,877 | 10,128 | 0.0 |
| Okra | 0 | 0 | 0 | 223 | 271 | 223 | 271 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 112 | 45 | 2,234,614 | 0 | 0 | 112 | 45 | 0.0 |
| Cabbage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tomatoes | 112 | 45 | 223,461 | 223 | 34 | 335 | 79 | 0.0 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 112 | 3 | 5,586,535 | 112 | 20 | 223 | 23 | 0.0 |
| FRUITS & VEGETABLES | | 93 | 8,044,610 | | 325 | 894 | 418 | 0.0 |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| CASH CROPS | | 0 | 0 | | 0 | 0 | 0 | 0.0 |
| Total | 2,011 | 1,973 | 53,736,878 | | 77,340 | 83,128 | 79,313 | 2.5 |

## 5.68 Planted Area & Number of Households by Organic Fertiliser Use by Crop - LONG RAINY SEASON- SUMBAWANGA URBAN

| Crop | Fertilizer Use | | | | | | | % of area planted using Organic Fertilizer |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Organic Fertilizer | Planted Area Organic Fertilizer Used | Cost of Organic Fertilizer | Number of Households NOT using Organic Fertilizer | Planted Area Organic Fertilizer not Used | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Maize | 5,374 | 4,068 | 102,934,098 | 14,378 | 12,648 | 0 | 0 | 0.0 |
| Paddy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sorghum | 0 | 0 | 0 | 283 | 60 | 283 | 60 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 47 | 5 | 47 | 5 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 1,179 | 644 | 1,179 | 644 | 0.0 |
| Wheat | 47 | 5 | 12,964,275 | 1,367 | 1,207 | 1,414 | 1,212 | 0.0 |
| **CEREALS** | | **4,073** | **115,898,373** | | **14,565** | **2,923** | **1,921** | **0.0** |
| Cassava | 0 | 0 | 0 | 47 | 57 | 47 | 57 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 613 | 210 | 613 | 210 | 0.0 |
| Irish potatoes | 330 | 55 | 938,122 | 1,084 | 276 | 1,414 | 331 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 47 | 9 | 47 | 9 | 0.0 |
| **ROOTS & TUBERS** | | **55** | **938,122** | | **552** | **2,121** | **607** | **0.0** |
| Beans | 943 | 442 | 6,514,995 | 9,428 | 3,395 | 10,371 | 3,837 | 0.0 |
| Cowpeas | 0 | 0 | 0 | 47 | 10 | 47 | 10 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 236 | 33 | 236 | 33 | 0.0 |
| Field Peas | 0 | 0 | 0 | 424 | 337 | 424 | 337 | 0.0 |
| **PULSES** | | **442** | **6,514,995** | | **3,775** | **11,078** | **4,217** | **0.0** |
| Sunflower | 236 | 143 | 3,582,776 | 6,081 | 3,438 | 6,317 | 3,581 | 0.0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Groundnut | 0 | 0 | 0 | 1,886 | 407 | 1,886 | 407 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **143** | **3,582,776** | | **3,845** | **8,203** | **3,988** | **0.0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bitteer Aubergine | 236 | 31 | 598,701 | 47 | 2 | 283 | 33 | 0.0 |
| Onion | 424 | 65 | 1,781,960 | 519 | 69 | 943 | 134 | 0.0 |
| Cabbage | 189 | 22 | 1,060,690 | 566 | 72 | 754 | 94 | 0.0 |
| Tomatoes | 801 | 137 | 14,684,668 | 896 | 130 | 1,697 | 267 | 0.0 |
| Spinach | 471 | 56 | 1,456,681 | 424 | 136 | 896 | 191 | 0.0 |
| Carrot | 0 | 0 | 0 | 189 | 29 | 189 | 29 | 0.0 |
| Chillies | 94 | 5 | 32,999 | 47 | 1 | 141 | 6 | 0.0 |
| Amaranths | 141 | 16 | 678,842 | 189 | 29 | 330 | 44 | 0.0 |
| **FRUITS & VEGETABLES** | | **331** | **20,294,540** | | **467** | **5,233** | **798** | **0.0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CASH CROPS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| **Total** | **9,287** | **5,043** | **147,228,806** | | **23,203** | **29,558** | **11,531** | **0.0** |

## 5.69 Planted Area & Number of Households by Organic Fertiliser Use by Crop - LONG RAINY SEASON- RUKWA REGION

| Crop | Fertilizer Use | | | | | | | % of area planted using Organic Fertilizer |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Organic Fertilizer | Planted Area Organic Fertilizer Used | Cost of Organic Fertilizer | Number of Households NOT using Organic Fertilizer | Planted Area Organic Fertilizer not Used | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Maize | 8,806 | 8,722 | 243,590,015 | 187,952 | 215,574 | 196,757 | 224,296 | 3.9 |
| Paddy | 0 | 0 | 0 | 34,366 | 45,979 | 34,366 | 45,979 | 0.0 |
| Sorghum | 0 | 0 | 0 | 9,031 | 8,784 | 9,031 | 8,784 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 47 | 5 | 47 | 5 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 13,212 | 10,637 | 13,212 | 10,637 | 0.0 |
| Wheat | 47 | 5 | 12,964,275 | 2,378 | 1,935 | 2,425 | 1,939 | 0.0 |
| **CEREALS** | | **8,727** | **256,554,290** | | **282,913** | **255,839** | **291,640** | **3.0** |
| Cassava | 0 | 0 | 0 | 1,041 | 544 | 1,041 | 544 | 0.0 |
| Sweet Potato | 176 | 71 | 3,175,264 | 13,536 | 5,366 | 13,713 | 5,438 | 0.0 |
| Irish potatoes | 330 | 55 | 938,122 | 1,309 | 367 | 1,639 | 422 | 0.0 |
| Yams | 0 | 0 | 0 | 225 | 46 | 225 | 46 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 224 | 81 | 224 | 81 | 0.0 |
| **ROOTS & TUBERS** | | **126** | **4,113,386** | | **6,404** | **16,842** | **6,530** | **0.0** |
| Beans | 1,842 | 1,113 | 104,991,985 | 58,676 | 36,483 | 60,518 | 37,596 | 3.0 |
| Cowpeas | 0 | 0 | 0 | 2,185 | 221 | 2,185 | 221 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 236 | 33 | 236 | 33 | 0.0 |
| Field Peas | 0 | 0 | 0 | 424 | 337 | 424 | 337 | 0.0 |
| **PULSES** | | **1,113** | **104,991,985** | | **37,074** | **63,363** | **38,188** | **2.9** |
| Sunflower | 909 | 734 | 25,449,664 | 47,440 | 35,949 | 48,350 | 36,683 | 2.0 |
| Simsim | 0 | 0 | 0 | 4,796 | 6,647 | 4,796 | 6,647 | 0.0 |
| Groundnut | 0 | 0 | 0 | 62,106 | 34,195 | 62,106 | 34,195 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **734** | **25,449,664** | | **76,791** | **115,251** | **77,525** | **0.0** |
| Okra | 0 | 0 | 0 | 674 | 818 | 674 | 818 | 0.0 |
| Bitteer Aubergine | 236 | 31 | 598,701 | 47 | 2 | 283 | 33 | 0.0 |
| Onion | 536 | 110 | 4,016,574 | 1,194 | 343 | 1,730 | 452 | 0.0 |
| Cabbage | 189 | 22 | 1,060,690 | 791 | 81 | 979 | 103 | 21.4 |
| Tomatoes | 913 | 183 | 14,908,129 | 2,470 | 455 | 3,383 | 638 | 28.6 |
| Spinach | 471 | 56 | 1,456,681 | 874 | 245 | 1,346 | 301 | 18.5 |
| Carrot | 0 | 0 | 0 | 189 | 29 | 189 | 29 | 0.0 |
| Chillies | 94 | 5 | 32,999 | 47 | 1 | 141 | 6 | 0.0 |
| Amaranths | 253 | 18 | 6,265,377 | 525 | 140 | 779 | 158 | 11.7 |
| **FRUITS & VEGETABLES** | | **425** | **28,339,151** | | **2,113** | **9,503** | **2,538** | **0.0** |
| Cotton | 0 | 0 | 0 | 675 | 365 | 675 | 365 | 0.0 |
| Tobacco | 176 | 286 | 158,763,204 | 10,986 | 9,270 | 11,162 | 9,556 | 3.0 |
| **CASH CROPS** | | **286** | **158,763,204** | | **9,635** | **11,837** | **9,920** | **0.0** |
| **Total** | **14,979** | **11,411** | **578,211,680** | | **414,929** | **472,635** | **426,340** | **2.7** |

## 5.70 Planted Area & Number of Households by Inorganic Fertiliser Use by Crop - LONG RAINY SEASON- MPANDA

| Crop | Fertilizer Use | | | | | | | % of area planted using Inorganic Fertilizer |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Inorganic Fertilizer | Planted Area Inorganic Fertilizer Used | Cost of Inorganic Fertilizer | Number of Households NOT using Inorganic Fertilizer | Planted Area Inorganic Fertilizer not Used | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Maize | 10,937 | 10,875 | 1,380,075,612 | 57,684 | 55,955 | 68,621 | 66,830 | 16.3 |
| Paddy | 0 | 0 | 0 | 12,348 | 15,837 | 12,348 | 15,837 | 0.0 |
| Sorghum | 0 | 0 | 0 | 2,117 | 2,214 | 2,117 | 2,214 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 706 | 250 | 706 | 250 | 0.0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CEREALS** | | **10,875** | **1,380,075,612** | | **74,256** | **83,792** | **85,131** | **12.8** |
| Cassava | 0 | 0 | 0 | 882 | 464 | 882 | 464 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 9,173 | 3,785 | 9,173 | 3,785 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 176 | 71 | 176 | 71 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **4,321** | **10,231** | **4,321** | **0.0** |
| Beans | 176 | 36 | 0 | 7,762 | 3,989 | 7,938 | 4,024 | 0.9 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **36** | **0** | | **3,989** | **7,938** | **4,024** | **0.9** |
| Sunflower | 0 | 0 | 0 | 2,822 | 1,768 | 2,822 | 1,768 | 0.0 |
| Simsim | 0 | 0 | 0 | 4,234 | 5,821 | 4,234 | 5,821 | 0.0 |
| Groundnut | 0 | 0 | 0 | 36,868 | 26,564 | 36,868 | 26,564 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **34,152** | **43,924** | **34,152** | **0.0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Cabbage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tomatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **FRUITS & VEGETABLES** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 9,702 | 7,927 | 4,137,527,685 | 2,470 | 1,446 | 12,172 | 9,374 | 84.6 |
| **CASH CROPS** | | **7,927** | **4,137,527,685** | | **1,446** | **12,172** | **9,374** | **84.6** |
| **Total** | **20,816** | **18,838** | **5,517,603,297** | | **118,164** | **158,058** | **137,002** | **13.8** |

## 5.71 Planted Area & Number of Households by Inorganic Fertiliser Use by Crop - LONG RAINY SEASON- SUMBAWANGA RURAL

| Crop | Fertilizer Use | | | | | | | % of area planted using Inorganic Fertilizer |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Inorganic Fertilizer | Planted Area Inorganic Fertilizer Used | Cost of Inorganic Fertilizer | Number of Households NOT using Inorganic Fertilizer | Planted Area Inorganic Fertilizer not Used | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Maize | 3,152 | 5,924 | 435,544,762 | 73,161 | 88,521 | 76,313 | 94,445 | 6.3 |
| Paddy | 0 | 0 | 0 | 16,208 | 25,358 | 16,208 | 25,358 | 0.0 |
| Sorghum | 0 | 0 | 0 | 5,403 | 6,107 | 5,403 | 6,107 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 5,853 | 4,516 | 5,853 | 4,516 | 0.0 |
| Wheat | 0 | 0 | 0 | 675 | 501 | 675 | 501 | 0.0 |
| **CEREALS** | | **5,924** | **435,544,762** | | **125,004** | **104,452** | **130,928** | **4.5** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 2,251 | 606 | 2,251 | 606 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 225 | 91 | 225 | 91 | 0.0 |
| Yams | 0 | 0 | 0 | 225 | 46 | 225 | 46 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **743** | **2,701** | **743** | **0.0** |
| Beans | 225 | 456 | 2,701,332 | 26,788 | 18,320 | 27,013 | 18,775 | 2.4 |
| Cowpeas | 0 | 0 | 0 | 2,026 | 207 | 2,026 | 207 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **456** | **2,701,332** | | **18,527** | **29,039** | **18,982** | **2.4** |
| Sunflower | 0 | 0 | 0 | 29,490 | 23,534 | 29,490 | 23,534 | 0.0 |
| Simsim | 0 | 0 | 0 | 450 | 820 | 450 | 820 | 0.0 |
| Groundnut | 0 | 0 | 0 | 15,308 | 4,902 | 15,308 | 4,902 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **29,256** | **45,247** | **29,256** | **0.0** |
| Okra | 0 | 0 | 0 | 450 | 547 | 450 | 547 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 675 | 273 | 675 | 273 | 0.0 |
| Cabbage | 0 | 0 | 0 | 225 | 9 | 225 | 9 | 0.0 |
| Tomatoes | 450 | 182 | 11,255,550 | 900 | 109 | 1,351 | 292 | 62.5 |
| Spinach | 0 | 0 | 0 | 450 | 109 | 450 | 109 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 225 | 91 | 225 | 91 | 0.0 |
| **FRUITS & VEGETABLES** | | **182** | **11,255,550** | | **1,139** | **3,377** | **1,322** | **13.8** |
| Cotton | 0 | 0 | 0 | 675 | 365 | 675 | 365 | 0.0 |
| Tobacco | 0 | 0 | 0 | 225 | 182 | 225 | 182 | 0.0 |
| **CASH CROPS** | | **0** | **0** | | **547** | **900** | **547** | **0.0** |
| **Total** | **3,827** | **6,562** | **449,501,644** | | **175,216** | **185,717** | **181,778** | **3.6** |

## 5.72 Planted Area & Number of Households by Inorganic Fertiliser Use by Crop - LONG RAINY SEASON-NKASI

| Crop | Fertilizer Use | | | | | | | % of area planted using Inorganic Fertilizer |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Inorganic Fertilizer | Planted Area Inorganic Fertilizer Used | Cost of Inorganic Fertilizer | Number of Households NOT using Inorganic Fertilizer | Planted Area Inorganic Fertilizer not Used | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Maize | 447 | 566 | 109,496,082 | 33,743 | 45,738 | 34,190 | 46,304 | 1.2 |
| Paddy | 0 | 0 | 0 | 5,810 | 4,784 | 5,810 | 4,784 | 0.0 |
| Sorghum | 0 | 0 | 0 | 1,229 | 403 | 1,229 | 403 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 5,475 | 5,227 | 5,475 | 5,227 | 0.0 |
| Wheat | 0 | 0 | 0 | 335 | 226 | 335 | 226 | 0.0 |
| **CEREALS** | | **566** | **109,496,082** | | **56,378** | **47,039** | **56,943** | **1.0** |
| Cassava | 0 | 0 | 0 | 112 | 23 | 112 | 23 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 1,676 | 837 | 1,676 | 837 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **859** | **1,788** | **859** | **0.0** |
| Beans | 0 | 0 | 0 | 15,084 | 10,960 | 15,084 | 10,960 | 0.0 |
| Cowpeas | 0 | 0 | 0 | 112 | 5 | 112 | 5 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **0** | **0** | | **10,965** | **15,195** | **10,965** | **0.0** |
| Sunflower | 0 | 0 | 0 | 9,609 | 7,801 | 9,609 | 7,801 | 0.0 |
| Simsim | 0 | 0 | 0 | 112 | 6 | 112 | 6 | 0.0 |
| Groundnut | 0 | 0 | 0 | 8,045 | 2,321 | 8,045 | 2,321 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **10,128** | **17,765** | **10,128** | **0.0** |
| Okra | 0 | 0 | 0 | 223 | 271 | 223 | 271 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 112 | 45 | 112 | 45 | 0.0 |
| Cabbage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tomatoes | 112 | 11 | 1,005,576 | 223 | 68 | 335 | 79 | 14.3 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 112 | 23 | 112 | 23 | 0.0 |
| **FRUITS & VEGETABLES** | | **11** | **1,005,576** | | **407** | **782** | **418** | **2.7** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CASH CROPS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| **Total** | **559** | **577** | **110,501,658** | | **78,736** | **82,569** | **79,313** | **0.7** |

### 5.73 Planted Area & Number of Households by Inorganic Fertiliser Use by Crop - LONG RAINY SEASON- SUMBAWANGA URBAN

| Crop | Fertilizer Use | | | | | | | % of area planted using Inorganic Fertilizer |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Inorganic Fertilizer | Planted Area Inorganic Fertilizer Used | Cost of Inorganic Fertilizer | Number of Households NOT using Inorganic Fertilizer | Planted Area Inorganic Fertilizer not Used | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Maize | 1,320 | 1,195 | 92,082,058 | 17,301 | 15,521 | 0 | 0 | 0.0 |
| Paddy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sorghum | 0 | 0 | 0 | 283 | 60 | 283 | 60 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 47 | 5 | 47 | 5 | 0.0 |
| Finger Millet | 47 | 19 | 542,131 | 1,131 | 625 | 1,179 | 644 | 3.0 |
| Wheat | 377 | 363 | 27,950,367 | 1,037 | 849 | 1,414 | 1,212 | 29.9 |
| **CEREALS** | | **1,577** | **120,574,556** | | **17,060** | **2,923** | **1,921** | **82.1** |
| Cassava | 0 | 0 | 0 | 47 | 57 | 47 | 57 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 613 | 210 | 613 | 210 | 0.0 |
| Irish potatoes | 47 | 10 | 4,007,052 | 1,226 | 321 | 1,273 | 331 | 2.9 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 47 | 9 | 47 | 9 | 0.0 |
| **ROOTS & TUBERS** | | **10** | **4,007,052** | | **597** | **1,980** | **607** | **1.6** |
| Beans | 47 | 19 | 1,178,545 | 10,277 | 3,818 | 10,324 | 3,837 | 0.5 |
| Cowpeas | 0 | 0 | 0 | 47 | 10 | 47 | 10 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 236 | 33 | 236 | 33 | 0.0 |
| Field Peas | 0 | 0 | 0 | 424 | 337 | 424 | 337 | 0.0 |
| **PULSES** | | **19** | **1,178,545** | | **4,198** | **11,031** | **4,217** | **0.5** |
| Sunflower | 0 | 0 | 0 | 6,317 | 3,581 | 6,317 | 3,581 | 0.0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Groundnut | 0 | 0 | 0 | 1,886 | 407 | 1,886 | 407 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **3,988** | **8,203** | **3,988** | **0.0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bitteer Aubergine | 47 | 2 | 424,276 | 236 | 31 | 283 | 33 | 5.8 |
| Onion | 47 | 2 | 848,552 | 896 | 131 | 943 | 134 | 1.9 |
| Cabbage | 236 | 33 | 4,195,619 | 519 | 60 | 754 | 94 | 35.7 |
| Tomatoes | 424 | 62 | 6,998,199 | 1,226 | 206 | 1,650 | 267 | 23.1 |
| Spinach | 94 | 26 | 282,851 | 801 | 165 | 896 | 191 | 13.6 |
| Carrot | 47 | 10 | 1,885,672 | 141 | 19 | 189 | 29 | 33.3 |
| Chillies | 0 | 0 | 0 | 141 | 6 | 141 | 6 | 0.0 |
| Amaranths | 47 | 5 | 1,697,104 | 283 | 40 | 330 | 44 | 10.8 |
| **FRUITS & VEGETABLES** | | **140** | **16,332,273** | | **658** | **5,186** | **798** | **17.5** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CASH CROPS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| **Total** | **2,781** | **1,745** | **142,092,426** | | **26,502** | **29,322** | **11,531** | **15.1** |

### 5.74 Planted Area & Number of Households by Insecticide use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - MPANDA

| Crop | Insecticide use | | | | | | | % of Planted area using Insecticide |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Insecticide | Planted Area Applied with Insecticide | Cost of Insecticide | Number of Households NOT using Insecticide | Planted Area Without Insecticide | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Maize | 353 | 179 | 8,820,178 | 66,328 | 66,651 | 66,681 | 66,830 | 0.3 |
| Paddy | 0 | 0 | 0 | 12,348 | 15,837 | 12,348 | 15,837 | 0.0 |
| Sorghum | 0 | 0 | 0 | 2,117 | 2,214 | 2,117 | 2,214 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 706 | 250 | 706 | 250 | 0.0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CEREALS** | | **179** | **8,820,178** | | **84,952** | | **85,131** | **0.2** |
| Cassava | 0 | 0 | 0 | 882 | 464 | 882 | 464 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 9,173 | 3,785 | 9,173 | 3,785 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 176 | 71 | 176 | 71 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **4,321** | **92,083** | **4,321** | **0.0** |
| Beans | 176 | 107 | 352,807 | 7,762 | 3,917 | 7,938 | 4,024 | 2.7 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **107** | **352,807** | | **3,917** | **7,938** | **4,024** | **2.7** |
| Sunflower | 0 | 0 | 0 | 2,822 | 1,768 | 2,822 | 1,768 | 0.0 |
| Simsim | 0 | 0 | 0 | 4,234 | 5,821 | 4,234 | 5,821 | 0.0 |
| Groundnut | 0 | 0 | 0 | 36,868 | 26,564 | 36,868 | 26,564 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **34,152** | | **34,152** | **0.0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Cabbage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tomatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **FRUITS & VEGETABLES** | | **0** | **0** | | **0** | | **0** | **0.0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 5,645 | 3,616 | 63,011,352 | 7,409 | 5,758 | 13,054 | 9,374 | 38.6 |
| **CASH CROPS** | | **3,616** | **63,011,352** | **7,409** | **5,758** | **13,054** | **9,374** | **38.6** |
| **Total** | **6,174** | **3,901** | **72,184,337** | **150,825** | **133,101** | **238,850** | **137,002** | **2.8** |

### 5.75 Planted Area & Number of Households by Insecticide use by Crop during 2007/08 agriculture year - LONG RAINY SEASON – SUMBAWANGA RURAL

| Crop | Insecticide use | | | | | | | % of Planted area using Insecticide |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Insecticide | Planted Area Applied with Insecticide | Cost of Insecticide | Number of Households NOT using Insecticide | Planted Area Without Insecticide | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Maize | 2,026 | 3,418 | 11,255,550 | 73,611 | 91,028 | 75,637 | 94,445 | 3.6 |
| Paddy | 0 | 0 | 0 | 16,208 | 25,358 | 16,208 | 25,358 | 0.0 |
| Sorghum | 0 | 0 | 0 | 5,403 | 6,107 | 5,403 | 6,107 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 5,853 | 4,516 | 5,853 | 4,516 | 0.0 |
| Wheat | 0 | 0 | 0 | 675 | 501 | 675 | 501 | 0.0 |
| **CEREALS** | | **3,418** | **11,255,550** | | **127,510** | | **130,928** | **2.6** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 2,251 | 606 | 2,251 | 606 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 225 | 91 | 225 | 91 | 0.0 |
| Yams | 0 | 0 | 0 | 225 | 46 | 225 | 46 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **743** | **106,478** | **743** | **0.0** |
| Beans | 2,251 | 2,187 | 42,816,112 | 24,987 | 16,588 | 27,238 | 18,775 | 11.6 |
| Cowpeas | 0 | 0 | 0 | 2,026 | 207 | 2,026 | 207 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **2,187** | **42,816,112** | | **16,795** | **29,264** | **18,982** | **11.5** |
| Sunflower | 225 | 11 | 0 | 29,490 | 23,522 | 29,715 | 23,534 | 0.0 |
| Simsim | 0 | 0 | 0 | 450 | 820 | 450 | 820 | 0.0 |
| Groundnut | 0 | 0 | 0 | 15,308 | 4,902 | 15,308 | 4,902 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **11** | **0** | | **29,245** | | **29,256** | **0.0** |
| Okra | 0 | 0 | 0 | 450 | 547 | 450 | 547 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 675 | 273 | 675 | 273 | 0.0 |
| Cabbage | 0 | 0 | 0 | 225 | 9 | 225 | 9 | 0.0 |
| Tomatoes | 450 | 64 | 3,601,776 | 900 | 228 | 1,351 | 292 | 21.9 |
| Spinach | 0 | 0 | 0 | 450 | 109 | 450 | 109 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 225 | 91 | 225 | 91 | 0.0 |
| **FRUITS & VEGETABLES** | | **64** | **3,601,776** | | **1,258** | | **1,322** | **4.8** |
| Cotton | 0 | 0 | 0 | 675 | 365 | 675 | 365 | 0.0 |
| Tobacco | 0 | 0 | 0 | 225 | 182 | 225 | 182 | 0.0 |
| **CASH CROPS** | | **0** | **0** | **900** | **547** | **900** | **547** | **0.0** |
| **Total** | **4,952** | **5,680** | **57,673,438** | **180,539** | **176,097** | **289,268** | **181,778** | **3.1** |

### 5.76 Planted Area & Number of Households by Insecticide use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - NKASI

| Crop | Insecticide use | | | | | | | % of Planted area using Insecticide |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Insecticide | Planted Area Applied with Insecticide | Cost of Insecticide | Number of Households NOT using Insecticide | Planted Area Without Insecticide | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Maize | 223 | 204 | 1,117,307 | 33,743 | 46,100 | 33,966 | 46,304 | 0.4 |
| Paddy | 0 | 0 | 0 | 5,810 | 4,784 | 5,810 | 4,784 | 0.0 |
| Sorghum | 0 | 0 | 0 | 1,229 | 403 | 1,229 | 403 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 5,475 | 5,227 | 5,475 | 5,227 | 0.0 |
| Wheat | 0 | 0 | 0 | 335 | 226 | 335 | 226 | 0.0 |
| **CEREALS** | | **204** | **1,117,307** | | **56,740** | | **56,943** | **0.4** |
| Cassava | 0 | 0 | 0 | 112 | 23 | 112 | 23 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 1,676 | 837 | 1,676 | 837 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **859** | **48,603** | **859** | **0.0** |
| Beans | 112 | 68 | 670,384 | 14,972 | 10,892 | 15,084 | 10,960 | 0.6 |
| Cowpeas | 0 | 0 | 0 | 112 | 5 | 112 | 5 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **68** | **670,384** | | **10,897** | **15,195** | **10,965** | **0.6** |
| Sunflower | 0 | 0 | 0 | 9,609 | 7,801 | 9,609 | 7,801 | 0.0 |
| Simsim | 0 | 0 | 0 | 112 | 6 | 112 | 6 | 0.0 |
| Groundnut | 0 | 0 | 0 | 8,045 | 2,321 | 8,045 | 2,321 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **10,128** | | **10,128** | **0.0** |
| Okra | 0 | 0 | 0 | 223 | 271 | 223 | 271 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 112 | 45 | 112 | 45 | 0.0 |
| Cabbage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tomatoes | 223 | 68 | 5,027,881 | 112 | 11 | 335 | 79 | 85.7 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 112 | 23 | 112 | 23 | 0.0 |
| **FRUITS & VEGETABLES** | | **68** | **5,027,881** | | **351** | | **418** | **16.2** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CASH CROPS** | | **0** | **0** | **0** | **0** | **0** | **0** | **0.0** |
| **Total** | **559** | **339** | **6,815,572** | **81,787** | **78,974** | **129,161** | **79,313** | **0.4** |

### 5.77 Planted Area & Number of Households by Insecticide use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - SUMBAWANGA URBAN

| Crop | Insecticide use | | | | | | | % of Planted area using Insecticide |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Insecticide | Planted Area Applied with Insecticide | Cost of Insecticide | Number of Households NOT using Insecticide | Planted Area Without Insecticide | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Maize | 7,496 | 6,151 | 31,665,612 | 12,068 | 10,565 | 19,564 | 16,716 | 36.8 |
| Paddy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sorghum | 0 | 0 | 0 | 283 | 60 | 283 | 60 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 47 | 5 | 47 | 5 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 1,179 | 644 | 1,179 | 644 | 0.0 |
| Wheat | 0 | 0 | 0 | 1,367 | 1,212 | 1,367 | 1,212 | 0.0 |
| **CEREALS** | | **6,151** | **31,665,612** | | **12,486** | | **18,637** | **33.0** |
| Cassava | 0 | 0 | 0 | 47 | 57 | 47 | 57 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 613 | 210 | 613 | 210 | 0.0 |
| Irish potatoes | 47 | 19 | 188,567 | 1,226 | 312 | 1,273 | 331 | 5.8 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 47 | 9 | 47 | 9 | 0.0 |
| **ROOTS & TUBERS** | | **19** | **188,567** | | **588** | **24,419** | **607** | **3.1** |
| Beans | 424 | 128 | 751,912 | 9,994 | 3,708 | 10,418 | 3,837 | 3.3 |
| Cowpeas | 0 | 0 | 0 | 47 | 10 | 47 | 10 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 236 | 33 | 236 | 33 | 0.0 |
| Field Peas | 0 | 0 | 0 | 424 | 337 | 424 | 337 | 0.0 |
| **PULSES** | | **128** | **751,912** | | **4,088** | **11,125** | **4,217** | **3.0** |
| Sunflower | 47 | 57 | 872,123 | 6,270 | 3,524 | 6,317 | 3,581 | 1.6 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Groundnut | 0 | 0 | 0 | 1,886 | 407 | 1,886 | 407 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **57** | **872,123** | | **3,931** | | **3,988** | **1.4** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 283 | 33 | 283 | 33 | 0.0 |
| Onion | 471 | 67 | 2,121,381 | 519 | 66 | 990 | 134 | 50.4 |
| Cabbage | 236 | 33 | 518,560 | 519 | 60 | 754 | 94 | 35.7 |
| Tomatoes | 754 | 116 | 5,195,025 | 896 | 151 | 1,650 | 267 | 43.4 |
| Spinach | 141 | 16 | 235,709 | 801 | 175 | 943 | 191 | 8.6 |
| Carrot | 0 | 0 | 0 | 189 | 29 | 189 | 29 | 0.0 |
| Chillies | 47 | 1 | 94,284 | 94 | 5 | 141 | 6 | 15.2 |
| Amaranths | 0 | 0 | 0 | 330 | 44 | 330 | 44 | 0.0 |
| **FRUITS & VEGETABLES** | | **234** | **8,164,958** | | **564** | | **798** | **29.3** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CASH CROPS** | | **0** | **0** | **0** | **0** | **0** | **0** | **0.0** |
| **Total** | **9,664** | **6,590** | **41,643,171** | **39,363** | **21,657** | **71,467** | **28,247** | **23.3** |

### 5.78 Planted Area & Number of Households by Fungicide Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - MPANDA

| Crop | Fungicide Use | | | | | | | % of Planted area using Fungicide |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Fungicide | Planted Area Fungicide Used | Cost of Fungicides | Number of Households NOT using Fungicide | Planted Area Fungicide not Used | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Maize | 0 | 0 | 0 | 66,504 | 66,830 | 66,504 | 66,830 | 0.0 |
| Paddy | 176 | 107 | 0 | 12,348 | 15,730 | 12,525 | 15,837 | 0.7 |
| Sorghum | 0 | 0 | 0 | 2,117 | 2,214 | 2,117 | 2,214 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 706 | 250 | 706 | 250 | 0.0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CEREALS** | | **107** | **0** | | **85,024** | | **85,131** | **0.1** |
| Cassava | 0 | 0 | 0 | 882 | 464 | 882 | 464 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 9,173 | 3,785 | 9,173 | 3,785 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 176 | 71 | 176 | 71 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **4,321** | | **4,321** | **0.0** |
| Beans | 0 | 0 | 0 | 7,938 | 4,024 | 7,938 | 4,024 | 0.0 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **0** | **0** | | **4,024** | | **4,024** | **0.0** |
| Sunflower | 0 | 0 | 0 | 2,822 | 1,768 | 2,822 | 1,768 | 0.0 |
| Simsim | 0 | 0 | 0 | 4,234 | 5,821 | 4,234 | 5,821 | 0.0 |
| Groundnut | 0 | 0 | 0 | 36,868 | 26,564 | 36,868 | 26,564 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **34,152** | | **34,152** | **0.0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Cabbage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tomatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **FRUITS & VEGETABLES** | | **0** | **0** | | **0** | | **0** | **0.0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 1,940 | 1,089 | 7,867,599 | 10,055 | 8,285 | 11,995 | 9,374 | 11.6 |
| **CASH CROPS** | | **1,089** | **7,867,599** | | **8,285** | | **9,374** | **11.6** |
| **Total** | **2,117** | **1,196** | **7,867,599** | **153,824** | **135,806** | **155,941** | **137,002** | **0.9** |

### 5.79 Planted Area & Number of Households by Fungicide Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON – SUMBAWANGA RURAL

| Crop | Fungicide Use | | | | | | | % of Planted area using Fungicide |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Fungicide | Planted Area Fungicide Used | Cost of Fungicides | Number of Households NOT using Fungicide | Planted Area Fungicide not Used | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Maize | 450 | 1,549 | 9,139,507 | 74,962 | 92,896 | 75,412 | 94,445 | 1.6 |
| Paddy | 0 | 0 | 0 | 16,208 | 25,358 | 16,208 | 25,358 | 0.0 |
| Sorghum | 0 | 0 | 0 | 5,403 | 6,107 | 5,403 | 6,107 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 5,853 | 4,516 | 5,853 | 4,516 | 0.0 |
| Wheat | 0 | 0 | 0 | 675 | 501 | 675 | 501 | 0.0 |
| **CEREALS** | | **1,549** | **9,139,507** | | **129,379** | | **130,928** | **1.2** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 2,251 | 606 | 2,251 | 606 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 225 | 91 | 225 | 91 | 0.0 |
| Yams | 0 | 0 | 0 | 225 | 46 | 225 | 46 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **743** | | **743** | **0.0** |
| Beans | 225 | 46 | 2,251,110 | 27,013 | 18,730 | 27,238 | 18,775 | 0.2 |
| Cowpeas | 0 | 0 | 0 | 2,026 | 207 | 2,026 | 207 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **46** | **2,251,110** | | **18,937** | | **18,982** | **0.2** |
| Sunflower | 0 | 0 | 0 | 29,490 | 23,534 | 29,490 | 23,534 | 0.0 |
| Simsim | 0 | 0 | 0 | 450 | 820 | 450 | 820 | 0.0 |
| Groundnut | 450 | 342 | 0 | 15,308 | 4,561 | 15,758 | 4,902 | 7.0 |
| **OIL SEEDS & OIL NUTS** | | **342** | **0** | | **28,914** | | **29,256** | **1.2** |
| Okra | 0 | 0 | 0 | 450 | 547 | 450 | 547 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 450 | 182 | 5,627,775 | 225 | 91 | 675 | 273 | 66.7 |
| Cabbage | 0 | 0 | 0 | 225 | 9 | 225 | 9 | 0.0 |
| Tomatoes | 675 | 155 | 7,203,552 | 675 | 137 | 1,351 | 292 | 53.1 |
| Spinach | 0 | 0 | 0 | 450 | 109 | 450 | 109 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 225 | 91 | 225 | 91 | 0.0 |
| **FRUITS & VEGETABLES** | | **337** | **12,831,327** | | **984** | | **1,322** | **25.5** |
| Cotton | 0 | 0 | 0 | 675 | 365 | 675 | 365 | 0.0 |
| Tobacco | 0 | 0 | 0 | 225 | 182 | 225 | 182 | 0.0 |
| **CASH CROPS** | | **0** | **0** | | **547** | | **547** | **0.0** |
| **Total** | **2,251** | **2,274** | **24,221,944** | **183,240** | **179,504** | **185,491** | **181,778** | **1.3** |

### 5.80 Planted Area & Number of Households by Fungicide Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - NKASI

| Crop | Fungicide Use | | | | | | | % of Planted area using Fungicide |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Fungicide | Planted Area Fungicide Used | Cost of Fungicides | Number of Households NOT using Fungicide | Planted Area Fungicide not Used | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Maize | 0 | 0 | 0 | 33,854 | 46,304 | 33,854 | 46,304 | 0.0 |
| Paddy | 0 | 0 | 0 | 5,810 | 4,784 | 5,810 | 4,784 | 0.0 |
| Sorghum | 0 | 0 | 0 | 1,229 | 403 | 1,229 | 403 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 5,475 | 5,227 | 5,475 | 5,227 | 0.0 |
| Wheat | 0 | 0 | 0 | 335 | 226 | 335 | 226 | 0.0 |
| **CEREALS** | | **0** | **0** | | **56,943** | | **56,943** | **0.0** |
| Cassava | 0 | 0 | 0 | 112 | 23 | 112 | 23 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 1,676 | 837 | 1,676 | 837 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **859** | | **859** | **0.0** |
| Beans | 0 | 0 | 0 | 15,084 | 10,960 | 15,084 | 10,960 | 0.0 |
| Cowpeas | 0 | 0 | 0 | 112 | 5 | 112 | 5 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **0** | **0** | | **10,965** | | **10,965** | **0.0** |
| Sunflower | 0 | 0 | 0 | 9,609 | 7,801 | 9,609 | 7,801 | 0.0 |
| Simsim | 0 | 0 | 0 | 112 | 6 | 112 | 6 | 0.0 |
| Groundnut | 0 | 0 | 0 | 8,045 | 2,321 | 8,045 | 2,321 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **10,128** | | **10,128** | **0.0** |
| Okra | 0 | 0 | 0 | 223 | 271 | 223 | 271 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 112 | 45 | 3,351,921 | 0 | 0 | 112 | 45 | 100.0 |
| Cabbage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tomatoes | 223 | 68 | 5,586,535 | 112 | 11 | 335 | 79 | 85.7 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 112 | 23 | 112 | 23 | 0.0 |
| **FRUITS & VEGETABLES** | | **113** | **8,938,456** | | **305** | | **418** | **27.0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CASH CROPS** | | **0** | **0** | | **0** | | **0** | **0.0** |
| **Total** | **335** | **113** | **8,938,456** | **81,899** | **79,200** | **82,234** | **79,313** | **0.1** |

### 5.81 Planted Area & Number of Households by Fungicide Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - SUMBAWANGA URBAN

| Crop | Fungicide Use | | | | | | | % of Planted area using Fungicide |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Fungicide | Planted Area Fungicide Used | Cost of Fungicides | Number of Households NOT using Fungicide | Planted Area Fungicide not Used | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Maize | 0 | 0 | 0 | 18,244 | 16,716 | 18,244 | 16,716 | 0.0 |
| Paddy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sorghum | 0 | 0 | 0 | 283 | 60 | 283 | 60 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 47 | 5 | 47 | 5 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 1,179 | 644 | 1,179 | 644 | 0.0 |
| Wheat | 0 | 0 | 0 | 1,367 | 1,212 | 1,367 | 1,212 | 0.0 |
| **CEREALS** | | **0** | **0** | | **18,637** | | **18,637** | **0.0** |
| Cassava | 0 | 0 | 0 | 47 | 57 | 47 | 57 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 613 | 210 | 613 | 210 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 1,273 | 331 | 1,273 | 331 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 47 | 9 | 47 | 9 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **607** | | **607** | **0.0** |
| Beans | 47 | 28 | 235,709 | 10,277 | 3,808 | 10,324 | 3,837 | 0.7 |
| Cowpeas | 0 | 0 | 0 | 47 | 10 | 47 | 10 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 236 | 33 | 236 | 33 | 0.0 |
| Field Peas | 47 | 9 | 0 | 377 | 328 | 424 | 337 | 2.8 |
| **PULSES** | | **38** | **235,709** | | **4,179** | | **4,217** | **0.9** |
| Sunflower | 47 | 32 | 0 | 6,270 | 3,549 | 6,317 | 3,581 | 0.9 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Groundnut | 0 | 0 | 0 | 1,886 | 407 | 1,886 | 407 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **32** | **0** | | **3,956** | | **3,988** | **0.8** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 283 | 33 | 283 | 33 | 0.0 |
| Onion | 236 | 38 | 542,131 | 707 | 96 | 943 | 134 | 28.5 |
| Cabbage | 0 | 0 | 0 | 754 | 94 | 754 | 94 | 0.0 |
| Tomatoes | 707 | 128 | 8,410,095 | 943 | 140 | 1,650 | 267 | 47.8 |
| Spinach | 47 | 5 | 0 | 849 | 186 | 896 | 191 | 2.5 |
| Carrot | 47 | 10 | 94,284 | 141 | 19 | 189 | 29 | 33.3 |
| Chilies | 47 | 1 | 471,418 | 94 | 5 | 141 | 6 | 15.2 |
| Amaranths | 47 | 5 | 94,284 | 283 | 40 | 330 | 44 | 10.8 |
| **FRUITS & VEGETABLES** | | **186** | **9,612,211** | | **612** | | **798** | **23.3** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CASH CROPS** | | **0** | **0** | | **0** | | **0** | **0.0** |
| **Total** | **1,273** | **256** | **9,847,920** | **46,246** | **27,991** | **47,519** | **28,247** | **0.9** |

### 5.82 Planted Area & Number of Households by Herbicide Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - MPANDA

| Crops | Herbicide Use | | | | | | | % of Planted area using Herbicide |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Herbicide | Planted Area Herbicide Used | Cost of Herbicides | Number of Households NOT using Herbicide | Planted Area Herbicide not Used | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Maize | 0 | 0 | 0 | 66,504 | 66,830 | 66,504 | 66,830 | 0.0 |
| Paddy | 176 | 107 | 0 | 12,348 | 15,730 | 12,525 | 15,837 | 0.7 |
| Sorghum | 0 | 0 | 0 | 2,117 | 2,214 | 2,117 | 2,214 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 706 | 250 | 706 | 250 | 0.0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CEREALS** | | **107** | **0** | | **85,024** | | **85,131** | **0.1** |
| Cassava | 0 | 0 | 0 | 882 | 464 | 882 | 464 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 9,173 | 3,785 | 9,173 | 3,785 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 176 | 71 | 176 | 71 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **4,321** | | **4,321** | **0.0** |
| Beans | 0 | 0 | 0 | 7,938 | 4,024 | 7,938 | 4,024 | 0.0 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **0** | **0** | | **4,024** | | **4,024** | **0.0** |
| Sunflower | 0 | 0 | 0 | 2,822 | 1,768 | 2,822 | 1,768 | 0.0 |
| Simsim | 0 | 0 | 0 | 4,234 | 5,821 | 4,234 | 5,821 | 0.0 |
| Groundnut | 0 | 0 | 0 | 36,868 | 26,564 | 36,868 | 26,564 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **34,152** | | **34,152** | **0.0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Cabbage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tomatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **FRUITS & VEGETABLES** | | **0** | **0** | | **0** | | **0** | **0.0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 1,940 | 1,089 | 7,867,599 | 10,055 | 8,285 | 11,995 | 9,374 | 11.6 |
| **CASH CROPS** | | **1,089** | **7,867,599** | | **8,285** | | **9,374** | **11.6** |
| **Total** | **2,117** | **1,196** | **7,867,599** | **153,824** | **135,806** | **155,941** | **137,002** | **0.9** |

### 5.83 Planted Area & Number of Households by Herbicide Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON – SUMBAWANGA RURAL

| Crops | Herbicide Use | | | | | | | % of Planted area using Herbicide |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Herbicide | Planted Area Herbicide Used | Cost of Herbicides | Number of Households NOT using Herbicide | Planted Area Herbicide not Used | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Maize | 0 | 0 | 0 | 75,412 | 94,445 | 75,412 | 94,445 | 0.0 |
| Paddy | 0 | 0 | 0 | 16,208 | 25,358 | 16,208 | 25,358 | 0.0 |
| Sorghum | 0 | 0 | 0 | 5,403 | 6,107 | 5,403 | 6,107 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 5,853 | 4,516 | 5,853 | 4,516 | 0.0 |
| Wheat | 0 | 0 | 0 | 675 | 501 | 675 | 501 | 0.0 |
| **CEREALS** | | **0** | **0** | | **130,928** | | **130,928** | **0.0** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 2,251 | 606 | 2,251 | 606 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 225 | 91 | 225 | 91 | 0.0 |
| Yams | 0 | 0 | 0 | 225 | 46 | 225 | 46 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **743** | | **743** | **0.0** |
| Beans | 0 | 0 | 0 | 27,013 | 18,775 | 27,013 | 18,775 | 0.0 |
| Cowpeas | 0 | 0 | 0 | 2,026 | 207 | 2,026 | 207 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **0** | **0** | | **18,982** | | **18,982** | **0.0** |
| Sunflower | 0 | 0 | 0 | 29,490 | 23,534 | 29,490 | 23,534 | 0.0 |
| Simsim | 0 | 0 | 0 | 450 | 820 | 450 | 820 | 0.0 |
| Groundnut | 0 | 0 | 0 | 15,308 | 4,902 | 15,308 | 4,902 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **29,256** | | **29,256** | **0.0** |
| Okra | 0 | 0 | 0 | 450 | 547 | 450 | 547 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 675 | 273 | 675 | 273 | 0.0 |
| Cabbage | 0 | 0 | 0 | 225 | 9 | 225 | 9 | 0.0 |
| Tomatoes | 0 | 0 | 0 | 1,351 | 292 | 1,351 | 292 | 0.0 |
| Spinach | 0 | 0 | 0 | 450 | 109 | 450 | 109 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 225 | 91 | 225 | 91 | 0.0 |
| **FRUITS & VEGETABLES** | | **0** | **0** | | **1,322** | | **1,322** | **0.0** |
| Cotton | 0 | 0 | 0 | 675 | 365 | 675 | 365 | 0.0 |
| Tobacco | 0 | 0 | 0 | 225 | 182 | 225 | 182 | 0.0 |
| **CASH CROPS** | | **0** | **0** | | **547** | | **547** | **0.0** |
| **Total** | **0** | **0** | **0** | **184,816** | **181,778** | **184,816** | **181,778** | **0.0** |

### 5.84 Planted Area & Number of Households by Herbicide Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - NKASI

| Crops | Herbicide Use | | | | | | | % of Planted area using Herbicide |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Herbicide | Planted Area Herbicide Used | Cost of Herbicides | Number of Households NOT using Herbicide | Planted Area Herbicide not Used | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Maize | 223 | 229 | 3,351,921 | 33,743 | 46,075 | 33,854 | 46,304 | 0.5 |
| Paddy | 0 | 0 | 0 | 5,810 | 4,784 | 5,810 | 4,784 | 0.0 |
| Sorghum | 0 | 0 | 0 | 1,229 | 403 | 1,229 | 403 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 5,475 | 5,227 | 5,475 | 5,227 | 0.0 |
| Wheat | 0 | 0 | 0 | 335 | 226 | 335 | 226 | 0.0 |
| **CEREALS** | | **229** | **3,351,921** | | **56,714** | | **56,943** | **0.4** |
| Cassava | 0 | 0 | 0 | 112 | 23 | 112 | 23 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 1,676 | 837 | 1,676 | 837 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **859** | | **859** | **0.0** |
| Beans | 0 | 0 | 0 | 15,084 | 10,960 | 15,084 | 10,960 | 0.0 |
| Cowpeas | 0 | 0 | 0 | 112 | 5 | 112 | 5 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **0** | **0** | | **10,965** | | **10,965** | **0.0** |
| Sunflower | 0 | 0 | 0 | 9,609 | 7,801 | 9,609 | 7,801 | 0.0 |
| Simsim | 0 | 0 | 0 | 112 | 6 | 112 | 6 | 0.0 |
| Groundnut | 0 | 0 | 0 | 8,045 | 2,321 | 8,045 | 2,321 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **10,128** | | **10,128** | **0.0** |
| Okra | 0 | 0 | 0 | 223 | 271 | 223 | 271 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 112 | 45 | 112 | 45 | 0.0 |
| Cabbage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tomatoes | 112 | 11 | 223,461 | 223 | 68 | 335 | 79 | 14.3 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 112 | 23 | 112 | 23 | 0.0 |
| **FRUITS & VEGETABLES** | | **11** | **223,461** | | **407** | | **418** | **2.7** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CASH CROPS** | | **0** | **0** | | **0** | | **0** | **0.0** |
| **Total** | **335** | **240** | **3,575,382** | **82,010** | **79,073** | **82,234** | **79,313** | **0.3** |

### 5.85 Planted Area & Number of Households by Herbicide Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - SUMBAWANGA URBAN

| Crops | Herbicide Use | | | | | | | % of Planted area using Herbicide |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Herbicide | Planted Area Herbicide Used | Cost of Herbicides | Number of Households NOT using Herbicide | Planted Area Herbicide not Used | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Maize | 47 | 48 | 1,414,254 | 18,244 | 16,669 | 18,244 | 16,716 | 0.3 |
| Paddy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sorghum | 0 | 0 | 0 | 283 | 60 | 283 | 60 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 47 | 5 | 47 | 5 | 0.0 |
| Finger Millet | 0 | 0 | 0 | 1,179 | 644 | 1,179 | 644 | 0.0 |
| Wheat | 0 | 0 | 0 | 1,367 | 1,212 | 1,367 | 1,212 | 0.0 |
| **CEREALS** | | **48** | **1,414,254** | | **18,590** | | **18,637** | **0.3** |
| Cassava | 0 | 0 | 0 | 47 | 57 | 47 | 57 | 0.0 |
| Sweet Potato | 0 | 0 | 0 | 613 | 210 | 613 | 210 | 0.0 |
| Irish potatoes | 0 | 0 | 0 | 1,273 | 331 | 1,273 | 331 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 47 | 9 | 47 | 9 | 0.0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **607** | | **607** | **0.0** |
| Beans | 0 | 0 | 0 | 10,324 | 3,837 | 10,324 | 3,837 | 0.0 |
| Cowpeas | 0 | 0 | 0 | 47 | 10 | 47 | 10 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 236 | 33 | 236 | 33 | 0.0 |
| Field Peas | 0 | 0 | 0 | 424 | 337 | 424 | 337 | 0.0 |
| **PULSES** | | **0** | **0** | | **4,217** | | **4,217** | **0.0** |
| Sunflower | 0 | 0 | 0 | 6,317 | 3,581 | 6,317 | 3,581 | 0.0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Groundnut | 0 | 0 | 0 | 1,886 | 407 | 1,886 | 407 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | **0** | | **3,988** | | **3,988** | **0.0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 283 | 33 | 283 | 33 | 0.0 |
| Onion | 94 | 12 | 212,138 | 849 | 121 | 943 | 134 | 9.3 |
| Cabbage | 94 | 8 | 164,996 | 660 | 86 | 754 | 94 | 8.2 |
| Tomatoes | 47 | 5 | 28,285 | 1,603 | 262 | 1,650 | 267 | 1.8 |
| Spinach | 94 | 10 | 47,142 | 801 | 182 | 896 | 191 | 5.0 |
| Carrot | 0 | 0 | 0 | 189 | 29 | 189 | 29 | 0.0 |
| Chillies | 0 | 0 | 0 | 141 | 6 | 141 | 6 | 0.0 |
| Amaranths | 0 | 0 | 0 | 330 | 44 | 330 | 44 | 0.0 |
| **FRUITS & VEGETABLES** | | **34** | **452,561** | | **763** | | **798** | **4.3** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CASH CROPS** | | **0** | **0** | | **0** | | **0** | **0.0** |
| **Total** | **377** | **82** | **1,866,815** | **47,189** | **28,165** | **47,519** | **28,247** | **0.3** |

## 5.86 Planted Area & Number of Households by Improved Seeds Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - MPANDA

| Crop | Improved Seed | | | | | | | % of area planted using improved seed |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Improved Seed | Planted Area Improved Seed Used | Cost of Improved Seeds | Number of Households NOT using Improved Seeds | Planted Area Improved Seed not Used | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Maize | 9,173 | 8,108 | 200,768,420 | 57,331 | 58,722 | 66,504 | 66,830 | 12.13 |
| Paddy | 176 | 143 | 705,614 | 12,172 | 15,694 | 12,348 | 15,837 | 0.90 |
| Sorghum | 0 | 0 | 0 | 2,117 | 2,214 | 2,117 | 2,214 | 0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Finger Millet | 0 | 0 | 0 | 706 | 250 | 706 | 250 | 0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **CEREALS** | | **8,251** | **201,474,034** | | **76,880** | | **85,131** | **9.69** |
| Cassava | 0 | 0 | 0 | 882 | 464 | 882 | 464 | 0 |
| Sweet Potato | 0 | 0 | 0 | 9,173 | 3,785 | 9,173 | 3,785 | 0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Coco Yam | 0 | 0 | 0 | 176 | 71 | 176 | 71 | 0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **4,321** | | **4,321** | **0** |
| Beans | 0 | 0 | 0 | 7,938 | 4,024 | 7,938 | 4,024 | 0.00 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **PULSES** | | **0** | **0** | | **4,024** | **7,938** | **4,024** | **0.00** |
| Sunflower | 353 | 464 | 6,967,941 | 2,470 | 1,303 | 2,822 | 1,768 | 26 |
| Simsim | 0 | 0 | 0 | 4,234 | 5,821 | 4,234 | 5,821 | 0 |
| Groundnut | 882 | 1,250 | 35,809,923 | 35,986 | 25,314 | 36,868 | 26,564 | 4.70 |
| **OIL SEEDS & OIL NUTS** | | **1,714** | **42,777,863** | | **32,438** | | **34,152** | **5.02** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cabbage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| Tomatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Amaranths | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| **FRUITS & VEGETABLES** | | **0** | **0** | | **0** | | 0 | **0.00** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tobacco | 9,173 | 7,463 | 744,728,907 | 1,764 | 1,910 | 10,937 | 9,374 | 79.62 |
| **CASH CROPS** | | **7,463** | **744,728,907** | | **1,910** | | **9,374** | **79.62** |
| **Total** | **19,757** | **17,428** | **988,980,805** | | **119,574** | | **137,002** | **12.7** |

### 5.87 Planted Area & Number of Households by Improved Seeds Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - SUMBAWANGA RURAL

| Crop | Improved Seed | | | | | | | % of area planted using improved seed |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Improved Seed | Planted Area Improved Seed Used | Cost of Improved Seeds | Number of Households NOT using Improved Seeds | Planted Area Improved Seed not Used | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Maize | 4,502 | 11,119 | 209,263,185 | 70,910 | 83,327 | 75,412 | 94,445 | 11.77 |
| Paddy | 225 | 273 | 6,753,330 | 15,983 | 25,085 | 16,208 | 25,358 | 1.08 |
| Sorghum | 0 | 0 | 0 | 5,403 | 6,107 | 5,403 | 6,107 | 0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Finger Millet | 0 | 0 | 0 | 5,853 | 4,516 | 5,853 | 4,516 | 0 |
| Wheat | 225 | 46 | 2,701,332 | 450 | 456 | 675 | 501 | 9 |
| **CEREALS** | | **11,438** | **218,717,847** | | **119,490** | | **130,928** | **8.74** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sweet Potato | 0 | 0 | 0 | 2,251 | 606 | 2,251 | 606 | 0 |
| Irish potatoes | 0 | 0 | 0 | 225 | 91 | 225 | 91 | 0 |
| Yams | 0 | 0 | 0 | 225 | 46 | 225 | 46 | 0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **743** | | **743** | **0** |
| Beans | 225 | 91 | 3,038,998 | 26,788 | 18,684 | 27,013 | 18,775 | 0.49 |
| Cowpeas | 0 | 0 | 0 | 2,026 | 207 | 2,026 | 207 | 0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **PULSES** | | **91** | **3,038,998** | | **18,891** | **29,039** | **18,982** | **0.48** |
| Sunflower | 675 | 501 | 7,203,552 | 28,814 | 23,032 | 29,490 | 23,534 | 2.13 |
| Simsim | 0 | 0 | 0 | 450 | 820 | 450 | 820 | 0 |
| Groundnut | 0 | 0 | 0 | 15,308 | 4,902 | 15,308 | 4,902 | 0 |
| **OIL SEEDS & OIL NUTS** | | **501** | **7,203,552** | | **28,755** | | **29,256** | **1.71** |
| Okra | 0 | 0 | 0 | 450 | 547 | 450 | 547 | 0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Onion | 675 | 273 | 19,134,435 | 0 | 0 | 675 | 273 | 100 |
| Cabbage | 225 | 9 | 450,222 | 0 | 0 | 225 | 9 | 100.00 |
| Tomatoes | 900 | 235 | 11,480,661 | 450 | 57 | 1,351 | 292 | 80.47 |
| Spinach | 225 | 18 | 450,222 | 225 | 91 | 450 | 109 | 16.67 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Amaranths | 0 | 0 | 0 | 225 | 91 | 225 | 91 | 0 |
| **FRUITS & VEGETABLES** | | **535** | **31,515,540** | | **786** | | **1,322** | **40.52** |
| Cotton | 0 | 0 | 0 | 675 | 365 | 675 | 365 | 0 |
| Tobacco | 0 | 0 | 0 | 225 | 182 | 225 | 182 | 0 |
| **CASH CROPS** | | **0** | **0** | | **547** | | **547** | **0** |
| **Total** | **7,879** | **12,566** | **260,475,937** | | **169,212** | | **181,778** | **6.9** |

### 5.88 Planted Area & Number of Households by Improved Seeds Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - NKASI

| Crop | Improved Seed | | | | | | | % of area planted using improved seed |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Improved Seed | Planted Area Improved Seed Used | Cost of Improved Seeds | Number of Households NOT using Improved Seeds | Planted Area Improved Seed not Used | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Maize | 782 | 1,579 | 21,474,640 | 33,072 | 44,725 | 33,854 | 46,304 | 3.41 |
| Paddy | 112 | 90 | 446,923 | 5,698 | 4,693 | 5,810 | 4,784 | 2 |
| Sorghum | 0 | 0 | 0 | 1,229 | 403 | 1,229 | 403 | 0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Finger Millet | 0 | 0 | 0 | 5,475 | 5,227 | 5,475 | 5,227 | 0.00 |
| Wheat | 0 | 0 | 0 | 335 | 226 | 335 | 226 | 0.00 |
| **CEREALS** | | **1,670** | **21,921,562** | | **55,274** | | **56,943** | **2.93** |
| Cassava | 0 | 0 | 0 | 112 | 23 | 112 | 23 | 0 |
| Sweet Potato | 0 | 0 | 0 | 1,676 | 837 | 1,676 | 837 | 0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **ROOTS & TUBERS** | | **0** | **0** | | **859** | | **859** | **0** |
| Beans | 112 | 68 | 4,916,151 | 14,972 | 10,892 | 15,084 | 10,960 | 0.62 |
| Cowpeas | 0 | 0 | 0 | 112 | 5 | 112 | 5 | 0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **PULSES** | | **68** | **4,916,151** | | **10,897** | **15,195** | **10,965** | **0.62** |
| Sunflower | 112 | 90 | 446,923 | 9,497 | 7,710 | 9,609 | 7,801 | 1 |
| Simsim | 0 | 0 | 0 | 112 | 6 | 112 | 6 | 0 |
| Groundnut | 0 | 0 | 0 | 8,045 | 2,321 | 8,045 | 2,321 | 0 |
| **OIL SEEDS & OIL NUTS** | | **90** | **446,923** | | **10,037** | | **10,128** | **1** |
| Okra | 0 | 0 | 0 | 223 | 271 | 223 | 271 | 0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Onion | 112 | 45 | 893,846 | 0 | 0 | 112 | 45 | 100 |
| Cabbage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tomatoes | 335 | 79 | 1,620,095 | 0 | 0 | 335 | 79 | 100 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Amaranths | 0 | 0 | 0 | 112 | 23 | 112 | 23 | 0 |
| **FRUITS & VEGETABLES** | | **124** | **2,513,941** | | **294** | | **418** | **30** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **CASH CROPS** | | **0** | **0** | | **0** | | **0** | **0** |
| **Total** | **1,564** | **1,952** | **29,798,576** | | **77,361** | | **79,313** | **2.5** |

### 5.89 Planted Area & Number of Households by Improved Seeds Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - SUMBAWANGA URBAN

| Crop | Improved Seed | | | | | | | % of area planted using improved seed |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Improved Seed | Planted Area Improved Seed Used | Cost of Improved Seeds | Number of Households NOT using Improved Seeds | Planted Area Improved Seed not Used | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Maize | 2,404 | 1,962 | 58,406,320 | 15,840 | 14,754 | 18,244 | 16,716 | 12 |
| Paddy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sorghum | 47 | 19 | 1,885,672 | 236 | 41 | 283 | 60 | 32 |
| Bulrush Millet | 0 | 0 | 0 | 47 | 5 | 47 | 5 | 0 |
| Finger Millet | 47 | 19 | 226,281 | 1,131 | 625 | 1,179 | 644 | 3 |
| Wheat | 236 | 248 | 21,308,089 | 1,131 | 964 | 1,367 | 1,212 | 20 |
| **CEREALS** | | **2,249** | **81,826,362** | | **16,389** | | **18,637** | **12** |
| Cassava | 0 | 0 | 0 | 47 | 57 | 47 | 57 | 0 |
| Sweet Potato | 0 | 0 | 0 | 613 | 210 | 613 | 210 | 0 |
| Irish potatoes | 471 | 98 | 9,569,783 | 801 | 233 | 1,273 | 331 | 30 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Coco Yam | 0 | 0 | 0 | 47 | 9 | 47 | 9 | 0 |
| **ROOTS & TUBERS** | | **98** | **9,569,783** | | **509** | | **607** | **16** |
| Beans | 471 | 123 | 7,436,617 | 9,853 | 3,713 | 10,324 | 3,837 | 3 |
| Cowpeas | 0 | 0 | 0 | 47 | 10 | 47 | 10 | 0 |
| Bambaranuts | 0 | 0 | 0 | 236 | 33 | 236 | 33 | 0 |
| Field Peas | 0 | 0 | 0 | 424 | 337 | 424 | 337 | 0 |
| **PULSES** | | **123** | **7,436,617** | | **4,093** | **11,031** | **4,217** | **3** |
| Sunflower | 377 | 420 | 8,220,350 | 5,940 | 3,161 | 6,317 | 3,581 | 12 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Groundnut | 47 | 19 | 141,425 | 1,839 | 388 | 1,886 | 407 | 5 |
| **OIL SEEDS & OIL NUTS** | | **439** | **8,361,775** | | **3,549** | | **3,988** | **11** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bitteer Aubergine | 189 | 17 | 659,985 | 94 | 16 | 283 | 33 | 52 |
| Onion | 94 | 8 | 612,843 | 849 | 125 | 943 | 134 | 6 |
| Cabbage | 660 | 84 | 1,730,104 | 94 | 10 | 754 | 94 | 90 |
| Tomatoes | 1,273 | 210 | 5,418,949 | 377 | 57 | 1,650 | 267 | 79 |
| Spinach | 519 | 77 | 29,374,049 | 377 | 115 | 896 | 191 | 40 |
| Carrot | 189 | 26 | 1,461,867 | 0 | 2 | 189 | 29 | 92 |
| Chillies | 94 | 2 | 75,427 | 47 | 4 | 141 | 6 | 30 |
| Amaranths | 47 | 10 | 94,284 | 283 | 35 | 330 | 44 | 22 |
| **FRUITS & VEGETABLES** | | **434** | **39,427,507** | | **364** | | **798** | **54** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **CASH CROPS** | | **0** | **0** | | **0** | | **0** | **0** |
| **Total** | **7,166** | **3,343** | **146,622,044** | | **24,904** | | **28,247** | **12** |

### 5.90 Planted Area & Number of Households by Local Seeds Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - MPANDA

| Crop | Local Seed | | | | | | | % of area planted using Local seed |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Local Seed | Planted Area Local Seed Used | Cost of Local Seeds | Number of Households NOT using Local Seeds | Planted Area Local Seed not Used | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Maize | 57,331 | 55,614 | 581,242,145 | 9,173 | 11,216 | 66,504 | 66,830 | 83.2 |
| Paddy | 12,172 | 15,658 | 209,373,385 | 176 | 179 | 12,348 | 15,837 | 98.9 |
| Sorghum | 2,117 | 2,214 | 17,781,479 | 0 | 0 | 2,117 | 2,214 | 100.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 706 | 250 | 2,513,751 | 0 | 0 | 706 | 250 | 100.0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CEREALS** | | **73,736** | **810,910,760** | | **11,395** | **81,675** | **85,131** | **86.6** |
| Cassava | 882 | 304 | 6,668,055 | 0 | 161 | 882 | 464 | 65.4 |
| Sweet Potato | 9,173 | 3,776 | 133,514,563 | 0 | 9 | 9,173 | 3,785 | 99.8 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 176 | 18 | 4,410,089 | 0 | 54 | 176 | 71 | 25.0 |
| **ROOTS & TUBERS** | | **4,098** | **144,592,706** | | **223** | **10,231** | **4,321** | **94.8** |
| Beans | 7,938 | 3,949 | 227,526,370 | 0 | 75 | 7,938 | 4,024 | 98.1 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **3,949** | **227,526,370** | | **75** | **7,938** | **4,024** | **98.1** |
| Sunflower | 2,470 | 1,303 | 16,493,733 | 353 | 464 | 2,822 | 1,768 | 73.7 |
| Simsim | 4,234 | 5,821 | 58,089,692 | 0 | 0 | 4,234 | 5,821 | 100.0 |
| Groundnut | 35,986 | 24,825 | 670,695,156 | 882 | 1,739 | 36,868 | 26,564 | 93.5 |
| **OIL SEEDS & OIL NUTS** | | **31,949** | **745,278,581** | | **2,203** | **43,924** | **34,152** | **93.5** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Cabbage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tomatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **FRUITS & VEGETABLES** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 1,764 | 1,750 | 236,380,771 | 9,173 | 7,624 | 10,937 | 9,374 | 18.7 |
| **CASH CROPS** | | **1,750** | **236,380,771** | | **7,624** | **10,937** | **9,374** | **18.7** |
| **Total** | **134,949** | **115,482** | **2,164,689,188** | | **21,520** | **154,706** | **137,002** | **84.3** |

### 5.91 Planted Area & Number of Households by Local Seeds Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - SUMBAWANGA RURAL

| Crop | Local Seed | | | | | | | % of area planted using Local seed |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Local Seed | Planted Area Local Seed Used | Cost of Local Seeds | Number of Households NOT using Local Seeds | Planted Area Local Seed not Used | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Maize | 70,910 | 81,292 | 736,607,087 | 4,502 | 13,154 | 75,412 | 94,445 | 86.1 |
| Paddy | 15,983 | 24,948 | 245,078,345 | 225 | 410 | 16,208 | 25,358 | 98.4 |
| Sorghum | 5,403 | 5,999 | 29,367,081 | 0 | 108 | 5,403 | 6,107 | 98.2 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 5,853 | 3,764 | 55,129,684 | 0 | 752 | 5,853 | 4,516 | 83.4 |
| Wheat | 450 | 456 | 60,779,970 | 225 | 46 | 675 | 501 | 90.9 |
| **CEREALS** | | **116,458** | **1,126,962,166** | | **14,470** | **103,551** | **130,928** | **88.9** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sweet Potato | 2,251 | 598 | 10,242,550 | 0 | 8 | 2,251 | 606 | 98.7 |
| Irish potatoes | 225 | 91 | 10,129,995 | 0 | 0 | 225 | 91 | 100.0 |
| Yams | 225 | 46 | 1,350,666 | 0 | 0 | 225 | 46 | 100.0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **ROOTS & TUBERS** | | **735** | **21,723,211** | | **8** | **2,701** | **743** | **98.9** |
| Beans | 26,788 | 18,041 | 777,444,698 | 225 | 734 | 27,013 | 18,775 | 96.1 |
| Cowpeas | 2,026 | 89 | 9,116,995 | 0 | 118 | 2,026 | 207 | 42.8 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **18,129** | **786,561,694** | | **853** | **29,039** | **18,982** | **95.5** |
| Sunflower | 28,814 | 21,745 | 222,094,512 | 675 | 1,789 | 29,490 | 23,534 | 92.4 |
| Simsim | 450 | 820 | 6,303,108 | 0 | 0 | 450 | 820 | 100.0 |
| Groundnut | 15,308 | 4,697 | 198,975,612 | 0 | 205 | 15,308 | 4,902 | 95.8 |
| **OIL SEEDS & OIL NUTS** | | **27,262** | **427,373,232** | | **1,994** | **45,247** | **29,256** | **93.2** |
| Okra | 450 | 547 | 2,251,110 | 0 | 0 | 450 | 547 | 100.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 675 | 273 | 675 | 273 | 0.0 |
| Cabbage | 0 | 0 | 0 | 225 | 9 | 225 | 9 | 0.0 |
| Tomatoes | 450 | 46 | 1,125,555 | 900 | 246 | 1,351 | 292 | 15.6 |
| Spinach | 225 | 91 | 22,511,100 | 225 | 18 | 450 | 109 | 83.3 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 225 | 91 | 2,251,110 | 0 | 0 | 225 | 91 | 100.0 |
| **FRUITS & VEGETABLES** | | **775** | **28,138,875** | | **547** | **3,377** | **1,322** | **58.6** |
| Cotton | 675 | 365 | 45,048,763 | 0 | 0 | 675 | 365 | 100.0 |
| Tobacco | 225 | 182 | 2,363,665 | 0 | 0 | 225 | 182 | 100.0 |
| **CASH CROPS** | | **547** | **47,412,428** | | **0** | **900** | **547** | **100.0** |
| **Total** | **176,937** | **163,906** | **2,438,171,607** | | **17,872** | **184,816** | **181,778** | **90.2** |

### 5.92 Planted Area & Number of Households by Local Seeds Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - NKASI

| Crop | Local Seed | | | | | | | % of area planted using Local seed |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Local Seed | Planted Area Local Seed Used | Cost of Local Seeds | Number of Households NOT using Local Seeds | Planted Area Local Seed not Used | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Maize | 33,072 | 44,372 | 293,761,674 | 782 | 1,932 | 33,854 | 46,304 | 95.8 |
| Paddy | 5,698 | 4,693 | 90,628,901 | 112 | 90 | 5,810 | 4,784 | 98.1 |
| Sorghum | 1,229 | 382 | 8,087,068 | 0 | 21 | 1,229 | 403 | 94.8 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 5,475 | 5,227 | 42,130,852 | 0 | 0 | 5,475 | 5,227 | 100.0 |
| Wheat | 335 | 226 | 13,128,357 | 0 | 0 | 335 | 226 | 100.0 |
| **CEREALS** | | **54,900** | **447,736,852** | | **2,043** | **46,703** | **56,943** | **96.4** |
| Cassava | 112 | 23 | 223,461 | 0 | 0 | 112 | 23 | 100.0 |
| Sweet Potato | 1,676 | 837 | 27,485,751 | 0 | 0 | 1,676 | 837 | 100.0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **ROOTS & TUBERS** | | **859** | **27,709,212** | | **0** | **1,788** | **859** | **100.0** |
| Beans | 14,972 | 10,862 | 364,627,426 | 112 | 98 | 15,084 | 10,960 | 99.1 |
| Cowpeas | 112 | 5 | 335,192 | 0 | 0 | 112 | 5 | 100.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **10,867** | **364,962,618** | | **98** | **15,195** | **10,965** | **99.1** |
| Sunflower | 9,497 | 7,710 | 91,359,396 | 112 | 90 | 9,609 | 7,801 | 98.8 |
| Simsim | 112 | 6 | 167,596 | 0 | 0 | 112 | 6 | 100.0 |
| Groundnut | 8,045 | 2,299 | 109,116,197 | 0 | 23 | 8,045 | 2,321 | 99.0 |
| **OIL SEEDS & OIL NUTS** | | **10,015** | **200,643,190** | | **113** | **17,765** | **10,128** | **98.9** |
| Okra | 223 | 271 | 1,117,307 | 0 | 0 | 223 | 271 | 100.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 0 | 112 | 45 | 112 | 45 | 0.0 |
| Cabbage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tomatoes | 0 | 0 | 0 | 335 | 79 | 335 | 79 | 0.0 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 112 | 23 | 1,117,307 | 0 | 0 | 112 | 23 | 100.0 |
| **FRUITS & VEGETABLES** | | **294** | **2,234,614** | | **124** | **782** | **418** | **70.3** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CASH CROPS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| **Total** | **80,670** | **76,935** | **1,043,286,486** | | **2,378** | **82,234** | **79,313** | **97.0** |

### 5.93 Planted Area & Number of Households by Local Seeds Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - SUMBAWANGA URBAN

| Crop | Local Seed | | | | | | | % of area planted using Local seed |
|---|---|---|---|---|---|---|---|---|
| | Number of Households using Local Seed | Planted Area Local Seed Used | Cost of Local Seeds | Number of Households NOT using Local Seeds | Planted Area Local Seed not Used | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Maize | 15,840 | 14,303 | 185,758,734 | 2,404 | 2,413 | 18,244 | 16,716 | 85.6 |
| Paddy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sorghum | 236 | 41 | 659,985 | 47 | 19 | 283 | 60 | 68.4 |
| Bulrush Millet | 47 | 5 | 377,134 | 0 | 0 | 47 | 5 | 100.0 |
| Finger Millet | 1,131 | 616 | 5,822,011 | 47 | 29 | 1,179 | 644 | 95.6 |
| Wheat | 1,131 | 950 | 145,338,421 | 236 | 262 | 1,367 | 1,212 | 78.3 |
| **CEREALS** | | **15,914** | **337,956,285** | | **2,723** | **21,120** | **18,637** | **85.4** |
| Cassava | 47 | 57 | 9,428 | 0 | 0 | 47 | 57 | 100.0 |
| Sweet Potato | 613 | 210 | 8,768,373 | 0 | 0 | 613 | 210 | 100.0 |
| Irish potatoes | 801 | 231 | 14,481,958 | 471 | 100 | 1,273 | 331 | 69.7 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Coco Yam | 47 | 9 | 141,425 | 0 | 0 | 47 | 9 | 100.0 |
| **ROOTS & TUBERS** | | **507** | **23,401,184** | | **100** | **1,980** | **607** | **83.5** |
| Beans | 9,853 | 3,661 | 131,787,230 | 471 | 176 | 10,324 | 3,837 | 95.4 |
| Cowpeas | 47 | 10 | 94,284 | 0 | 0 | 47 | 10 | 100.0 |
| Bambaranuts | 236 | 33 | 485,560 | 0 | 0 | 236 | 33 | 100.0 |
| Field Peas | 424 | 337 | 1,244,543 | 0 | 0 | 424 | 337 | 100.0 |
| **PULSES** | | **4,041** | **133,611,618** | | **176** | **11,031** | **4,217** | **95.8** |
| Sunflower | 5,940 | 3,123 | 25,515,918 | 377 | 458 | 6,317 | 3,581 | 87.2 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Groundnut | 1,839 | 388 | 18,696,434 | 47 | 19 | 1,886 | 407 | 95.3 |
| **OIL SEEDS & OIL NUTS** | | **3,511** | **44,212,352** | | **477** | **8,203** | **3,988** | **88.0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Bitteer Aubergine | 94 | 16 | 4,737,750 | 189 | 17 | 283 | 33 | 47.7 |
| Onion | 849 | 122 | 18,606,864 | 94 | 12 | 943 | 134 | 91.1 |
| Cabbage | 94 | 10 | 89,569 | 660 | 84 | 754 | 94 | 10.2 |
| Tomatoes | 377 | 52 | 895,694 | 1,273 | 215 | 1,650 | 267 | 19.6 |
| Spinach | 377 | 115 | 1,857,387 | 519 | 77 | 896 | 191 | 59.9 |
| Carrot | 0 | 0 | 0 | 189 | 29 | 189 | 29 | 0.0 |
| Chillies | 47 | 4 | 235,709 | 94 | 2 | 141 | 6 | 69.7 |
| Amaranths | 283 | 32 | 575,130 | 47 | 12 | 330 | 44 | 73.1 |
| **FRUITS & VEGETABLES** | | **351** | **26,998,103** | | **447** | **5,186** | **798** | **43.9** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **CASH CROPS** | | **0** | **0** | | **0** | **0** | **0** | **0.0** |
| **Total** | **40,353** | **24,323** | **566,179,542** | | **3,924** | **47,519** | **28,247** | **86.1** |

### 5.94 Planted Area & Number of Households by Irrigation Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - MPANDA

| Crop | Irrigation use | | | | | | % of Planted area using Irrigation |
|---|---|---|---|---|---|---|---|
| | Number of Households using Irrigation | Planted Area Irrigated | Number of Households NOT using Irrigation | Planted Area Without Irrigation | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Maize | 176 | 54 | 66,328 | 66,776 | 66,504 | 66,830 | 0.1 |
| Paddy | 176 | 161 | 12,172 | 15,676 | 12,348 | 15,837 | 1.0 |
| Sorghum | 0 | 0 | 2,117 | 2,214 | 2,117 | 2,214 | 0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Finger Millet | 0 | 0 | 706 | 250 | 706 | 250 | 0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **CEREALS** | | **214** | | **84,917** | | **85,131** | **0.3** |
| Cassava | 0 | 0 | 882 | 464 | 882 | 464 | 0 |
| Sweet Potato | 0 | 0 | 9,173 | 3,785 | 9,173 | 3,785 | 0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Coco Yam | 176 | 71 | 0 | 0 | 176 | 71 | 0 |
| **ROOTS & TUBERS** | | **71** | | **4,249** | | **4,321** | **0** |
| Beans | 176 | 107 | 7,762 | 3,917 | 7,938 | 4,024 | 2.7 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **PULSES** | | **107** | | **3,917** | | **4,024** | **2.7** |
| Sunflower | 0 | 0 | 2,822 | 1,768 | 2,822 | 1,768 | 0 |
| Simsim | 0 | 0 | 4,234 | 5,821 | 4,234 | 5,821 | 0 |
| Groundnut | 0 | 0 | 36,868 | 26,564 | 36,868 | 26,564 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | | **34,152** | | **34,152** | **0.0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cabbage | 0 | 0 | 0 | 0 | - | - | 0.0 |
| Tomatoes | 0 | 0 | 0 | 0 | - | - | 0.0 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Amaranths | 0 | 0 | 0 | 0 | - | - | 0.0 |
| **FRUITS & VEGETABLES** | | **0** | | **0** | | - | **0.0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tobacco | 706 | 643 | 10,231 | 8,731 | 10,937 | 9,374 | 6.9 |
| **CASH CROPS** | | **643** | | **8,731** | | **9,374** | **6.9** |
| **Total** | | **1,036** | | **135,966** | | **137,002** | **0.8** |

### 5.95 Planted Area & Number of Households by Irrigation Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON – SUMBAWANGA RURAL

| Crop | Irrigation use | | | | | | % of Planted area using Irrigation |
|---|---|---|---|---|---|---|---|
| | Number of Households using Irrigation | Planted Area Irrigated | Number of Households NOT using Irrigation | Planted Area Without Irrigation | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Maize | 675 | 456 | 74,737 | 93,990 | 75,412 | 94,445 | 0.5 |
| Paddy | 3,377 | 4,921 | 12,831 | 20,437 | 16,208 | 25,358 | 19.4 |
| Sorghum | 0 | 0 | 5,403 | 6,107 | 5,403 | 6,107 | 0.0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Finger Millet | 0 | 0 | 5,853 | 4,516 | 5,853 | 4,516 | 0.0 |
| Wheat | 0 | 0 | 675 | 501 | 675 | 501 | 0.0 |
| **CEREALS** | | **5,377** | | **125,551** | | **130,928** | **4.1** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Sweet Potato | 225 | 46 | 2,026 | 560 | 2,251 | 606 | 7.5 |
| Irish potatoes | 0 | 0 | 225 | 91 | 225 | 91 | 0.0 |
| Yams | 0 | 0 | 225 | 46 | 225 | 46 | 0.0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **ROOTS & TUBERS** | | **46** | | **697** | | **743** | **6** |
| Beans | 0 | 0 | 27,013 | 18,775 | 27,013 | 18,775 | 0.0 |
| Cowpeas | 0 | 0 | 2,026 | 207 | 2,026 | 207 | 0.0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| **PULSES** | | **0** | | **18,982** | | **18,982** | **0.0** |
| Sunflower | 0 | 0 | 29,490 | 23,534 | 29,490 | 23,534 | 0.0 |
| Simsim | 0 | 0 | 450 | 820 | 450 | 820 | 0.0 |
| Groundnut | 0 | 0 | 15,308 | 4,902 | 15,308 | 4,902 | 0.0 |
| **OIL SEEDS & OIL NUTS** | | **0** | | **29,256** | | **29,256** | **0.0** |
| Okra | 0 | 0 | 450 | 547 | 450 | 547 | 0.0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Onion | 0 | 0 | 675 | 273 | 675 | 273 | 0.0 |
| Cabbage | 0 | 0 | 225 | 9 | 225 | 9 | 0.0 |
| Tomatoes | 675 | 228 | 675 | 64 | 1,351 | 292 | 78.1 |
| Spinach | 0 | 0 | 450 | 109 | 450 | 109 | 0.0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 |
| Amaranths | 0 | 0 | 225 | 91 | 225 | 91 | 0.0 |
| **FRUITS & VEGETABLES** | | **228** | | **1,094** | | **1,322** | **17.2** |
| Cotton | 0 | 0 | 675 | 365 | 675 | 365 | 0.0 |
| Tobacco | 0 | 0 | 225 | 182 | 225 | 182 | 0.0 |
| **CASH CROPS** | | **0** | | **547** | | **547** | **0.0** |
| **Total** | | **5,651** | | **176,127** | | **181,778** | **3.1** |

### 5.96 Planted Area & Number of Households by Irrigation Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - NKASI

| Crop | Irrigation use | | | | | | % of Planted area using Irrigation |
|---|---|---|---|---|---|---|---|
| | Number of Households using Irrigation | Planted Area Irrigated | Number of Households NOT using Irrigation | Planted Area Without Irrigation | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Maize | 112 | 136 | 33,743 | 46,168 | 33,854 | 46,304 | 0.3 |
| Paddy | 112 | 45 | 5,698 | 4,738 | 5,810 | 4,784 | 1 |
| Sorghum | 0 | 0 | 1,229 | 403 | 1,229 | 403 | 0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Finger Millet | 0 | 0 | 5,475 | 5,227 | 5,475 | 5,227 | 0.0 |
| Wheat | 0 | 0 | 335 | 226 | 335 | 226 | 0 |
| **CEREALS** | | **181** | | **56,762** | | **56,943** | **0.3** |
| Cassava | 0 | 0 | 112 | 23 | 112 | 23 | 0 |
| Sweet Potato | 0 | 0 | 1,676 | 837 | 1,676 | 837 | 0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **ROOTS & TUBERS** | | **0** | | **859** | | **859** | **0** |
| Beans | 0 | 0 | 15,084 | 10,960 | 15,084 | 10,960 | 0.0 |
| Cowpeas | 0 | 0 | 112 | 5 | 112 | 5 | 0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **PULSES** | | **0** | | **10,965** | | **10,965** | **0.0** |
| Sunflower | 112 | 271 | 9,497 | 7,529 | 9,609 | 7,801 | 3 |
| Simsim | 0 | 0 | 112 | 6 | 112 | 6 | 0 |
| Groundnut | 0 | 0 | 8,045 | 2,321 | 8,045 | 2,321 | 0 |
| **OIL SEEDS & OIL NUTS** | | **271** | | **9,856** | | **10,128** | **3** |
| Okra | 0 | 0 | 223 | 271 | 223 | 271 | 0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Onion | 0 | 0 | 112 | 45 | 112 | 45 | 0 |
| Cabbage | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tomatoes | 223 | 34 | 112 | 45 | 335 | 79 | 43 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Amaranths | 112 | 3 | 0 | 20 | 112 | 23 | 13 |
| **FRUITS & VEGETABLES** | | **37** | | **382** | | **418** | **9** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **CASH CROPS** | | **0** | | **0** | | **0** | **0** |
| **Total** | | **489** | | **78,824** | | **79,313** | **0.6** |

### 5.97 Planted Area & Number of Households by Irrigation Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - SUMBAWANGA URBAN

| Crop | Irrigation use | | | | | | % of Planted area using Irrigation |
|---|---|---|---|---|---|---|---|
| | Number of Households using Irrigation | Planted Area Irrigated | Number of Households NOT using Irrigation | Planted Area Without Irrigation | Total Number of Households Planting in MASIKA | Total Planted Area in MASIKA | |
| Maize | 990 | 442 | 17,254 | 16,274 | 18,244 | 16,716 | 3 |
| Paddy | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sorghum | 0 | 0 | 283 | 60 | 283 | 60 | 0 |
| Bulrush Millet | 0 | 0 | 47 | 5 | 47 | 5 | 0 |
| Finger Millet | 0 | 0 | 1,179 | 644 | 1,179 | 644 | 0 |
| Wheat | 47 | 57 | 1,320 | 1,155 | 1,367 | 1,212 | 5 |
| **CEREALS** | | **500** | | **18,138** | | **18,637** | **3** |
| Cassava | 0 | 0 | 47 | 57 | 47 | 57 | 0 |
| Sweet Potato | 0 | 0 | 613 | 210 | 613 | 210 | 0 |
| Irish potatoes | 141 | 38 | 1,131 | 293 | 1,273 | 331 | 12 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Coco Yam | 47 | 9 | 0 | 0 | 47 | 9 | 100 |
| **ROOTS & TUBERS** | | **47** | | **559** | | **607** | **8** |
| Beans | 754 | 137 | 9,570 | 3,700 | 10,324 | 3,837 | 4 |
| Cowpeas | 0 | 0 | 47 | 10 | 47 | 10 | 0 |
| Bambaranuts | 0 | 0 | 236 | 33 | 236 | 33 | 0 |
| Field Peas | 47 | 1 | 377 | 336 | 424 | 337 | 0 |
| **PULSES** | | **138** | | **4,078** | | **4,217** | **3** |
| Sunflower | 47 | 1 | 6,270 | 3,580 | 6,317 | 3,581 | 0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Groundnut | 0 | 0 | 1,886 | 407 | 1,886 | 407 | 0 |
| **OIL SEEDS & OIL NUTS** | | **1** | | **3,988** | | **3,988** | **0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bitteer Aubergine | 141 | 13 | 141 | 20 | 283 | 33 | 40 |
| Onion | 519 | 88 | 424 | 45 | 943 | 134 | 66 |
| Cabbage | 377 | 52 | 377 | 41 | 754 | 94 | 56 |
| Tomatoes | 990 | 174 | 660 | 94 | 1,650 | 267 | 65 |
| Spinach | 471 | 51 | 424 | 140 | 896 | 191 | 27 |
| Carrot | 47 | 10 | 141 | 19 | 189 | 29 | 33 |
| Chillies | 94 | 5 | 47 | 1 | 141 | 6 | 85 |
| Amaranths | 141 | 16 | 189 | 29 | 330 | 44 | 35 |
| **FRUITS & VEGETABLES** | | **409** | | **388** | | **798** | **51** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **CASH CROPS** | | **0** | | **0** | | **0** | **0** |
| **Total** | | **1,095** | | **27,152** | | **28,247** | **4** |

**MARKETING**

### 5.98 Number of Crop Producing Households Reporting Selling Agricultural Produce During 2007/08 by District and Season

| | SHORT RAINY SEASON | | | | | LONG RAINY SEASON | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| District | Number of households that sold | % | Number of households that did not sell | % | Total number of households | Number of households that sold | % | Number of households that did not sold | % | Total number of households |
| Mpanda | 1,058 | 100 | 0 | 0 | 1,058 | 55,038 | 80 | 13,936 | 20 | 68,974 |
| Sumbawanga Rural | 1,126 | 83 | 225 | 17 | 1,351 | 72,486 | 82 | 16,208 | 18 | 88,694 |
| Nkasi | 112 | 100 | 0 | 0 | 112 | 36,312 | 91 | 3,687 | 9 | 40,000 |
| Sumbawanga Urban | 0 | 0 | 0 | 0 | 0 | 15,887 | 87 | 2,451 | 13 | 18,338 |
| **Total** | **2,296** | **91** | **225** | **9** | **2,521** | **179,723** | **83** | **36,282** | **17** | **216,005** |

### 5.98 Number of Households Reporting Marketing Problems for Agricultural Products by Crop -SHORT RAINY SEASON , MPANDA

| Crop | Open Market Price too low | No Transport | Transport Cost too high | No buyer | Crop Market too Far | Farmer Association problems | Cooperative problems | Trade Union Problems | Government Regulatory Problems | Lack of Market Information | No problem | Not Applicable |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maize | 353 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 176 | 353 |
| Paddy | 176 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sorghum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Finger Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **CEREALS** | **529** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **176** | **353** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sweet Potato | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **ROOTS & TUBERS** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| Beans | 176 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 176 | 176 | 176 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **PULSES** | **176** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **176** | **176** | **176** |
| Sunflower | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Groundnut | 176 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **OIL SEEDS & OIL NUTS** | **176** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cabbage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 176 | 0 |
| Tomatoes | 176 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 176 | 0 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Amaranths | 176 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **FRUITS & VEGETABLES** | **353** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **353** | **0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 176 | 0 | 0 | 0 | 0 | 0 | 0 |
| **CASH CROPS** | **0** | **0** | **0** | **0** | **0** | **176** | **0** | **0** | **0** | **0** | **0** | **0** |
| **Total** | **1,235** | **0** | **0** | **0** | **0** | **176** | **0** | **0** | **0** | **176** | **706** | **529** |

### 5.99 Number of Households Reporting Marketing Problems for agricultural products by Crop - LONG RAINY SEASON, MPANDA

| Crop | Open Market Price too low | No Transport | Transport Cost too high | No buyer | Crop Market too Far | Farmer Association problems | Cooperative problems | Trade Union Problems | Government Regulatory Problems | Lack of Market Information | No problem | Not Applicable |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maize | 11,290 | 2,999 | 5,645 | 176 | 1,235 | 0 | 0 | 0 | 706 | 1,235 | 3,528 | 39,691 |
| Paddy | 6,527 | 353 | 1,588 | 0 | 529 | 0 | 176 | 0 | 0 | 353 | 1,411 | 1,411 |
| Sorghum | 529 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 176 | 0 | 1,411 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Finger Millet | 0 | 0 | 176 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 176 | 353 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **CEREALS** | **18,346** | **3,352** | **7,409** | **176** | **1,764** | **0** | **176** | **0** | **706** | **1,764** | **5,116** | **42,866** |
| Cassava | 0 | 176 | 176 | 176 | 0 | 0 | 0 | 0 | 0 | 0 | 176 | 176 |
| Sweet Potato | 2,470 | 176 | 529 | 176 | 353 | 0 | 0 | 0 | 0 | 176 | 176 | 5,116 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Coco Yam | 176 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **ROOTS & TUBERS** | **2,646** | **353** | **706** | **353** | **353** | **0** | **0** | **0** | **0** | **176** | **353** | **5,292** |
| Beans | 1,588 | 706 | 176 | 0 | 0 | 0 | 176 | 0 | 0 | 176 | 706 | 4,410 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **PULSES** | **1,588** | **706** | **176** | **0** | **0** | **0** | **176** | **0** | **0** | **176** | **706** | **4,410** |
| Sunflower | 1,764 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 529 | 0 | 529 |
| Simsim | 1,940 | 0 | 0 | 0 | 176 | 0 | 0 | 0 | 0 | 1,411 | 176 | 529 |
| Groundnut | 15,524 | 3,175 | 4,586 | 176 | 1,588 | 0 | 176 | 0 | 0 | 1,588 | 2,293 | 7,762 |
| **OIL SEEDS & OIL NUTS** | **19,228** | **3,175** | **4,586** | **176** | **1,764** | **0** | **176** | **0** | **0** | **3,528** | **2,470** | **8,820** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cabbage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tomatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Amaranths | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **FRUITS & VEGETABLES** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tobacco | 5,116 | 0 | 353 | 0 | 0 | 353 | 1,411 | 0 | 0 | 0 | 3,352 | 353 |
| **CASH CROPS** | **5,116** | **0** | **353** | **0** | **0** | **353** | **1,411** | **0** | **0** | **0** | **3,352** | **353** |
| **Total** | **46,923** | **7,585** | **13,230** | **706** | **3,881** | **353** | **1,940** | **0** | **706** | **5,645** | **11,995** | **61,741** |

**5.100 Number of Households Reporting Marketing Problems for agricultural products by Crop -SHORT RAINY SEASON , SUMBAWANGA RURAL**

| Crop | Open Market Price too low | No Transport | Transport Cost too high | No buyer | Crop Market too Far | Farmer Association problems | Cooperative problems | Trade Union Problems | Government Rugulatory Problems | Lack of Market Information | No problem | Not Applicable |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maize | 450 | 0 | 0 | 0 | 0 | 225 | 0 | 0 | 0 | 0 | 0 | 0 |
| Paddy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 225 |
| Sorghum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Finger Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **CEREALS** | **450** | **0** | **0** | **0** | **0** | **225** | **0** | **0** | **0** | **0** | **0** | **225** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sweet Potato | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **ROOTS & TUBERS** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| Beans | 225 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **PULSES** | **225** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| Sunflower | 0 | 0 | 0 | 0 | 0 | 225 | 0 | 0 | 0 | 0 | 0 | 0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Groundnut | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **OIL SEEDS & OIL NUTS** | **0** | **0** | **0** | **0** | **0** | **225** | **0** | **0** | **0** | **0** | **0** | **0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cabbage | 225 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tomatoes | 450 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spinach | 225 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Amaranths | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **FRUITS & VEGETABLES** | **900** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **CASH CROPS** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| **Total** | **1,576** | **0** | **0** | **0** | **0** | **450** | **0** | **0** | **0** | **0** | **0** | **225** |

**5.101 Number of Households Reporting Marketing Problems for agricultural products by Crop - LONG RAINY SEASON, SUMBAWANGA RURAL**

| Crop | Open Market Price too low | No Transport | Transport Cost too high | No buyer | Crop Market too Far | Farmer Association problems | Cooperative problems | Trade Union Problems | Government Rugulatory Problems | Lack of Market Information | No problem | Not Applicable |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maize | 43,897 | 675 | 4,727 | 675 | 1,576 | 225 | 450 | 0 | 450 | 1,576 | 1,801 | 19,360 |
| Paddy | 9,905 | 675 | 900 | 225 | 450 | 0 | 0 | 0 | 0 | 225 | 0 | 3,827 |
| Sorghum | 2,251 | 0 | 225 | 0 | 225 | 0 | 0 | 0 | 0 | 0 | 225 | 2,476 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Finger Millet | 4,052 | 0 | 225 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 675 | 900 |
| Wheat | 225 | 225 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 225 |
| **CEREALS** | **60,330** | **1,576** | **6,078** | **900** | **2,251** | **225** | **450** | **0** | **450** | **1,801** | **2,701** | **26,788** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sweet Potato | 675 | 225 | 450 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 225 | 675 |
| Irish potatoes | 225 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 225 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **ROOTS & TUBERS** | **900** | **225** | **450** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **225** | **900** |
| Beans | 15,758 | 225 | 900 | 225 | 0 | 0 | 0 | 0 | 0 | 900 | 1,351 | 7,654 |
| Cowpeas | 450 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,576 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **PULSES** | **16,208** | **225** | **900** | **225** | **0** | **0** | **0** | **0** | **0** | **900** | **1,351** | **9,230** |
| Sunflower | 22,286 | 225 | 1,576 | 225 | 225 | 225 | 0 | 450 | 0 | 900 | 900 | 2,476 |
| Simsim | 450 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Groundnut | 8,554 | 450 | 450 | 225 | 450 | 0 | 0 | 0 | 0 | 900 | 225 | 4,052 |
| **OIL SEEDS & OIL NUTS** | **31,290** | **675** | **2,026** | **450** | **675** | **225** | **0** | **450** | **0** | **1,801** | **1,126** | **6,528** |
| Okra | 450 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Onion | 450 | 0 | 0 | 0 | 225 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cabbage | 225 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tomatoes | 1,126 | 0 | 0 | 225 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spinach | 450 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chilies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Amaranths | 225 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **FRUITS & VEGETABLES** | **2,926** | **0** | **0** | **225** | **225** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| Cotton | 675 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tobacco | 225 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **CASH CROPS** | **900** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| **Total** | **112,555** | **2,701** | **9,455** | **1,801** | **3,152** | **450** | **450** | **450** | **450** | **4,502** | **5,403** | **43,446** |

**5.102 Number of Households Reporting Marketing Problems for agricultural products by Crop -SHORT RAINY SEASON ,NKASI**

| Crop | Open Market Price too low | No Transport | Transport Cost too high | No buyer | Crop Market too Far | Farmer Association problems | Cooperative problems | Trade Union Problems | Government Rugulatory Problems | Lack of Market Information | No problem | Not Applicable |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maize | 112 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Paddy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sorghum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Finger Millet | 112 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **CEREALS** | **223** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sweet Potato | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **ROOTS & TUBERS** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| Beans | 112 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **PULSES** | **112** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| Sunflower | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Groundnut | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **OIL SEEDS & OIL NUTS** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cabbage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tomatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Amaranths | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **FRUITS & VEGETABLES** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **CASH CROPS** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| **Total** | **335** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

### 5.103 Number of Households Reporting Marketing Problems for agricultural products by Crop - LONG RAINY SEASON, NKASI

| Crop | Open Market Price too low | No Transport | Transport Cost too high | No buyer | Crop Market too Far | Farmer Association problems | Cooperative problems | Trade Union Problems | Government Rugulatory Problems | Lack of Market Information | No problem | Not Applicable |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maize | 20,447 | 1,006 | 559 | 0 | 3,128 | 0 | 0 | 223 | 112 | 223 | 4,022 | 4,134 |
| Paddy | 4,134 | 223 | 112 | 0 | 112 | 112 | 0 | 0 | 0 | 112 | 782 | 223 |
| Sorghum | 894 | 0 | 112 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 112 | 112 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Finger Millet | 3,017 | 223 | 335 | 223 | 782 | 0 | 0 | 0 | 0 | 0 | 559 | 335 |
| Wheat | 0 | 0 | 0 | 0 | 223 | 0 | 0 | 0 | 0 | 0 | 112 | 0 |
| **CEREALS** | **28,491** | **1,452** | **1,117** | **223** | **4,246** | **112** | **0** | **223** | **112** | **335** | **5,587** | **4,804** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 112 |
| Sweet Potato | 559 | 0 | 223 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 447 | 447 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **ROOTS & TUBERS** | **559** | **0** | **223** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **447** | **559** |
| Beans | 7,039 | 894 | 112 | 0 | 2,570 | 0 | 0 | 112 | 112 | 0 | 894 | 3,352 |
| Cowpeas | 0 | 112 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **PULSES** | **7,039** | **1,006** | **112** | **0** | **2,570** | **0** | **0** | **112** | **112** | **0** | **894** | **3,352** |
| Sunflower | 6,927 | 223 | 0 | 0 | 223 | 0 | 0 | 112 | 0 | 0 | 1,452 | 670 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 112 |
| Groundnut | 2,793 | 894 | 223 | 112 | 0 | 112 | 0 | 112 | 0 | 335 | 1,341 | 2,123 |
| **OIL SEEDS & OIL NUTS** | **9,721** | **1,117** | **223** | **112** | **223** | **112** | **0** | **223** | **0** | **335** | **2,793** | **2,905** |
| Okra | 223 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Onion | 0 | 0 | 0 | 0 | 112 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cabbage | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tomatoes | 112 | 0 | 112 | 0 | 112 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spinach | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Amaranths | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 112 | 0 |
| **FRUITS & VEGETABLES** | **335** | **0** | **112** | **0** | **223** | **0** | **0** | **0** | **0** | **0** | **112** | **0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **CASH CROPS** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| **Total** | **46,145** | **3,575** | **1,788** | **335** | **7,262** | **223** | **0** | **559** | **223** | **670** | **9,832** | **11,620** |

**5.104 Number of Households Reporting Marketing Problems for agricultural products by Crop - LONG RAINY SEASON, SUMBAWANGA URBAN**

| Crop | Open Market Price too low | No Transport | Transport Cost too high | No buyer | Crop Market too Far | Farmer Association problems | Cooperative problems | Trade Union Problems | Government Rugulatory Problems | Lack of Market Information | No problem | Not Applicable |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maize | 7,778 | 613 | 1,367 | 0 | 990 | 0 | 0 | 0 | 47 | 377 | 2,263 | 4,808 |
| Paddy | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sorghum | 47 | 0 | 47 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 189 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 47 |
| Finger Millet | 660 | 47 | 47 | 0 | 0 | 0 | 0 | 0 | 0 | 47 | 236 | 141 |
| Wheat | 424 | 189 | 377 | 0 | 47 | 0 | 0 | 0 | 0 | 47 | 94 | 189 |
| **CEREALS** | **8,910** | **849** | **1,839** | **0** | **1,037** | **0** | **0** | **0** | **47** | **471** | **2,593** | **5,374** |
| Cassava | 47 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sweet Potato | 189 | 0 | 141 | 0 | 47 | 0 | 0 | 0 | 0 | 0 | 236 | 0 |
| Irish potatoes | 424 | 47 | 519 | 0 | 94 | 0 | 0 | 0 | 0 | 0 | 94 | 94 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 47 | 0 |
| **ROOTS & TUBERS** | **660** | **47** | **660** | **0** | **141** | **0** | **0** | **0** | **0** | **0** | **377** | **94** |
| Beans | 3,818 | 236 | 943 | 0 | 566 | 0 | 0 | 0 | 0 | 94 | 1,273 | 3,394 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 47 |
| Bambaranuts | 47 | 47 | 94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 47 |
| Field Peas | 236 | 0 | 0 | 0 | 47 | 0 | 0 | 0 | 47 | 0 | 0 | 94 |
| **PULSES** | **4,101** | **283** | **1,037** | **0** | **613** | **0** | **0** | **0** | **47** | **94** | **1,273** | **3,583** |
| Sunflower | 3,300 | 141 | 236 | 0 | 236 | 0 | 0 | 0 | 47 | 283 | 1,084 | 990 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Groundnut | 801 | 94 | 141 | 0 | 47 | 0 | 0 | 0 | 0 | 0 | 94 | 707 |
| **OIL SEEDS & OIL NUTS** | **4,101** | **236** | **377** | **0** | **283** | **0** | **0** | **0** | **47** | **283** | **1,179** | **1,697** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bitteer Aubergine | 141 | 47 | 47 | 0 | 0 | 0 | 0 | 0 | 0 | 47 | 0 | 0 |
| Onion | 519 | 94 | 94 | 0 | 47 | 0 | 0 | 0 | 0 | 0 | 189 | 0 |
| Cabbage | 424 | 141 | 0 | 0 | 47 | 0 | 47 | 0 | 0 | 0 | 47 | 47 |
| Tomatoes | 801 | 141 | 236 | 0 | 141 | 0 | 0 | 0 | 0 | 0 | 330 | 0 |
| Spinach | 424 | 0 | 94 | 0 | 189 | 0 | 0 | 0 | 0 | 0 | 94 | 94 |
| Carrot | 141 | 0 | 47 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chillies | 47 | 0 | 0 | 0 | 94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Amaranths | 94 | 0 | 94 | 0 | 0 | 0 | 0 | 47 | 0 | 0 | 94 | 0 |
| **FRUITS & VEGETABLES** | **2,593** | **424** | **613** | **0** | **519** | **0** | **47** | **47** | **0** | **47** | **754** | **141** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **CASH CROPS** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| **Total** | **20,365** | **1,839** | **4,526** | **0** | **2,593** | **0** | **47** | **47** | **141** | **896** | **6,176** | **10,890** |

**5.105 Number of Households Reporting Marketing Problems for agricultural products by Crop - SHORT RAINY SEASON, RUKWA REGION**

| Crop | Open Market Price too low | No Transport | Transport Cost too high | No buyer | Crop Market too Far | Farmer Association problems | Cooperative problems | Trade Union Problems | Government Rugulatory Problems | Lack of Market Information | No problem | Not Applicable |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maize | 915 | 0 | 0 | 0 | 0 | 225 | 0 | 0 | 0 | 0 | 176 | 353 |
| Paddy | 176 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 225 |
| Sorghum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Finger Millet | 112 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wheat | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **CEREALS** | **1,203** | **0** | **0** | **0** | **0** | **225** | **0** | **0** | **0** | **0** | **176** | **578** |
| Cassava | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sweet Potato | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Irish potatoes | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Coco Yam | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **ROOTS & TUBERS** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| Beans | 513 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 176 | 176 | 176 |
| Cowpeas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bambaranuts | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Field Peas | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **PULSES** | **513** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **176** | **176** | **176** |
| Sunflower | 0 | 0 | 0 | 0 | 0 | 225 | 0 | 0 | 0 | 0 | 0 | 0 |
| Simsim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Groundnut | 176 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **OIL SEEDS & OIL NUTS** | **176** | **0** | **0** | **0** | **0** | **225** | **0** | **0** | **0** | **0** | **0** | **0** |
| Okra | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bitteer Aubergine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Onion | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cabbage | 225 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 176 | 0 |
| Tomatoes | 627 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 176 | 0 |
| Spinach | 225 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Carrot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chillies | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Amaranths | 176 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **FRUITS & VEGETABLES** | **1,253** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **353** | **0** |
| Cotton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tobacco | 0 | 0 | 0 | 0 | 0 | 176 | 0 | 0 | 0 | 0 | 0 | 0 |
| **CASH CROPS** | **0** | **0** | **0** | **0** | **0** | **176** | **0** | **0** | **0** | **0** | **0** | **0** |
| **Total** | **3,146** | **0** | **0** | **0** | **0** | **627** | **0** | **0** | **0** | **176** | **706** | **754** |

### 5.106 Number of Households Reporting Marketing Problems for agricultural products by Crop - LONG RAINY SEASON, RUKWA REGION

| Crop | Open Market Price too low | No Transport | Transport Cost too high | No buyer | Crop Market too Far | Farmer Association problems | Cooperative problems | Trade Union Problems | Government Regulatory Problems | Lack of Market Information | No problem | Not Applicable |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maize | 83,412 | 5,293 | 12,298 | 852 | 6,929 | 225 | 450 | 223 | 1,315 | 3,411 | 11,614 | 67,993 |
| Paddy | 20,566 | 1,252 | 2,600 | 225 | 1,091 | 112 | 176 | 0 | 0 | 690 | 2,193 | 5,462 |
| Sorghum | 3,721 | 0 | 384 | 0 | 225 | 0 | 0 | 0 | 0 | 176 | 337 | 4,188 |
| Bulrush Millet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 47 |
| Finger Millet | 7,729 | 271 | 784 | 223 | 782 | 0 | 0 | 0 | 0 | 47 | 1,646 | 1,730 |
| Wheat | 649 | 414 | 377 | 0 | 271 | 0 | 0 | 0 | 0 | 47 | 206 | 414 |
| **CEREALS** | **116,077** | **7,228** | **16,443** | **1,300** | **9,298** | **337** | **627** | **223** | **1,315** | **4,372** | **15,996** | **79,833** |
| Cassava | 47 | 176 | 176 | 176 | 0 | 0 | 0 | 0 | 0 | 0 | 176 | 288 |
| Sweet Potato | 3,892 | 402 | 1,344 | 176 | 400 | 0 | 0 | 0 | 0 | 176 | 1,084 | 6,238 |
| Irish potatoes | 649 | 47 | 519 | 0 | 94 | 0 | 0 | 0 | 0 | 0 | 94 | 94 |
| Yams | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 225 |
| Coco Yam | 176 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 47 | 0 |
| **ROOTS & TUBERS** | **4,765** | **625** | **2,039** | **353** | **494** | **0** | **0** | **0** | **0** | **176** | **1,402** | **6,845** |
| Beans | 28,203 | 2,060 | 2,131 | 225 | 3,136 | 0 | 176 | 112 | 112 | 1,171 | 4,223 | 18,810 |
| Cowpeas | 450 | 112 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,623 |
| Bambaranuts | 47 | 47 | 94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 47 |
| Field Peas | 236 | 0 | 0 | 0 | 47 | 0 | 0 | 0 | 47 | 0 | 0 | 94 |
| **PULSES** | **28,936** | **2,219** | **2,226** | **225** | **3,183** | **0** | **176** | **112** | **159** | **1,171** | **4,223** | **20,574** |
| Sunflower | 34,277 | 590 | 1,811 | 225 | 684 | 225 | 0 | 562 | 47 | 1,713 | 3,437 | 4,666 |
| Simsim | 2,391 | 0 | 0 | 0 | 176 | 0 | 0 | 0 | 0 | 1,411 | 176 | 641 |
| Groundnut | 27,672 | 4,614 | 5,402 | 513 | 2,085 | 112 | 176 | 112 | 0 | 2,823 | 3,953 | 14,644 |
| **OIL SEEDS & OIL NUTS** | **64,340** | **5,204** | **7,213** | **738** | **2,946** | **337** | **176** | **674** | **47** | **5,947** | **7,567** | **19,950** |
| Okra | 674 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bitteer Aubergine | 141 | 47 | 47 | 0 | 0 | 0 | 0 | 0 | 0 | 47 | 0 | 0 |
| Onion | 969 | 94 | 94 | 0 | 384 | 0 | 0 | 0 | 0 | 0 | 189 | 0 |
| Cabbage | 649 | 141 | 0 | 0 | 47 | 0 | 47 | 0 | 0 | 0 | 47 | 47 |
| Tomatoes | 2,039 | 141 | 347 | 225 | 253 | 0 | 0 | 0 | 0 | 0 | 330 | 0 |
| Spinach | 874 | 0 | 94 | 0 | 189 | 0 | 0 | 0 | 0 | 0 | 94 | 94 |
| Carrot | 141 | 0 | 47 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chillies | 47 | 0 | 0 | 0 | 94 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Amaranths | 319 | 0 | 94 | 0 | 0 | 0 | 0 | 47 | 0 | 0 | 206 | 0 |
| **FRUITS & VEGETABLES** | **5,854** | **424** | **725** | **225** | **967** | **0** | **47** | **47** | **0** | **47** | **866** | **141** |
| Cotton | 675 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tobacco | 5,341 | 0 | 353 | 0 | 0 | 353 | 1,411 | 0 | 0 | 0 | 3,352 | 353 |
| **CASH CROPS** | **6,016** | **0** | **353** | **0** | **0** | **353** | **1,411** | **0** | **0** | **0** | **3,352** | **353** |
| **Total** | **225,989** | **15,701** | **28,998** | **2,842** | **16,888** | **1,026** | **2,438** | **1,056** | **1,521** | **11,713** | **33,406** | **127,697** |

**PERMANENT CROPS**

### 5.107 Number of Households Planting Permanent Crops by District , 2007/08 Agriculture Year - Rukwa Region

| District | Have Crops/Fruit Trees | | Does Not Have Crops/Fruit Trees | | Total | |
|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % |
| Mpanda | 13,583 | 19 | 57,860 | 81.0 | 71,443 | 100.0 |
| Sumbawanga Rural | 12,606 | 14 | 78,564 | 86.2 | 91,170 | 100.0 |
| Nkasi | 16,201 | 36 | 29,050 | 64.2 | 45,251 | 100.0 |
| Sumbawanga Urban | 2,593 | 14 | 15,792 | 85.9 | 18,385 | 100.0 |
| **Total** | **44,983** | **20** | **181,267** | **80.1** | **226,250** | **100.0** |

### 5.108 Planted Area and Area Harvested by Type of Planting and District

| District | Area of Plants/Trees/Bushes in Mono Crop (ha) | | Area Covered by Permanent Crop in Mixed Crop (ha) | | Total Area Planted (ha) Mono+Mixed Area | | Area harvested (ha) |
|---|---|---|---|---|---|---|---|
| | Number of household | Area | Number of household | Area | Number of household | Area | |
| Mpanda | 12,701 | 7,327 | 1,588 | 656 | 13,583 | 7,983 | 6,270 |
| Sumbawanga Rural | 7,429 | 5,546 | 6,528 | 3,387 | 12,606 | 8,934 | 7,460 |
| Nkasi | 13,855 | 9,422 | 2,235 | 803 | 15,977 | 10,225 | 7,863 |
| Sumbawanga Urban | 1,320 | 439 | 1,556 | 307 | 2,593 | 746 | 532 |
| **Total** | **35,304** | **22,734** | **11,906** | **5,153** | **44,760** | **27,887** | **22,125** |

### 5.109 Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop-MPANDA

| Crop | Total Area Planted (ha) Mono+Mixed Area | | Area harvested (ha) | Quantity harvested (tons) | Quantity Harvested (kgs) | Yield (tons/Ha) | Yield (Kg/Ha) |
|---|---|---|---|---|---|---|---|
| | Number of households | Area | | | | | |
| Banana | 3,175 | 2,054 | 1,507 | 13,847 | 13,846,797 | 9.19 | 9,191.36 |
| Coffee | 0 | 0 | 0 | 0 | 0 | .00 | .00 |
| Mango | 706 | 190 | 151 | 423 | 423,369 | 2.80 | 2,799.76 |
| Coconut | 0 | 0 | 0 | 0 | 0 | .00 | .00 |
| Orange | 529 | 201 | 175 | 459 | 458,649 | 2.62 | 2,620.63 |
| Sugar Cane | 353 | 139 | 139 | 6,351 | 6,350,528 | 45.72 | 45,720.00 |
| Palm Oil | 0 | 0 | 0 | 0 | 0 | .00 | .00 |
| Other | 11,466 | 5,398 | 4,298 | 7,098 | 7,097,950 | 1.65 | 1,651.29 |
| **Total** | **16,229** | **7,983** | **6,270** | **28,177** | **28,177,293** | **4.49** | **4,493.95** |

### 5.110 Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop-SUMBAWANGA RURAL

| Crop | Total Area Planted (ha) Mono+Mixed Area | | Area harvested (ha) | Quantity harvested (tons) | Quantity Harvested (kgs) | Yield (tons/Ha) | Yield (Kg/Ha) |
|---|---|---|---|---|---|---|---|
| | Number of households | Area | | | | | |
| Banana | 2,026 | 476 | 266 | 358 | 357,701 | 1.35 | 1,345.35 |
| Coffee | 0 | 0 | 0 | 0 | 0 | .00 | .00 |
| Mango | 2,251 | 388 | 278 | 1,559 | 1,558,894 | 5.60 | 5,599.77 |
| Coconut | 225 | 5 | 0 | 0 | 0 | .00 | .00 |
| Orange | 225 | 89 | 89 | 11 | 11,256 | .13 | 127.00 |
| Sugar Cane | 1,126 | 883 | 581 | 11,807 | 11,807,072 | 20.33 | 20,326.98 |
| Palm Oil | 1,126 | 54 | 0 | 23 | 22,511 | .00 | .00 |
| Other | 10,580 | 7,039 | 6,246 | 13,806 | 13,805,607 | 2.21 | 2,210.17 |
| **Total** | **17,559** | **8,934** | **7,460** | **27,563** | **27,563,041** | **3.69** | **3,694.71** |

### 5.111 Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop-NKASI

| Crop | Total Area Planted (ha) Mono+Mixed Area | | Area harvested (ha) | Quantity harvested (tons) | Quantity Harvested (kgs) | Yield (tons/Ha) | Yield (Kg/Ha) |
|---|---|---|---|---|---|---|---|
| | Number of households | Area | | | | | |
| Banana | 559 | 23 | 23 | 336 | 336,309 | 14.43 | 14,425.28 |
| Coffee | 0 | 0 | 0 | 0 | 0 | .00 | .00 |
| Mango | 223 | 6 | 0 | 63 | 62,569 | .00 | .00 |
| Coconut | 0 | 0 | 0 | 0 | 0 | .00 | .00 |
| Orange | 0 | 0 | 0 | 0 | 0 | .00 | .00 |
| Sugar Cane | 335 | 143 | 143 | 1,044 | 1,043,676 | 7.32 | 7,322.88 |
| Palm Oil | 0 | 0 | 0 | 0 | 0 | .00 | .00 |
| Other | 15,642 | 10,053 | 7,697 | 30,067 | 30,067,289 | 3.91 | 3,906.53 |
| **Total** | **16,760** | **10,225** | **7,863** | **31,510** | **31,509,844** | **4.01** | **4,007.61** |

### 5.112 Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop-SUMBAWANGA URBAN

| Crop | Total Area Planted (ha) Mono+Mixed Area | | Area harvested (ha) | Quantity harvested (tons) | Quantity Harvested (kgs) | Yield (tons/Ha) | Yield (Kg/Ha) |
|---|---|---|---|---|---|---|---|
| | Number of households | Area | | | | | |
| Banana | 1,603 | 194 | 170 | 769 | 768,505 | 4.53 | 4,532.79 |
| Coffee | 47 | 19 | 19 | 1 | 1,320 | .07 | 71.12 |
| Mango | 47 | 18 | 0 | 47 | 47,142 | .00 | .00 |
| Coconut | 0 | 0 | 0 | 0 | 0 | .00 | .00 |
| Orange | 189 | 101 | 12 | 52 | 52,186 | 4.43 | 4,428.00 |
| Sugar Cane | 754 | 236 | 214 | 7,625 | 7,625,090 | 35.64 | 35,635.32 |
| Palm Oil | 0 | 0 | 0 | 0 | 0 | .00 | .00 |
| Other | 1,933 | 178 | 118 | 473 | 473,021 | 4.00 | 4,001.00 |
| **Total** | **4,573** | **746** | **532** | **8,967** | **8,967,264** | **16.85** | **16,852.91** |

### 5.113 Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District

| District | Banana | | | | | | | | Coffee | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Area of Plants/Trees/Bushes in Mono Crop (ha) | | Area Covered by Permanent Crop in Mixed Crop (ha) | | Total Area Planted (ha) Mono+Mixed Area | | Area harvested (ha) | Quantity harvested (tons) | Area of Plants/Trees/Bushes in Mono Crop (ha) | | Area Covered by Permanent Crop in Mixed Crop (ha) | | Total Area Planted (ha) Mono+Mixed Area | | Area harvested (ha) | Quantity harvested (tons) |
| | Number of households | Area | Number of households | Area | Number of households | Area | Area | tons | Number of households | Area | Number of households | Area | Number of households | Area | Area | tons |
| Mpanda | 3,175 | 2,044 | 353 | 10 | 3,175 | 2,054 | 1,507 | 13,847 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Rural | 1,126 | 443 | 1,126 | 33 | 2,026 | 476 | 266 | 358 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nkasi | 447 | 23 | 112 | 0 | 559 | 23 | 23 | 336 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Urban | 519 | 109 | 1,084 | 85 | 1,603 | 194 | 170 | 769 | 47 | 19 | 0 | 0 | 47 | 19 | 19 | 1 |
| **Total** | **5,266** | **2,620** | **2,674** | **128** | **7,363** | **2,747** | **1,965** | **15,309** | **47** | **19** | **0** | **0** | **47** | **19** | **19** | **1** |

### Cont. 5.113 Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District

| District | Mango | | | | | | | | Coconut | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Area of Plants/Trees/Bushes in Mono Crop (ha) | | Area Covered by Permanent Crop in Mixed Crop (ha) | | Total Area Planted (ha) Mono+Mixed Area | | Area harvested (ha) | Quantity harvested (tons) | Area of Plants/Trees/Bushes in Mono Crop (ha) | | Area Covered by Permanent Crop in Mixed Crop (ha) | | Total Area Planted (ha) Mono+Mixed Area | | Area harvested (ha) | Quantity harvested (tons) |
| | Number of households | Area | Number of households | Area | Number of households | Area | Area | tons | Number of households | Area | Number of households | Area | Number of households | Area | Area | tons |
| Mpanda | 353 | 104 | 706 | 86 | 706 | 190 | 151 | 423 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Rural | 450 | 266 | 1,801 | 123 | 2,251 | 388 | 278 | 1,559 | 0 | . | 225 | 5 | 225 | 5 | 0 | 0 |
| Nkasi | 0 | . | 223 | 6 | 223 | 6 | . | 63 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Urban | 0 | . | 47 | 18 | 47 | 18 | . | 47 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Total** | **803** | **370** | **2,777** | **233** | **3,227** | **603** | **430** | **2,092** | **0** | **.** | **225** | **5** | **225** | **5** | **0** | **0** |

**Cont. 5.113 Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District**

| District | Orange | | | | | | | | Sugar cane | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Area of Plants/Trees/Bushes in Mono Crop (ha) | | Area Covered by Permanent Crop in Mixed Crop (ha) | | Total Area Planted (ha) Mono+Mixed Area | | Area harvested (ha) | Quantity harvested (tons) | Area of Plants/Trees/Bushes in Mono Crop (ha) | | Area Covered by Permanent Crop in Mixed Crop (ha) | | Total Area Planted (ha) Mono+Mixed Area | | Area harvested (ha) | Quantity harvested (tons) |
| | Number of households | Area | Number of households | Area | Number of households | Area | Area | tons | Number of households | Area | Number of households | Area | Number of households | Area | Area | tons |
| Mpanda | 176 | 87 | 529 | 115 | 529 | 201 | 175 | 459 | 353 | 139 | 0 | . | 353 | 139 | 139 | 6,351 |
| Sumbawanga Rural | 225 | 89 | 0 | . | 225 | 89 | 89 | 11 | 675 | 782 | 450 | 102 | 1,126 | 883 | 581 | 11,807 |
| Nkasi | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 335 | 143 | 0 | . | 335 | 143 | 143 | 1,044 |
| Sumbawanga Urban | 0 | . | 189 | 101 | 189 | 101 | 12 | 52 | 707 | 213 | 94 | 22 | 754 | 236 | 214 | 7,625 |
| **Total** | **402** | **175** | **718** | **216** | **943** | **391** | **275** | **522** | **2,070** | **1,277** | **545** | **124** | **2,568** | **1,401** | **1,076** | **26,826** |

**Cont. 5.113 Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District**

| District | Palm oil | | | | | | | | Other | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Area of Plants/Trees/Bushes in Mono Crop (ha) | | Area Covered by Permanent Crop in Mixed Crop (ha) | | Total Area Planted (ha) Mono+Mixed Area | | Area harvested (ha) | Quantity harvested (tons) | Area of Plants/Trees/Bushes in Mono Crop (ha) | | Area Covered by Permanent Crop in Mixed Crop (ha) | | Total Area Planted (ha) Mono+Mixed Area | | Area harvested (ha) | Quantity harvested (tons) |
| | Number of households | Area | Number of households | Area | Number of households | Area | Area | tons | Number of households | Area | Number of households | Area | Number of households | Area | Area | tons |
| Mpanda | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | 10,231 | 4953 | 2,117 | 445 | 11,466 | 5398 | 4298 | 7098 |
| Sumbawanga Rural | 0 | 0 | 1,126 | 54 | 1,126 | 54 | 0 | 23 | 5,853 | 3967 | 4,727 | 3072 | 10,580 | 7,039 | 6246 | 13806 |
| Nkasi | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13,519 | 9256 | 2,235 | 796 | 15,642 | 10053 | 7697 | 30067 |
| Sumbawanga Urban | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 189 | 97 | 1,744 | 81 | 1,933 | 178 | 118 | 473 |
| **Total** | **0** | **0** | **1,126** | **54** | **1,126** | **54** | **0** | **0** | **29,792** | **18274** | **10,823** | **4394** | **39,622** | **22668** | **18360** | **51444** |

### 6.1 Number of Agriculture Households that used Agricultural Equipment/Asset by type and District for 2007/08 agriculture year

| District | Equipment/Asset Name | | | | | | | | | | | | Total number of Agricultural Households |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sword | | Hand Hoe | | Hand Sprayer | | Grater, Chiper, Oil Press na Oil Mill | | Oxplough | | Oxplanter | | |
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | |
| Mpanda | 63,505 | 88.9 | 70,738 | 99.0 | 4,763 | 6.7 | 353 | 0.5 | 6,880 | 9.6 | 353 | 0.5 | 71,443 |
| Sumbawanga Rural | 81,040 | 88.9 | 89,144 | 97.8 | 4,052 | 4.4 | 900 | 1.0 | 31,741 | 34.8 | 675 | 0.7 | 91,170 |
| Nkasi | 37,542 | 83.0 | 44,581 | 98.5 | 2,011 | 4.4 | 559 | 1.2 | 13,966 | 30.9 | 335 | 0.7 | 45,251 |
| Sumbawanga Urban | 16,122 | 87.7 | 18,244 | 99.2 | 2,451 | 13.3 | 189 | 1.0 | 6,600 | 35.9 | 94 | 0.5 | 18,385 |
| **Total** | **198,209** | **87.6** | **222,706** | **98.4** | **13,277** | **5.9** | **2,000** | **0.9** | **59,187** | **26.2** | **1,458** | **0.6** | **226,250** |

### Cont. 6.1 Number of Agriculture Households that used Agricultural Equipment/Asset by type and District for 2007/08 agriculture year

| District | Equipment/Asset Name | | | | | | | | | | | | Total number of Agricultural Households |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Ox cart | | Tractor | | Tractor plough | | Tractor Harrow | | Castrated bulls | | Uncastrated bulls | | |
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | |
| Mpanda | 2,822 | 4.0 | 0 | 0.0 | 0 | 0.0 | 353 | 0.5 | 5,998 | 8.4 | 3,175 | 4.4 | 71,443 |
| Sumbawanga Rural | 2,926 | 3.2 | 225 | 0.2 | 225 | 0.2 | 675 | 0.7 | 33,091 | 36.3 | 6,528 | 7.2 | 91,170 |
| Nkasi | 1,564 | 3.5 | 112 | 0.2 | 0 | 0.0 | 782 | 1.7 | 13,855 | 30.6 | 3,352 | 7.4 | 45,251 |
| Sumbawanga Urban | 519 | 2.8 | 47 | 0.3 | 0 | 0.0 | 330 | 1.8 | 6,883 | 37.4 | 1,744 | 9.5 | 18,385 |
| **Total** | **7,832** | **3.5** | **384** | **0.2** | **225** | **0.1** | **2,140** | **0.9** | **59,826** | **26.4** | **14,800** | **6.5** | **226,250** |

### Cont. 6.1 Number of Agriculture Households Used Agricultural Equipment/Asset by Type and District for 2007/08 agriculture year

| District | Equipment/Asset Name | | | | | | | | | | Total Number of Agricultural Households |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Cow | | Donkey | | Thrasher | | Power tiller | | Rigder | | |
| | Number | % | Number | % | Number | % | Number | % | Number | % | |
| Mpanda | 1,764 | 2.5 | 0 | 0.0 | 176 | 0.2 | 0 | 0.0 | 0 | 0.0 | 71,443 |
| Sumbawanga Rural | 11,030 | 12.1 | 2,476 | 2.7 | 0 | 0.0 | 225 | 0.2 | 1,351 | 1.5 | 91,170 |
| Nkasi | 3,352 | 7.4 | 670 | 1.5 | 223 | 0.5 | 223 | 0.5 | 782 | 1.7 | 45,251 |
| Sumbawanga Urban | 3,253 | 17.7 | 377 | 2.1 | 47 | 0.3 | 94 | 0.5 | 283 | 1.5 | 18,385 |
| **Total** | **19,399** | **8.6** | **3,524** | **1.6** | **447** | **0.2** | **543** | **0.2** | **2,416** | **1.1** | **226,250** |

### 6.2 Number of Agricultural Equipment/Asset owned by type and District for 2007/08 agriculture year

| District | Equipment/Asset Name | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Ox cart | | Tractor | | Tractor plough | | Tractor Harrow | | Castrated bulls | | Uncastrated bulls | |
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 2,822 | .5 | 0 | . | 0 | . | 882 | .2 | 35,281 | 6.7 | 7,762 | 1.5 |
| Sumbawanga Rural | 2,926 | .4 | 4,952 | .6 | 450 | .1 | 8,779 | 1.1 | 110,079 | 14.4 | 14,182 | 1.9 |
| Nkasi | 4,022 | 1.0 | 2,458 | .6 | 0 | . | 3,240 | .8 | 40,558 | 10.6 | 22,346 | 5.8 |
| Sumbawanga Urban | 1,556 | 1.1 | 1,037 | .7 | 0 | . | 660 | .4 | 17,914 | 12.2 | 4,196 | 2.9 |
| **Total** | **11,327** | **.6** | **8,448** | **.5** | **450** | **.0** | **13,562** | **.7** | **203,832** | **11.2** | **48,486** | **2.7** |

### Cont. 6.2 Number of Agricultural Equipment/Asset owned by type and District for 2007/08 agriculture year

| District | Equipment/Asset Name | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Cow | | Donkey | | Thrasher | | Power tiller | | Rigder | |
| | Number | % | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 29,636 | 5.6 | 0 | . | 3,881 | .7 | 0 | . | 0 | . |
| Sumbawanga Rural | 57,854 | 7.6 | 9,230 | 1.2 | 0 | . | 6,753 | .9 | 2,701 | .4 |
| Nkasi | 26,033 | 6.8 | 3,799 | 1.0 | 3,799 | 1.0 | 2,905 | .8 | 3,128 | .8 |
| Sumbawanga Urban | 10,183 | 6.9 | 613 | .4 | 1,037 | .7 | 1,131 | .8 | 1,367 | .9 |
| **Total** | **123,705** | **6.8** | **13,641** | **.7** | **8,717** | **.5** | **10,790** | **.6** | **7,197** | **.4** |

### 6.3 Number of Agricultural Households that Used Tractors/Draught animals to cultivate Land By Type and District for 2007/08 agriculture year

| District | Oxen | | Bulls | | Cows | | Donkeys | | Tractor | | Power Tiller | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 6,527 | 88.1 | 706 | 9.5 | 176 | 2.4 | 0 | .0 | 0 | .0 | 0 | 0.0 |
| Sumbawanga Rural | 44,797 | 90.9 | 1,801 | 3.7 | 1,801 | 3.7 | 675 | 1.4 | 225 | .5 | 0 | 0.0 |
| Nkasi | 21,787 | 96.5 | 447 | 2.0 | 223 | 1.0 | 112 | .5 | 0 | .0 | 0 | 0.0 |
| Sumbawanga Urban | 14,001 | 92.8 | 990 | 6.6 | 94 | .6 | 0 | .0 | 0 | .0 | 0 | 0.0 |
| **Total** | **87,113** | **92.32** | **3,943** | **4.18** | **2,295** | **2.43** | **787** | **0.83** | **225** | **0.24** | **0** | **0.00** |

### 6.4 Number of Tractors/Draught animals Owned by Type and District for 2007/08 agriculture year

| District | Oxen | | Bulls | | Cows | | Donkeys | | Tractor | | Power Tiller | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 36,163 | 57.6 | 2,117 | 3.4 | 19,228 | 30.6 | 0 | . | 0 | . | 5,292 | 8.4 |
| Sumbawanga Rural | 93,871 | 54.5 | 8,329 | 4.8 | 41,646 | 24.2 | 7,879 | 4.6 | 20,485 | 11.9 | 0 | . |
| Nkasi | 37,430 | 70.2 | 2,123 | 4.0 | 10,950 | 20.5 | 559 | 1.0 | 2,235 | 4.2 | 0 | . |
| Sumbawanga Urban | 15,651 | 66.5 | 2,121 | 9.0 | 5,468 | 23.2 | 283 | 1.2 | 0 | . | 0 | . |
| **Total** | **183,115** | **58.7** | **14,690** | **4.7** | **77,292** | **24.8** | **8,720** | **2.8** | **22,720** | **7.3** | **5,292** | **1.7** |

### 6.5 Number of Agriculture Households Reporting Use of Irrigation during 2007/08 Agricultural Year by District

| District | Households practicing irrigation | | Households not practicing irrigation | | Total Number of Households | |
|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % |
| Mpanda | 1,235 | 2 | 70,209 | 98 | 71,443 | 100 |
| Sumbawanga Rural | 7,654 | 8 | 83,516 | 92 | 91,170 | 100 |
| Nkasi | 894 | 2 | 44,357 | 98 | 45,251 | 100 |
| Sumbawanga Urban | 3,017 | 16 | 15,368 | 84 | 18,385 | 100 |
| **Total** | **12,800** | **6** | **213,450** | **94** | **226,250** | **100** |

### 6.6 Number of Agriculture Households using irrigation by Source of Irrigation Water by District during the 2007/08 agricultural Year

| District | Main Source of Irrigation Water | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | River | Borehole | Lake | Canal | Dam | Tap Water | Well | Total |
| Mpanda | 706 | 0 | 353 | 176 | 0 | 0 | 0 | 1,235 |
| Sumbawanga Rural | 6,303 | 0 | 0 | 225 | 0 | 225 | 0 | 6,753 |
| Nkasi | 559 | 0 | 0 | 223 | 0 | 0 | 0 | 782 |
| Sumbawanga Urban | 1,603 | 94 | 94 | 801 | 0 | 424 | 0 | 3,017 |
| **Total** | **9,170** | **94** | **447** | **1,426** | **0** | **649** | **0** | **11,787** |

### 6.7 Number of Agriculture Households by method of used to obtain water and District during 2007/08 agriculture year

| District | Main method of Obtaining Water | | | | | |
|---|---|---|---|---|---|---|
| | Gravity | Hand bucket | Hand pump | Motor pump | Other | Total |
| Mpanda | 706 | 353 | 0 | 176 | 0 | 1,235 |
| Sumbawanga Rural | 5,628 | 900 | 0 | 0 | 225 | 6,753 |
| Nkasi | 447 | 335 | 0 | 0 | 0 | 782 |
| Sumbawanga Urban | 1,367 | 1,226 | 47 | 94 | 283 | 3,017 |
| **Total** | **8,147** | **2,814** | **47** | **271** | **508** | **11,787** |

### 6.8 Number of Households with Soil Erosion Problem on their Land By District

| District | Have any erosion problem on their farming land | | Do not have any erosion problem on their farming land | | Total | |
|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % |
| Mpanda | 6,174 | 8.6 | 65,269 | 91.4 | 71,443 | 100.00 |
| Sumbawanga Rural | 17,784 | 19.5 | 73,386 | 80.5 | 91,170 | 100.00 |
| Nkasi | 7,821 | 17.3 | 37,430 | 82.7 | 45,251 | 100.00 |
| Sumbawanga Urban | 5,233 | 28.5 | 13,153 | 71.5 | 18,385 | 100.00 |
| **Total** | **37,012** | **16.4** | **189,238** | **83.6** | **226,250** | **100.00** |

### 6.9 Number of Households with Erosion Control/Water Harvesting Facilities on their Land By District

| District | Presence of Erosion Control/Water Harvesting Facilities | | | | | |
|---|---|---|---|---|---|---|
| | Have any erosion control/water harvesting facilities | | Do not have have any erosion control/water harvesting facilities | | Total | |
| | Number | % | Number | % | Number | % |
| Mpanda | 3,528 | 5 | 67,915 | 95 | 71,443 | 100 |
| Sumbawanga Rural | 10,805 | 12 | 80,365 | 88 | 91,170 | 100 |
| Nkasi | 4,134 | 9 | 41,117 | 91 | 45,251 | 100 |
| Sumbawanga Urban | 3,724 | 20 | 14,661 | 80 | 18,385 | 100 |
| **Total** | **22,192** | **10** | **204,058** | **90** | **226,250** | **100** |

### 6.10 Number of Erosion Control/Water Harvesting Structures by Type and District 2007/08 Agriculture Year

| District | Terraces | Erosion Control Bunds | Gabions / Sandbag | Vetiver Grass | Tree Belts | Water Harvesting Bunds | Drainage Ditches | Others |
|---|---|---|---|---|---|---|---|---|
| | 21,874 | 20,639 | 0 | 0 | 353 | 2,470 | 1,764 | 529 |
| Sumbawanga Rural | 6,303 | 23,186 | 1,801 | 0 | 0 | 25,888 | 4,952 | 1,801 |
| Nkasi | 2,458 | 7,486 | 0 | 2,346 | 0 | 112 | 223 | 0 |
| Sumbawanga Urban | 15,415 | 6,223 | 0 | 236 | 15,887 | 2,970 | 849 | 471 |
| **Total** | **46,051** | **57,534** | **1,801** | **2,582** | **16,240** | **31,439** | **7,788** | **2,802** |

**AGRICULTURE CREDITS**

### 7.1 Number of Agriculture Households Receiving Credit by District During the 2007/08 Agriculture Year

| District | Households Receiving Credit | | | | | |
|---|---|---|---|---|---|---|
| | Borrowed money for agriculture | | Did not borrow money for agriculture | | Total | |
| | Number | % | Number | % | Number | % |
| Mpanda | 5,116 | 7.2 | 66,328 | 92.8 | 71,443 | 100 |
| Sumbawanga Rural | 1,126 | 1.2 | 90,044 | 98.8 | 91,170 | 100 |
| Nkasi | 894 | 2.0 | 44,357 | 98.0 | 45,251 | 100 |
| Sumbawanga Urban | 141 | 0.8 | 18,244 | 99.2 | 18,385 | 100 |
| **Total** | **7,277** | **3.2** | **218,973** | **96.8** | **226,250** | **100** |

### 7.2 Number of Credits by Sex of the Household Member Receiving Credit from Source B and District During the 2007/08 Agriculture Year

| District | Male | | Female | | Total | |
|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % |
| Mpanda | 4,586 | 90 | 529 | 10 | 5,116 | 100 |
| Sumbawanga Rural | 900 | 80 | 225 | 20 | 1,126 | 100 |
| Nkasi | 559 | 63 | 335 | 38 | 894 | 100 |
| Sumbawanga Urban | 141 | 100 | 0 | 0 | 141 | 100 |
| **Total** | **6,187** | **85** | **1,090** | **15** | **7,277** | **100** |

### 7.3 Number of Households Receiving Credits by Main Source of Credit A and District During the 2007/08 Agriculture Year

| District | Family, friend or relative | | Bank | | Cooperative | | Savings & credit Soc | | Trader/trade store | | Private individual | | NGO/Development Project | | Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 882 | 17.2 | 176 | 3.4 | 3,528 | 69.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 529 | 10.3 | 5,116 | 100 |
| Sumbawanga Rural | 450 | 40.0 | 0 | 0.0 | 0 | 0.0 | 225 | 20.0 | 225 | 20.0 | 225 | 20.0 | 0 | 0.0 | 1,126 | 100 |
| Nkasi | 335 | 37.5 | 335 | 37.5 | 112 | 12.5 | 0 | 0.0 | 112 | 12.5 | 0 | 0.0 | 0 | 0.0 | 894 | 100 |
| Sumbawanga Urban | 94 | 66.7 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 47 | 33.3 | 141 | 100 |
| **Total** | **1,762** | **24.2** | **512** | **7.0** | **3,640** | **50.0** | **225** | **3.1** | **337** | **4.6** | **225** | **3.1** | **576** | **7.9** | **7,277** | **100** |

### 7.4 Number of Households Reporting the Main Reasons for Not Using Credit by District During the 2007/08 Agriculture Year

| District | Not needed | | Not available | | Did not want to go into debt | | Interest rate/cost too high | | Did not know how to get credit | | Difficult bureaucratic procedure | | Credit granted too late | | Other (specify) | | Don't know about credit | | Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 3,881 | 5.9 | 5,998 | 9.0 | 4,763 | 7.2 | 1,588 | 2.4 | 31,753 | 47.9 | 3,175 | 4.8 | 176 | 0.3 | 1,411 | 2.1 | 13,583 | 20.5 | 66,328 | 100 |
| Sumbawanga Rural | 5,178 | 5.7 | 33,767 | 37.5 | 21,836 | 24.2 | 2,701 | 3.0 | 10,805 | 12.0 | 1,576 | 1.7 | 450 | 0.5 | 225 | 0.2 | 13,507 | 15.0 | 90,044 | 100 |
| Nkasi | 4,357 | 9.8 | 11,173 | 25.2 | 4,134 | 9.3 | 1,899 | 4.3 | 12,402 | 28.0 | 1,788 | 4.0 | 782 | 1.8 | 112 | 0.3 | 7,709 | 17.4 | 44,357 | 100 |
| Sumbawanga Urban | 1,980 | 10.9 | 3,064 | 16.8 | 4,101 | 22.5 | 990 | 5.4 | 3,866 | 21.2 | 1,461 | 8.0 | 801 | 4.4 | 0 | 0.0 | 1,980 | 10.9 | 18,244 | 100 |
| **Total** | **15,396** | **7.0** | **54,002** | **24.7** | **34,834** | **15.9** | **7,178** | **3.3** | **58,826** | **26.9** | **8,000** | **3.7** | **2,210** | **1.0** | **1,748** | **0.8** | **36,779** | **16.8** | **218,973** | **100** |

### 7.5 Number of Households Receiving Credits by Main Source of credit B and District During the 2007/08 Agriculture Year

| District | Family, friend or relative | | Bank | | Cooperative | | Savings & credit Soc | | Trader/trade store | | Private individual | | NGO/Development Project | | Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 176 | 16.7 | 0 | 0.0 | 0 | 0.0 | 176 | 16.7 | 176 | 16.7 | 353 | 33.3 | 176 | 16.7 | 1,058 | 100 |
| Sumbawanga Rural | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 0 | 0 |
| Nkasi | 0 | 0.0 | 335 | 60.0 | 0 | 0.0 | 223 | 40.0 | 0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 | 559 | 100 |
| Sumbawanga Urban | 47 | 50.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 47 | 50.0 | 0.0 | 0.0 | 94 | 100 |
| **Total** | **224** | **13.1** | **335** | **19.6** | **0** | **0.0** | **400** | **23.4** | **176** | **10.3** | **400** | **23.4** | **176** | **10.3** | **1,711** | **100** |

### 7.6 Number of Households receiving Credits by Main Source of Credit C and District During the 2007/08 Agriculture Year

| District | Family, friend or relative | | Bank | | Trader/trade store | | Private individual | | NGO/Development Project | | Others | | Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 0 | 0.0 | 176 | 20.0 | 176 | 20.0 | 176 | 20.0 | 353 | 40.0 | 0 | 0.0 | 882 | 100 |
| Sumbawanga Rural | 225 | 100.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 225 | 100 |
| Nkasi | 112 | 25.0 | 223 | 50.0 | 112 | 25.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 447 | 100 |
| Sumbawanga Urban | 47 | 50.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 47 | 50.0 | 94 | 100 |
| **Total** | **384** | **23.3** | **400** | **24.3** | **288** | **17.5** | **176** | **10.7** | **353** | **21.4** | **47** | **2.9** | **1,648** | **100** |

### 7.7 Provision of credit A by sex and District During the 2007/08 Agriculture Year

| District | Male | | Female | | Total | |
|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % |
| Mpanda | 4,586 | 90 | 529 | 10 | 5,116 | 100 |
| Sumbawanga Rural | 900 | 80 | 225 | 20 | 1,126 | 100 |
| Nkasi | 559 | 63 | 335 | 38 | 894 | 100 |
| Sumbawanga Urban | 141 | 100 | 0 | 0 | 141 | 100 |
| **Total** | **6,187** | **85** | **1,090** | **15** | **7,277** | **100** |

### 7.8 Provision of credit B by sex and District During the 2007/08 Agriculture Year

| District | Male | | Female | | Total | |
|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % |
| Mpanda | 1,058 | 100 | 0 | 0 | 1,058 | 100 |
| Sumbawanga Rural | 0 | 0 | 0 | 0 | 0 | 0 |
| Nkasi | 335 | 60 | 223 | 40 | 559 | 100 |
| Sumbawanga Urban | 47 | 100 | 0 | 0 | 47 | 100 |
| **Total** | **1,441** | **87** | **223** | **13** | **1,664** | **100** |

### 7.9 Provision of credit C by sex and District During the 2007/08 Agriculture Year

| District | Male | | Female | | Total | |
|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % |
| Mpanda | 882 | 100 | 0 | 0 | 882 | 100 |
| Sumbawanga Rural | 0 | 0 | 0 | 0 | 0 | 100 |
| Nkasi | 447 | 80 | 112 | 20 | 559 | 100 |
| Sumbawanga Urban | 47 | 100 | 0 | 0 | 47 | 100 |
| **Total** | **1,376** | **92** | **112** | **8** | **1,488** | **100** |

## CROP EXTENSION SERVICES

### 8.1 Number of Agriculture Households Received Crop Advice During the 2007/08 Agriculture Year

| District | Households that received Crop Advices | | Households that did NOT receive Crop advices | | Crop Growing Households |
|---|---|---|---|---|---|
| | Number | % | Number | % | |
| Mpanda | 36,868 | 51.6 | 34,575 | 48.4 | 71,443 |
| Sumbawanga Rural | 42,996 | 47.3 | 47,949 | 52.7 | 90,945 |
| Nkasi | 17,095 | 37.8 | 28,156 | 62.2 | 45,251 |
| Sumbawanga Urban | 13,200 | 72.0 | 5,138 | 28.0 | 18,338 |
| **Total** | **110,159** | **48.7** | **115,818** | **51.3** | **225,977** |

### 8.2 Number of Agriculture Households Participated in Out Grower Agreement During the 2007/08 Agriculture Year

| District | Number of Households Participated in Out Grower Agreement | | Number of Households NOT Participated in Out Grower Agreement | | Total Number of Households | |
|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % |
| Mpanda | 3,175 | 4.4 | 68,268 | 95.6 | 71,443 | 100 |
| Sumbawanga Rural | 450 | 0.5 | 90,720 | 99.5 | 91,170 | 100 |
| Nkasi | 447 | 1.0 | 44,804 | 99.0 | 45,251 | 100 |
| Sumbawanga Urban | 47 | 0.3 | 18,338 | 99.7 | 18,385 | 100 |
| **Total** | **4,120** | **1.8** | **222,130** | **98.2** | **226,250** | **100** |

### 8.3 Number of Agriculture Households Participated in Contract Production Agreement During the 2007/08

| District | Number of Households Participated in Production Agreement | | Number of Households NOT Participated in Production Agreement | | Total Number of Households | |
|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % |
| Mpanda | 2,822 | 4.0 | 68,621 | 96.0 | 71,443 | 100 |
| Sumbawanga Rural | 450 | 0.5 | 90,720 | 99.5 | 91,170 | 100 |
| Nkasi | 670 | 1.5 | 44,581 | 98.5 | 45,251 | 100 |
| Sumbawanga Urban | 94 | 0.5 | 18,291 | 99.5 | 18,385 | 100 |
| **Total** | **4,037** | **1.8** | **222,212** | **98.2** | **226,250** | **100** |

### 8.4 Number of Agriculture Households By Source of Extension Messages By District During the 2007/08 Agriculture Year

| District | Government | | NGO/Dev project | | Cooperative | | Large scale farmer | | Radio/Television/News paper | | Neighbor | | Other (Specify) | | Total Households that received advices |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | |
| Mpanda | 23,285 | 63.2 | 7,233 | 19.6 | 2,646 | 7.2 | 1,235 | 3.3 | 4,939 | 13.4 | 10,937 | 29.7 | 1,235 | 3.3 | 36,868 |
| Sumbawanga Rural | 36,468 | 84.8 | 1,801 | 4.2 | 0 | 0.0 | 2,476 | 5.8 | 11,481 | 26.7 | 8,329 | 19.4 | 900 | 2.1 | 42,996 |
| Nkasi | 15,531 | 90.8 | 894 | 5.2 | 223 | 1.3 | 894 | 5.2 | 447 | 2.6 | 2,793 | 16.3 | 112 | 0.7 | 17,095 |
| Sumbawanga Urban | 9,193 | 69.6 | 1,226 | 9.3 | 283 | 2.1 | 1,414 | 10.7 | 2,781 | 21.1 | 5,138 | 38.9 | 613 | 4.6 | 13,200 |
| **Total** | **84,476** | **76.7** | **11,153** | **10.1** | **3,152** | **2.9** | **6,019** | **5.5** | **19,648** | **17.8** | **27,198** | **24.7** | **2,860** | **2.6** | **110,159** |

### 8.5 Number of households receiving extension advice on Spacing by District during the 2007/08 agriculture year

| `District | Source of Crop Extension | | | | | | | | | | | | | | Total Number of Households |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Government | | NGO/Dev project | | Cooperative | | Large scale farmer | | Radio/Television/Newspaper | | Neighbor | | Other (Specify) | | |
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | |
| Mpanda | 16,229 | 55.1 | 5,292 | 18.0 | 1,764 | 6.0 | 706 | 2.4 | 882 | 3.0 | 4,234 | 14.4 | 353 | 1.2 | 29,459 |
| Sumbawanga Rural | 25,663 | 78.1 | 900 | 2.7 | 0 | 0.0 | 450 | 1.4 | 4,052 | 12.3 | 1,801 | 5.5 | 0 | 0.0 | 32,866 |
| Nkasi | 11,285 | 88.6 | 112 | 0.9 | 0 | 0.0 | 0 | 0.0 | 223 | 1.8 | 1,117 | 8.8 | 0 | 0.0 | 12,737 |
| Sumbawanga Urban | 5,751 | 66.3 | 236 | 2.7 | 0 | 0.0 | 660 | 7.6 | 660 | 7.6 | 1,320 | 15.2 | 47 | 0.5 | 8,674 |
| **Total** | **58,928** | **70.4** | **6,540** | **7.8** | **1,764** | **2.1** | **1,816** | **2.2** | **5,817** | **6.9** | **8,472** | **10.1** | **400** | **0.5** | **83,737** |

### 8.6 Number of households receiving extension advice on Use of Agrochemicals by District during the 2007/08 agriculture year

| District | Source of Crop Extension | | | | | | | | | | | | | | Total Number of Households |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Government | | NGO/Dev project | | Cooperative | | Large scale farmer | | Radio/Television/NewsPaper | | Neighbour | | Other (Specify) | | |
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | |
| Mpanda | 9,173 | 54.7 | 4,410 | 26.3 | 1,940 | 11.6 | 176 | 1.1 | 353 | 2.1 | 353 | 2.1 | 353 | 2.1 | 16,758 |
| Sumbawanga Rural | 21,386 | 74.8 | 450 | 1.6 | 0 | 0.0 | 450 | 1.6 | 3,827 | 13.4 | 2,251 | 7.9 | 225 | 0.8 | 28,589 |
| Nkasi | 5,810 | 88.1 | 447 | 6.8 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 335 | 5.1 | 0 | 0.0 | 6,592 |
| Sumbawanga Urban | 4,903 | 54.2 | 707 | 7.8 | 0 | 0.0 | 613 | 6.8 | 519 | 5.7 | 1,980 | 21.9 | 330 | 3.6 | 9,051 |
| **Total** | **41,271** | **67.7** | **6,014** | **9.9** | **1,940** | **3.2** | **1,239** | **2.0** | **4,698** | **7.7** | **4,919** | **8.1** | **908** | **1.5** | **60,991** |

### 8.7 Number of households receiving extension advice on Erosion Control by District during the 2007/08 agriculture year

| District | Source of Crop Extension | | | | | | | | | | | | | | Total Number of Households |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Government | | NGO/Dev project | | Cooperative | | Large scale farmer | | Radio/Television/NewsPaper | | Neighbour | | Other (Specify) | | |
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | |
| Mpanda | 8,467 | 69.6 | 2,293 | 18.8 | 176 | 1.4 | 176 | 1.4 | 882 | 7.2 | 0 | 0.0 | 176 | 1.4 | 12,172 |
| Sumbawanga Rural | 13,732 | 72.6 | 0 | 0.0 | 0 | 0.0 | 450 | 2.4 | 3,377 | 17.9 | 1,351 | 7.1 | 0 | 0.0 | 18,909 |
| Nkasi | 5,922 | 86.9 | 112 | 1.6 | 0 | 0.0 | 112 | 1.6 | 0 | 0.0 | 559 | 8.2 | 112 | 1.6 | 6,816 |
| Sumbawanga Urban | 4,101 | 71.9 | 330 | 5.8 | 0 | 0.0 | 330 | 5.8 | 424 | 7.4 | 424 | 7.4 | 94 | 1.7 | 5,704 |
| **Total** | **32,222** | **73.9** | **2,735** | **6.3** | **176** | **0.4** | **1,068** | **2.5** | **4,683** | **10.7** | **2,334** | **5.4** | **382** | **0.9** | **43,601** |

### 8.8 Number of households receiving extension advice on Organic Fertlizer use by District during the 2007/08 agriculture year

| District | Source of Crop Extension | | | | | | | | | | | | | | Total Number of Households |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Government | | NGO/Dev project | | Cooperative | | Large scale farmer | | Radio/Television/NewsPaper | | Neighbour | | Other (Specify) | | |
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | |
| Mpanda | 9,702 | 76.4 | 1,588 | 12.5 | 0 | 0.0 | 353 | 2.8 | 706 | 5.6 | 353 | 2.8 | 0 | 0.0 | 12,701 |
| Sumbawanga Rural | 23,186 | 76.3 | 0 | 0.0 | 0 | 0.0 | 900 | 3.0 | 2,476 | 8.1 | 3,827 | 12.6 | 0 | 0.0 | 30,390 |
| Nkasi | 8,492 | 91.6 | 112 | 1.2 | 0 | 0.0 | 112 | 1.2 | 0 | 0.0 | 559 | 6.0 | 0 | 0.0 | 9,274 |
| Sumbawanga Urban | 5,516 | 59.4 | 283 | 3.0 | 47 | 0.5 | 471 | 5.1 | 519 | 5.6 | 2,451 | 26.4 | 0 | 0.0 | 9,287 |
| **Total** | **46,896** | **76.1** | **1,982** | **3.2** | **47** | **0.1** | **1,836** | **3.0** | **3,700** | **6.0** | **7,190** | **11.7** | **0** | **0.0** | **61,652** |

### 8.9 Number of households receiving extension advice on use of Inorganic Fertilizer by District during the 2007/08 agriculture year

| District | Source of Crop Extension | | | | | | | | | | | | | | Total Number of Households |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Government | | NGO/Dev project | | Cooperative | | Large scale farmer | | Radio/Television/NewsPaper | | Neighbour | | Other (Specify) | | |
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | |
| Mpanda | 14,641 | 60.6 | 5,116 | 21.2 | 1,764 | 7.3 | 176 | 0.7 | 706 | 2.9 | 1,235 | 5.1 | 529 | 2.2 | 24,167 |
| Sumbawanga Rural | 24,312 | 82.4 | 0 | 0.0 | 0 | 0.0 | 225 | 0.8 | 2,926 | 9.9 | 2,026 | 6.9 | 0 | 0.0 | 29,490 |
| Nkasi | 8,938 | 94.1 | 223 | 2.4 | 112 | 1.2 | 223 | 2.4 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 9,497 |
| Sumbawanga Urban | 5,138 | 66.1 | 424 | 5.5 | 94 | 1.2 | 330 | 4.2 | 471 | 6.1 | 1,226 | 15.8 | 94 | 1.2 | 7,778 |
| **Total** | **53,030** | **74.8** | **5,763** | **8.1** | **1,970** | **2.8** | **955** | **1.3** | **4,103** | **5.8** | **4,487** | **6.3** | **623** | **0.9** | **70,932** |

### 8.10 Number of households receiving extension advice on Use of Improved Seeds by District during the 2007/08 agriculture year

| District | Source of Crop Extension | | | | | | | | | | | | | | Total Number of Households |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Government | | NGO/Dev project | | Cooperative | | Large scale farmer | | Radio/Television/NewsPaper | | Neighbour | | Other (Specify) | | |
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | |
| Mpanda | 15,876 | 65.2 | 2,470 | 10.1 | 1,411 | 5.8 | 176 | 0.7 | 2,470 | 10.1 | 1,588 | 6.5 | 353 | 1.4 | 24,344 |
| Sumbawanga Rural | 26,338 | 80.7 | 225 | 0.7 | 0 | 0.0 | 450 | 1.4 | 4,052 | 12.4 | 1,351 | 4.1 | 225 | 0.7 | 32,641 |
| Nkasi | 9,832 | 93.6 | 223 | 2.1 | 0 | 0.0 | 112 | 1.1 | 112 | 1.1 | 223 | 2.1 | 0 | 0.0 | 10,503 |
| Sumbawanga Urban | 5,327 | 65.7 | 283 | 3.5 | 0 | 0.0 | 566 | 7.0 | 754 | 9.3 | 943 | 11.6 | 236 | 2.9 | 8,108 |
| **Total** | **57,374** | **75.9** | **3,201** | **4.2** | **1,411** | **1.9** | **1,304** | **1.7** | **7,388** | **9.8** | **4,105** | **5.4** | **814** | **1.1** | **75,596** |

### 8.11 Number of households receiving extension advice on Mechanization and Labor Saving Technologies by District during the 2007/08 agriculture year

| District | Source of Crop Extension | | | | | | | | | | | | | | Total Number of Households |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Government | | NGO/Dev project | | Cooperative | | Large scale farmer | | Radio/Television/NewsPaper | | Neighbour | | Other (Specify) | | |
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | |
| Mpanda | 12,877 | 76.8 | 1,411 | 8.4 | 353 | 2.1 | 176 | 1.1 | 882 | 5.3 | 706 | 4.2 | 353 | 2.1 | 16,758 |
| Sumbawanga Rural | 17,108 | 73.1 | 450 | 1.9 | 0 | 0.0 | 900 | 3.8 | 3,377 | 14.4 | 1,576 | 6.7 | 0 | 0.0 | 23,412 |
| Nkasi | 7,598 | 88.3 | 0 | 0.0 | 0 | 0.0 | 223 | 2.6 | 112 | 1.3 | 559 | 6.5 | 112 | 1.3 | 8,603 |
| Sumbawanga Urban | 4,856 | 64.8 | 377 | 5.0 | 141 | 1.9 | 566 | 7.5 | 613 | 8.2 | 896 | 11.9 | 47 | 0.6 | 7,496 |
| **Total** | **42,439** | **75.4** | **2,239** | **4.0** | **494** | **0.9** | **1,866** | **3.3** | **4,983** | **8.9** | **3,736** | **6.6** | **512** | **0.9** | **56,269** |

### 8.12 Number of households receiving extension advice on Irrigation Technologies by District during the 2007/08 agriculture year

| District | Source of Crop Extension | | | | | | | | | | | | | | Total Number of Households |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Government | | NGO/Dev project | | Cooperative | | Large scale farmer | | Radio/Television/NewsPaper | | Neighbour | | Other (Specify) | | |
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | |
| Mpanda | 8,291 | 85.5 | 529 | 5.5 | 0 | 0.0 | 0 | 0.0 | 706 | 7.3 | 176 | 1.8 | 0 | 0.0 | 9,702 |
| Sumbawanga Rural | 8,779 | 65.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 3,152 | 23.3 | 1,576 | 11.7 | 0 | 0.0 | 13,507 |
| Nkasi | 2,458 | 84.6 | 0 | 0.0 | 0 | 0.0 | 112 | 3.8 | 0 | 0.0 | 335 | 11.5 | 0 | 0.0 | 2,905 |
| Sumbawanga Urban | 3,724 | 60.3 | 283 | 4.6 | 0 | 0.0 | 566 | 9.2 | 519 | 8.4 | 943 | 15.3 | 141 | 2.3 | 6,176 |
| **Total** | **23,253** | **72.0** | **812** | **2.5** | **0** | **0.0** | **677** | **2.1** | **4,376** | **13.6** | **3,030** | **9.4** | **141** | **0.4** | **32,289** |

### 8.13 Number of households receiving extension advice on Crop Storage by District during the 2007/08 agriculture year

| District | Source of Crop Extension | | | | | | | | | | | | | | Total Number of Households |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Government | | NGO/Dev project | | Cooperative | | Large scale farmer | | Radio/Television/NewsPaper | | Neighbour | | Other (Specify) | | |
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | |
| Mpanda | 14,112 | 60.2 | 1,940 | 8.3 | 176 | 0.8 | 176 | 0.8 | 353 | 1.5 | 6,174 | 26.3 | 529 | 2.3 | 23,462 |
| Sumbawanga Rural | 17,784 | 75.2 | 0 | 0.0 | 0 | 0.0 | 450 | 1.9 | 2,701 | 11.4 | 2,476 | 10.5 | 225 | 1.0 | 23,637 |
| Nkasi | 9,385 | 93.3 | 112 | 1.1 | 0 | 0.0 | 223 | 2.2 | 0 | 0.0 | 223 | 2.2 | 112 | 1.1 | 10,056 |
| Sumbawanga Urban | 4,761 | 63.1 | 330 | 4.4 | 47 | 0.6 | 471 | 6.2 | 330 | 4.4 | 1,461 | 19.4 | 141 | 1.9 | 7,543 |
| **Total** | **46,043** | **71.2** | **2,382** | **3.7** | **224** | **0.3** | **1,322** | **2.0** | **3,384** | **5.2** | **10,335** | **16.0** | **1,007** | **1.6** | **64,697** |

### 8.14 Number of households receiving extension advice on Vermin Control by District during the 2007/08 agriculture year

| District | Source of Crop Extension | | | | | | | | | | | | | | Total Number of Households |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Government | | NGO/Dev project | | Cooperative | | Large scale farmer | | Radio/Television/NewsPaper | | Neighbour | | Other (Specify) | | |
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | |
| Mpanda | 9,702 | 71.4 | 1,411 | 10.4 | 0 | 0.0 | 353 | 2.6 | 353 | 2.6 | 1,588 | 11.7 | 176 | 1.3 | 13,583 |
| Sumbawanga Rural | 13,732 | 76.3 | 0 | 0.0 | 0 | 0.0 | 450 | 2.5 | 2,026 | 11.3 | 1,576 | 8.7 | 225 | 1.3 | 18,009 |
| Nkasi | 5,363 | 90.6 | 112 | 1.9 | 0 | 0.0 | 112 | 1.9 | 0 | 0.0 | 335 | 5.7 | 0 | 0.0 | 5,922 |
| Sumbawanga Urban | 3,866 | 64.6 | 283 | 4.7 | 47 | 0.8 | 519 | 8.7 | 377 | 6.3 | 707 | 11.8 | 189 | 3.1 | 5,987 |
| **Total** | **32,663** | **75.1** | **1,806** | **4.2** | **47** | **0.1** | **1,433** | **3.3** | **2,756** | **6.3** | **4,206** | **9.7** | **590** | **1.4** | **43,501** |

**CATTLE PRODUCTION**

### 9.1 Total Number of Households Rearing Cattle by District during 2007/08 Agriculture Year

| District | Households rearing cattle | | Households not rearing cattle | | Total Agriculture households | Total Number of Households Rearing Livestock |
|---|---|---|---|---|---|---|
| | Number | % | Number | % | | |
| Mpanda | 8,997 | 12.6 | 62,447 | 87.4 | 71,443 | 48,511 |
| Sumbawanga Rural | 37,143 | 40.7 | 54,027 | 59.3 | 91,170 | 74,062 |
| Nkasi | 14,413 | 31.9 | 30,838 | 68.1 | 45,251 | 32,290 |
| Sumbawanga Urban | 8,391 | 45.6 | 9,994 | 54.4 | 18,385 | 14,991 |
| **Total** | **68,944** | **30.5** | **157,305** | **69.5** | **226,250** | **169,854** |

### 9.2 Number of Cattle by Type and District as of 1st October 2008

| District | Indigenous | | | Improved Beef | | | Improved Dairy | | | Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of households | Number of Cattle | Percentage | Number of households | Number of Cattle | % | Number of households | Number of Cattle | % | Number of households | Number of Cattle | % |
| Mpanda | 8,467 | 254,903 | 99.2 | 0 | 0 | 0.0 | 882 | 1,940 | 0.8 | 9,349 | 256,844 | 100 |
| Sumbawanga Rural | 36,918 | 314,930 | 99.6 | 225 | 450 | 0.1 | 450 | 900 | 0.3 | 37,594 | 316,281 | 100 |
| Nkasi | 14,190 | 183,574 | 99.8 | 112 | 112 | 0.1 | 223 | 223 | 0.1 | 14,525 | 183,909 | 100 |
| Sumbawanga Urban | 8,156 | 46,293 | 97.7 | 0 | 0 | 0.0 | 471 | 1,084 | 2.3 | 8,627 | 47,377 | 100 |
| **Total** | **67,731** | **799,700** | **99.4** | **337** | **562** | **0.1** | **2,027** | **4,149** | **0.5** | **70,095** | **804,411** | **100** |

### 9.3 Number of Households rearing cattle, Head of Cattle and Average Head per Household by Herd size During the 2007/08 Agricultural Year - RUKWA

| Herd size | Cattle Rearing Households | % | Herd of Cattle | Average Per Houseold |
|---|---|---|---|---|
| 1 - 5 | 41,800 | 60.6 | 112,481 | 2.7 |
| 6 - 10 | 13,063 | 18.9 | 103,262 | 7.9 |
| 11 - 15 | 3,458 | 5.0 | 45,884 | 13.3 |
| 16 - 20 | 2,945 | 4.3 | 52,272 | 17.7 |
| 21 - 30 | 2,756 | 4.0 | 69,695 | 25.3 |
| 31 - 40 | 1,091 | 1.6 | 37,674 | 34.5 |
| 41 - 50 | 402 | 0.6 | 19,194 | 47.8 |
| 51 - 60 | 623 | 0.9 | 34,936 | 56.0 |
| 61 -100 | 1,428 | 2.1 | 109,386 | 76.6 |
| 101 -150 | 978 | 1.4 | 127,070 | 130.0 |
| 151+ | 400 | 0.6 | 92,557 | 231.5 |
| **Total** | **68,944** | **100.0** | **804,411** | **11.7** |

### 9.4 Number of Cattle by Cattle Types and Category, 2007/08 Agricultural Year- RUKWA

| Cattle Types | Indigeneous | Improved Beef | Improved Diary | Total Cattle | % |
|---|---|---|---|---|---|
| Castrated Bulls (Oxen) | 217,334 | 0 | 347 | 217,682 | 35 |
| Uncastrated Bulls | 76,154 | 0 | 639 | 76,793 | 14 |
| Cows | 254,775 | 450 | 2,350 | 257,575 | 21 |
| Steers | 10,260 | 0 | 47 | 10,307 | 2 |
| Heifers | 77,290 | 0 | 224 | 77,514 | 8 |
| Male Calves | 72,193 | 0 | 94 | 72,288 | 9 |
| Female Calves | 91,694 | 112 | 447 | 92,252 | 11 |
| **Total** | **799,700** | **562** | **4,149** | **804,411** | **100** |

### 9.5 Number of indigenous Cattle by Category of cattle and District During the 2007/08 Agricultural Year

| District | Cattle Type | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Castrated Bulls (Oxen) | | Uncastrated Bulls | | Cows | | Steers | | Heifers | | Male Calves | | Female Calves | | Total | |
| | Total Cattle | % | Total Cattle | % | Total Cattle | % | Total Cattle | % | Total Cattle | % | Total Cattle | % | Total Cattle | % | Total Cattle | % |
| Mpanda | 42,160 | 17 | 22,932 | 9 | 84,850 | 33 | 3,881 | 2 | 35,634 | 14 | 29,283 | 11 | 36,163 | 14 | 254,903 | 100 |
| Sumbawanga Rural | 112,555 | 36 | 27,914 | 9 | 94,096 | 30 | 3,602 | 1 | 24,762 | 8 | 20,035 | 6 | 31,966 | 10 | 314,930 | 100 |
| Nkasi | 44,469 | 24 | 20,782 | 11 | 62,346 | 34 | 1,788 | 1 | 14,302 | 8 | 20,000 | 11 | 19,888 | 11 | 183,574 | 100 |
| Sumbawanga Urban | 18,150 | 39 | 4,526 | 10 | 13,483 | 29 | 990 | 2 | 2,593 | 6 | 2,876 | 6 | 3,677 | 8 | 46,293 | 100 |
| **Total** | **217,334** | **27** | **76,154** | **10** | **254,775** | **32** | **10,260** | **1** | **77,290** | **10** | **72,193** | **9** | **91,694** | **11** | **799,700** | **100** |

### 9.1.6 Number of Improved Beef Cattle by Category of cattle and District During the 2007/08 Agricultural Year

| District | Cattle Type | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Castrated Bulls (Oxen) | | Uncastrated Bulls | | Cows | | Steers | | Heifers | | Male Calves | | Female Calves | | Total | |
| | Total Cattle | % | Total Cattle | % | Total Cattle | % | Total Cattle | % | Total Cattle | % | Total Cattle | % | Total Cattle | % | Total Cattle | % |
| Mpanda | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 |
| Sumbawanga Rural | 0 | 0 | 0 | 0 | 450 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 450 | 100 |
| Nkasi | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 112 | 100 | 112 | 100 |
| Sumbawanga Urban | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 |
| **Total** | **0** | **0** | **0** | **0** | **450** | **80** | **0** | **0** | **0** | **0** | **0** | **0** | **112** | **20** | **562** | **100** |

### 9.7 Number of Improved Diary Cattle by Category of cattle and District During the 2007/08 Agricultural Year

| District | Cattle Type | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Castrated Bulls (Oxen) | | Uncastrated Bulls | | Cows | | Steers | | Heifers | | Male Calves | | Female Calves | | Total | |
| | Total Cattle | % | Total Cattle | % | Total Cattle | % | Total Cattle | % | Total Cattle | % | Total Cattle | % | Total Cattle | % | Total Cattle | % |
| Mpanda | 0 | 0 | 0 | 0 | 1,411 | 73 | 0 | 0 | 176 | 9 | 0 | 0 | 353 | 18 | 1,940 | 100 |
| Sumbawanga Rural | 0 | 0 | 450 | 50 | 450 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 900 | 100 |
| Nkasi | 112 | 50 | 0 | 0 | 112 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 223 | 100 |
| Sumbawanga Urban | 236 | 22 | 189 | 17 | 377 | 35 | 47 | 4 | 47 | 4 | 94 | 9 | 94 | 9 | 1,084 | 100 |
| **Total** | **347** | **8** | **639** | **15** | **2,350** | **57** | **47** | **1** | **224** | **5** | **94** | **2** | **447** | **11** | **4,149** | **100** |

### 9.8 Number of Households rearing Cattle and Method of Cattle Identification by District during, 2007/08 Agricultural Year

| District | Branding | | Cattle Clan | | Ear notching | | Colour | | Earings | | Others | | Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 5,292 | 59 | 706 | 8 | 1,235 | 14 | 1,235 | 14 | 353 | 4 | 176 | 2 | 8,997 | 100 |
| Sumbawanga Rural | 7,204 | 19 | 2,701 | 7 | 1,351 | 4 | 25,888 | 69 | 0 | 0 | 225 | 1 | 37,368 | 100 |
| Nkasi | 3,464 | 24 | 670 | 5 | 447 | 3 | 9,497 | 65 | 0 | 0 | 559 | 4 | 14,637 | 100 |
| Sumbawanga Urban | 377 | 4 | 613 | 7 | 754 | 9 | 6,176 | 74 | 330 | 4 | 141 | 2 | 8,391 | 100 |
| **Total** | **16,336** | **24** | **4,690** | **7** | **3,787** | **5** | **42,795** | **62** | **683** | **1** | **1,102** | **2** | **69,393** | **100** |

**CATTLE MILK PRODUCTION**

### 9.9 Number of Milked Cows by Category of Cattle, Season and District, During the 2007/08 Agricultural Year

| District | Wet Season | | | Dry Season | | |
|---|---|---|---|---|---|---|
| | Improved Breed | Indigenous | Total | Improved Breed | Indigenous | Total |
| Mpanda | 529 | 50,804 | 51,333 | 529 | 44,983 | 45,512 |
| Sumbawanga Rural | 450 | 36,243 | 36,693 | 0 | 22,736 | 22,736 |
| Nkasi | 223 | 37,318 | 37,542 | 223 | 40,558 | 40,782 |
| Sumbawanga Urban | 424 | 3,347 | 3,771 | 377 | 3,394 | 3,771 |
| **Total** | **1,627** | **127,712** | **129,339** | **1,130** | **111,672** | **112,801** |

### 9.10 Average milk production per cow per day, by Category of Cow, Season and District, During the 2007/08 Agricultural Year

| District | Wet Season | | | Dry Season | | |
|---|---|---|---|---|---|---|
| | Improved Breed | Indigenous | Total | Improved Breed | Indigenous | Total |
| | Mean (ltr) | Mean (lts) | Mean (lts) | Mean (lts) | Mean (lts) | Mean (lts) |
| Mpanda | 6 | 3 | 3 | 4 | 2 | 2 |
| Sumbawanga Rural | 4 | 3 | 3 | 0 | 2 | 2 |
| Nkasi | 5 | 4 | 4 | 4 | 3 | 3 |
| Sumbawanga Urban | 7 | 3 | 4 | 6 | 2 | 3 |
| **Total** | **6** | **3** | **3** | **5** | **2** | **2** |

### 9.11 Average number of days for cows on milked, by category of Cattle, Season and District, During the 2007/08 Agricultural Year

| District | Wet Season | | | Dry Season | | |
|---|---|---|---|---|---|---|
| | Improved Breed | Indigenous | Total | Improved Breed | Indigenous | Total |
| | Mean | Mean | Mean | Mean | Mean | Mean |
| Mpanda | 147 | 100 | 105 | 130 | 96 | 100 |
| Sumbawanga Rural | 21 | 88 | 87 | 0 | 80 | 80 |
| Nkasi | 195 | 147 | 150 | 175 | 120 | 124 |
| Sumbawanga Urban | 153 | 110 | 121 | 154 | 103 | 114 |
| **Total** | **137** | **104** | **106** | **147** | **93** | **96** |

### 9.12 Average Cattle Milk price (Tshs/litre) per season by category of cow and District, During the 2007/08 Agricultural Year

| District | Wet Season | | | Dry Season | | |
|---|---|---|---|---|---|---|
| | Improved Breed | Indigenous | Total | Improved Breed | Indigenous | Total |
| | Mean | Mean | Mean | Mean | Mean | Mean |
| Mpanda | 233 | 325 | 312 | 250 | 297 | 291 |
| Sumbawanga Rural | 500 | 322 | 326 | 0 | 293 | 293 |
| Nkasi | 225 | 213 | 213 | 483 | 261 | 282 |
| Sumbawanga Urban | 300 | 287 | 290 | 331 | 294 | 301 |
| **Total** | **295** | **297** | **297** | **352** | **287** | **291** |

**9.13 Number of Milked Cows, Average Milk Produced per Cow per Day, Average Number of Days for Cows on Milk and Average Price per Litre per Season and District During the 2007/2008 Agriculture Year.**

| District | Number of milked cows | | Average milk production per cow per day (lts) | | Average number of days cows milked | | Average price per litre per season (Tshs) | |
|---|---|---|---|---|---|---|---|---|
| | Wet Season | Dry Season | Wet Season | Dry Season | Wet Season | Dry Season | Wet Season | Dry Season |
| Mpanda | 51,333 | 45,512 | 3 | 2 | 105 | 100 | 312 | 291 |
| Sumbawanga Rural | 36,693 | 22,736 | 3 | 2 | 87 | 80 | 326 | 293 |
| Nkasi | 37,542 | 40,782 | 4 | 3 | 150 | 124 | 213 | 282 |
| Sumbawanga Urban | 3,771 | 3,771 | 4 | 3 | 121 | 114 | 290 | 301 |
| **Total** | **129,339** | **112,801** | **3** | **2** | **106** | **96** | **297** | **291** |

**GOAT PRODUCTION**

### 9.14 Number of Agriculture Households Rearing Goats by District during the 2007/08 Agricultural Year

| District | Raising goats | | Not raising goats | | Total | Total livestock keeping households |
|---|---|---|---|---|---|---|
| | No of households | % | No of households | % | | |
| Mpanda | 17,817 | 25 | 53,627 | 75 | 71,443 | 48,511 |
| Sumbawanga Rural | 22,286 | 24 | 68,884 | 76 | 91,170 | 74,062 |
| Nkasi | 11,173 | 25 | 34,078 | 75 | 45,251 | 32,290 |
| Sumbawanga Urban | 5,280 | 29 | 13,105 | 71 | 18,385 | 14,991 |
| **Total** | **56,556** | **25** | **169,694** | **75** | **226,250** | **169,854** |

### 9.15 Number of Goats by Type and District as of 1st October 2008

| District | Indigenous | | | Improved for Meat | | | Improved Dairy | | | Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of households | Number of Goats | % | Number of households | Number of Goats | % | Number of households | Number of Goats | % | Number of households | Number of Goats |
| Mpanda | 17,817 | 182,225 | 94.4 | 176 | 176 | 0.1 | 529 | 10,584 | 5.5 | 18,522 | 192,985 |
| Sumbawanga Rural | 22,061 | 139,344 | 95.4 | 225 | 900 | 0.6 | 675 | 5,853 | 4.0 | 22,961 | 146,097 |
| Nkasi | 11,173 | 61,899 | 99.8 | 0 | 0 | 0.0 | 112 | 112 | 0.2 | 11,285 | 62,011 |
| Sumbawanga Urban | 5,280 | 27,012 | 99.5 | 0 | 0 | 0.0 | 47 | 141 | 0.5 | 5,327 | 27,154 |
| **Total** | **56,331** | **410,480** | **95.9** | **402** | **1,077** | **0.3** | **1,363** | **16,690** | **3.9** | **58,096** | **428,247** |

### 9.16 Number of Households Rearing Goats, Head of Goats and Average Head per Household by Herd Size as of 1st October 2008- RUKWA

| Herd Size | Goat rearing households | | Herd of Goats | | Average Goats per household |
|---|---|---|---|---|---|
| | Number | % | Number | % | |
| 1 - 4 | 103,815 | 80.1 | 196,744 | 45.9 | 2 |
| 5 - 9 | 18,573 | 14.3 | 115,820 | 27.0 | 6 |
| 10 - 14 | 4,282 | 3.3 | 45,580 | 10.6 | 11 |
| 15 - 19 | 1,554 | 1.2 | 25,045 | 5.8 | 16 |
| 20 - 24 | 529 | 0.4 | 11,290 | 2.6 | 21 |
| 25 - 29 | 112 | 0.1 | 3,017 | 0.7 | 27 |
| 30 - 39 | 578 | 0.4 | 17,338 | 4.0 | 30 |
| 40+ | 224 | 0.2 | 13,413 | 3.1 | 60 |
| **Total** | **129,667** | **100.0** | **428,247** | **100.0** | **3** |

### 9.17 Total Number of Goats by Category and Type of Goat as of 1st October 2008 - RUKWA

| Category | Indigenous | | Improved Meat | | Improved Dairy | | Total | |
|---|---|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % | Number | % |
| Billy Goat | 69,936 | 95.3 | 402 | 0.5 | 3,031 | 4.1 | 73,368 | 17.1 |
| Castrated Goat | 24,849 | 100.0 | 0 | 0.0 | 0 | 0.0 | 24,849 | 5.8 |
| She Goat | 218,482 | 95.8 | 0 | 0.0 | 9,532 | 4.2 | 228,014 | 53.2 |
| Male Kid | 42,814 | 98.4 | 675 | 1.6 | 0 | 0.0 | 43,489 | 10.2 |
| She Kid | 54,399 | 92.9 | 0 | 0.0 | 4,127 | 7.1 | 58,526 | 13.7 |
| **Total** | **410,480** | **95.9** | **1,077** | **0.3** | **16,690** | **3.9** | **428,247** | **100** |

### 9.18 Total Number of Indigenous Goat by Category and District as of 1st October 2008

| District | Goat Type | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Billy Goat | | Castrated Goat | | She Goat | | Male Kid | | She Kid | | Total | |
| | Total Goat | % | Total Goat | % | Total Goat | % | Total Goat | % | Total Goat | % | Total Goat | % |
| Mpanda | 28,930 | 16 | 18,346 | 10 | 85,556 | 47 | 23,991 | 13 | 25,402 | 14 | 182,225 | 100 |
| Sumbawanga Rural | 24,762 | 18 | 3,827 | 3 | 79,464 | 57 | 12,831 | 9 | 18,459 | 13 | 139,344 | 100 |
| Nkasi | 12,849 | 21 | 2,346 | 4 | 35,642 | 58 | 3,352 | 5 | 7,709 | 12 | 61,899 | 100 |
| Sumbawanga Urban | 3,394 | 13 | 330 | 1 | 17,820 | 66 | 2,640 | 10 | 2,829 | 10 | 27,012 | 100 |
| **Total** | **69,936** | **17** | **24,849** | **6** | **218,482** | **53** | **42,814** | **10** | **54,399** | **13** | **410,480** | **100** |

### 9.19 Number of Improved Goats for Meat by Category and District as of 1st october 2008

| District | Goat Type | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Billy Goat | | Castrated Goat | | She Goat | | Male Kid | | She Kid | | Total | |
| | Total Goat | % | Total Goat | % | Total Goat | % | Total Goat | % | Total Goat | % | Total Goat | % |
| Mpanda | 176 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 176 | 100 |
| Sumbawanga Rural | 225 | 25 | 0 | 0 | 0 | 0 | 675 | 75 | 0 | 0 | 900 | 100 |
| Nkasi | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 |
| Sumbawanga Urban | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 |
| **Total** | **402** | **37** | **0** | **0** | **0** | **0** | **675** | **63** | **0** | **0** | **1,077** | **100** |

### 9.20 Number of Improved Dairy Goats by Category and District as of 1st October 2008

| District | Goat Type | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Billy Goat | | Castrated Goat | | She Goat | | Male Kid | | She Kid | | Total | |
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 1,764 | 16.7 | 0 | 0 | 7,056 | 66.7 | 0 | 0 | 1,764 | 16.7 | 10,584 | 100 |
| Sumbawanga Rural | 1,126 | 19.2 | 0 | 0 | 2,476 | 42.3 | 0 | 0 | 2,251 | 38.5 | 5,853 | 100 |
| Nkasi | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 112 | 100 | 112 | 100 |
| Sumbawanga Urban | 141 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 141 | 100 |
| **Total** | **3,031** | **18.2** | **0** | **0** | **9,532** | **57.1** | **0** | **0** | **4,127** | **24.7** | **16,690** | **100** |

### 9.21 Milk Production from Goat By Season and District, During the 2007/08 Agricultural Year

| District | Number of Milked goat | | Average milk production per goat per day (lts) | | Average number of days for goats on milked | | Average price per litre per season (Tshs) | |
|---|---|---|---|---|---|---|---|---|
| | Wet Season | Dry Season | Wet Season | Dry Season | Wet Season | Dry Season | Wet Season | Dry Season |
| Mpanda | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Rural | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nkasi | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Urban | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Total** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

**SHEEP PRODUCTION**

### 9.22 Number of Households Rearing Sheep by District during the 2007/08 Agriculture Year

| District | Number of households raising or managing sheep | % | Number of households not raising or managing sheep | % | Number of agriculture households | Total livestock keeping households |
|---|---|---|---|---|---|---|
| Mpanda | 3,175 | 4.4 | 68,268 | 95.6 | 71,443 | 48,511 |
| Sumbawanga Rural | 1,801 | 2.0 | 89,369 | 98.0 | 91,170 | 74,062 |
| Nkasi | 670 | 1.5 | 44,581 | 98.5 | 45,251 | 32,290 |
| Sumbawanga Urban | 189 | 1.0 | 18,197 | 99.0 | 18,385 | 14,991 |
| **Total** | **5,835** | **2.6** | **220,415** | **97.4** | **226,250** | **169,854** |

### 9.23 Number of Sheep by Type and District as of 1st October 2008

| District | Number of Indigenous | % | Number of Improved for Mutton | % | Total Sheep |
|---|---|---|---|---|---|
| Mpanda | 21,168 | 100.0 | 0 | 0.0 | 21,168 |
| Sumbawanga Rural | 16,433 | 100.0 | 0 | 0.0 | 16433 |
| Nkasi | 5,363 | 100.0 | 0 | 0.0 | 5,363 |
| Sumbawanga Urban | 613 | 100.0 | 0 | 0.0 | 613 |
| Total | 43,577 | 100.0 | 0 | 0.0 | 43,577 |

### 9.24 Total Number of Indigenous Sheep by Category of Sheep and District as of 1st October 2007/08 Agriculture year

| District | Number of Indigenous | | | | | Total |
|---|---|---|---|---|---|---|
| | Ram | Castrated Sheep | She Sheep | Male Lamb | She Lamb | |
| Mpanda | 4,410 | 353 | 10,761 | 2,117 | 3,528 | 21,168 |
| Sumbawanga Rural | 2,926 | 0 | 9,455 | 2,026 | 2,026 | 16,433 |
| Nkasi | 1,117 | 447 | 2,458 | 670 | 670 | 5,363 |
| Sumbawanga Urban | 47 | 47 | 471 | 0 | 47 | 613 |
| **Total** | **8,501** | **847** | **23,145** | **4,813** | **6,272** | **43,577** |

### 9.25 Number of Improved Sheep for Mutton by Category and District as of 1st October 2008

| District | Number of Improved | | | | | Total |
|---|---|---|---|---|---|---|
| | Ram | Castrated Sheep | She Sheep | Male Lamb | She Lamb | |
| Mpanda | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Rural | 0 | 0 | 0 | 0 | 0 | 0 |
| Nkasi | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Urban | 0 | 0 | 0 | 0 | 0 | 0 |
| **Total** | **0** | **0** | **0** | **0** | **0** | **0** |

### 9.25 Number of Households rearing Sheep, Head of Sheep and Average Head per Household by Herd size During the 2007/08 Agricultural Year, RUKWA

| Herd size | Sheep Rearing Households | % | Herd of sheep | Average Per Houseold |
|---|---|---|---|---|
| 1 - 4 | 1,505 | 26 | 4,450 | 3 |
| 5 - 9 | 2,677 | 46 | 17,456 | 7 |
| 10 - 14 | 1,091 | 19 | 12,116 | 11 |
| 15 - 19 | 337 | 6 | 5,053 | 15 |
| 20 - 24 | 225 | 4 | 4,502 | 20 |
| 25+ | 0 | 0 | 0 | 0 |
| **Total** | **5,835** | **100** | **43,577** | **7** |

### 9.26 Total Number of Sheep by Breed Type During the 2007/08 Agriculture Year - RUKWA

| Category | Number of Indigenous | % | Number of Improved | % | Total | % |
|---|---|---|---|---|---|---|
| Billy Sheep | 8,501 | 100 | 0 | 0 | 8,501 | 20 |
| Castrated Sheep | 847 | 100 | 0 | 0 | 847 | 2 |
| She Sheep | 23,145 | 100 | 0 | 0 | 23,145 | 53 |
| Male Kid | 4,813 | 100 | 0 | 0 | 4,813 | 11 |
| She Kid | 6,272 | 100 | 0 | 0 | 6,272 | 14 |
| **Total** | **43,577** | **100** | **0** | **0** | **43,577** | **100** |

**PIG PRODUCTION**

### 9.27 Number of Households Raising Pigs by District during 2007/08 Agriculture Year

| District | During the 2007/2008 Agriculture Year | | | | | |
|---|---|---|---|---|---|---|
| | Rearing Pigs | | Not rearing pigs | | Total | |
| | Number of households | % | Number of households | % | Number of households | % |
| Mpanda | 3,704 | 5.2 | 67,739 | 94.8 | 71,443 | 100.0 |
| Sumbawanga Rural | 12,381 | 13.6 | 78,789 | 86.4 | 91,170 | 100.0 |
| Nkasi | 2,570 | 5.7 | 42,681 | 94.3 | 45,251 | 100.0 |
| Sumbawanga Urban | 1,179 | 6.4 | 17,207 | 93.6 | 18,385 | 100.0 |
| **Total** | **19,834** | **8.8** | **206,416** | **91.2** | **226,250** | **100.0** |

### 9.28 Number of Households Rearing Pigs, Head of Pigs and Average Head per Household by Herd Size as of 1st October 2008 - RUKWA

| Flock Size | Pig Rearing Households | | Head of pigs | | Average per Household |
|---|---|---|---|---|---|
| | Number | % | Number | % | |
| 1 - 4 | 13,263 | 67 | 27,580 | 34.2 | 2 |
| 5 - 9 | 4,537 | 23 | 27,378 | 34.0 | 6 |
| 10 - 14 | 1,650 | 8 | 18,261 | 22.7 | 11 |
| 15 - 19 | 225 | 1 | 4,052 | 5.0 | 18 |
| 20 - 24 | 159 | 1 | 3,336 | 4.1 | 21 |
| **Total** | **19,834** | **100** | **80,608** | **100.0** | **4** |

### 9.29 Total Number of Pigs by Type of Pigs and District as of 1st October 2008

| District | Pig Type | | | | | |
|---|---|---|---|---|---|---|
| | Boar | Castrated Male | Sow / Gilt | Male Piglet | She Piglet | Total |
| Mpanda | 3,881 | 529 | 8,467 | 1,764 | 4,939 | 19,581 |
| Sumbawanga Rural | 6,978 | 1,801 | 20,710 | 5,628 | 8,104 | 43,221 |
| Nkasi | 2,905 | 112 | 4,804 | 894 | 3,575 | 12,290 |
| Sumbawanga Urban | 801 | 47 | 2,970 | 943 | 754 | 5,516 |
| **Total** | **14,566** | **2,489** | **36,952** | **9,228** | **17,373** | **80,608** |

### 9.30 Number of Pigs per Household by District as of 1st October 2008

| District | Number of households | Number of pigs | Average per household |
|---|---|---|---|
| Mpanda | 3,704 | 19,581 | 5 |
| Sumbawanga Rural | 12,381 | 43,221 | 3 |
| Nkasi | 2,570 | 12,290 | 5 |
| Sumbawanga Urban | 1,179 | 5,516 | 5 |
| **Total** | **19,834** | **80,608** | **4** |

**CHICKEN AND OTHER LIVESTOCK PRODUCTION**

**9.31 Number of Households Rearing Chicken by District During the 2007/08 Agriculture Year**

| District | Households Rearing Chicken | | Households not Rearing Chicken | | Total | |
|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % |
| Mpanda | 44,807 | 30 | 26,637 | 30 | 71,443 | 100 |
| Sumbawanga Rural | 62,581 | 42 | 28,589 | 42 | 91,170 | 100 |
| Nkasi | 28,268 | 19 | 16,983 | 19 | 45,251 | 100 |
| Sumbawanga Urban | 12,163 | 8 | 6,223 | 8 | 18,385 | 100 |
| **Total** | **147,818** | **100** | **78,432** | **100** | **226,250** | **100** |

### 9.32 Number of CHICKEN by Type and District as of 1st October 2008

| District | Indigenous chicken | | | Layers | | | Broilers | | | Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Households | Number of Indigenous Chicken | % | Number of Households | Number of Layers | % | Number of Households | Number of Broilers | % | Number of Households | Number of Chicken |
| Mpanda | 44,807 | 611,238 | 100.0 | 0 | 0 | 0.0 | 0 | 0 | 0.0 | 44,807 | 611,238 |
| Sumbawanga Rural | 61,680 | 564,353 | 96.2 | 1,126 | 19,810 | 3.4 | 225 | 2,701 | 0.5 | 63,031 | 586,864 |
| Nkasi | 28,268 | 274,746 | 99.8 | 112 | 670 | 0.2 | 0 | 0 | 0.0 | 28,380 | 275,416 |
| Sumbawanga Urban | 12,115 | 115,733 | 98.7 | 94 | 566 | 0.5 | 47 | 943 | 0.8 | 12,257 | 117,242 |
| **Total** | **146,870** | **1,566,070** | **98.4** | **1,332** | **21,046** | **1.3** | **272** | **3,644** | **0.2** | **148,474** | **1,590,761** |

### 9.33 Number of Households Keeping Chickens and Average Number of Chickens per Household by Flock Size as of 1st October 2008 - RUKWA

| Flock Size | Indigenous chicken | | | | Layers | | | | Broilers | | | | Total | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number of Households | Number of Indigenous Chicken | % | Number of Chicken Per Household | Number of Households | Number of Layers | % | Number of Chicken Per Household | Number of Households | Number of Broilers | % | Number of Chicken Per Household | Number of Households | Number of Chicken | % | Number of Chicken Per Household |
| 1-49 | 144,420 | 1,422,835 | 99.1 | 10 | 1,106 | 9,790 | 0.7 | 9 | 272 | 3,644 | 0.3 | 13 | 145,799 | 1,436,269 | 100 | 10 |
| 50-99 | 2,273 | 125,595 | 91.8 | 55 | 225 | 11,256 | 8.2 | 50 | 0 | 0 | 0.0 | 0 | 2,499 | 136,851 | 100 | 55 |
| 100-299 | 176 | 17,640 | 100 | 100 | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 176 | 17,640 | 100 | 100 |
| 300+ | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 | 0 | 0 |
| **Total** | **146,870** | **1,566,070** | **98.4** | **11** | **1,332** | **21,046** | **1.3** | **16** | **272** | **3,644** | **0.2** | **13** | **148,474** | **1,590,761** | **100** | **11** |

### 9.34 Number of Other Livestock by Type of livestock and District as of 1st October 2008

| District | Ducks | Guine pigs | Turkeys | Rabbits | Donkeys | Horses | Dogs |
|---|---|---|---|---|---|---|---|
| Mpanda | 19,228 | 529 | 0 | 1,058 | 2,117 | 0 | 12,172 |
| Sumbawanga Rural | 23,412 | 1,126 | 0 | 0 | 4,277 | 0 | 10,355 |
| Nkasi | 10,167 | 1,452 | 0 | 1,899 | 1,341 | 0 | 7,598 |
| Sumbawanga Urban | 3,818 | 3,394 | 0 | 5,044 | 754 | 0 | 4,243 |
| **Total** | **56,626** | **6,501** | **0** | **8,002** | **8,489** | **0** | **34,367** |

### 9.35 Total Number of Other Livestock by Type as of 1st October 2008

| Type | Chicken | | Others | |
|---|---|---|---|---|
| | Number | % | Type | Number |
| Indigenous Chicken | 1,566,070 | 98.4 | Ducks | 56,626 |
| Layer | 21,046 | 1.3 | Guine pigs | 6,501 |
| Broiler | 3,644 | 0.2 | Turkeys | 0 |
| | | | Rabbits | 8,002 |
| | | | Donkeys | 8,489 |
| | | | Horses | 0 |
| | | | Dogs | 34,367 |
| **TOTAL** | **1,590,761** | **100** | | **113,985** |

**PESTS AND PARASITES DISEASES AND CONTROL**

### 9.36 Number of Livestock Rearing households Deworming Livestock by District during 2007/08 Agriculture Year

| District | Households Deworming Livestock | | Households Not Deworming Livestock | | Total | |
|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number of Livestock Rearing households | % |
| Mpanda | 14,994 | 31 | 32,811 | 69 | 47,805 | 100 |
| Sumbawanga Rural | 19,810 | 27 | 54,027 | 73 | 73,836 | 100 |
| Nkasi | 11,173 | 34 | 21,341 | 66 | 32,514 | 100 |
| Sumbawanga Urban | 7,024 | 47 | 7,778 | 53 | 14,803 | 100 |
| **Total** | **53,001** | **31** | **115,957** | **69** | **168,958** | **100** |

### 9.37 Number of Livestock Rearing Households that Dewormed Livestock by Type of Livestock and District, 2007/08 Agricultural Year

| District | Cattle | | | | Goats/ Sheep | | | |
|---|---|---|---|---|---|---|---|---|
| | Households that dewormed | Households that DID NOT deworm | Not Applicable | Total | Households that dewormed | Households that DID NOT deworm | Not Applicable | Total |
| Mpanda | 5,998 | 176 | 8,820 | 14,994 | 6,880 | 1,764 | 6,351 | 14,994 |
| Sumbawanga Rural | 16,883 | 225 | 2,476 | 19,585 | 5,853 | 2,701 | 11,030 | 19,585 |
| Nkasi | 8,938 | 559 | 1,676 | 11,173 | 3,687 | 2,570 | 4,916 | 11,173 |
| Sumbawanga Urban | 5,468 | 471 | 1,131 | 7,071 | 1,697 | 1,509 | 3,818 | 7,024 |
| **Total** | **37,288** | **1,432** | **14,104** | **52,823** | **18,117** | **8,544** | **26,116** | **52,776** |

### cont 9.37 Number of Livestock Rearing Households that Dewormed Livestock by Type of Livestock and District, 2007/08 Agricultural Year

| District | Pig | | | | Chicken | | | |
|---|---|---|---|---|---|---|---|---|
| | Households that dewormed | Households that DID NOT deworm | Not Applicable | Total | Households that dewormed | Households that DID NOT deworm | Not Applicable | Total |
| Mpanda | 1,411 | 353 | 13,230 | 14,994 | 6,174 | 7,762 | 1,058 | 14,994 |
| Sumbawanga Rural | 2,926 | 2,701 | 13,957 | 19,585 | 2,476 | 13,957 | 3,152 | 19,585 |
| Nkasi | 670 | 2,011 | 8,492 | 11,173 | 3,352 | 6,480 | 1,452 | 11,285 |
| Sumbawanga Urban | 519 | 896 | 5,610 | 7,024 | 2,310 | 3,488 | 1,179 | 6,977 |
| **Total** | **5,527** | **5,961** | **41,289** | **52,776** | **14,312** | **31,688** | **6,841** | **52,841** |

### 9.38 Number of Livestock Rearing Households Normally Encountering Tick Problems by District during 2007/08 Agriculture Year

| District | Tick Problem | | No Tick Problem | | Not Applicable | | Total | |
|---|---|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 10,055 | 21 | 6,527 | 14 | 31,223 | 65 | 47,805 | 100 |
| Sumbawanga Rural | 27,914 | 38 | 14,857 | 20 | 31,290 | 42 | 74,062 | 100 |
| Nkasi | 12,402 | 38 | 5,698 | 18 | 14,413 | 44 | 32,514 | 100 |
| Sumbawanga Urban | 7,307 | 49 | 3,630 | 25 | 3,866 | 26 | 14,803 | 100 |
| **Total** | **57,678** | **34** | **30,712** | **18** | **80,793** | **48** | **169,183** | **100** |

### 9.39 Number of Livestock Rearing Households by Method of Tick Control and District during 2007/08 Agriculture Year

| **District** | Dipping | | Spraying | | Smearing | | None | | Other | | Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 882 | 1.8 | 8,291 | 17.3 | 529 | 1.1 | 38,103 | 79.7 | 0 | 0.0 | 47,805 | 100 |
| Sumbawanga Rural | 3,602 | 4.9 | 19,810 | 26.7 | 2,026 | 2.7 | 48,624 | 65.7 | 0 | 0.0 | 74,062 | 100 |
| Nkasi | 2,011 | 6.2 | 9,721 | 29.9 | 112 | 0.3 | 20,670 | 63.6 | 0 | 0.0 | 32,514 | 100 |
| Sumbawanga Urban | 943 | 6.4 | 5,091 | 34.4 | 566 | 3.8 | 8,156 | 55.1 | 47 | 0.3 | 14,803 | 100 |
| **Total** | **7,438** | **4.4** | **42,913** | **25.4** | **3,233** | **1.9** | **115,553** | **68.3** | **47** | **0.0** | **169,183** | **100** |

### 9.40 Number of Livestock Rearing Households Normally Encountering Tsetse Flies Problems by District During 2007/08 Agriculture Year

| District | Households Encountering Tsetse problems | | Households Without Tsetse Problems | | Not Applicable | | Total | |
|---|---|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 5,469 | 11 | 8,644 | 18 | 33,693 | 70 | 47,805 | 100 |
| Sumbawanga Rural | 2,926 | 4 | 36,243 | 49 | 34,892 | 47 | 74,062 | 100 |
| Nkasi | 2,123 | 7 | 14,637 | 45 | 15,754 | 48 | 32,514 | 100 |
| Sumbawanga Urban | 849 | 6 | 9,617 | 65 | 4,337 | 29 | 14,803 | 100 |
| **Total** | **11,366** | **7** | **69,140** | **41** | **88,676** | **52** | **169,183** | **100** |

### 9.41 Number of Livestock Rearing Households by Method of Tsetse Flies Control and District During 2007/08 Agriculture Year

| District | Dipping | | Spraying | | Trapping | | None | | Other | | Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 176 | 0.4 | 2,822 | 5.9 | 353 | 0.7 | 44,101 | 92.3 | 353 | 0.7 | 47,805 | 100 |
| Sumbawanga Rural | 1,801 | 2.4 | 7,204 | 9.7 | 1,801 | 2.4 | 63,256 | 85.4 | 0 | 0.0 | 74,062 | 100 |
| Nkasi | 335 | 1.0 | 2,570 | 7.9 | 112 | 0.3 | 29,497 | 90.7 | 0 | 0.0 | 32,514 | 100 |
| Sumbawanga Urban | 141 | 1.0 | 1,084 | 7.3 | 519 | 3.5 | 13,058 | 88.2 | 0 | 0.0 | 14,803 | 100 |
| **Total** | **2,454** | **1.5** | **13,680** | **8.1** | **2,784** | **1.6** | **149,912** | **88.6** | **353** | **0.2** | **169,183** | **100** |

### 9.42 Number of Livestock Rearing Households Normally Encountering Newcastle Disease Problems by District During 2007/08 Agriculture Year

| District | Households Encountering Newcastle Disease problems | | Households NOT Encountering Newcastle Disease problems | | Not Applicable | | Total | |
|---|---|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 31,929 | 67 | 13,407 | 28 | 2,470 | 5 | 47,805 | 100 |
| Sumbawanga Rural | 46,148 | 62 | 20,260 | 27 | 7,654 | 10 | 74,062 | 100 |
| Nkasi | 17,318 | 53 | 11,397 | 35 | 3,799 | 12 | 32,514 | 100 |
| Sumbawanga Urban | 8,108 | 55 | 4,196 | 28 | 2,499 | 17 | 14,803 | 100 |
| **Total** | **103,503** | **61** | **49,259** | **29** | **16,421** | **10** | **169,183** | **100** |

### 9.43 Number of Livestock Rearing Households by Method of Newcastle Disease Control and District during 2007/08 Agriculture Year

| District | Vaccination | | Local Herbs | | None | | Total | |
|---|---|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 8,115 | 17 | 14,112 | 30 | 25,579 | 54 | 47,805 | 100 |
| Sumbawanga Rural | 24,762 | 33 | 11,931 | 16 | 37,368 | 50 | 74,062 | 100 |
| Nkasi | 6,816 | 21 | 8,380 | 26 | 17,318 | 53 | 32,514 | 100 |
| Sumbawanga Urban | 4,997 | 34 | 3,583 | 24 | 6,223 | 42 | 14,803 | 100 |
| **Total** | **44,689** | **26** | **38,006** | **22** | **86,488** | **51** | **169,183** | **100** |

### 9.44 Number of Livestock Rearing Households Normally Encountering Fowl Typhoid Disease Problems by District During 2007/08 Agriculture Year

| District | Households Encountering Fowl Typhoid Disease problems | | Households NOT Encountering Fowl Typhoid Disease problems | | Not Applicable | | Total | |
|---|---|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 15,347 | 32 | 29,283 | 61 | 3,175 | 7 | 47,805 | 100 |
| Sumbawanga Rural | 17,108 | 23 | 49,074 | 66 | 7,879 | 11 | 74,062 | 100 |
| Nkasi | 5,475 | 17 | 23,352 | 72 | 3,687 | 11 | 32,514 | 100 |
| Sumbawanga Urban | 4,384 | 30 | 7,967 | 54 | 2,451 | 17 | 14,803 | 100 |
| **Total** | **42,315** | **25** | **109,676** | **65** | **17,193** | **10** | **169,183** | **100** |

### 9.45 Number of Livestock Rearing Households by Method of Fowl typhoid Disease Control and District during 2007/08 Agriculture Year

| District | Vaccination | | Local Herbs | | None | | Total | |
|---|---|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 2,117 | 4 | 11,819 | 25 | 33,869 | 71 | 47,805 | 100 |
| Sumbawanga Rural | 4,952 | 7 | 14,857 | 20 | 54,252 | 73 | 74,062 | 100 |
| Nkasi | 670 | 2 | 7,598 | 23 | 24,246 | 75 | 32,514 | 100 |
| Sumbawanga Urban | 801 | 5 | 3,347 | 23 | 10,654 | 72 | 14,803 | 100 |
| **Total** | **8,541** | **5** | **37,621** | **22** | **123,021** | **73** | **169,183** | **100** |

### 9.46 Number of Livestock Rearing Households Normally Encountering Foot and Mouth Disease Problems by District during 2007/08 Agriculture Year

| District | Households Encountering Foot and Mouth Disease | | Households NOT Encountering Foot and Mouth Disease | | Not Applicable | | Total | |
|---|---|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 529 | 1 | 7,409 | 15 | 39,867 | 83 | 47,805 | 100 |
| Sumbawanga Rural | 4,952 | 7 | 33,542 | 45 | 35,793 | 48 | 74,287 | 100 |
| Nkasi | 1,341 | 4 | 14,302 | 44 | 16,983 | 52 | 32,625 | 100 |
| Sumbawanga Urban | 2,121 | 14 | 7,213 | 49 | 5,468 | 37 | 14,803 | 100 |
| **Total** | **8,944** | **5** | **62,465** | **37** | **98,111** | **58** | **169,520** | **100** |

### 9.47 Number of Livestock Rearing Households Normally Encountering Lympyskin Disease Problems by District During 2007/08 Agriculture Year

| District | Households Encountering Lympyskin Disease | | Households NOT Encountering Lympyskin Disease | | Not Applicable | | Total | |
|---|---|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 176 | 0 | 8,291 | 17 | 39,338 | 82 | 47,805 | 100 |
| Sumbawanga Rural | 2,026 | 3 | 36,468 | 49 | 35,793 | 48 | 74,287 | 100 |
| Nkasi | 1,117 | 3 | 14,302 | 44 | 17,095 | 53 | 32,514 | 100 |
| Sumbawanga Urban | 990 | 7 | 7,967 | 54 | 5,846 | 39 | 14,803 | 100 |
| **Total** | **4,310** | **3** | **67,027** | **40** | **98,071** | **58** | **169,408** | **100** |

**LIVESTOCK EXTENSION SERVICES**

### 9.48 Number of Households Receiving Extension advice by District during the 2007/08 agriculture year

| District | Households Receiving Livestock Extension Services | | Households Not Receiving Livestock Extension Services | | Total |
|---|---|---|---|---|---|
| | Number | % | Number | % | |
| Mpanda | 21,168 | 44 | 27,343 | 56 | 48,511 |
| Sumbawanga Rural | 28,364 | 38 | 45,698 | 62 | 74,062 |
| Nkasi | 10,391 | 32 | 21,899 | 68 | 32,290 |
| Sumbawanga Urban | 8,627 | 58 | 6,364 | 42 | 14,991 |
| **Total** | **68,550** | **40** | **101,303** | **60** | **169,854** |

### 9.49 Number of Households Receiving Livestock Advice (overall) By Source of Extension and District During the 2007/08 Agriculture year

| District | Source of Livestock Extension | | | | | | | | | | | | Number of Household receiving Extension |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Government | | NGO/Dev project | | Cooperative | | Large scale farmer | | Radio/TV/Newspapers | | Neighbor | | |
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | |
| Mpanda | 14,994 | 70.8 | 4,763 | 22.5 | 176 | 0.8 | 1,058 | 5.0 | 2,822 | 13.3 | 5,998 | 28.3 | 21,168 |
| Sumbawanga Rural | 25,663 | 90.5 | 675 | 2.4 | 225 | 0.8 | 0 | 0.0 | 6,078 | 21.4 | 4,277 | 15.1 | 28,364 |
| Nkasi | 9,721 | 93.5 | 335 | 3.2 | 112 | 1.1 | 223 | 2.2 | 559 | 5.4 | 670 | 6.5 | 10,391 |
| Sumbawanga Urban | 7,496 | 86.9 | 1,131 | 13.1 | 189 | 2.2 | 424 | 4.9 | 1,037 | 12.0 | 2,027 | 23.5 | 8,627 |
| **Total** | **57,873** | **84.4** | **6,905** | **10.1** | **702** | **1.0** | **1,706** | **2.5** | **10,496** | **15.3** | **12,972** | **18.9** | **68,550** |

**9.50 Number of Agriculture Households Receiving Advice on Feeds and Proper Feeding by Source and District During 2007/08 Agriculture Year**

| District | Source of Livestock Extension | | | | | | | | | | | | | | Total Number of Households |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Government | | NGO/Dev project | | Cooperative | | Large scale farmer | | Radio/TV/Newspapers | | Neighbor | | Other | | |
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Other (Specify) | % | |
| Mpanda | 9,526 | 87.1 | 529 | 4.8 | 0 | 0.0 | 176 | 1.6 | 529 | 4.8 | 176 | 1.6 | 0 | 0.0 | 10,937 |
| Sumbawanga Rural | 5,403 | 68.6 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1,576 | 20.0 | 900 | 11.4 | 0 | 0.0 | 7,879 |
| Nkasi | 2,123 | 82.6 | 112 | 4.3 | 0 | 0.0 | 112 | 4.3 | 112 | 4.3 | 112 | 4.3 | 0 | 0.0 | 2,570 |
| Sumbawanga Urban | 2,781 | 80.8 | 283 | 8.2 | 0 | 0.0 | 47 | 1.4 | 189 | 5.5 | 141 | 4.1 | 0 | 0.0 | 3,441 |
| **Total** | **19,833** | **79.9** | **924** | **3.7** | **0** | **0.0** | **335** | **1.4** | **2,405** | **9.7** | **1,330** | **5.4** | **0** | **0.0** | **24,827** |

**9.51 Number of Households Receiving Extension Advice on ProperLivestock Housing by District During the 2007/08 Agriculture Year**

| District | Source of Livestock Extension | | | | | | | | | | | | | | Total Number of Households |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Government | | NGO/Dev project | | Cooperative | | Large scale farmer | | Radio/TV/Newspapers | | Neighbour | | Other | | |
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Other (Specify) | % | |
| Mpanda | 6,174 | 62.5 | 529 | 5.4 | 0 | 0.0 | 176 | 1.8 | 353 | 3.6 | 2,646 | 26.8 | 0 | 0.0 | 9,879 |
| Sumbawanga Rural | 11,931 | 80.3 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1,126 | 7.6 | 1,801 | 12.1 | 0 | 0.0 | 14,857 |
| Nkasi | 3,687 | 100.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 3,687 |
| Sumbawanga Urban | 3,866 | 74.5 | 424 | 8.2 | 0 | 0.0 | 94 | 1.8 | 283 | 5.5 | 519 | 10.0 | 0 | 0.0 | 5,186 |
| **Total** | **25,658** | **76.3** | **953** | **2.8** | **0** | **0.0** | **271** | **0.8** | **1,761** | **5.2** | **4,966** | **14.8** | **0** | **0.0** | **33,609** |

### 9.52 Number of Households Receiving Extension Advice on Proper Milking and Milk Hygiene by District During the 2007/08 Agriculture Year

| District | Source of Livestock Extension | | | | | | | | | | | | | | Total Number of Households |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Government | | NGO/Dev project | | Cooperative | | Large scale farmer | | Radio/TV/Newspapers | | Neighbor | | Other | | |
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Other (Specify) | % | |
| Mpanda | 2,999 | 57 | 882 | 17 | 0 | 0 | 0 | 0 | 1,058 | 20 | 353 | 7 | 0 | 0 | 5,292 |
| Sumbawanga Rural | 4,502 | 77 | 0 | 0 | 0 | 0 | 0 | 0 | 1,351 | 23 | 0 | 0 | 0 | 0 | 5,853 |
| Nkasi | 1,341 | 80 | 112 | 7 | 0 | 0 | 0 | 0 | 112 | 7 | 112 | 7 | 0 | 0 | 1,676 |
| Sumbawanga Urban | 2,404 | 75 | 236 | 7 | 47 | 1 | 47 | 1 | 141 | 4 | 330 | 10 | 0 | 0 | 3,206 |
| **Total** | **11,246** | **70** | **1,229** | **8** | **47** | **0** | **47** | **0** | **2,662** | **17** | **795** | **5** | **0** | **0** | **16,027** |

### 9.53 Number of Households Receiving Extension Advice on Livestock fattening by District During the 2007/08 Agriculture Year

| District | Source of Livestock Extension | | | | | | | | | | | | | | Total Number of Households |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Government | | NGO/Dev project | | Cooperative | | Large scale farmer | | Radio/TV/Newspapers | | Neighbor | | Other | | |
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Other (Specify) | % | |
| Mpanda | 3,528 | 57.1 | 176 | 2.9 | 176 | 2.9 | 353 | 5.7 | 1,058 | 17.1 | 706 | 11.4 | 176 | 2.9 | 6,174 |
| Sumbawanga Rural | 4,277 | 59.4 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 2,026 | 28.1 | 900 | 12.5 | 0 | 0.0 | 7,204 |
| Nkasi | 2,346 | 87.5 | 112 | 4.2 | 0 | 0.0 | 112 | 4.2 | 112 | 4.2 | 0 | 0.0 | 0 | 0.0 | 2,682 |
| Sumbawanga Urban | 2,546 | 75.0 | 236 | 6.9 | 0 | 0.0 | 189 | 5.6 | 47 | 1.4 | 377 | 11.1 | 0 | 0.0 | 3,394 |
| **Total** | **12,697** | **65.3** | **524** | **2.7** | **176** | **0.9** | **653** | **3.4** | **3,243** | **16.7** | **1,983** | **10.2** | **176** | **0.9** | **19,453** |

### 9.54 Number of Households Receiving Extension Advice on Disease control (dipping/spraying) by District During the 2007/08 Agriculture Year

| District | Source of Livestock Extension | | | | | | | | | | | | | | Total Number of Households |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Government | | NGO/Dev project | | Cooperative | | Large scale farmer | | Radio/TV/Newspapers | | Neighbor | | Other | | |
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Other (Specify) | % | |
| Mpanda | 10,408 | 63.4 | 882 | 5.4 | 0 | 0.0 | 353 | 2.2 | 706 | 4.3 | 4,057 | 24.7 | 0 | 0.0 | 16,406 |
| Sumbawanga Rural | 15,082 | 79.8 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1,576 | 8.3 | 2,251 | 11.9 | 0 | 0.0 | 18,909 |
| Nkasi | 8,268 | 94.9 | 112 | 1.3 | 0 | 0.0 | 112 | 1.3 | 112 | 1.3 | 112 | 1.3 | 0 | 0.0 | 8,715 |
| Sumbawanga Urban | 5,280 | 76.2 | 471 | 6.8 | 0 | 0.0 | 236 | 3.4 | 283 | 4.1 | 613 | 8.8 | 47 | 0.7 | 6,930 |
| **Total** | **39,038** | **76.6** | **1,465** | **2.9** | **0** | **0.0** | **700** | **1.4** | **2,676** | **5.3** | **7,033** | **13.8** | **47** | **0.1** | **50,960** |

### 9.55 Number of Households Receiving Extension Advice on Herd/Flock size and selection by District During the 2007/08 Agriculture Year

| District | Source of Livestock Extension | | | | | | | | | | | | | | Total Number of Households |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Government | | NGO/Dev project | | Cooperative | | Large scale farmer | | Radio/TV/Newspapers | | Neighbor | | Other | | |
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Other (Specify) | % | |
| Mpanda | 5,292 | 83.3 | 176 | 2.8 | 0 | 0.0 | 176 | 2.8 | 529 | 8.3 | 176 | 2.8 | 0 | 0.0 | 6,351 |
| Sumbawanga Rural | 6,078 | 71.1 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1,801 | 21.1 | 675 | 7.9 | 0 | 0.0 | 8,554 |
| Nkasi | 2,235 | 100.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 2,235 |
| Sumbawanga Urban | 2,734 | 82.9 | 189 | 5.7 | 0 | 0.0 | 141 | 4.3 | 236 | 7.1 | 0 | 0.0 | 0 | 0.0 | 3,300 |
| **Total** | **16,339** | **79.9** | **365** | **1.8** | **0** | **0.0** | **318** | **1.6** | **2,566** | **12.6** | **852** | **4.2** | **0** | **0.0** | **20,439** |

### 9.56 Number of Households Receiving Extension Advice on Pasture Establishment by District During the 2007/08 Agriculture Year

| District | Source of Livestock Extension | | | | | | | | | | | | | | Total Number of Households |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Government | | NGO/Dev project | | Cooperative | | Large scale farmer | | Radio/TV/Newspapers | | Neighbor | | Other | | |
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Other (Specify) | % | |
| Mpanda | 3,175 | 75.0 | 353 | 8.3 | 0 | 0.0 | 176 | 4.2 | 353 | 8.3 | 176 | 4.2 | 0 | 0.0 | 4,234 |
| Sumbawanga Rural | 3,602 | 66.7 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1,576 | 29.2 | 225 | 4.2 | 0 | 0.0 | 5,403 |
| Nkasi | 1,452 | 92.9 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 112 | 7.1 | 0 | 0.0 | 0 | 0.0 | 1,564 |
| Sumbawanga Urban | 1,839 | 81.3 | 189 | 8.3 | 0 | 0.0 | 94 | 4.2 | 47 | 2.1 | 94 | 4.2 | 0 | 0.0 | 2,263 |
| **Total** | **10,068** | **74.8** | **541** | **4.0** | **0** | **0.0** | **271** | **2.0** | **2,087** | **15.5** | **496** | **3.7** | **0** | **0.0** | **13,463** |

### 9.57 Number of Households Receiving Extension Advice on Group formation and strengthening by District During the 2007/08 Agriculture Year

| District | Source of Livestock Extension | | | | | | | | | | | | | | Total Number of Households |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Government | | NGO/Dev project | | Cooperative | | Large scale farmer | | Radio/TV/Newspapers | | Neighbor | | Other | | |
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Other (Specify) | % | |
| Mpanda | 5,998 | 59.6 | 4,057 | 40.4 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 10,055 |
| Sumbawanga Rural | 8,554 | 84.4 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1,126 | 11.1 | 450 | 4.4 | 0 | 0.0 | 10,130 |
| Nkasi | 1,788 | 88.9 | 112 | 5.6 | 112 | 5.6 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 2,011 |
| Sumbawanga Urban | 3,017 | 78.0 | 613 | 15.9 | 47 | 1.2 | 94 | 2.4 | 94 | 2.4 | 0 | 0.0 | 0 | 0.0 | 3,866 |
| **Total** | **19,357** | **74.3** | **4,782** | **18.3** | **159** | **0.6** | **94** | **0.4** | **1,220** | **4.7** | **450** | **1.7** | **0** | **0.0** | **26,062** |

### 9.58 Number of Households Receiving Extension Advice on Calf Rearing by District During the 2007/08 Agriculture Year

| District | Source of Livestock Extension | | | | | | | | | | | | | | Total Number of Households |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Government | | NGO/Dev project | | Cooperative | | Large scale farmer | | Radio/TV/Newspapers | | Neighbor | | Other | | |
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Other (Specify) | % | |
| Mpanda | 3,528 | 58.8 | 529 | 8.8 | 0 | 0.0 | 353 | 5.9 | 882 | 14.7 | 706 | 11.8 | 0 | 0.0 | 5,998 |
| Sumbawanga Rural | 4,502 | 69.0 | 450 | 6.9 | 225 | 3.4 | 0 | 0.0 | 1,351 | 20.7 | 0 | 0.0 | 0 | 0.0 | 6,528 |
| Nkasi | 1,006 | 69.2 | 112 | 7.7 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 335 | 23.1 | 0 | 0.0 | 1,452 |
| Sumbawanga Urban | 2,499 | 69.7 | 471 | 13.2 | 47 | 1.3 | 141 | 3.9 | 94 | 2.6 | 330 | 9.2 | 0 | 0.0 | 3,583 |
| **Total** | **11,534** | **65.7** | **1,563** | **8.9** | **272** | **1.6** | **494** | **2.8** | **2,327** | **13.3** | **1,371** | **7.8** | **0** | **0.0** | **17,561** |

### 9.59 Number of Households Receiving Extension Advice on Use of Improved Bulls by District During the 2007/08 Agriculture Year

| District | Source of Livestock Extension | | | | | | | | | | | | | | Total Number of Households |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Government | | NGO/Dev project | | Cooperative | | Large scale farmer | | Radio/TV/Newspapers | | Neighbor | | Other | | |
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Other (Specify) | % | |
| Mpanda | 2,470 | 82.4 | 0 | 0.0 | 0 | 0.0 | 176 | 5.9 | 353 | 11.8 | 0 | 0.0 | 0 | 0.0 | 2,999 |
| Sumbawanga Rural | 2,251 | 45.5 | 225 | 4.5 | 0 | 0.0 | 0 | 0.0 | 2,026 | 40.9 | 450 | 9.1 | 0 | 0.0 | 4,952 |
| Nkasi | 559 | 100.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 559 |
| Sumbawanga Urban | 1,697 | 83.7 | 94 | 4.7 | 47 | 2.3 | 94 | 4.7 | 47 | 2.3 | 47 | 2.3 | 0 | 0.0 | 2,027 |
| **Total** | **6,977** | **66.2** | **319** | **3.0** | **47** | **0.4** | **271** | **2.6** | **2,426** | **23.0** | **497** | **4.7** | **0** | **0.0** | **10,537** |

### 9.60 Number of Households Receiving Extension Advice on Livestock Feeds Processing by District During the 2007/08 Agriculture Year

| District | Source of Livestock Extension | | | | | | | | | | | | | | Total Number of Households |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Government | | NGO/Dev project | | Cooperative | | Large scale farmer | | Radio/TV/Newspapers | | Neighbour | | Other | | |
| | Number | % | Number | % | Number | % | Number | % | Number | % | Number | % | Other (Specify) | % | |
| Mpanda | 7,409 | 85.7 | 353 | 4.1 | 0 | 0.0 | 0 | 0.0 | 529 | 6.1 | 353 | 4.1 | 0 | 0.0 | 8,644 |
| Sumbawanga Rural | 3,377 | 57.7 | 225 | 3.8 | 0 | 0.0 | 0 | 0.0 | 1,801 | 30.8 | 450 | 7.7 | 0 | 0.0 | 5,853 |
| Nkasi | 1,452 | 86.7 | 223 | 13.3 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 1,676 |
| Sumbawanga Urban | 2,263 | 72.7 | 330 | 10.6 | 0 | 0.0 | 141 | 4.5 | 94 | 3.0 | 283 | 9.1 | 0 | 0.0 | 3,111 |
| **Total** | **14,501** | **75.2** | **1,131** | **5.9** | **0** | **0.0** | **141** | **0.7** | **2,424** | **12.6** | **1,086** | **5.6** | **0** | **0.0** | **19,284** |

**FISH FARMING**

### 9.61 Number of Agriculture Households Practicing Fish Farming by District During the 2007/08 Agriculture Year

| District | Was Fish farming carried out by this household during 2007/08 | | | | |
|---|---|---|---|---|---|
| | Yes | % | No | % | Total |
| Mpanda | 0 | 0.0 | 71,443 | 100.0 | 71,443 |
| Sumbawanga Rural | 0 | 0.0 | 91,170 | 100.0 | 91,170 |
| Nkasi | 223 | 0.5 | 45,027 | 99.5 | 45,251 |
| Sumbawanga Urban | 189 | 1.0 | 18,197 | 99.0 | 18,385 |
| **Total** | **412** | **0.2** | **225,838** | **99.8** | **226,250** |

### 9.62 Number of Agriculture Households by System of Fish Farming and District during the 2007/08 Agriculture Year

| District | System of Fish Farming | | | |
|---|---|---|---|---|
| | Natural Pond | Dug out Pond | Water Resevoir | Total |
| Mpanda | 0 | 0 | 0 | 0 |
| Sumbawanga Rural | 0 | 0 | 0 | 0 |
| Nkasi | 0 | 447 | 0 | 447 |
| Sumbawanga Urban | 0 | 141 | 47 | 189 |
| **Total** | **0** | **588** | **47** | **635** |

### 9.64 Number of Agriculture Households by Source of Fingerling and District during the 2007/08 Agriculture Year

| District | Source of fingerlings | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Own Pond | Government Institution | NGOs / Project | Neighbor | Private Trader | Natural pond | Other | Total |
| Mpanda | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Rural | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nkasi | 0 | 0 | 0 | 335 | 0 | 0 | 112 | 447 |
| Sumbawanga Urban | 47 | 0 | 141 | 0 | 0 | 0 | 0 | 189 |
| **Total** | **47** | **0** | **141** | **335** | **0** | **0** | **112** | **635** |

### 9.65 Number of Agriculture Households by Location of Selling Fish and District During the 2007/08 Agriculture Year

| District | Where sold | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Neighbor | Local Market | Secondary Market | Processing Industry | Large Scale Farm | Trader at Farm | Did not Sell | Other | Total |
| Mpanda | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Rural | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nkasi | 112 | 0 | 335 | 0 | 0 | 0 | 0 | 0 | 447 |
| Sumbawanga Urban | 47 | 0 | 0 | 0 | 0 | 0 | 141 | 0 | 189 |
| **Total** | **159** | **0** | **335** | **0** | **0** | **0** | **141** | **0** | **635** |

### 9.66 Total Number of Fish Harvested, Weight and Quantity Sold by District during 2007/08 Agriculture year

| District | Fish Harvested | | | | Fish Sold | |
|---|---|---|---|---|---|---|
| | Number of Fish | % | Quantity(Kg) | % | Quantity (Kg) | % |
| Mpanda | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Rural | 0 | 0 | 0 | 0 | 0 | 0 |
| Nkasi | 52,513 | 78 | 76,536 | 96 | 135,194 | 97.0 |
| Sumbawanga Urban | 14,614 | 22 | 3,536 | 4 | 4,243 | 3.0 |
| **Total** | **67,127** | **100** | **80,071** | **100** | **139,437** | **100.0** |

### 9.67 Mean size of Pond, Number of Stocked Fish by Type and District During 2007/08 Agriculture Year

| District | Mean Size of Pond (Sq.metre) | Type of Fish | | | | | | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Tilapia | | Milkfish | | Prawns/Crabs | | Lulu | | |
| | | Number | % | Number | % | Number | % | Number | % | |
| Mpanda | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Rural | 0 | 0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nkasi | 65 | 529 | 125.4 | 0 | 0 | 0 | 0 | 0 | 0 | 529 |
| Sumbawanga Urban | 187 | 168 | 39.8 | 0 | 0.0 | 0 | 0 | 0 | 0 | 168 |
| **Total** | 101 | 421 | **100.0** | **0** | **0** | **0** | **0** | **0** | **0** | 421 |

### 9.68 Number of Agricultural Households By frequency of Stocking of Fingerings in Fish Ponds and District, 2007/08 Agricultural Year

| District | Frequency of stocking | | | Total |
|---|---|---|---|---|
| | 1 | 2 | 3 | |
| Mpanda | 0 | 0 | 0 | 0 |
| Sumbawanga Rural | 0 | 0 | 0 | 0 |
| Nkasi | 112 | 335 | 0 | 447 |
| Sumbawanga Urban | 141 | 0 | 47 | 188 |
| **Total** | **253** | **335** | **47** | **635** |

### 9.69 Number of Agricultural Households By level of Care of Fish Ponds and District, 2007/08 Agricultural Year

| District | Level of Care of Fish Pond | | | Total |
|---|---|---|---|---|
| | High | Medium/Average | Low | |
| Mpanda | 0 | 0 | 0 | 0 |
| Sumbawanga Rural | 0 | 0 | 0 | 0 |
| Nkasi | 0 | 335 | 112 | 447 |
| Sumbawanga Urban | 47 | 141 | 0 | 189 |
| **Total** | **47** | **477** | **112** | **635** |

**BEE KEEPING**

**9.70 Number of Agricultural Households Involved in Honey Production/Collection and District, 2007/08 Agricultural Year**

| District | Agricultural Households Involved in Honey Production/Collection | | Agricultural Households NOT Involved in Honey Production/Collection | | Total | |
|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % |
| Mpanda | 4,410 | 6 | 67,033 | 94 | 71,443 | 100 |
| Sumbawanga Rural | 1,801 | 2 | 89,369 | 98 | 91,170 | 100 |
| Nkasi | 670 | 1 | 44,581 | 99 | 45,251 | 100 |
| Sumbawanga Urban | 424 | 2 | 17,961 | 98 | 18,385 | 100 |
| **Total** | **7,306** | **3** | **218,944** | **97** | **226,250** | **100** |

**9.71 Number of Agriculture Households Harvesting Honey by Type of Bee and District During the 2007/08 Agriculture Year**

| District | Was Honey Harvested? | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Households that Produced/Collected Honey | | | Households that did NOT Produce/Collect Honey | | Total | | |
| | Stingless Bee | Sting Bee | Total | Stingless Bee | Total | Stingless Bee | Sting Bee | Total |
| Mpanda | 529 | 4,057 | 4,586 | 176 | 176 | 706 | 4,057 | 4,763 |
| Sumbawanga Rural | 225 | 1,576 | 1,801 | 0 | 0 | 225 | 1,576 | 1,801 |
| Nkasi | 223 | 447 | 670 | 0 | 0 | 223 | 447 | 670 |
| Sumbawanga Urban | 141 | 283 | 424 | 47 | 47 | 189 | 283 | 471 |
| **Total** | **1,119** | **6,363** | **7,482** | **224** | **224** | **1,343** | **6,363** | **7,706** |

### 9.72 Number of Bee Hives by Type, Type of Bees and District During the 2007/08 Agriculture Year

| District | Number of Improved Bee Hives | | | | | | Number of Local Bee Hives | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Stingless Bee | | Sting Bee | | Total | | Stingless Bee | | Sting Bee | | Total | |
| | Number of Households | Number of Hives | Number of Households | Number of Hives | Number of Households | Number of Hives | Number of Households | Number of Hives | Number of Households | Number of Hives | Number of Households | Number of Hives |
| Mpanda | 706 | 1,235 | 4,057 | 10,761 | 4,763 | 11,995 | 706 | 9,349 | 4,057 | 522,860 | 4,763 | 532,210 |
| Sumbawanga Rural | 225 | 0 | 1,576 | 900 | 1,801 | 900 | 225 | 1,126 | 1,576 | 9,680 | 1,801 | 10,805 |
| Nkasi | 223 | 559 | 447 | 0 | 670 | 559 | 223 | 223 | 447 | 5,475 | 670 | 5,698 |
| Sumbawanga Urban | 189 | 0 | 283 | 47 | 471 | 47 | 189 | 2,216 | 283 | 48,603 | 471 | 50,819 |
| **Total** | **1,343** | **1,793** | **6,363** | **11,708** | **7,706** | **13,502** | **1,343** | **12,914** | **6,363** | **586,618** | **7,706** | **599,532** |

### 9.73 Quantity of Honey Harvested and Sold by Type of Bees and District During the 2007/08 Agriculture Year

| District | Stingless Bee | | | | Sting Bee | | | | Total | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Honey Harvested | | Honey Sold | | Honey Harvested | | Honey Sold | | Honey Sold | Honey Harvested |
| | Quantity (lts) | % | Quantity (lts) | % | Quantity (lts) | % | Quantity (lts) | % | | |
| Mpanda | 24,696 | 1 | 17,640 | 1 | 2,212,983 | 99 | 2,179,466 | 99 | 2,197,106 | 2,237,679 |
| Sumbawanga Rural | 2,251 | 5 | 1,576 | 5 | 42,996 | 95 | 28,814 | 95 | 30,390 | 45,247 |
| Nkasi | 2,793 | 16 | 0 | 0 | 14,525 | 84 | 7,262 | 100 | 7,262 | 17,318 |
| Sumbawanga Urban | 5,327 | 48 | 5,987 | 64 | 5,798 | 52 | 3,347 | 36 | 9,334 | 11,125 |
| **Total** | **35,068** | **2** | **25,203** | **1** | **2,276,302** | **98** | **2,218,890** | **99** | **2,244,093** | **2,311,370** |

### 9.74 Average price of Honey (Tshs/litre) by Type of Bees and District During the 2007/08 Agriculture Year

| District | Stingless Bee (Price per Litre) | Sting Bee (Price per Litre) | Average Price Per Litre |
|---|---|---|---|
| Mpanda | 831 | 750 | 822 |
| Sumbawanga Rural | 1,301 | 1,000 | 1,264 |
| Nkasi | 1,063 | 1,500 | 1,208 |
| Sumbawanga Urban | 2,683 | 2,008 | 2,458 |
| Total | 1,046 | 1,109 | 1,056 |

### 9.75 Number of Agriculture Households by Location of Selling Honey and District During the 2007/08 Agriculture Year

| District | Neighbour | | Local market | | Secondary market | | Processing industry | | Large scale farm |
|---|---|---|---|---|---|---|---|---|---|
| | Sting bee | Stingless Bee | Sting bee | Stingless Bee | Sting bee | Stingless Bee | Sting bee | Stingless Bee | Stingless Bee |
| Mpanda | 3,175 | 353 | 353 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Rural | 1,351 | 225 | 0 | 0 | 225 | 0 | 0 | 0 | 0 |
| Nkasi | 335 | 112 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sumbawanga Urban | 141 | 141 | 47 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Total** | **5,003** | **831** | **400** | **0** | **225** | **0** | **0** | **0** | **0** |

### cont 9.75 Number of Agriculture Households by Location of Selling Honey and District During the 2007/08 Agriculture Year

| District | Trade at farm | | Did not sell | | Other | | Total | |
|---|---|---|---|---|---|---|---|---|
| | Sting bee | Stingless Bee | Sting bee | Stingless Bee | Sting bee | Stingless Bee | Sting bee | Stingless Bee |
| Mpanda | 176 | 0 | 353 | 176 | 0 | 507 | 4,057 | 529 |
| Sumbawanga Rural | 0 | 0 | 0 | 0 | 122 | 0 | 1,576 | 225 |
| Nkasi | 0 | 0 | 112 | 112 | 0 | 0 | 447 | 223 |
| Sumbawanga Urban | 0 | 0 | 94 | 0 | 0 | 84 | 283 | 141 |
| **Total** | **176** | **0** | **559** | **288** | **0** | **0** | **6,363** | **1,119** |

**AGRICULTURE CONSTRAINTS**

**9.76 Number of Agricultural Households Reporting the FIRST Most Important Constraint by District, 2007/08 Agricultural Year**

| District | Constraint | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Access to Land | | Ownership of Land | | Poor Soil Cultivation Equipment | | Soil Fertility | |
| | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 2,470 | 3.46 | 1,411 | 1.98 | 32,105 | 44.94 | 3,175 | 4.44 |
| Sumbawanga Rural | 15,758 | 17.28 | 8,329 | 9.14 | 31,065 | 34.07 | 6,303 | 6.91 |
| Nkasi | 7,933 | 17.53 | 1,117 | 2.47 | 15,419 | 34.07 | 2,123 | 4.69 |
| Sumbawanga Urban | 2,687 | 14.62 | 471 | 2.56 | 6,364 | 34.62 | 2,074 | 11.28 |
| **Total** | **28,847** | **12.75** | **11,329** | **5.01** | **84,954** | **37.55** | **13,675** | **6.04** |

**Cont. 9.76 Number of Agricultural Households Reporting the FIRST Most Important Constraint by District, 2007/08 Agricultural Year**

| District | Constraint | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Access to Improved Seed | | Irrigation Facilities | | Access to Chemical Inputs | | Cost of Inputs | |
| | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 1,764 | 2.47 | 0 | 0.00 | 529 | 0.74 | 11,290 | 15.80 |
| Sumbawanga Rural | 4,952 | 5.43 | 675 | 0.74 | 1,126 | 1.23 | 8,329 | 9.14 |
| Nkasi | 894 | 1.98 | 0 | 0.00 | 0 | 0.00 | 9,162 | 20.25 |
| Sumbawanga Urban | 896 | 4.87 | 141 | 0.77 | 236 | 1.28 | 3,017 | 16.41 |
| **Total** | **8,506** | **3.76** | **817** | **0.36** | **1,890** | **0.84** | **31,798** | **14.05** |

**Cont. 9.76 Number of Agricultural Households Reporting the FIRST Most Important Constraint by District, 2007/08 Agricultural Year**

| District | Constraint | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Extension Services | | Access to Forest Resources | | Hunting and Gathering | | Access to Potable Water | |
| | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 2,293 | 3.21 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |
| Sumbawanga Rural | 2,476 | 2.72 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |
| Nkasi | 2,123 | 4.69 | 0 | 0.00 | 0 | 0.00 | 112 | 0.25 |
| Sumbawanga Urban | 471 | 2.56 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |
| **Total** | **7,364** | **3.25** | **0** | **0.00** | **0** | **0.00** | **112** | **0.05** |

**Cont. 9.76 Number of Agricultural Households Reporting the FIRST Most Important Constraint by District, 2007/08 Agricultural Year**

| District | Constraint | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Access to Credit | | Access to Off Farm Income | | Threshing | | Harvesting | |
| | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 5,645 | 7.90 | 2,293 | 3.21 | 176 | 0.25 | 0 | 0.00 |
| Sumbawanga Rural | 3,377 | 3.70 | 675 | 0.74 | 0 | 0.00 | 0 | 0.00 |
| Nkasi | 1,341 | 2.96 | 335 | 0.74 | 0 | 0.00 | 0 | 0.00 |
| Sumbawanga Urban | 849 | 4.62 | 283 | 1.54 | 0 | 0.00 | 0 | 0.00 |
| **Total** | **11,211** | **4.96** | **3,587** | **1.59** | **176** | **0.08** | **0** | **0.00** |

**Cont.9.76 Number of Agricultural Households Reporting the FIRST Most Important Constraint by District, 2007/08 Agricultural Year**

| | Constraint | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Crop Storage | | Crop Processing | | Marketing Information | | Higher Transport Costs | |
| District | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 176 | 0.25 | 0 | 0.00 | 1,235 | 1.73 | 1,058 | 1.48 |
| Sumbawanga Rural | 0 | 0.00 | 0 | 0.00 | 225 | 0.25 | 225 | 0.25 |
| Nkasi | 112 | 0.25 | 0 | 0.00 | 223 | 0.49 | 0 | 0.00 |
| Sumbawanga Urban | 0 | 0.00 | 0 | 0.00 | 94 | 0.51 | 0 | 0.00 |
| **Total** | **288** | **0.13** | **0** | **0.00** | **1,778** | **0.79** | **1,284** | **0.57** |

**Cont. 9.76 Number of Agricultural Households Reporting the FIRST Most Important Constraint by District, 2007/08 Agricultural Year**

| | Constraint | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Destruction by Animals | | Stealing | | Pest and Disease | | Local Government Taxation | |
| District | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 882 | 1.23 | 0 | 0.00 | 706 | 0.99 | 0 | 0.00 |
| Sumbawanga Rural | 4,052 | 4.44 | 675 | 0.74 | 2,026 | 2.22 | 0 | 0.00 |
| Nkasi | 2,235 | 4.94 | 335 | 0.74 | 894 | 1.98 | 0 | 0.00 |
| Sumbawanga Urban | 47 | 0.26 | 189 | 1.03 | 424 | 2.31 | 0 | 0.00 |
| **Total** | **7,216** | **3.19** | **1,199** | **0.53** | **4,050** | **1.79** | **0** | **0.00** |

**Cont. 9.76 Number of Agricultural Households Reporting the FIRST Most Important Constraint by District, 2007/08 Agricultural Year**

| | Constraint | | | | | |
|---|---|---|---|---|---|---|
| | Extended dry spell | | Crop Farmers/Livestock keepers Conflicts | | Total | |
| District | Number | % | Number | % | Number | % |
| Mpanda | 176 | 0.25 | 4,057 | 5.68 | 71,443 | 100 |
| Sumbawanga Rural | 450 | 0.49 | 450 | 0.49 | 91,170 | 100 |
| Nkasi | 223 | 0.49 | 670 | 1.48 | 45,251 | 100 |
| Sumbawanga Urban | 141 | 0.77 | 0 | 0.00 | 18,385 | 100 |
| **Total** | **992** | **0.44** | **5,178** | **2.29** | **226,250** | **100** |

**9.77 Number of Agricultural Households Reporting the SECOND Most Important Constraint by District, 2007/08 Agricultural Year**

| | Constraint | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Access to Land | | Ownership of Land | | Poor Soil Cultivation Equipment | | Soil Fertility | |
| District | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 882 | 1.23 | 1,058 | 1.48 | 16,935 | 23.70 | 7,938 | 11.11 |
| Sumbawanga Rural | 2,926 | 3.21 | 5,178 | 5.68 | 15,082 | 16.54 | 14,632 | 16.05 |
| Nkasi | 2,570 | 5.68 | 1,117 | 2.47 | 13,408 | 29.63 | 3,352 | 7.41 |
| Sumbawanga Urban | 613 | 3.33 | 283 | 1.54 | 3,300 | 17.95 | 3,300 | 17.95 |
| **Total** | **6,991** | **3.09** | **7,636** | **3.38** | **48,725** | **21.54** | **29,222** | **12.92** |

**Cont. 9.77 Number of Agricultural Households Reporting the SECOND Most Important Constraint by District, 2007/08 Agricultural Year**

| | Constraint | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Access to Improved Seed | | Irrigation Facilities | | Access to Chemical Inputs | | Cost of Inputs | |
| District | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 9,879 | 13.83 | 1,411 | 1.98 | 2,117 | 2.96 | 14,465 | 20.25 |
| Sumbawanga Rural | 12,606 | 13.83 | 900 | 0.99 | 2,926 | 3.21 | 19,134 | 20.99 |
| Nkasi | 4,357 | 9.63 | 223 | 0.49 | 894 | 1.98 | 8,268 | 18.27 |
| Sumbawanga Urban | 2,310 | 12.56 | 47 | 0.26 | 896 | 4.87 | 3,724 | 20.26 |
| **Total** | **29,152** | **12.88** | **2,582** | **1.14** | **6,833** | **3.02** | **45,592** | **20.15** |

**Cont.9.77 Number of Agricultural Households Reporting the SECOND Most Important Constraint by District, 2007/08 Agricultural Year**

| | Constraint | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Extension Services | | Access to Forest Resources | | Hunting and Gathering | | Access to Potable Water | |
| District | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 3,881 | 5.43 | 0 | 0.00 | 0 | 0.00 | 176 | 0.25 |
| Sumbawanga Rural | 5,628 | 6.17 | 225 | 0.25 | 0 | 0.00 | 225 | 0.25 |
| Nkasi | 2,905 | 6.42 | 0 | 0.00 | 0 | 0.00 | 112 | 0.25 |
| Sumbawanga Urban | 990 | 5.38 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |
| **Total** | **13,404** | **5.92** | **225** | **0.10** | **0** | **0.00** | **513** | **0.23** |

**Cont. 9.77 Number of Agricultural Households Reporting the SECOND Most Important Constraint by District, 2007/08 Agricultural Year**

| | Constraint | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Access to Credit | | Access to Off Farm Income | | Threshing | | Harvesting | |
| District | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 6,174 | 8.64 | 706 | 0.99 | 0 | 0.00 | 0 | 0.00 |
| Sumbawanga Rural | 5,178 | 5.68 | 675 | 0.74 | 225 | 0.25 | 0 | 0.00 |
| Nkasi | 2,682 | 5.93 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |
| Sumbawanga Urban | 1,461 | 7.95 | 330 | 1.79 | 47 | 0.26 | 0 | 0.00 |
| **Total** | **15,495** | **6.85** | **1,711** | **0.76** | **272** | **0.12** | **0** | **0.00** |

**Cont. 9.77 Number of Agricultural Households Reporting the SECOND Most Important Constraint by District, 2007/08 Agricultural Year**

| | Constraint | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Crop Storage | | Crop Processing | | Marketing Information | | Higher Transport Costs | |
| District | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 0 | 0.00 | 176 | 0.25 | 1,588 | 2.22 | 176 | 0.25 |
| Sumbawanga Rural | 225 | 0.25 | 0 | 0.00 | 450 | 0.49 | 900 | 0.99 |
| Nkasi | 0 | 0.00 | 0 | 0.00 | 559 | 1.23 | 447 | 0.99 |
| Sumbawanga Urban | 47 | 0.26 | 0 | 0.00 | 0 | 0.00 | 189 | 1.03 |
| **Total** | **272** | **0.12** | **176** | **0.08** | **2,597** | **1.15** | **1,712** | **0.76** |

**Cont. 9.77 Number of Agricultural Households Reporting the SECOND Most Important Constraint by District, 2007/08 Agricultural Year**

| District | Constraint | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Destruction by Animals | | Stealing | | Pest and Disease | | Local Government Taxation | |
| | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 1,411 | 1.98 | 176 | 0.25 | 706 | 0.99 | 0 | 0.00 |
| Sumbawanga Rural | 1,126 | 1.23 | 1,126 | 1.23 | 1,576 | 1.73 | 0 | 0.00 |
| Nkasi | 1,452 | 3.21 | 670 | 1.48 | 1,341 | 2.96 | 0 | 0.00 |
| Sumbawanga Urban | 0 | 0.00 | 47 | 0.26 | 519 | 2.82 | 0 | 0.00 |
| **Total** | **3,989** | **1.76** | **2,019** | **0.89** | **4,141** | **1.83** | **0** | **0.00** |

**Cont. 9.77 Number of Agricultural Households Reporting the SECOND Most Important Constraint by District, 2007/08 Agricultural Year**

| District | Constraint | | | | | |
|---|---|---|---|---|---|---|
| | Extended dry spell | | Crop Farmers/Livestock keepers Conflicts | | Total | |
| | Number | % | Number | % | Number | % |
| Mpanda | 176 | 0.25 | 1,411 | 1.98 | 71,443 | 100 |
| Sumbawanga Rural | 0 | 0.00 | 225 | 0.25 | 91,170 | 100 |
| Nkasi | 112 | 0.25 | 782 | 1.73 | 45,251 | 100 |
| Sumbawanga Urban | 236 | 1.28 | 47 | 0.26 | 18,385 | 100 |
| **Total** | **524** | **0.23** | **2,466** | **1.09** | **226,250** | **100** |

**9.78 Number of Agricultural Households Reporting the THIRD Most Important Constraint by District, 2007/08 Agricultural Year**

| District | Constraint | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Access to Land | | Ownership of Land | | Poor Soil Cultivation Equipment | | Soil Fertility | |
| | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 1,235 | 1.73 | 882 | 1.23 | 6,703 | 9.38 | 5,998 | 8.40 |
| Sumbawanga Rural | 3,152 | 3.46 | 1,576 | 1.73 | 9,680 | 10.62 | 5,403 | 5.93 |
| Nkasi | 1,564 | 3.46 | 1,229 | 2.72 | 4,916 | 10.86 | 2,793 | 6.17 |
| Sumbawanga Urban | 519 | 2.82 | 0 | 0.00 | 1,650 | 8.97 | 1,744 | 9.49 |
| **Total** | **6,469** | **2.86** | **3,687** | **1.63** | **22,949** | **10.14** | **15,938** | **7.04** |

**Cont. 9.78 Number of Agricultural Households Reporting the THIRD Most Important Constraint by District, 2007/08 Agricultural Year**

| District | Constraint | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Access to Improved Seed | | Irrigation Facilities | | Access to Chemical Inputs | | Cost of Inputs | |
| | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 6,703 | 9.38 | 1,058 | 1.48 | 2,293 | 3.21 | 15,524 | 21.73 |
| Sumbawanga Rural | 6,303 | 6.91 | 2,251 | 2.47 | 2,701 | 2.96 | 17,559 | 19.26 |
| Nkasi | 4,804 | 10.62 | 1,452 | 3.21 | 2,235 | 4.94 | 6,369 | 14.07 |
| Sumbawanga Urban | 2,216 | 12.05 | 283 | 1.54 | 1,697 | 9.23 | 3,206 | 17.44 |
| **Total** | **20,027** | **8.85** | **5,045** | **2.23** | **8,926** | **3.95** | **42,656** | **18.85** |

**Cont. 9.78 Number of Agricultural Households Reporting the THIRD Most Important Constraint by District, 2007/08 Agricultural Year**

| | Constraint | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Extension Services | | Access to Forest Resources | | Hunting and Gathering | | Access to Potable Water | |
| District | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 6,703 | 9.38 | 0 | 0.00 | 0 | 0.00 | 529 | 0.74 |
| Sumbawanga Rural | 14,407 | 15.80 | 0 | 0.00 | 0 | 0.00 | 675 | 0.74 |
| Nkasi | 4,916 | 10.86 | 0 | 0.00 | 0 | 0.00 | 335 | 0.74 |
| Sumbawanga Urban | 1,414 | 7.69 | 0 | 0.00 | 0 | 0.00 | 47 | 0.26 |
| **Total** | **27,441** | **12.13** | **0** | **0.00** | **0** | **0.00** | **1,587** | **0.70** |

**Cont. 9.78 Number of Agricultural Households Reporting the THIRD Most Important Constraint by District, 2007/08 Agricultural Year**

| | Constraint | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Access to Credit | | Access to Off Farm Income | | Threshing | | Harvesting | |
| District | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 12,877 | 18.02 | 2,117 | 2.96 | 176 | 0.25 | 0 | 0.00 |
| Sumbawanga Rural | 10,805 | 11.85 | 1,576 | 1.73 | 0 | 0.00 | 0 | 0.00 |
| Nkasi | 6,592 | 14.57 | 782 | 1.73 | 112 | 0.25 | 223 | 0.49 |
| Sumbawanga Urban | 2,451 | 13.33 | 849 | 4.62 | 47 | 0.26 | 0 | 0.00 |
| **Total** | **32,726** | **14.46** | **5,323** | **2.35** | **335** | **0.15** | **223** | **0.10** |

**Cont. 9.78 Number of Agricultural Households Reporting the THIRD Most Important Constraint by District, 2007/08 Agricultural Year**

| | Constraint | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Crop Storage | | Crop Processing | | Marketing Information | | Higher Transport Costs | |
| District | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 0 | 0.00 | 706 | 0.99 | 1,235 | 1.73 | 882 | 1.23 |
| Sumbawanga Rural | 450 | 0.49 | 0 | 0.00 | 3,152 | 3.46 | 2,926 | 3.21 |
| Nkasi | 447 | 0.99 | 112 | 0.25 | 1,117 | 2.47 | 1,006 | 2.22 |
| Sumbawanga Urban | 47 | 0.26 | 0 | 0.00 | 707 | 3.85 | 330 | 1.79 |
| **Total** | **944** | **0.42** | **817** | **0.36** | **6,211** | **2.75** | **5,144** | **2.27** |

**Cont. 9.78 Number of Agricultural Households Reporting the THIRD Most Important Constraint by District, 2007/08 Agricultural Year**

| | Constraint | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Destruction by Animals | | Stealing | | Pest and Disease | | Local Government Taxation | |
| District | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 882 | 1.23 | 176 | 0.25 | 2,117 | 2.96 | 0 | 0.00 |
| Sumbawanga Rural | 3,602 | 3.95 | 1,576 | 1.73 | 3,377 | 3.70 | 0 | 0.00 |
| Nkasi | 1,341 | 2.96 | 894 | 1.98 | 1,229 | 2.72 | 112 | 0.25 |
| Sumbawanga Urban | 94 | 0.51 | 189 | 1.03 | 707 | 3.85 | 0 | 0.00 |
| **Total** | **5,919** | **2.62** | **2,835** | **1.25** | **7,430** | **3.28** | **112** | **0.05** |

**Cont. 9.78 Number of Agricultural Households Reporting the THIRD Most Important Constraint by District, 2007/08 Agricultural Year**

| District | Constraint | | | | | |
|---|---|---|---|---|---|---|
| | Extended dry spell | | Crop Farmers/Livestock keepers Conflicts | | Total | |
| | Number | % | Number | % | Number | % |
| Mpanda | 529 | 0.74 | 2,117 | 2.96 | 71,443 | 100.00 |
| Sumbawanga Rural | 0 | 0.00 | 0 | 0.00 | 91,170 | 100.00 |
| Nkasi | 0 | 0.00 | 670 | 1.48 | 45,251 | 100.00 |
| Sumbawanga Urban | 189 | 1.03 | 0 | 0.00 | 18,385 | 100.00 |
| **Total** | **718** | **0.32** | **2,787** | **1.23** | **226,250** | **100.00** |

## 9.79 Number of Agricultural Households Reporting the FOURTH Most Important Constraint by District, 2007/08 Agricultural Year

| District | Constraint | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Access to Land | | Ownership of Land | | Poor Soil Cultivation Equipment | | Soil Fertility | |
| | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 1,235 | 1.73 | 1,058 | 1.48 | 4,057 | 5.68 | 6,174 | 8.64 |
| Sumbawanga Rural | 1,576 | 1.73 | 900 | 0.99 | 6,528 | 7.16 | 6,303 | 6.91 |
| Nkasi | 1,117 | 2.47 | 1,117 | 2.47 | 3,575 | 7.90 | 2,570 | 5.68 |
| Sumbawanga Urban | 519 | 2.82 | 94 | 0.51 | 707 | 3.85 | 1,603 | 8.72 |
| **Total** | **4,446** | **1.97** | **3,170** | **1.40** | **14,868** | **6.57** | **16,650** | **7.36** |

**Cont.9.79 Number of Agricultural Households Reporting the FOURTH Most Important Constraint by District, 2007/08 Agricultural Year**

| District | Constraint | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Access to Improved Seed | | Irrigation Facilities | | Access to Chemical Inputs | | Cost of Inputs | |
| | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 6,527 | 9.14 | 1,764 | 2.47 | 2,470 | 3.46 | 8,997 | 12.59 |
| Sumbawanga Rural | 5,853 | 6.42 | 1,576 | 1.73 | 4,952 | 5.43 | 8,554 | 9.38 |
| Nkasi | 4,246 | 9.38 | 559 | 1.23 | 1,899 | 4.20 | 5,698 | 12.59 |
| Sumbawanga Urban | 990 | 5.38 | 236 | 1.28 | 1,603 | 8.72 | 3,300 | 17.95 |
| **Total** | **17,616** | **7.79** | **4,134** | **1.83** | **10,924** | **4.83** | **26,549** | **11.73** |

**Cont. 9.79 Number of Agricultural Households Reporting the FOURTH Most Important Constraint by District, 2007/08 Agricultural Year**

| | Constraint | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Extension Services | | Access to Forest Resources | | Hunting and Gathering | | Access to Potable Water | |
| District | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 7,233 | 10.12 | 176 | 0.25 | 0 | 0.00 | 176 | 0.25 |
| Sumbawanga Rural | 11,256 | 12.35 | 225 | 0.25 | 0 | 0.00 | 225 | 0.25 |
| Nkasi | 3,687 | 8.15 | 112 | 0.25 | 112 | 0.25 | 223 | 0.49 |
| Sumbawanga Urban | 1,179 | 6.41 | 0 | 0.00 | 0 | 0.00 | 141 | 0.77 |
| **Total** | **23,354** | **10.32** | **513** | **0.23** | **112** | **0.05** | **766** | **0.34** |

**Cont. 9.79 Number of Agricultural Households Reporting the FOURTH Most Important Constraint by District, 2007/08 Agricultural Year**

| | Constraint | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Access to Credit | | Access to Off Farm Income | | Threshing | | Harvesting | |
| District | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 9,526 | 13.33 | 6,703 | 9.38 | 0 | 0.00 | 0 | 0.00 |
| Sumbawanga Rural | 11,706 | 12.84 | 4,502 | 4.94 | 675 | 0.74 | 0 | 0.00 |
| Nkasi | 4,693 | 10.37 | 1,117 | 2.47 | 1,899 | 4.20 | 1,006 | 2.22 |
| Sumbawanga Urban | 1,886 | 10.26 | 1,461 | 7.95 | 47 | 0.26 | 47 | 0.26 |
| **Total** | **27,810** | **12.29** | **13,784** | **6.09** | **2,622** | **1.16** | **1,053** | **0.47** |

**Cont. 9.79 Number of Agricultural Households Reporting the FOURTH Most Important Constraint by District, 2007/08 Agricultural Year**

| | Constraint | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Crop Storage | | Crop Processing | | Marketing Information | | Higher Transport Costs | |
| District | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 706 | 0.99 | 1,588 | 2.22 | 3,704 | 5.19 | 1,588 | 2.22 |
| Sumbawanga Rural | 1,576 | 1.73 | 3,827 | 4.20 | 2,926 | 3.21 | 4,277 | 4.69 |
| Nkasi | 1,117 | 2.47 | 112 | 0.25 | 1,452 | 3.21 | 559 | 1.23 |
| Sumbawanga Urban | 94 | 0.51 | 189 | 1.03 | 1,037 | 5.64 | 377 | 2.05 |
| **Total** | **3,493** | **1.54** | **5,715** | **2.53** | **9,121** | **4.03** | **6,801** | **3.01** |

**Cont. 9.79 Number of Agricultural Households Reporting the FOURTH Most Important Constraint by District, 2007/08 Agricultural Year**

| | Constraint | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Destruction by Animals | | Stealing | | Pest and Disease | | Local Government Taxation | |
| District | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 2,999 | 4.20 | 353 | 0.49 | 2,999 | 4.20 | 176 | 0.25 |
| Sumbawanga Rural | 1,801 | 1.98 | 4,952 | 5.43 | 3,602 | 3.95 | 1,351 | 1.48 |
| Nkasi | 2,011 | 4.44 | 1,006 | 2.22 | 3,799 | 8.40 | 0 | 0.00 |
| Sumbawanga Urban | 236 | 1.28 | 330 | 1.79 | 1,697 | 9.23 | 94 | 0.51 |
| **Total** | **7,047** | **3.11** | **6,641** | **2.94** | **12,097** | **5.35** | **1,621** | **0.72** |

**Cont.9.79 Number of Agricultural Households Reporting the FOURTH Most Important Constraint by District, 2007/08 Agricultural Year**

| District | Constraint | | | | | |
|---|---|---|---|---|---|---|
| | Extended dry spell | | Crop Farmers/Livestock keepers Conflicts | | Total | |
| | Number | % | Number | % | Number | % |
| Mpanda | 0 | 0.00 | 1,235 | 1.73 | 71,443 | 100 |
| Sumbawanga Rural | 1,351 | 1.48 | 675 | 0.74 | 91,170 | 100 |
| Nkasi | 112 | 0.25 | 1,452 | 3.21 | 45,251 | 100 |
| Sumbawanga Urban | 424 | 2.31 | 94 | 0.51 | 18,385 | 100 |
| **Total** | **1,887** | **0.83** | **3,457** | **1.53** | **226,250** | **100** |

**9.80 Number of Agricultural Households Reporting the FIFTH Most Important Constraint by District, 2007/08 Agricultural Year**

| District | Constraint | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Access to Land | | Ownership of Land | | Poor Soil Cultivation Equipment | | Soil Fertility | |
| | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 882 | 1.23 | 1,940 | 2.72 | 2,117 | 2.96 | 5,116 | 7.16 |
| Sumbawanga Rural | 1,351 | 1.48 | 1,126 | 1.23 | 5,178 | 5.68 | 4,727 | 5.19 |
| Nkasi | 1,006 | 2.22 | 1,229 | 2.72 | 2,123 | 4.69 | 1,899 | 4.20 |
| Sumbawanga Urban | 283 | 1.54 | 189 | 1.03 | 1,084 | 5.90 | 896 | 4.87 |
| **Total** | **3,521** | **1.56** | **4,484** | **1.98** | **10,502** | **4.64** | **12,638** | **5.59** |

**Cont. 9.80 Number of Agricultural Households Reporting the FIFTH Most Important Constraint by District, 2007/08 Agricultural Year**

| District | Constraint | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Access to Improved Seed | | Irrigation Facilities | | Access to Chemical Inputs | | Cost of Inputs | |
| | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 7,056 | 9.88 | 882 | 1.23 | 2,822 | 3.95 | 6,351 | 8.89 |
| Sumbawanga Rural | 8,104 | 8.89 | 2,026 | 2.22 | 3,827 | 4.20 | 8,329 | 9.14 |
| Nkasi | 4,357 | 9.63 | 559 | 1.23 | 2,682 | 5.93 | 3,911 | 8.64 |
| Sumbawanga Urban | 613 | 3.33 | 0 | 0.00 | 660 | 3.59 | 2,546 | 13.85 |
| **Total** | **20,130** | **8.90** | **3,467** | **1.53** | **9,991** | **4.42** | **21,136** | **9.34** |

**Cont. 9.80 Number of Agricultural Households Reporting the FIFTH Most Important Constraint by District, 2007/08 Agricultural Year**

| District | Constraint | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Extension Services | | Access to Forest Resources | | Hunting and Gathering | | Access to Potable Water | |
| | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 6,703 | 9.38 | 0 | 0.00 | 0 | 0.00 | 706 | 0.99 |
| Sumbawanga Rural | 6,303 | 6.91 | 0 | 0.00 | 0 | 0.00 | 225 | 0.25 |
| Nkasi | 3,128 | 6.91 | 112 | 0.25 | 0 | 0.00 | 223 | 0.49 |
| Sumbawanga Urban | 896 | 4.87 | 0 | 0.00 | 0 | 0.00 | 47 | 0.26 |
| **Total** | **17,031** | **7.53** | **112** | **0.05** | **0** | **0.00** | **1,201** | **0.53** |

**Cont. 9.80 Number of Agricultural Households Reporting the FIFTH Most Important Constraint by District, 2007/08 Agricultural Year**

| | Constraint | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Access to Credit | | Access to Off Farm Income | | Threshing | | Harvesting | |
| District | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 9,879 | 13.83 | 4,939 | 6.91 | 0 | 0.00 | 176 | 0.25 |
| Sumbawanga Rural | 9,905 | 10.86 | 5,178 | 5.68 | 225 | 0.25 | 0 | 0.00 |
| Nkasi | 5,363 | 11.85 | 1,452 | 3.21 | 112 | 0.25 | 335 | 0.74 |
| Sumbawanga Urban | 2,829 | 15.38 | 1,744 | 9.49 | 0 | 0.00 | 47 | 0.26 |
| **Total** | **27,975** | **12.36** | **13,314** | **5.88** | **337** | **0.15** | **559** | **0.25** |

**Cont. 9.80 Number of Agricultural Households Reporting the FIFTH Most Important Constraint by District, 2007/08 Agricultural Year**

| | Constraint | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Crop Storage | | Crop Processing | | Marketing Information | | Higher Transport Costs | |
| District | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 1,764 | 2.47 | 1,058 | 1.48 | 5,998 | 8.40 | 2,293 | 3.21 |
| Sumbawanga Rural | 450 | 0.49 | 0 | 0.00 | 3,377 | 3.70 | 2,476 | 2.72 |
| Nkasi | 2,458 | 5.43 | 112 | 0.25 | 2,458 | 5.43 | 2,682 | 5.93 |
| Sumbawanga Urban | 189 | 1.03 | 236 | 1.28 | 1,414 | 7.69 | 1,037 | 5.64 |
| Total | 4,861 | 2.15 | 1,406 | 0.62 | 13,247 | 5.85 | 8,488 | 3.75 |

**Cont. 9.80 Number of Agricultural Households Reporting the FIFTH Most Important Constraint by District, 2007/08 Agricultural Year**

| | Constraint | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Destruction by Animals | | Stealing | | Pest and Disease | | Local Government Taxation | |
| District | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 4,410 | 6.17 | 529 | 0.74 | 3,175 | 4.44 | 0 | 0.00 |
| Sumbawanga Rural | 1,351 | 1.48 | 900 | 0.99 | 9,905 | 10.86 | 1,351 | 1.48 |
| Nkasi | 1,229 | 2.72 | 1,117 | 2.47 | 4,134 | 9.14 | 0 | 0.00 |
| Sumbawanga Urban | 47 | 0.26 | 660 | 3.59 | 2,169 | 11.79 | 94 | 0.51 |
| **Total** | **7,037** | **3.11** | **3,207** | **1.42** | **19,383** | **8.57** | **1,445** | **0.64** |

**Cont.9.80 Number of Agricultural Households Reporting the FIFTH Most Important Constraint by District, 2007/08 Agricultural Year**

| | Constraint | | | | | |
|---|---|---|---|---|---|---|
| | Extended dry spell | | Crop Farmers/Livestock keepers Conflicts | | Total | |
| District | Number | % | Number | % | Number | % |
| Mpanda | 706 | 0.99 | 1,940 | 2.72 | 71,443 | 100 |
| Sumbawanga Rural | 7,654 | 8.40 | 7,204 | 7.90 | 91,170 | 100 |
| Nkasi | 223 | 0.49 | 2,346 | 5.19 | 45,251 | 100 |
| Sumbawanga Urban | 613 | 3.33 | 94 | 0.51 | 18,385 | 100 |
| **Total** | **9,196** | **4.06** | **11,585** | **5.12** | **226,250** | **100** |

**HOUSEHOLD FACILITIES**

### 10.1 Number of Households Reporting Average Number of Rooms and Type of Building Materials and District, 2007/08 Agricultural Year

| District | Roofing Materials | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Average Number of rooms | Iron Sheets | Tiles | Concrete | Asbestos | Grass/Leaves | Grass & Mud | Other | Total |
| Mpanda | 3 | 19,581 | 0 | 0 | 176 | 47,276 | 4,234 | 176 | 71,443 |
| Sumbawanga Rural | 2 | 32,191 | 1,801 | 0 | 2,026 | 51,776 | 3,377 | 0 | 91,170 |
| Nkasi | 3 | 10,838 | 223 | 223 | 335 | 32,961 | 670 | 0 | 45,251 |
| Sumbawanga Urban | 2 | 7,166 | 0 | 0 | 377 | 10,654 | 189 | 0 | 18,385 |
| **Total** | **3** | **69,775** | **2,024** | **223** | **2,915** | **142,666** | **8,469** | **176** | **226,250** |
| **%** | | **30.8** | **0.9** | **0.1** | **1.3** | **63.1** | **3.7** | **0.1** | **100.0** |

### 10.2 Number of Households Reporting Average Number of Rooms by Type of Floor Materials and District, 2007/08 Agricultural Year

| District | Floor Materials | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Average Number of rooms | Earth, Sand, Dung | Wood Planks, Bamboo, Palm | Parquet Or Polished Wood | Ceramic Tiles, Terrazzo | Cement | Other | Total |
| Mpanda | 3 | 63,152 | 529 | 0 | 176 | 7,585 | 0 | 71,443 |
| Sumbawanga Rural | 2 | 71,585 | 4,052 | 450 | 225 | 14,857 | 0 | 91,170 |
| Nkasi | 3 | 38,659 | 782 | 112 | 112 | 5,587 | 0 | 45,251 |
| Sumbawanga Urban | 2 | 14,143 | 189 | 0 | 47 | 4,007 | 0 | 18,385 |
| **Total** | **3** | **187,539** | **5,552** | **562** | **560** | **32,036** | **0** | **226,250** |
| **%** | | **82.9** | **2.5** | **0.2** | **0.2** | **14.2** | **0.0** | **100.0** |

### 10.3 Number of Households by Type of Wall Materials and District, 2007/08 Agricultural Year

| District | Wall Materials | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Grass | Poles and Mud | Sun-Dried Bricks | Baked Bricks | Wood, Timber | Cement Blocks | Stones | Other | Total |
| Mpanda | 4,410 | 10,937 | 22,403 | 33,340 | 353 | 0 | 0 | 0 | 71,443 |
| Sumbawanga Rural | 2,251 | 2,701 | 8,329 | 75,862 | 0 | 2,026 | 0 | 0 | 91,170 |
| Nkasi | 335 | 1,006 | 17,430 | 25,922 | 223 | 335 | 0 | 0 | 45,251 |
| Sumbawanga Urban | 94 | 613 | 4,808 | 12,823 | 0 | 0 | 0 | 47 | 18,385 |
| **Total** | **7,091** | **15,257** | **52,971** | **147,947** | **576** | **2,361** | **0** | **47** | **226,250** |
| **%** | **3.1** | **6.7** | **23.4** | **65.4** | **0.3** | **1.0** | **0.0** | **0.0** | **100.0** |

**10.4 Number of Agricultural Households Reporting Ownership of Assets by District, 2007/08 Agricultural Year**

| District | Radio | | | Landline phone | | | Mobile phone | | | Iron | | | Wheelbarrow | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Yes | No | Total | Yes | No | Total | Yes | No | Total | Yes | No | Total | Yes | No | Total |
| Mpanda | 51,510 | 19,934 | 71,443 | 706 | 70,738 | 71,443 | 18,346 | 53,097 | 71,443 | 14,818 | 56,626 | 71,443 | 2,822 | 68,621 | 71,443 |
| Sumbawanga Rural | 50,425 | 40,745 | 91,170 | 225 | 90,945 | 91,170 | 20,035 | 71,135 | 91,170 | 16,208 | 74,962 | 91,170 | 3,377 | 87,793 | 91,170 |
| Nkasi | 28,491 | 16,760 | 45,251 | 670 | 44,581 | 45,251 | 9,721 | 35,530 | 45,251 | 10,838 | 34,413 | 45,251 | 2,682 | 42,569 | 45,251 |
| Sumbawanga Urban | 11,031 | 7,354 | 18,385 | 94 | 18,291 | 18,385 | 2,546 | 15,840 | 18,385 | 2,640 | 15,745 | 18,385 | 660 | 17,725 | 18,385 |
| **Total** | **141,457** | **84,792** | **226,250** | **1,695** | **224,554** | **226,250** | **50,647** | **175,603** | **226,250** | **44,504** | **181,746** | **226,250** | **9,541** | **216,709** | **226,250** |
| % | **63** | **37** | **100** | **1** | **99** | **100** | **22** | **78** | **100** | **20** | **80** | **100** | **4** | **96** | **100** |

**Cont. 10.4 Number of Agricultural Households Reporting Ownership of Assets by District, 2007/08 Agricultural Year**

| District | Bicycle | | | Vehicle | | | Television / Video | | | Refrigerator | | | Motor Cycle | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Yes | No | Total | Yes | No | Total | Yes | No | Total | Yes | No | Total | Yes | No | Total |
| Mpanda | 49,393 | 22,050 | 71,443 | 1,235 | 70,209 | 71,443 | 882 | 70,561 | 71,443 | 176 | 71,267 | 71,443 | 2,470 | 68,974 | 71,443 |
| Sumbawanga Rural | 37,143 | 54,027 | 91,170 | 1,576 | 89,594 | 91,170 | 1,126 | 90,044 | 91,170 | 675 | 90,495 | 91,170 | 2,251 | 88,919 | 91,170 |
| Nkasi | 18,212 | 27,039 | 45,251 | 447 | 44,804 | 45,251 | 1,117 | 44,134 | 45,251 | 335 | 44,916 | 45,251 | 782 | 44,469 | 45,251 |
| Sumbawanga Urban | 8,533 | 9,853 | 18,385 | 849 | 17,537 | 18,385 | 141 | 18,244 | 18,385 | 0 | 18,385 | 18,385 | 47 | 18,338 | 18,385 |
| **Total** | **113,281** | **112,969** | **226,250** | **4,106** | **222,144** | **226,250** | **3,266** | **222,983** | **226,250** | **1,187** | **225,063** | **226,250** | **5,550** | **220,700** | **226,250** |
| **%** | **50** | **50** | **100** | **2** | **98** | **100** | **1** | **99** | **100** | **1** | **99** | **100** | **2** | **98** | **100** |

### 10.5 Number of Agricultural Households Reporting Main Source of Energy for Lighting by District, 2007/08 Agricultural Year

| District | Electricity | Solar | Gas (Biogas) | Hurricane Lamp | Pressure Lamp | Wick Lamp | Candles | Firewood | Other | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Mpanda | 529 | 176 | 0 | 15,700 | 1,411 | 52,039 | 529 | 529 | 529 | 71,443 |
| Sumbawanga Rural | 1,126 | 675 | 0 | 14,182 | 4,277 | 69,784 | 225 | 675 | 225 | 91,170 |
| Nkasi | 112 | 559 | 0 | 16,424 | 894 | 27,039 | 223 | 0 | 0 | 45,251 |
| Sumbawanga Urban | 141 | 0 | 0 | 1,461 | 471 | 16,122 | 47 | 141 | 0 | 18,385 |
| **Total** | **1,908** | **1,410** | **0** | **47,768** | **7,054** | **164,985** | **1,025** | **1,346** | **754** | **226,250** |
| **%** | **1** | **0.6** | **0.0** | **21.1** | **3.1** | **72.9** | **0.5** | **0.6** | **0.3** | **100.0** |

### 10.6 Number of Agricultural Households Reporting Main Source of Energy for Cooking by District, 2007/08 Agricultural Year

| District | Electricity | Solar | Gas(Biogas) | Bottled Gas(Industrial) | Parraffin / Kerosine | Charcoal | Firewood | Crop Residues | Livestock Dung | Other | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mpanda | 353 | 0 | 176 | 706 | 0 | 5,821 | 64,387 | 0 | 0 | 0 | 71,443 |
| Sumbawanga Rural | 900 | 0 | 450 | 225 | 225 | 6,978 | 81,265 | 1,126 | 0 | 0 | 91,170 |
| Nkasi | 223 | 0 | 0 | 0 | 0 | 5,698 | 39,329 | 0 | 0 | 0 | 45,251 |
| Sumbawanga Urban | 94 | 0 | 0 | 0 | 47 | 519 | 17,631 | 47 | 47 | 0 | 18,385 |
| **Total** | **1,571** | **0** | **627** | **931** | **272** | **19,017** | **202,613** | **1,173** | **47** | **0** | **226,250** |
| **%** | **0.7** | **0.0** | **0.3** | **0.4** | **0.1** | **8.4** | **89.6** | **0.5** | **0.0** | **0.0** | **100.0** |

### 10.7 Number of Agricultural Households Reporting Main Source of Drinking Water During Wet Season by District, 2007/08 Agricultural Year

| District | Piped Water | Protected Well | Protected / Covered Spring | Unprotected Well | Unprotected Spring | Surface Water (Lake / Dam / River / Stream) | Covered Rainwater Catchments | Uncovered Rainwater Catchments | Water Vendor | Tanked Truck | Bottled water | Other | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mpanda | 8,467 | 22,403 | 176 | 22,580 | 4,763 | 12,172 | 176 | 706 | 0 | 0 | 0 | 0 | 71,443 |
| Sumbawanga Rural | 24,087 | 10,130 | 2,026 | 15,308 | 11,706 | 27,013 | 450 | 225 | 0 | 225 | 0 | 0 | 91,170 |
| Nkasi | 3,352 | 16,536 | 1,899 | 7,039 | 4,246 | 9,944 | 670 | 1,452 | 0 | 0 | 0 | 112 | 45,251 |
| Sumbawanga Urban | 6,836 | 2,121 | 2,546 | 3,064 | 1,037 | 1,320 | 0 | 1,226 | 0 | 47 | 0 | 189 | 18,385 |
| **Total** | **42,742** | **51,191** | **6,647** | **47,990** | **21,752** | **50,449** | **1,297** | **3,609** | **0** | **272** | **0** | **300** | **226,250** |
| **%** | **18.9** | **22.6** | **2.9** | **21.2** | **9.6** | **22.3** | **0.6** | **1.6** | **0.0** | **0.1** | **0.0** | **0.1** | **100.0** |

### 10.8 Number of Agricultural Households Reporting Distance to Main Source of Drinking Water During Wet Season by District, 2007/08 Agricultural Year

| District | Less than 100m | 100-299 m | 300-499 m | 500-999 m | 1-1.99 Km | 2-2.99 Km | 3-4.99 Km | 5-9.99 Km | 10Km and above | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Mpanda | 5,292 | 21,168 | 2,646 | 26,461 | 10,584 | 5,292 | 0 | 0 | 0 | 71,443 |
| Sumbawanga Rural | 16,883 | 3,377 | 13,507 | 20,260 | 33,767 | 3,377 | 0 | 0 | 0 | 91,170 |
| Nkasi | 8,380 | 8,380 | 0 | 15,084 | 11,732 | 1,676 | 0 | 0 | 0 | 45,251 |
| Sumbawanga Urban | 3,536 | 5,657 | 0 | 7,778 | 1,414 | 0 | 0 | 0 | 0 | 18,385 |
| **Total** | **34,091** | **38,582** | **16,153** | **69,583** | **57,497** | **10,345** | **0** | **0** | **0** | **226,250** |
| **%** | **15** | **17** | **7** | **31** | **25** | **5** | **0** | **0** | **0** | **100** |

### 10.9 Number of Agricultural Households Reporting Time Spent to and from Main Source of Drinking Water during Wet Season by District, 2007/08 Agricultural Year

| District | Less than 10 Minutes | 10-19 Minutes | 20-29 Minutes | 30-39 Minutes | 40-49 Minutes | 50-59 Minutes | One Hour and above | Total |
|---|---|---|---|---|---|---|---|---|
| Mpanda | 10,584 | 5,292 | 2,646 | 26,461 | 0 | 0 | 26,461 | 71,443 |
| Sumbawanga Rural | 27,013 | 6,753 | 6,753 | 40,520 | 0 | 0 | 10,130 | 91,170 |
| Nkasi | 8,380 | 5,028 | 6,704 | 13,408 | 0 | 6,704 | 5,028 | 45,251 |
| Sumbawanga Urban | 4,243 | 707 | 1,414 | 9,193 | 0 | 1,414 | 1,414 | 18,385 |
| **Total** | **50,220** | **17,780** | **17,517** | **89,581** | **0** | **8,118** | **43,033** | **226,250** |
| **%** | **22.2** | **7.9** | **7.7** | **39.6** | **0.0** | **3.6** | **19.0** | **100.0** |

### 10.10 Number of Agricultural Households Reporting Main Source of Drinking Water during Dry Season by District, 2007/08 Agricultural Year

| District | Piped Water | Protected Well | Protected / Covered Spring | Uprotected Well | Unprotected Spring | Surface Water (Lake / Dam / River / Stream) | Covered Rainwater Catchments | Uncovered Rainwater Catchments | Water Vendor | Tanker truck | Bottled water | Other | Total Households |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mpanda | 8,820 | 21,521 | 176 | 22,227 | 5,469 | 12,701 | 176 | 353 | 0 | 0 | 0 | 0 | 71,443 |
| Sumbawanga Rural | 23,637 | 9,905 | 2,251 | 17,559 | 11,481 | 24,987 | 450 | 225 | 0 | 450 | 225 | 0 | 91,170 |
| Nkasi | 3,128 | 16,648 | 1,341 | 7,262 | 4,134 | 9,832 | 782 | 112 | 1,899 | 0 | 0 | 112 | 45,251 |
| Sumbawanga Urban | 6,506 | 2,169 | 2,451 | 4,054 | 1,461 | 1,320 | 94 | 141 | 94 | 47 | 0 | 47 | 18,385 |
| **Total** | **42,091** | **50,243** | **6,220** | **51,102** | **22,545** | **48,841** | **1,503** | **831** | **1,994** | **497** | **225** | **159** | **226,250** |
| **%** | **18.6** | **22.2** | **2.7** | **22.6** | **10.0** | **21.6** | **0.7** | **0.4** | **0.9** | **0.2** | **0.1** | **0.1** | **100.0** |

### 10.11 Number of Agricultural Households Reporting Distance to Main Source of Drinking Water during Dry Season by District, 2007/08 Agricultural Year

| District | Less than 100m | 100-299 m | 300-499 m | 500-999 m | 1-1.99 Km | 2-2.99 Km | 3-4.99 Km | 5-9.99 Km | 10Km and above | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| Mpanda | 5,292 | 21,168 | 2,646 | 21,168 | 15,876 | 5,292 | 0 | 0 | 0 | 71,443 |
| Sumbawanga Rural | 16,883 | 3,377 | 13,507 | 20,260 | 33,767 | 3,377 | 0 | 0 | 0 | 91,170 |
| Nkasi | 8,380 | 10,056 | 1,676 | 10,056 | 11,732 | 3,352 | 0 | 0 | 0 | 45,251 |
| Sumbawanga Urban | 2,121 | 5,657 | 0 | 7,778 | 2,829 | 0 | 0 | 0 | 0 | 18,385 |
| **Total** | **32,677** | **40,258** | **17,829** | **59,263** | **64,203** | **12,021** | **0** | **0** | **0** | **226,250** |
| **%** | **14.4** | **17.8** | **7.9** | **26.2** | **28.4** | **5.3** | **0.0** | **0.0** | **0.0** | **100.0** |

### 10.12 Number of Agricultural Households Reporting Time Spent to and from Main Source of Drinking Water during Dry Season by District, 2007/08 Agricultural Year

| District | Less than 10 Minutes | 10 - 19 Minutes | 20 - 29 Minutes | 30 - 39 Minutes | 40 - 49 Minutes | 50 - 59 Minutes | One Hour and above | Total |
|---|---|---|---|---|---|---|---|---|
| Mpanda | 5,292 | 7,938 | 2,646 | 21,168 | 0 | 2,646 | 31,753 | 71,443 |
| Sumbawanga Rural | 27,013 | 3,377 | 6,753 | 27,013 | 0 | 3,377 | 23,637 | 91,170 |
| Nkasi | 5,028 | 1,676 | 3,352 | 18,436 | 0 | 6,704 | 10,056 | 45,251 |
| Sumbawanga Urban | 3,536 | 707 | 707 | 9,900 | 0 | 0 | 3,536 | 18,385 |
| **Total** | **40,869** | **13,698** | **13,458** | **76,517** | **0** | **12,727** | **68,981** | **226,250** |
| **%** | **18.1** | **6.1** | **5.9** | **33.8** | **0.0** | **5.6** | **30.5** | **100.0** |

### 10.13 Number of Agricultural Households Reporting type of TOILET Normally Used by District, 2007/08 Agricultural Year

| District | No Toilet / Bush | Flush Toilet | Traditional Pit Latrine | Improved Pit Latrine | Other Type | Total |
|---|---|---|---|---|---|---|
| Mpanda | 1,940 | 1,588 | 65,446 | 2,470 | 0 | 71,443 |
| Sumbawanga Rural | 1,801 | 1,351 | 86,443 | 1,576 | 0 | 91,170 |
| Nkasi | 1,006 | 559 | 41,117 | 2,570 | 0 | 45,251 |
| Sumbawanga Urban | 283 | 189 | 17,301 | 613 | 0 | 18,385 |
| **Total** | **5,030** | **3,686** | **210,306** | **7,228** | **0** | **226,250** |
| **%** | **2.2** | **1.6** | **93.0** | **3.2** | **0.0** | **100.0** |

### 10.14 Number of Agricultural Households Reporting Number of Days the Household Consumed Meat during the Preceding Week by District, 2007/08 Agricultural Year

| District | Not Eaten | One | Two | Three | Four | Five | Six | Seven | Total |
|---|---|---|---|---|---|---|---|---|---|
| Mpanda | 24,167 | 30,518 | 11,643 | 4,234 | 882 | 0 | 0 | 0 | 71,443 |
| Sumbawanga Rural | 29,039 | 34,667 | 20,035 | 5,403 | 1,126 | 900 | 0 | 0 | 91,170 |
| Nkasi | 12,849 | 17,765 | 9,497 | 4,357 | 447 | 112 | 112 | 112 | 45,251 |
| Sumbawanga Urban | 7,307 | 8,061 | 2,121 | 660 | 141 | 47 | 47 | 0 | 18,385 |
| **Total** | **73,363** | **91,011** | **43,296** | **14,654** | **2,596** | **1,059** | **159** | **112** | **226,250** |
| % | **32.4** | **40.2** | **19.1** | **6.5** | **1.1** | **0.5** | **0.1** | **0.0** | **100.0** |

### 10.15 Number of Agricultural Households Reporting Number of Days the Household Consumed Fish During the Preceding Week by District, 2007/08 Agricultural Year

| District | Not Eaten | One | Two | Three | Four | Five | Six | Seven | Total |
|---|---|---|---|---|---|---|---|---|---|
| Mpanda | 15,524 | 26,284 | 12,701 | 9,173 | 2,470 | 1,058 | 706 | 3,528 | 71,443 |
| Sumbawanga Rural | 15,983 | 18,009 | 23,412 | 11,706 | 7,429 | 5,178 | 2,701 | 6,753 | 91,170 |
| Nkasi | 6,369 | 8,492 | 6,816 | 5,251 | 2,123 | 2,235 | 2,793 | 11,173 | 45,251 |
| Sumbawanga Urban | 3,064 | 5,138 | 5,280 | 2,687 | 1,131 | 660 | 94 | 330 | 18,385 |
| **Total** | **40,939** | **57,923** | **48,208** | **28,817** | **13,153** | **9,131** | **6,294** | **21,784** | **226,250** |
| % | **18.1** | **25.6** | **21.3** | **12.7** | **5.8** | **4.0** | **2.8** | **9.6** | **100.0** |

### 10.16 Number of Agricultural Households Reporting the Status of Food Satisfaction of the Household During the Preceeding Year by District, 2007/08 Agricultural Year

| District | Never | Seldom | Sometimes | Often | Always | Total |
|---|---|---|---|---|---|---|
| Mpanda | 39,514 | 22,050 | 3,881 | 2,999 | 2,999 | 71,443 |
| Sumbawanga Rural | 35,117 | 39,845 | 9,004 | 5,403 | 1,801 | 91,170 |
| Nkasi | 22,905 | 15,977 | 4,581 | 1,229 | 559 | 45,251 |
| Sumbawanga Urban | 9,381 | 5,280 | 1,131 | 1,320 | 1,273 | 18,385 |
| **Total** | **106,918** | **83,152** | **18,598** | **10,951** | **6,631** | **226,250** |
| **%** | **47.3** | **36.8** | **8.2** | **4.8** | **2.9** | **100.0** |

### 10.17 Number of Agricultural Households Reporting Main Source of Income by District, 2007/08 Agricultural Year

| District | Sales of Food Crops | Sale of Livestock | Sale of Livestock Products | Sales of Cash Crops | Sale of Forest Products | Business Income | Wages & Salaries in Cash |
|---|---|---|---|---|---|---|---|
| Mpanda | 47,100 | 882 | 882 | 8,820 | 1,764 | 3,352 | 1,058 |
| Sumbawanga Rural | 83,291 | 1,126 | 225 | 225 | 675 | 2,251 | 450 |
| Nkasi | 33,743 | 894 | 335 | 447 | 559 | 1,788 | 782 |
| Sumbawanga Urban | 14,237 | 141 | 330 | 0 | 0 | 1,461 | 236 |
| **Total** | **178,370** | **3,043** | **1,772** | **9,492** | **2,998** | **8,852** | **2,526** |
| **%** | **86.1** | **1.5** | **0.9** | **4.6** | **1.4** | **4.3** | **1.2** |

### Cont. 10.17 Number of Agricultural Households Reporting Main Source of Income by District, 2007/08 Agricultural Year

| District | Other Casual Cash Earnings | Cash Remittance | Fishing | Other | Not applicable | Total |
|---|---|---|---|---|---|---|
| Mpanda | 5,116 | 706 | 1,588 | 0 | 176 | 63,858 |
| Sumbawanga Rural | 2,701 | 225 | 0 | 0 | 0 | 88,244 |
| Nkasi | 3,352 | 112 | 3,240 | 0 | 0 | 38,547 |
| Sumbawanga Urban | 1,603 | 330 | 0 | 0 | 47 | 16,405 |
| **Total** | **12,772** | **1,372** | **4,828** | **0** | **224** | **207,054** |
| **%** | **6.2** | **0.7** | **2.3** | **0.0** | **0.1** | **100** |

**10.18 Number of Agricultural Households Involved in Off Farm Income Generating Activities by Number of off farm Income Activities and District , 2007/08 Agricultural Year**

| District | One Off Farm Income | | Two Off Farm Income | | More than two Off Farm Income | | Total | |
|---|---|---|---|---|---|---|---|---|
| | Number | % | Number | % | Number | % | Number | % |
| Mpanda | 20,110 | 63 | 8,291 | 26 | 3,352 | 11 | 31,753 | 100 |
| Sumbawanga Rural | 18,909 | 57 | 10,130 | 31 | 4,052 | 12 | 33,091 | 100 |
| Nkasi | 10,391 | 63 | 4,693 | 29 | 1,341 | 8 | 16,424 | 100 |
| Sumbawanga Urban | 4,431 | 57 | 2,876 | 37 | 519 | 7 | 7,826 | 100 |
| Total | 53,842 | 60 | 25,989 | 29 | 9,263 | 10 | 89,094 | 100 |

## APPENDIX III QUESTIONNAIRES

**United Republic of Tanzania**

*ACQ1* *CONFIDENTIAL*

## Small holder/Small Scale Farmer questionnaire

Identification

# Agricultural Sample Census
# 2007/2008

**Enumerator Name** ..... **Signature** .....

**Date of Enumeration**

d d / m m / y y y y

**Start Time**

**End Time**

| Hour | Minutes |
|---|---|
| | |
| | |

**Field level checking by:**

| | | | | | |
|---|---|---|---|---|---|
| District Supervisor | Name ..... | Signature ..... | Date / / | *I To be filled by the supervisor ONLY after Field/farm level checking of the enumeration process. This should be countersigned by the Supervisor in front of the enumerator* |
| Regional Supervisor | Name ..... | Signature ..... | Date / / | |
| National Supervisor | Name ..... | Signature ..... | Date / / | |

**Distric checking in Office**

| | | | | |
|---|---|---|---|---|
| District Supervisor | Name ..... | Signature ..... | Date / / | *All questionnaires must be checked at the district office.* |

**For Use at Regional Level Only**

| | | | | |
|---|---|---|---|---|
| Data entered by: | Name ..... | Signature ..... | Date / / | *See the back page for details of queries* |
| Queried | Name ..... | Signature ..... | Date / / | |

*Ministry of Agriculture and Food Security, Ministry of Livestock and Fisheries Development, Ministry of Agriculture and Environment of Zanzibar, Ministry of Water and Irrigation, Prime Ministers' Office Regional Administration and Local Government, Ministry of Industry Trade and Marketing, National Bureau of Statistics, and the Office of the Government Statistician General of Revolution Governemnet of Zanzibar*

## Definition and working page for page 1

### General Definitions

Who is a Smallholder /Small Scale farmer?
Should have one or more of the following: in the 2007/08 farming season had one or more cultivated and planted farms. The farm land may either be owned, rented, borrowed. The farmer may also be raising 1 and 50 head of cattle, and/or between 5 and 100 head of sheep/Goats/Pigs, and/or between 50 and 1000

**Household**: A group of people who occupy the whole of part one or more housing units and makes joint provision for food and/or other household items. Usually such a group comprises a husband, wife, and their children. Other relatives may be members of the household if they happen to live and get food provisions from the same household. People who live together and eat from the same pot may be considered as member s of the same household even if they stay in separate dwellings. An individual who lives and east alone is considered as an independent household.

**Household Head**: A person who is acknowledged by all other members of the household either by virtue of his age or standing in the household as the head. He/she should be a permanent resident of the house and he/she is the main person responsible for decision making regarding use of household resources..

**Agricultural Holding**: This is an economic unit of agricultural production under single management. This unit may have been grown various crops. For the purpose of the survey, the agricultural holdings are restricted to those which meet one of the following conditions:
- Having or operated at least 25 sq meter of arable land
- Own or keep at least one head of cattle or five goats/sheep/five pigs or fifty chicken/ducks/turkeys during the agricultural year 2007/08 (from October 2007 to September 2008).

### Question Specific Definitions:

**Type of Agriculture holding Codes (Q2.1)**:
**Crops only**: A holding is referred to be a crop only holding if it has cultivated at least one piece of land. This also applies to all households owning or have kept livestock whose number does not qualify such households to be an agricultural holding (No cattle, less than 5 goats/sheep/pigs, less than 50 chickens/turkeys/rabbits).

**Livestock only**: A holding is referred to be a livestock only holding if it has exercised livestock husbandry only during the 2007/08 agricultural year.

**NOTE**
For agricultural holding only and pastoralist holding only; the number of livestock should be at least one head of cattle, not less than five goats/sheep/pigs, not less than 50 chickens /turkeys /rabbits. This also applies to households having or operated less than 25 sq meter of cultivated land (which does not qualify the household to be considered as agricultural holding) but has the number of livestock that makes the holding qualifies to be considered as livestock holding.

**Pastoralist holding**: This refers to a household which practices livestock production as its major income generating activity and a means of subsistence, but moves from one place to another searching for water and pasture for the livestock. This movement usually involves long distances and in many cases the whole household unit moves with the livestock and they have no permanent place of residence.

**Both crops and livestock**: A holding is referred to be a both crops and livestock if it has cultivated a piece of land equal or exceeding 25 sq meter and if such households have own or kept livestock whose number qualify such household be considered as an agricultural holding.

### Procedures for questions:

Q 2.1 Type of agriculture household/holding

Using the options under the question classify the type of agriculture household/holding

Note: If the household had an acre of crops and raised 40 chickens during 2007/08, it is classified as 'Crops only' as the number of chickens does not qualify the household as a livestock holding.

**1.0 IDENTIFICATION DETAILS**

**Identification**

1.1 **Location**

| Na. | Location Name | Codes |
|---|---|---|
| 1.1.1 | Rgion …… | |
| 1.1.2 | District …… | |
| 1.1.3 | Ward …… | |
| 1.1.4 | Village …… | |

1.2 Deatails of the respondent or household head

| Na. | | Codes |
|---|---|---|
| 1.2.1 | Name and number of local leader | |
| 1.2.2 | Name and number of household head …….. | |
| 1.2.3 | **Sex of household head** | |
| 1.2.4 | Name of respondent …….. | |
| 1.2.5 | **Relationship of Respondent to household head** | |

***Relationship to household head codes (Q 1.2.5)***

*Head of Household ……..1 Son /Daughter…….3 Grandson/Granddaughter…….5 No relationship…….7*

*Spouse……..2 Father/Mother……..4 Other relatives……6*

**2.0 ACTIVITIES OF THE HOUSEHOLD**

| | | |
|---|---|---|
| 2.1 | Typeof Agriculture Household | |

***Household agricultural activities codes(Q 2.1)***

*Crops only……..1 Livestock only ……..2 Pastoralist……..3 Crops and Livestock ……..4*

**Definition and working page for page 2**

**Question Specific Definitions:**

**Relation to head (Col 2):**

**Household Head:** A person who is acknowledged by all other members of the household either by virtue of their age or standing as the household head.

**Read and Write (Col 8)**

**Any other language: Must be a written language.**

For someone who can read and write in Kiswahili and any other language apart from English, the correct code is 1. For one who can read and write in English and any other language apart from Kiswahili the the correct code is 2. Code 4 should only be used for any other language which is not English or Kiswahili.

**Education Level Reached (Col 10):**

Ask the respondent the highest educational level reached. This aims at establishing whether at the time of enumeration the member of the household is studying has completed or has never studied. Make further enquiry for the level of education reached for those who have completed studies. Establish if the member had attained any training after graduation for the purposes for completing column number 9. For those who still continue attending studies during the period of this survey, establish their learning stage. For instance for a household member who studied up to Standard Three but did complete his/her education at this level, then his/her highest education level reached is Standard Two. For those indicated under code 3 (not studied) in column 8 should be marked code 99 (Not applicable) in column 9.

**Section 3.0 Note**

Make sure that you define the hh proper to ensure that all the members of the hh are included. Ensure that you stress that the hh is not just the hh heads direct family and that it includes other people living and eating together with the family.

If you notice that the hh is large or you see many people around the hh and you have been given a smaller number of the hh members, make further enquiries until you are sure that you have captured all the hh members.

**Section 3.0 Household information.**

ii) For each household member complete columns 1,2,3 and 3
After completing columns 1, 2, 3 and 3 for each household member, go back to the first household member and complete the remaining columns for that member.
iii) Repeat step 2 for the rest of the household members.

**3.0 HOUSEHOLD INFORMATION** Identification

**3.1** Give details of personal particulars of all hh members beginning with hh head

| Na. | Names of hh members *(Start with hh Head)* | Ex Start with hh Head | Sex M = 1 F = 2 | Age *( 98 years or more enter 97, under one year old write 00)* | Marital Status | Parental Survival | | Not applicable for children under 5 years | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Mother | Father | Reard and Write | Education status | Levek of education attained | On farm engagements | Main activity | Off farm income yes=1 no=2 |
| | *(1)* | *(2)* | *(3)* | *(4)* | *(5)* | *(6)* | *(7)* | *(8)* | *(9)* | *(10)* | *(11)* | *(12)* | *(13)* |
| 01 | ……..… | 1 | | | | | | | | | | | |
| 02 | ……..… | | | | | | | | | | | | |
| 03 | ……..… | | | | | | | | | | | | |
| 04 | ……..… | | | | | | | | | | | | |
| 05 | ……..… | | | | | | | | | | | | |
| 06 | ……..… | | | | | | | | | | | | |
| 07 | ……..… | | | | | | | | | | | | |
| 08 | ……..… | | | | | | | | | | | | |
| 09 | ……..… | | | | | | | | | | | | |
| 10 | ……..… | | | | | | | | | | | | |
| 11 | ……..… | | | | | | | | | | | | |
| 12 | ……..… | | | | | | | | | | | | |
| 13 | ……..… | | | | | | | | | | | | |
| 14 | ……..… | | | | | | | | | | | | |
| 15 | ……..… | | | | | | | | | | | | |
| 16 | ……..… | | | | | | | | | | | | |
| 17 | ……..… | | | | | | | | | | | | |
| 18 | ……..… | | | | | | | | | | | | |
| 19 | ……..… | | | | | | | | | | | | |
| 20 | ……..… | | | | | | | | | | | | |
| 21 | ……..… | | | | | | | | | | | | |
| 22 | ……..… | | | | | | | | | | | | |
| 23 | ……..… | | | | | | | | | | | | |
| 24 | ……..… | | | | | | | | | | | | |
| 25 | ……..… | | | | | | | | | | | | |
| 26 | ……..… | | | | | | | | | | | | |
| 27 | ……..… | | | | | | | | | | | | |
| 28 | ……..… | | | | | | | | | | | | |
| 29 | ……..… | | | | | | | | | | | | |
| 30 | ……..… | | | | | | | | | | | | |
| 31 | ……..… | | | | | | | | | | | | |
| 32 | ……..… | | | | | | | | | | | | |
| 33 | ……..… | | | | | | | | | | | | |

***Relationship to household head (Col 2)***

*Head of household.....1*
*Female/Male…..…..…..2*
*Son/Daugther…….....3*
*Father/Mother…….....….4*
*Grandson/daughter….5*
*Other Relatives.....6*

***Marrital Status(Col 4)***

*Married.....……..…..1*
*Single.....……..…..2*
*Co-habiting .....3*
*Divorced*
*Separated..... ……..…..…..4*
*Widow/widower...……..…..5*

***Survival of Parents( Col 6 & 7)***

*Yes.....…1 No .....2*
*Dont't know ...……..…….3*

***Ed.ucation Level(Col 9)***

*Studying ……..1*
*Has completed…….....2*
*Never been to school ..…..3*

***Reading and writing (Col 8)***

*Kiswahili…….....……..1*
*English …….....……2*
*Kiswahili and English….....3*
*Lugha nyingine…….....…...4*
*Canno tread or write.....….5*

***Education Level (Col 10)***

| ***Primary education*** | ***Secondary Education*** |
|---|---|
| *Below Standard One.....00* | *Form One.....11* |
| *Standard One .....01* | *Form Two .....12* |
| *Standard Two.....02* | *Fomr Three.....13* |
| *S tandard Three.....03* | *Form Four ..... 14* |
| *S tandard Four.....04* | *Form Five .....15* |
| *S tandard Five.....05* | *Form Six .....16* |
| *S tandard S ix .....06* | *Training after Seo.ondary Ed.....17* |
| *S tandard Seven.....07* | *University and other Tertiary Ed...8* |
| *Daras S tandard E ight ..08* | *Adult* |
| *Education.....19* | |
| *Training after Primary Ed...09* | *Not apllicable .....99* |
| *Pre Form One.....10* | |

***Involvement in farming activitie (Col 11)***

*Works on farm full time.…..1*
*Works on farm part time…..2*
*Rarely works on farm.....3*
*Never works on farm..... 4*

..... **Main activity (Col 12)**

Crop farming: ……..01.
Livestock farming/herding: ….02.
Pastoralist ……..03
Fishing ……..04
Fish farming ……..05
Paid employment / Government/parastal……06
Private/NGOs ……07
Self employee (Off- farm cativities)
- With employees ……...08
- Without employees ……..09

Non paid household member (off – farm activities) ……10.
Unemployed but available for work ….11
Unemployed but unavailable for work..12
House mother ……13
Student ……14
Unable to work too old, too young, retired, disabled,child 15
Others (specify) ……..…..*98*

**Off-farm Income (Col 13)**

These are income made from activities NOT on the HH's farming activites. This can be from formal employmenbt (e.g. in gpvrenment etc.), temporary jobs, casual labourers and income generation activity and includes working for cash on other people's farms.
Indicate whether each member was involved in an off farm income generating activity during 2007/08

**Definitions and working page for page 3**

**Definitions for Key Specific Questions**
**Section 4.1 – Land Access/Ownership**
These are areas that were used by the households for the 2007/08 farming season

**Lease/Certificate of Ownership**: Area under lease/certificate of ownership refers to the areas which were issued by the government. The household possesses government issued leasehold little or certificate of ownership. The land will normally be officially surveyed and boundaries marked. This includes leased land bought from others where the lease/certificate of ownership has been transferred.

**Customary Law**: This refers to the land which the household does not have an official government but its right of use is granted by the traditional leaders.
**Bought**: This refers to the areas of customary land that has been bought from others. This land does not have an official title and therefore is not leasehold.
**Rented from others**: Land rented from others for cash or for a fixed amount in crop produce (e.g. fixed number of bags at harvest).

**Borrowed**: use granted by land owner free of charge. Land owner can either be a lease holder or has right of access through customary law.
**Share cropping:** where the household is permitted to use land which is then paid for from a percentage of the harvested crop

**Section 4.2 Land Use**
Temporary crops: are sown and harvested during the same agricultural year
Permanent crops: are crops once sown or planted last for some years and need not to be replanted after each annual harvest.
Permanent crops /mixed crops: This is a mixture of permanent and seasonal crops. The two crops can either be randomly planted together or in a particular pattern e; for example intercropping (1 row of maize and 1 row of beans). A field that has been divided into plots for different crops is not mixed).
This is further subdivided into:
Mixture of Permanent crops – two or more permanent crops grown tougher
Mixture of Permanent and Temporary crops – permanent crop and annual crop together
Mixture of Temporary crops– two or more temporary, annual crops grown together
**Pasture land**: this is an area of owned/allocated land which is set aside for livestock grazing. It can be improved pasture where the farmer has planted grass, applied fertilized or where other means have been applied to improve the pasture. Or it can be natural pasture.
**Natural Bush**: Land which has naturally grown shrubs and trees and is considered productive but is not utilized for farming or livestock production.

**Overview to section 4**

**Overview to section 4**
**Section 4.0: Preliminary note**
**Land Access/Ownership**
Land access/ownership refers to the area utilized by the members of the household. This does not include communal land where the resources are shared between household members. It does not include official communal land that the household has sole access to for example a plot for crop farming in the communal area.

**Procedures for questions**

**Section 4.0 – Land Ownership**
1. Ask the respondent if he knows the total areas of land the household has sole access to. If he knows make a note in the calculation space
2 Ask the respondent the area of the different land ownership categories the household has sole access to (Q4.1, 1 to 4.1.7) and record in the appropriate spaces.
3. Add up the area of the different categories of land and compare it with the total area obtained in step 1 (if the respondent provided the information)
4. If the total area is different find out which one is correct and make

**Section 4.2: Land Use**
1. Ask the respondent the area of the different land use categories the household has sole access to (Q4.2.1 to 4.2.12) and record in the appropriate spaces.

2. Add up the area of the different categories of land and compare it with the total area obtained in section 4.0. The total area should be the same.

3. If the total area is different find out which one is correct and make amendments where appropriate.

**4.0 LAND ACCESS/OWNERSHIP/TENURE** Identification

**4.1 LAND ACCESS/OWNERSHIP/TENURE**

Give details on Area owned by the household during 2007/08 agricultural season.

| | Give area as reported by the respondent in acres | Area in Acre | | |
|---|---|---|---|---|
| | | | 4.1.8 | Was the whole household area used during the 2007/08 agricultural season? (Yes=1, No=2) |
| 4.1.1 | Area under certificate of ownership | | | |
| 4.1.2 | Area owned under customary law | | | |
| 4.1.3 | Area bought | | 4.1.9 | Do you consider to have enough land for your household? (Yes=1, No=2) |
| 4.1.4 | Area rented from others | | | |
| 4.1.5 | Area borrowed from others | | | |
| 4.1.6 | Area share cropped from others | | 4.1.10 | Is there any female who owns land or has customary rights to land ownership in this household? (Yes=1, No=2) |
| 4.1.7 | Area under other forms of tenure | | | |
| | Total area | | | |

**4.2 LAND USE**

Area used by the household for various agricultural activities during 2007/08 agricultural season

| | Enter area as reported by the respondent in acres | Area in acre | Working space for calculations |
|---|---|---|---|
| 4.2.1 | Area planted temporary monocrops | | |
| 4.2.2 | Area planted temporary mixed crops (e.g. maize and beans) | | |
| 4.2.3 | Area planted permanent moncrops | | |
| 4.2.4 | Area planted permanent mixed crops (e.g. banana, coffee, trees) | | |
| 4.2.5 | Area planted permanent and temporary mixed crops (e.g. maize and banana) | | |
| 4.2.6 | Area under pasture | | |
| 4.2.7 | Area under fallow | | |
| 4.2.8 | Area under natural forest | | |
| 4.2.9 | Area planted trees | | |
| 4.2.10 | Area rented to others | | |
| 4.2.11 | Area unsuitable for agricultrure | | |
| 4.2.12 | Uncultivated arable land (minus area under fallow) | | |
| | **Total area** | | |

**Definitions and working page for page 4**

*Working table for the calculation area for annual mixed crops*

| Mixed crops 1 | Crop Name | Total area of mixed (acre) | Area for plants (acre) | Total number of plants | Total area of plants (acre) |
|---|---|---|---|---|---|
| *(a)* | *(b)* | *(c)* | *(d)* | *(e)* | *(f)=(d)*(e)* |
| Permanent crop 1 | | | 0.000 | | 0.00 |
| Permanent crop 2 | | | 0.000 | | 0.00 |
| Permanent crop 3 | | | 0.000 | | 0.00 |
| Permanent crop 4 | | | 0.000 | | 0.00 |
| | | | Total area for permanent crops | | 0.00 |
| Total Area for mixed crops | | | **The remaining area for temp crops** | | |

| | % of temporary | Area for permanent crop |
|---|---|---|
| Name of the crop temp/permanent 1 | | . |
| Name of the crop temp/permanent 2 | | . |
| Name of the crop temp/permanent 3 | | . |
| Check total area . | Check total area for temporary crops | . |

| Mixed crops | Name of plant | Total area mix (acre) | Area for the plant (acre) | Total of plants | Total area for plants (acre) |
|---|---|---|---|---|---|
| *(a)* | *(b)* | *(c)* | *(d)* | *(e)* | *(f)=(d)*(e)* |
| Permanent crop 1 | | | 0.000 | | 0.00 |
| Permanent crop 2 | | | 0.000 | | 0.00 |
| Permanent crop 3 | | | 0.000 | | 0.00 |
| Permanent crop 4 | | | 0.000 | | 0.00 |
| | | | Total area for permanent crops | | 0.00 |
| Total area for mixed crops | | | **The remaining area for temp crops** | | |

| | % of temporary | Area for temporary crop |
|---|---|---|
| Name of the crop temp/permanent 1 | | . |
| Name of the crop temp/permanent 2 | | . |
| Name of the crop temp/permanent 3 | | . |
| Check total area . | Check total area for temporary crops | . |

**Planted Area:** Area in acre the household was able to plant
**Harvested Area:** Area in acre the household was able to harvest a large portion of harvests. this is the same as the area planted minus the area that was destroyed by floods/ pets /

**Temporary/Annual Crops**
Crops planted and harvested within 12 months after which time the plants die . Most annual crops are planted and harvested on a seasonal base.

**Cash crop codes:**

| Code | Crop |
|---|---|
| 50 | Cotton |
| 51 | Tobacco |
| 53 | Payrethrum |
| 62 | Jute |
| 19 | Seaweed |

**Crop Codes(Creal / Tubers/ Roots:**

| Code | Crop |
|---|---|
| 11 | Maizei |
| 12 | Paddy |
| 13 | Sorghum |
| 14 | Buirush Millet |
| 15 | Finger Millet |
| 16 | Wheat |
| 17 | Barley |
| 22 | Sweet Potatoes |
| 23 | Irish Potatyoes |
| 24 | Yams |
| 25 | Cocoyamsi |
| 26 | Onions |
| 27 | Gingeri |

**Vegetable Codes:**

| Code | Crop |
|---|---|
| 86 | Cabbage |
| 87 | Tomatoes |
| 88 | Spinach |
| 89 | Carrot |
| 90 | Chillies |
| 91 | Amaranths |
| 92 | Pumpkin |
| 93 | Cucumber |
| 94 | Egg plant |
| 95 | Water mellon |
| 96 | Cauliflower |
| 06 | Melllon |
| 05 | nyanyachungu |
| 02 | Ocra |
| 03 | Radish |
| 01 | Green Beans |
| 04 | Bizari |

**Crop Codes Legumes and Oil**

| Code | Crop |
|---|---|
| 31 | Beans |
| 32 | Cowpeas |
| 33 | Green Gram |
| 34 | Chick Peas |
| 35 | Dengu |
| 36 | Bambara nuts |
| 37 | Njegere |
| 41 | Sun flower |
| 42 | Simsim |
| 43 | Ground uts |
| 47 | Soya beans |
| 48 | Caster Seed |

**Instructions for calculating the area of mixed crops in a mixture**

**A.** If the mixed crop is mixed annual ly only enter the total area of the field in the remaining area under temporary Crop and go to step one of these instructions.

**B.** If the mixed crop is mixed permanent and annual try to work tyhe percent age taken by the different crops and calculate the area of annual crops outlined in step 1. Otherwise use the number of trees method to calculate the area of annula crops in the mix.

**C:** Number of trees method to calculate annual crop areas in a permanent-annual crop mix.:

(i) List each of the permanent crop in collumn **b** and enter the ground area per acre for each permanent crop ( from instrcutions for page 8) in colum d.

(ii) Enter the number of permanent trees in the mix in collumn e as will be provided to you by the respondent

(iii) Calculate the area occpied by each crop by multiplying collumn d and collumn e and sum up these to obatin the total area of permanent crops in the mix.

iv) To obatin the area for tempofrary crops , substract **(-)** the area fro permanent crops from thne total area of crop mix and enter the resulst in in the total area under temporary crops.

(v) Proceed to step 1 to calculate the area under each temporary crop.

**1.** Enter the name of each temporary crop in tyhe crop mix and estimate percentages of each crop.

**2. Using the percentage for each crop, calculate the are for each crop from the remaining area under tenmporary crop.**

**3.** After completing the exrcise for all the fields, sum the area of each crop in tyhe mix plus any monocrops and uenter the totals in section 5.1.1 Collumn 3.

**4. Once the quantity harvested is obtained , cakIculate the yields (metric tonnes/acre) and compare the figures with the norms given in the crops code box.** If there is significantly differentce, check the area and the amouint harvested..

**5.0** PERMANENT AND TEMPORARY CROP PRODUCTION — Identificatoion

**5.1** ANNUAL CROPS AND VEGATBLE PRODUCTION-SHORT RAINY SEASON

Did your household palnted any crop duding short rainy season for 2007/08 agricultural year? Yes = 1, No = 2,(If the answer is yes proceed to Section 5.3)

5.1.1 Provide the following details for each crop planted during the short rainy season for 2007/08 agricultural year

| | Planting | | Main crop owner: Enetr the number of the hh member from page 2 on informati on for hh members | Pembejeo | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Use of Seeds | | | | | Use of fertilisers (If 6 is the answer in col 11 proceed to col 16) | | | | | | Use of chemicals agaisnt weeds (If 6 is the answer in col 11 proceed to col 20) | | | | |
| Name of Crop | Crop code | Actual area plnated (acre) | | The type of seed plant ed | Use of seeds | Quantity | | Cost (Tshs) | Irriga ted area | Cultiv ated area | Tyep of fertili sers used | Quantity of fertilisers | | Coist (Ths) | Cultiv ated areaE neo lililot umik a | Qunaity of agrochemicals | | Cost |
| | | | | | | Quant ity | Quantity used | | | | | Meas urem ent | Quantity used | | | Quant ity | Quantity used | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | (19) |
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| …… | | | | | | | | | | | | | | | | | | |
| Total area planted | | | | | | | | | | | | | | | | | | |

***Type of seeds planted ( Col 5)***
*Local seeds …1*
*Improved seeds……....2*

***Use of agricultural seeds ( Col 6,)***
*For the whole crop……..1*
*3/4 of the whole crop……..2*
*1/2 of tyhe whole crop……..3*
*1/4 ofd the whole crop……..4*
*Under 1/4 of the whole crop...5*

***Qunatity ( Col 7)***
*Kg ……1*
*Seedlings….2*
*Gram…..3*

***Use of farm inputs ( SCol10,11 & 16)***
*For the whole crop……..1*
*3/4 of the wholrecrop……..2*
*1/2 of tyhe whole crop……..3*
*1/4 ofd the whole crop……..4*
*Under 1/4 of the whole crop...5*
*Not used ……6*

***Type of fertilsers ( Col 12)***
*Organic fertiliser……...1*
*inorganic fertlisers…….2*

***Quantity ( Col 17)***
*Kig ……1*
*Litre……..2*
*Gram…..3*
*Millilitre…..6*

***Kipimo ( S/wima 13)***
*Kilo …….1*
*Lita……..2*
*Milli-lita..3*

***Main crop owner: (Col 4)***
*Enter number of hh member from page 2 on details on hh members in Q. 3*

**5.2 ANNUAL CROPS AND VEGATBLE PRODUCTION-LONG RAINY SEASON CONTINUED …**

5.2.1 Provide the following details for each crop planted during the short rainy season for 2007/08 agricultural year

**Identification**

| Name of crop | Crop code | Use of fungicides (If 6 is the answer in col 20 proceed to col 24) | | | | Use of pesticides (If 6 is the answer in col 24 proceed to col 28) | | | | Harvesting and Storage | | | Marketing | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Area used | Size | | Cost | Area used | Size | | Cost | Quantity harvested (kg) | Quantity stored (kg) | Main storage methods | Quantity sold (kg) | Where was the crop mostly sold? | Main problems in crop marketing |
| | | | Quantity | Used | | | Quantity | Used | | | | | | | |
| (1) | (2) | (20) | (21) | (22) | (23) | (24) | (25) | (26) | (27) | (28) | (29) | (30) | (31) | (32) | (33) |
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***Use of farm inputs ( Col 20&24)***

*For the whole crop.....1*
*3/4 of the wholrecrop.....2*
*1/2 of tyhe whole crop.....3*
*1/4 ofd the whole crop.....4*
*Under 1/4 of the whole crop...5*
*Not used .....6*

***Quantity ( Col 21&25)***

*Kig .....1*
*Litre.....2*
*Gram.....3*
*Millilitre.....6*

***Main Storage mechanisms (Col 30)***

*Locall storage facilities.....1*
*Improved Local storage facilitiiies .....2*
*Modern store.....3*
*Open drums/sacks.. .....4*
*Cealed drums.....5*
*In heaps.....O.....6*
*not Stored.....7*
*Other means ()Specify.....8*

***Where the crop was sold(Col 32)***

*Neighbours.....01 Private Businessman.....08*
*Open markets. .....02 Contract farming.....09*
*Auctions.....03 Not sold.....10*
*Main Market.....04 Others .....98*
*Cooperative Union....05*
*Farmers Association..06*
*Large Scale farm.....07*

***Marketing problems (Col 33)***

*Very low prices.....01 No problem .....11*
*No transport.....02 Others (Specify .....98*
*High transport costs.....03 Not applicable .....99*
*Lack of crop buyers .....04*
*Markets located far away ..05*
*Problems with farmers Associations 06*
*Probloems with cooperative Unions ....7*
*Problems with Businessmen Association ...8*
*Strigent Government Conditions ...9*

**Definitions and working page for page 5**

**Storage (Col. 30, Q 5.1.1):**
- **Traditionally Made strcutures:** The design of storage structures villagers have inherited from forefathers .
- **Improved Traditionally made structures:** The design of tradional storagesrutures improved through modern technology.

**Marketing Challenges Q 5.1.1 Col. 33:**

- **Farmers' Association:** Village farmers who came together and started an association for the puporses of purchasing inputs/selling/storage of crops aiiming at fetching better prices.
- **Cooperative Union:** A large inter-village/community set up in the district/ region or at national level for providing inputs, markets and storage of farmers' crops.
- **Government Regulatory laws for crops marketing:** Government instituted laws for regulating transportation and selling of crops.

**Inputs (Q 5.1.1)**

**Farm Yard Manure**: An organics fertliser made on farm from animal dung. .
**Compost:** An organic fertiliser made on farm from decomposed plant materials.
**Insectcides:** This is the chemical usde in protecting plants or killing pests.
**Fungicides:** Protects plants from fungi attack.
**Herbicide:** Chemicals used to control or kills weeds.
**Improved seeds**: Scientifically attested to be suitable for agricultural use.

**Questions specific definitions**

**Q 5.1.1. Instructions on crops storage:**
**1.** For the listed crops establish whether or not the household stored crops for 2007/2008 agricultural season.

**2.** For the listed crops give explanations on storage.

**Crops storage is keeping/reserving crops in a container or a special place for future use.**

**Q 5.1.1 Col 31**
**1.** For each of crops listed indicate major marketing problems for 2007/2008 agricultural season.

**Working area/calculation space**

**Definitions and working page for page 6**

*Working table for the calculation area for annual mixed crops*

| Mixed crops 1 | Crop Name | Total area of mixed (acre) | Area for plants (acre) | Total number of plants | Total area of plants (acre) |
|---|---|---|---|---|---|
| *(a)* | *(b)* | *(c)* | *(d)* | *(e)* | *(f)=(d)*(e)* |
| Permanent crop 1 | | | 0.000 | | 0.00 |
| Permanent crop 2 | | | 0.000 | | 0.00 |
| Permanent crop 3 | | | 0.000 | | 0.00 |
| Permanent crop 4 | | | 0.000 | | 0.00 |
| | | | Total area for permanent crops | | 0.00 |
| Total Area for mixed crops | | | | | |
| **The remaining area for temp crops** | | | | | |

| | % of temporary | Area for permanent crop |
|---|---|---|
| Name of the crop temp/permanent 1 | | |
| Name of the crop temp/permanent 2 | | |
| Name of the crop temp/permanent 3 | | |
| Check total area | Check total area for temporary crops | |

| Mazao mchanganyiko 2 | Name of plant | Total area mix (acre) | Area for the plant (acre) | Total of plants | Total area for plants (acre) |
|---|---|---|---|---|---|
| *(a)* | *(b)* | *(c)* | *(d)* | *(e)* | *(f)=(d)*(e)* |
| Permanent crop 1 | | | 0.000 | | 0.00 |
| Permanent crop 2 | | | 0.000 | | 0.00 |
| Permanent crop 3 | | | 0.000 | | 0.00 |
| Permanent crop 4 | | | 0.000 | | 0.00 |
| | | | Total area for permanent crops | | 0.00 |
| Total area for mixed crops | | | | | |
| **The remaining area for temp crops** | | | | | |

| | % of temporary | Area for temporary crop |
|---|---|---|
| Name of the crop temp/permanent 1 | | |
| Name of the crop temp/permanent 2 | | |
| Name of the crop temp/permanent 3 | | |
| Check total area | Check total area for temporary crops | |

**Planted Area:** Area in acre the household was able to plant

**Harvested Area:** Area in acre the household was able to harvest a large portion of harvests. this is the same as the area planted minus the area that was destroyed by floods/ pets /

**Temporary/Annual Crops**
Crops planted and harvested within 12 months after which time the plants die . Most annual crops are planted and harvested on a seasonal base.

**Cash crop codes:**

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|---|---|
| 50 | Cotton |
| 51 | Tobacco |
| 53 | Payrethrum |
| 62 | Jute |
| 19 | Seaweed |

**Crop Codes(Creal / Tubers/ Roots:**

| Code | Crop |
|---|---|
| 11 | Maizei |
| 12 | Paddy |
| 13 | Sorghum |
| 14 | Buirush Millet |
| 15 | Finger Millet |
| 16 | Wheat |
| 17 | Barley |
| 22 | Sweet Potatoes |
| 23 | Irish Potatyoes |
| 24 | Yams |
| 25 | Cocoyamsi |
| 26 | Onions |
| 27 | Gingeri |

**Vegetable Codes:**

| Code | Crop |
|---|---|
| 86 | Cabbage |
| 87 | Tomatoes |
| 88 | Spinach |
| 89 | Carrot |
| 90 | Chillies |
| 91 | Amaranths |
| 92 | Pumpkin |
| 93 | Cucumber |
| 94 | Egg plant |
| 95 | Water mellon |
| 96 | Cauliflower |
| 06 | Mellon |
| 05 | nyanyachungu |
| 02 | Ocra |
| 03 | Radish |
| 01 | Green Beans |
| 04 | Bizari |

**Crop Codes Legumes and Oil**

| Code | Crop |
|---|---|
| 31 | Beans |
| 32 | Cowpeas |
| 33 | Green Gram |
| 34 | Chick Peas |
| 35 | Dengu |
| 36 | Bambara nuts |
| 37 | Njegere |
| 41 | Sun flower |
| 42 | Simsim |
| 43 | Ground uts |
| 47 | Soya beans |
| 48 | Caster Seed |

**Instructions for calculating the area of mixed crops in a mixture**

**A.** If the mixed crop is mixed annual ly only enter the total area of the field in the remaining area under temporary Crop and go to step one of these instructions

**B.** If the mixed crop is mixed permanent and annual try to work tyhe percent age taken by the different crops and calcualet the area of annual crops outlined in step 1. Otherwise use the number of trees method to calculate the area of annula crops in the mix.

**C:** Number of trees method to calculate annual crop areas in a permanent-annual crop mix.:

(i) List each of tyhe permanent crop in collumn **b** and enter the ground area per acre for each permanent crop ( from instrcutions for page 8) in colum d.

(ii) Enter the number of permanent trees in the mix in collumn e as will be provided to you by the respondent

(iii) Calculate the area occpied by each crop by multiplying collumn d and collumn e and sum up these to obatin the total area of permanent crops in the mix.

iv) To obatin the area for tempofrary crops , substract **(-)** the area fro permanent crops from thne total area of crop mix and enter the resulst in in the total area under temporary crops.

(v) Proceed to step 1 to calculate the area under each temporary crop.

**1.** Enter the name of each temporary crop in tyhe crop mix and estimate percentages of each crop.

**2. Using the percentage for each crop, calculate the are for each crop from the remaining area under tenmporary crop.**

**3.** After completing the exrcise for all the fields, sum the area of each crop in tyhe mix plus any monocrops and uenter the totals in section 5.1.1 Collumn 3.

**4. Once the quantity harvested is obtained , caklculate the yields (metric tonnes/acre) and compare the figures with the norms given in the crops code box.** If there is significantly differentce, check the area and the amouint harvested..

## 5.3 PERMANENT/PERENNIAL CROPS AND FRUIT TREE PRODUCTION

Identification

Does your household have any permanent/perennial crops or fruit trees Yes =1, No = 2, (If answer is NO proceed to Section 6.0)

5.3.1 Give details on permanent/perennial crops or fruit trees

| | | Production Section | | | | Farm inputs | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Monocrops | Mixed crops | | Main crop owner: Enetr the number of the hh member from page 2 on information for hh | Uses of seeds | | | | | Irrigation | Uses of Fertilisers (If 6 is the answer in col 13 proceed to col. 17) | | | |
| Name of permanent/perennial crop | crop code of permanent / perennial crop/fruit trees | Area for trees/seedling/branch/bushes | Are for mixed crops (Acre) | Number of Tplants/ trees in the crop mixh of permanent and perennial crop | | Type of planted seeds | Cultivated area | Size: Quantity | Size: Used | Cost (Ths) | | Area used | The type of fertiliser used | Quantity of fertiliser (kg) | Cost (Ths) |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) |
| ……..…… | | | | | | | | | | | | | | | |
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| ……..…… | | | | | | | | | | | | | | | |
| ……..…… | | | | | | | | | | | | | | | |

*Type of seed planted (Col 7)*
Local seeds.....1
Improved seeds.....2
Dont't know/ Not applicable...3

*Main crop owner (Col 6):*
nter the number of the hh member from page 2 on information for hh members in Q 3

*Area culltivated ( col. 8)*
For the whole crop.....1
3/4 of the whole crop.....2
1/2 of tyhe whole crop.....3
1/4 ofd the whole crop.....4
Under 1/4 of the whole crop...

*Qunatity (Col 9)*
Kg .....1
Seedlings....2
Gram.....3

*Use of farm inputs (Col 12 & 13)*
For the whole crop.....1
3/4 of the wholrecrop.....2
1/2 of tyhe whole crop.....3
1/4 ofd the whole crop.....4
Under 1/4 of the whole crop...5
Not used 6

*Type of fertilsers (Col 14)*
Organic fertiliser... ... ... ...1

**5.3 PERMANENT/PERENNIAL CROPS AND FRUIT TREE PRODUCTION CONTINUED …..**

Identification

5.3.1 Give details on permanent/perennial crops or fruit trees during 2007/08 agricultural year

| Name of crop | Crop code | Uses of weeds control chemical (If 6 is the naswer in col 17 Proceed to col 21) | | | | Use of fungicides (If 6 is the answer in col 20 proceed to col 24) | | | | Use of pesticides (If 6 is the answer in col 25 proceed to col 29) | | | | Crop harvesting and storage | | | | | Marketing | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Area used | Size | | Cost | Area used | Size | | Cost | Area used | Size | | Cost | Harvested area (acre) | Quantity of mature plants | Quantity harvested (kg) | Quantity stored (kg) | Njia Kuu ya kuhifadhi | Quantity sold (kg) | Main marketing problem |
| | | | Quantity | Used | | | Quantity | Used | | | Quantity | Used | | | | | | | | |
| (1) | (2) | (17) | (18) | (19) | (20) | (21) | (22) | (23) | (24) | (25) | (26) | (27) | (28) | (29) | (30) | (31) | (32) | (33) | (34) | (35) |
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*Area used (Col 20&24)*

For the whole crop……1
3/4 of the wholrecrop…… ……2
1/2 of tyhe whole crop…… … …3
1/4 ofd the whole crop…… … …4
Under 1/4 of the whole crop…5

*Main Storage mechanisms (Col 33)*

Locall storage facilities… … … … … … …1
Improved Local storage facilitiies ……2
Modern store… …… … … … … …… …3
Open drums/sacks…… …… …4
Cealed drums…. …… … … … …5
In heaps……6
not Stored……7
Other means ()Specify…… … … … … …8

*Marketing problems (Col 35)*

Very low prices……01 No problem ……11
No transport……02 Others (Specify ……98
High transport costs……03 Not applicable ……99
Lack of crop buyers ……04
Markets located far away …05
Problems with farmers Associations 06
Problems with cooperative Unions ….7
Problems with Businessmen Association …8
Strigent Government Conditions …9

*Quantity (Col 18, 22, & 26)*

Kig … … .1
Litre……2
Gram… …3
Millilitre… …6

**Definitions and working page for page 7**

**Storage (Col. 30, Q 5.2.1):**
- **Traditionally Made strcutures:** The design of storage structures villagers have inherited from forefathers .
- **Improved Traditionally made structures:** The design of tradional storagesrutures improved through modern technology.

**Marketing Challenges Q 5.2.1 Col. 33:**

- **Farmers' Association:** Village farmers who came together and started an association for the puporses of purchasing inputs/selling/storage of crops aiiming at fetching better prices.
- **Cooperative Union:** A large inter-village/community set up in the district/ region or at national level for providing inputs, markets and storage of farmers' crops.
- **Government Regulatory laws for crops marketing:** Government instituted laws for regulating transportation and selling of crops.

**Inputs (Q 5.2.1)**

**Farm Yard Manure**: An organics fertliser made on farm from animal dung. .
**Compost:** An organic fertiliser made on farm from decomposed plant materials.
**Insectcides:** This is the chemical usde in protecting plants or killing pests.
**Fungicides:** Protects plants from fungi attack.
**Herbicide:** Chemicals used to control or kills weeds.
**Improved seeds**: Scientifically attested to be suitable for agricultural use.

**Working area/calculation space**

**Questions specific definitions**

**Q 5.2.1. Instructions on crops storage:**
**1.** For the listed crops establish whether or not the household stored crops for 2007/2008 agricultural season.

**2.** For the listed crops give explanations on storage.

**Crops storage is keeping/reserving crops in a container or a special place for future use.**

**Q 5.2.1 Col 33**
**1.** For each of crops listed indicate major marketing problems for 2007/2008 agricultural season.

**Definitions and working page for page 8**

**Permanent Crops:**
These are crops once planted last longer in the farm and need not be replanted after each annual harvest. Most of the permanent plants include tress such as coconut tress, apple trees, grape trees, banana trees, pineapple trees etc.

**Number of Trees:**
These include manure trees and premature trees.

**Number of mature plants:**
A total of fruit bearing tress (e.g. mango trees, orange trees, avocado trees e.t.c).

**Instructions for permanent monocrops and crop mix:**
**A**. For a field with permanent monocrop enter farm size in collumn. 3.
B. For a field with a permanent crop mix or a temporary crop mix, enter the number of trees only in collumn **4**.
**C**. For a field with a permanent crop mix /temporary annual crops , either:
-Enter the area in collumn 4, if the total arae for permanent crops was obatined through calcualtion of percentages of each crop
OR
Enter the number of tree in collumn 5, if the number of plants/ seedlings of permanent crops was excluded

**21 Cassava: Cassava** is a temporary crop, in order to simplify data collection on areas of production, data on cassava will be collected from areas under permanent crops.

**Permanent crops:( crop oils)**

| Code | Crop | Area per crop |
|---|---|---|
| 44 | Palm Trees | 0.00049 |
| 45 | Coconut tree | 0.00037 |
| 46 | Cashew nut tress | 0.00062 |

**Permanent crops ( Cash crops)**

| Code | Crop | Area per crop |
|---|---|---|
| 53 | Sisal | 0.00012 |
| 54 | Coffee | 0.00049 |
| 55 | Tea | 0.00037 |
| 56 | Cocoa | 0.00049 |
| 57 | Rubber | 0.00099 |
| 58 | Wattle | 0.00099 |
| 59 | Kapok | 0.00124 |
| 60 | Sugar-cane | 0.00012 |
| 61 | Cardamon | 0.00049 |
| 63 | Tamarin | 0.00099 |
| 64 | Cinarmon | 0.00124 |
| 65 | Nutmeg | 0.00099 |
| 66 | Clove | 0.00074 |
| 18 | Black pepper | 0.00037 |
| 34 | Pigeon Peas | 0.00025 |
| 21 | Cassava | 0.00019 |
| 75 | Pineapple | 0.00006 |
| 86 | Lemon Grass | |

**Permanent crops:**

| Code | Crop | Area per crop |
|---|---|---|
| 70 | Passion Fruit | 0.00074 |
| 71 | Bananas | 0.00037 |
| 72 | Avocado | 0.00099 |
| 73 | Mango | 0.00099 |
| 74 | Pawpaw | 0.00037 |
| 76 | Orange | 0.00074 |
| 77 | Grape fruit | 0.00074 |
| 78 | Grape | 0.00012 |
| 79 | Mandarin | 0.00074 |
| 80 | Guava . | 0.00074 |
| 81 | Plums | 0.00074 |
| 82 | Apples | 0.00074 |
| 83 | Peaches | 0.00074 |
| 84 | **Mifyoksi** | 0.00074 |
| 85 | Lime/lemon | 0.00074 |
| 68 | Pomelo | 0.00099 |
| 69 | Jack Fruit | 0.00074 |
| 97 | Durian | 0.00074 |
| 98 | Bilimbi | 0.00074 |
| 99 | Rambutan | 0.00074 |
| 67 | Bread Fruit | 0.00099 |
| 38 | Malay apple | 0.00074 |
| 39 | Star Fruit (Sakua) | 0.00074 |

**Definitions and working page for page 9**

**Storage (Col. 33, Q 5.3.1):**
- **Traditionally Made strcutures:** The design of storage structures villagers have inherited from forefathers .
- **Improved Traditionally made structures:** The design of tradional storagesrutures improved through modern technology.

**Marketing Challenges Q 5.3.1 Col. 35:**

- **Farmers' Association:** Village farmers who came together and started an association for the puporses of purchasing inputs/selling/storage of crops aiiming at fetching better prices.
- **Cooperative Union:** A large inter-village/community set up in the district/ region or at national level for providing inputs, markets and storage of farmers' crops.
- **Government Regulatory laws for crops marketing:** Government instituted laws for regulating transportation and selling of crops.

**Inputs (Q 5.3.1)**

**Farm Yard Manure**: An organics fertliser made on farm from animal dung. .
**Compost:** An organic fertiliser made on farm from decomposed plant materials.
**Insectcides:** This is the chemical usde in protecting plants or killing pests.
**Fungicides:** Protects plants from fungi attack.
**Herbicide:** Chemicals used to control or kills weeds.
**Improved seeds**: Scientifically attested to be suitable for agricultural use.

**Questions specific definitions**

**Q 5.3.1. Instructions on crops storage:**
**1.** For the listed crops establish whether or not the household stored crops for 2007/2008 agricultural season.

**2.** For the listed crops give explanations on storage.

**Q 5.3.1 Col 35**
**1.** For each of crops listed indicate major marketing problems for 2007/2008 agricultural season.

**Working area/calculation space**

**Definitions and working page for page 10**

**Investment in agriculture**
**Investment activities:**
Investment activities refer to medium to long term farm development structures and projects. This can be irrigation structures, erosion conrol and water harvesting structures or other permanent or semi-permanent investment made on the land that the household owns.

**Irrigated farming: Section 6.5:**
**Source of irrigation water** (Col 1): The main source of the water used for irrigation.
**Method of obtaining water** (Col 2): The mechanism by which the water is extracted from the source
**Irrigatable area (**Col 3): The area the irrigation system is designed to cover in acrage
Area of irrigated land during the 2007/08 (Col 5): Area of land under irrigation during the 2007/08 agricultural year. This is the actual area nd NOT the cumulative areas recultivated in 2 or more cropping seasons.

**Farm Implements (Col. 1):**

**Machette :** Includea all implements use in tree cutting namely cicle, et.c.

**Sprimkler:** The pump carrued on the back or a hand used water pump
**Hand used small tractor:** A small tractor used in cultivation while the user walks on foot (see photo).

**Section 6.2 Use of draft animals**
Animals used in agricultural activities by the household during 2007/08 agricultural season.

**Castrated Bulls:** Castrated oxen meant for use in agricultural production.
**Uncastrated** Bulls: mature bulls used for garicultrural activities but are not castrated.
**Cow:** Farmers also use mature female cattle in agricultural activities due to shortage of bulls
**Donkey:** Mature Male or female donekys are also used for agricultural production.

**Q 6.5 Irrigation.**
**1.** If a household uses irrigated farming give explanations aon source and method of obatining water. .
**2.** **See Col** 10, Q. 5.1.1 and 5.2.1 and **Col** 12, Q 5.3.1 to see if irrigation was applied to any crop.

**Farm implements, Q 6.1:**
**1.** Collumn **2** Indicate whether or not inputs were used
**2.** Complete collumn 3 by entering the number of inputs used.

**Farm inputs: Sections 6.3 and 6.4**

**1.** Collumn **2** Indicate whether or not inputs were used.
**2.** Compelte collumn 3 by indicating where the inouts were obatined and collumn 4 by indicating the distance from where the inputs were obatined

**Compost:** An organic fertiliser made on farm from decomposed plant materials.
**Insectcides:** This is the chemical usde in protecting plants or killing pests.
**Fungicides:** Protects plants from fungi attack.
**Herbicide:** Chemicals used to control or kills weeds.
**Improved seeds**: Scientifically attested to be suitable for agricultural use.

| | |
|---|---|
| Tractor tiller | |
| Tractor hallow | |
| Castrated bulls | |
| Uncastrated bulls | |
| Cows | |
| Donkeys | |
| Shredding Machine | |
| Power Tiller | |
| Oxen pulled plough for making terraces | |

| | | |
|---|---|---|
| 6.2.6 | Power Tiller | |

**6.3 USE OF ORGANIC FERTILISERS**

6.3.1 Give details on the use of organic fertlisers during 2007/08 agriculture year

| | Type of fertiliser | Used Yes=1, No=2 | Quantity | Quantity used | Area used (Acre) |
|---|---|---|---|---|---|
| | (1) | (2) | (3) | (4) | (5) |
| 6.3.2 | Manure | | | | |
| 6.3.3 | Compost | | | | |

***KQuantity (Col 3)***
*Kg……1*
*Ton……..2*

**ACCES TO INPUTS**

Give details on inputs used during 2007/08 agricultural year

| Name of inputs | Used (Yes=1, No=2) | Source | Distance |
|---|---|---|---|
| *(1)* | *(2)* | *(3)* | *(4)* |
| Inorganic fertilisers | | | |
| Farm yard manure | | | |
| Compost | | | |
| Insecticides/Fungicide | | | |
| Pest and weeds control chemicals | | | |
| Improved seeds | | | |

***Source (Col.3)***
*Government…..01*
*Cooperative Union…… ...02*
*Farm inputs store/market.....03*
*Auction.....04*
*Development project……..05*
*Corp buyers……..06*
*Large Scake farms……..07*
*Made by the household.....08*
*Form neighbour.....09*
*Cooperative Union…….....10*
*Others ……..98*
*Not applicable.....99*

***Distance from the source (Cola 4 )***
*Under 1 kilometre……..1*
*Btween One and three kilometres .....2*
*Btween three and 10 killometres3*
*Between 10 and 20 Kilometres .....4*
*Over 20 Kilometres……..5*
*Not applicable.....9*

**IRRIGATED FARMING**

Did the household use irrigated farming during 2007/08 agriculture year? Yes=1, No = 2

*If the answer is yes proceed to Section 6.6*

| Na. | Main source of water for irrigation | Main source of obtaining water | Area that can be irrigated (Acre) | Area irrigated during 2007/08 agriculture year (Acre) |
|---|---|---|---|---|
| | *(1)* | *(2)* | *(3)* | *(4)* |
| 6.5.2 | | | | |

***Source of irrigation water (Col 1)***
*River……1 Wells ……..4*
*Lake ……2 Deep wells…… .5*
*Dams……3 Cannals …… .6*
*Tape water…… …7*

***Means of obtaining water(C0l2)***
*Flwoing. (gravity)……..1*
*Using a bucket……..2*
*Water pump (using hand or leg)……..3*
*Electric /fuel driven pump/ mafuta……..4*
*Other (Specify)……..8*

**Definitions and working page for page 11**

**Q 6.6**

**The type of erosion contro/Water harvesting (Col 1)**
**Terraces:** Structures constructed on mountain slopes to provide flat terrain for crop planting.

**Erosion control bunds: these are bunks of earth/stones built perpendicular to the slope** to slow dowm the speed of water and thus preventing soil erosion. Its differs from terraces in that the soils on these banks are not at ground level **.**

**Gabions:** A box like structure made of wire and filled with large stones to prevent gully errosion.

**Sand bags:** Are used in controlling and preventing gully errosion
**Tree belt/wind breaks:** Trees planted against the wind direction for breaking wind speed..

**Section 7.0 Acces to credit for crop or livestock production**
Credit refers to something provided in cash or in kind (such as farm inputs, machines, livestock and other things) for crop or livestock production. The value of the credit must be repaid back to the lender. An Interest may or may not be attached to the value of the credit
The credit may be repaid either in cash or through farm produce to be harvested **.**

In this question the enumerator is at liberty to inquire up to three sources of credit where the farmer accessed credit from more than one source.

**Section 8.0 Agricultural Extension Services**
**Agricultural Extension Services**: Refers to educational services provided to farmers by exetsion officers for the purposes of increasing crop and livestock production.

**Share-cropping:** Refers to farming where smallholder / Smallscale farmer enters into an agreement with large scale farmer where the former sells produce to the latter in exchange of provisions of farm inputs and the like. .

**Contract farming Farming:** Farming agreement entered between smallscale and large scale farmerswith regards to markets of farm produce and provision of farm inputs

**Q 6.6 Number of water harvestin structures and year of construction**

**1.** The number water haversting structures refers to the number of wokring / maintained structures and does not include derelict or iireparable structures.

**2.** Year of construction refers to the year in which the structures were built, and not the year the structures were last repaired.The year should be written in figures e.g. 1998, 2006.

**Section 7.0 Source of agriculture credit**
If tghe farmer obtained credit from more than one source the use the code from the list provided. Start with the main source of credit in Section **"7.1.1"**.**a**

**Section 8.0 Agricultural extension services**

**1.** Ask if the household did receive agricultural extension services during 2007/08 agricultural season from the respondents listed in collumn 1, then enter column 2.

**2.** Complete all columns for every extension officer**.**

**6.6 SOIL EROSION** Identification

6.6.1 Did the household experience soil erosion during 2007/08 agriculture year? *(Yes=1,No=2)*

6.6.2 Did the household applied any methods for erosion contro/water harvesting during 2007/08 agricultural year? (Yes=1, No =2) (If the answer is No, Proceed to Section *7.0)*

| Na. | Mechanisms of controlling erosion/ Water harvesting | Number of water harvesting | Year of construction |
|---|---|---|---|
| | (1) | (2) | (3) |
| 6.6.3 | Terraces | | |
| 6.6.4 | Bunks for erosion control | | |
| 6.6.5 | Gabions/sand bags | | |
| 6.6.6 | Vetiva leaves | | |

| | Type of erosion control/water harvesting | Number of water harvesting | Year of construction |
|---|---|---|---|
| | (1) | (2) | (3) |
| 6.6.7 | Tree belt | | |
| 6.6.8 | Soil bunks of water harvesting | | |
| 6.6.9 | Trenches | | |
| 6.6.10 | Other | | |

**7.0 ACCESS TO ON FARM CREDITS**

7.1 Is there any household member who accessed on farm credit during 2007/08 agriculture year? Yes=1, No=2 (If answer is NO, Proceed to Section *7.2)*

**SELECT UP TO THREE SOURCES AND PROCEED TO QUESTIONA 8.0**

***(Source of credit Q 7.1.1, 7.1.2, 7.1.3)***
*Relative..... 1 Saccos....4 NGO/Development projectsi.....7*
*Bank... .....2 Busineman/Shop.....5*
*Cooperative Union.....3 Privaite individuaks.....6 Other.....9*

| | | | |
|---|---|---|---|
| Source of credit | **7.1.1a** | **7.1.2a** | **7.1.3a** |
| Credit provided to (Male=1, Female=2) | **7.1.1b** | **7.1.2b** | **7.1.3b** |

7.2 IF THE ANSWER TO QUESTION 7.1 IS NO

Give reasons for not accessing credit

***Reasons for not accessing credit (Q 7.2)COL***
*Not required .....1 Did not to be indebted.....3 Did nott know how to access credit.....5 Credit delayed.....7 Did not credit existed.....9*
*Not available .....2 High interest rates.....4 Bureaucracy.....6 Other (Specify).....8*

**8.0 ADVISORY SERVICES IN AGRICULTURE**

8.1 Did the household participate in outgrowers scheme during 2007/08 agriculture year? (Yes=1, No=2)

8.2 Did the household participate in the contract farming during 2007/08 agriculture year? (Yes=1, No=2)

8.3 Did your household receive agricultural advise on the following : *(IF THE ANSWER IS NO IN COL 2 PROCEED TO THE FOLLOWING QUESTION*

| Na. | Advise on agriculture | Received advice (Yes=1, No=2) | Source of advise |
|---|---|---|---|
| | (1) | (2) | (3) |
| 8.3.1 | Spacing | | |
| 8.3.2 | Use of agrochemicals | | |
| 8.3.3 | Soil erosion control | | |
| 8.3.4 | Use of organic manure | | |
| 8.3.5 | Matumizi ya mbolea za viwandani | | |
| 8.3.6 | Use of improved seeds | | |
| 8.3.7 | Use of modern farm implements | | |
| 8.3.8 | Irrigation | | |
| 8.3.9 | Crop Storage | | |
| 8.3.10 | Pest control | | |
| 8.3.11 | Other (Specify) | | |

***Source of agricultural advice (Cokl. 3)***
*Government.....1 NGO/Development project.....2 Cooperative.....3 Large Scale farmer....4 Ratdio/Newspapers....5 Neighbour .....6 Other source.....8*

**Definitions and working page for page 12**

**Q 9.1 and 9.3 :** What is required is to establish whether or not the household kept or raised the listed livetsock during 2007/08 agricultural season (i.e. from October 2007 to September 2008). Also to establish the number of livestock as of 1st October 2008

**Keeping or raising livestock** is to to keep livestock at home while providing the livestock with animal feeds and medication and other services. The livestock could be owned by the farmer or kept on behalf of relatives or neighbours .

**Sections 9.1.1 to 9.1.7 Cattle**

**Note:**
**Q 9.1 is for the actual number of cattle owned or kept by the household (as of 1st October 2008). This number does not include herds of cattle kept on behalf by relatives or neighbours; that is, the cattle outside the residential area of the household under survey.**
1. If the the household keep mature fecund female cattle, it is expected that such a household will have calves which will be entered in question 9.1.6 or 9.1.7

**Type of cattle (sectioin 9.1.1 to 9.1.7)**

**Bull**: Mature uncastrated made cattle used for breeding
**Cow**: Mature female cattle that has given birth at least once

**Ox**: Castrated made cattle used for farm work

**Steer**: Castrated made cattle used for meat

**Heifer**: Female cattle of 1 year up to the first calving

**Section 9.3 Goat**
**Note:**
**Question 9.3 is for the actual number of owned or raised by the household (as of 1st October 2008) This number does not include goats kept on behalf by relatives or neighbours, that is the goat outside the residential area of the household under survey.**

1. If the household has she goats, you would normally expect them to have kids

**Type of Goat (Qs 9.3.1 to 9.3.5)**

**Billy Goat (he-goat)**: Mature Uncastrated male goat used for breeding
**Castrated goat**: Male goat that has been castrated
**She Goat**: Mature female goat over 9 months of age

**9.0 LIVESTOCK (LIVESTOCK AND FISH)** Identification

9.1 **CATTLE**

Did your household keep or raise cattle during 2007/08 agriculture year? Yes=1, No= 2 (If the answer is No proceed to Section 9.3)

**Number of cattle as of** 1.10.2008

| No. | Type of cattle | Number of indigenous cattle (2) | Number of improved cattle: for meat (3) | Number of improved cattle: Dairy (4) | Total (5) |
|---|---|---|---|---|---|
| 9.1.1 | Castrated bulls | | | | |
| 9.1.2 | uncastrated bulls | | | | |
| 9.1.3 | Cows | | | | |
| 9.1.4 | Steers | | | | |
| 9.1.5 | Heifer | | | | |
| 9.1.6 | Male calves | | | | |
| 9.1.7 | Female calves | | | | |
| | Grand total | | | | |

9.1.8 What main methods do you use to identify your cattle?

***Cattle idenfificatio methods***
*Iron stamp (chapa moto).....1 Throat....2 Ear/tail cutting.....3*
*Colour.....4 Earings...5 Other .....6*

**9.2 Milk production: CATTLE**

| Na. | Season (1) | Type of cattle (2) | Number of milked cows (3) | Average of milk per cow per day (litre) (4) | Average number of days which your cows were milked (5) | Average price per litre per season (6) |
|---|---|---|---|---|---|---|
| 9.2.1 | Rainy | Improved | | | | |
| 9.2.2 | | Indigenous | | | | |
| 9.2.3 | Dry | Improved | | | | |
| 9.2.4 | | Indigenous | | | | |

**9.3 GOAT**

Did your household keep or raise cattle during 2007/08 agriculture year? Yes=1, No= 2 (If the answer is No proceed to Section 9.3)

**Number of goats as of** 1.10.2008

| Na. | Tyep of goat (1) | Number of indigenous goat (2) | Number of improved: for meat (3) | Number of improved: Dairy (4) | Total (5) |
|---|---|---|---|---|---|
| 9.3.1 | Male uncastrated goat | | | | |
| 9.3.2 | Male castrated goat | | | | |
| 9.3.3 | She goat | | | | |
| 9.3.4 | Male kid | | | | |
| 9.3.5 | She kid | | | | |
| | Grand total | | | | |

**Milk Production: GOAT**

| Na. | Season (1) | Number of ilked goats (2) | Average of milk per goat per day (litre) (3) | Average number of days which your she goats were milked (4) | Average price per litre per season (5) |
|---|---|---|---|---|---|
| 9.3.6 | Rainy | | | | |
| 9.3.7 | Dry | | | | |

**Definitions and working page for page 13**

**Q 9.1 and 9.3 :** What is required is to establish whether or not the household kept or raised the listed livetsock during 2007/08 agricultural season (i.e. from October 2007 to September 2008). Also to establish the number of livestock as of 1st October 2008

**Keeping or raising livestock** is to to keep livestock at home while providing the livestock with animal feeds and medication and other services. The livestock could be owned by the farmer or kept on behalf of relatives or neighbours .

**Sections 9.4 Sheep**

**Note:**
**Q 9.4 is for the actual number of sheep owned or kept by the household (as of 1st October 2008). This number does not include sheep kept on behalf by relatives or neighbours; that is, the sheep outside the residential area of the household under survey.**

1. If the the household keep ewes, it is expected that such a household will have calves which will be entered in question 9.1.6 or 9.1.7

**Type of Sheepe (Sectioin 9.4.1 to 9.4.5)**

**Ram:** Mature Uncastrated male sheept used for breeding

**Castrated sheep**: Male sheep that has been castrated

**Ewe**: Mature female sheep over 9 months of age

**Lamb**: Young sheep under 9 months of age.

**Section 9.5 Pigs**
**Note:**
**Question 9.3 is for the actual number of pigs owned or raised by the household (as of 1st October 2008). This number does not include pigs kept on behalf by relatives or neighbours, that is the cattle outside the residential area of the household under survey. .**

1. If the household has she goats, you would normally expect them to have kids in column

**Type of Pigs (Qs 9.5.1 to 9.5.5)**

Boar: Mature Uncastrated male pig used for breeing
Sow: Mature female pig that has given birth to at least one ltter of pigs.
Gilt; Female pig of over 3 months up to the first farrowing
Piglet: Young pig less than 3 months of age

Identification

**9.4 SHEEP**

Did your household keep or raise cattle during 2007/08 agriculture year? Yes=1, No 2 (If the answer is No proceed to Section 9.5)

**Number of sheep as of** 1.10.2008

| Na. | Type of sheep | Number of indigenous sheep | Number of improved | Total |
|---|---|---|---|---|
| | (1) | (2) | (3) | (5) |
| 9.4.1 | Ram | | | |
| 9.4.2 | Castrated sheep | | | |
| 9.4.3 | She sheep | | | |
| 9.4.4 | Male lamb | | | |
| 9.4.5 | Female lamb | | | |
| | **Grand total** | | | |

**9.5 PIGS**

Did your household keep or raise cattle during 2007/08 agriculture year? Yes=1, No= 2 (If the answer is No proceed to Section 9.6)

**Number of pigsp as of** 1.10.2008

| Na. | Type Pigs | Number of pigs |
|---|---|---|
| | (1) | (2) |
| 9.5.1 | Boar | |
| 9.5.2 | Castrated male | |
| 9.5.3 | Sow/Gilt | |
| 9.5.4 | Male piglet | |
| 9.5.5 | Female piglet | |
| | **Grand total** | |

**9.6 OTHER LIVESTOCK**

| | Type of animal | Number as of 1 October 2008 | Number of eggs 2007/08 agriculture year |
|---|---|---|---|
| | (1) | (2) | (3) |
| 9.6.1 | Local chicken | | |
| 9.6.2 | Layers | | |
| 9.6.3 | Broilers | | |
| 9.6.4 | Ducks | | |
| 9.6.5 | Guinea pigs | | |

| | Type of animal | Number as of 1 October 2008 | Number of Eggs 2007/08 agriculture year |
|---|---|---|---|
| | 1 | (2) | (3) |
| 9.6.6 | Turkeys | | |
| 9.6.7 | Rabbit | | |
| 9.6.8 | Donkeys | | |
| 9.6.9 | Horses | | |
| 9.6.10 | Dogs | | |

## Definitions and working page for page 14

## Control of livestock dieases causing bugs

**Livestock worm control medicine:** Medicine used to kill or control livestock on livestock . It is often used for cattle, goats, sheep and pigs.

**Tiick**: Is a dangerous bug that sucks blood form livestock and transmits animals diseases from one to the other animal.

**Tse tse fly: A fly like bug that sucks blood from livetsock** and transmits diseases sleewping sickness from one to the other animal.

**Livestock advice (Section 9.8)**
IA service provided by extension officers to livestock keepers for increasing livestock production.

**9.7 LIVESTOCK DISEASES AND PEST CONTROL**

Identificatio

| | | |
|---|---|---|
| | Did you livestock during 2007/08 agriculture year? (Yes=1, No=2) (If the answer is No proceed to Section 9.7.5 | |
| 9.7.1 | Which animals did your deworm? ( Yes=1,No =2, Not applicable=3 in the relevant box) Cattle [ ] 9.7.2 Goat/Sheep [ ] 9.7.3 Pigs [ ] 9.7.4 Poutry [ ] | |
| 9.7.5 | Do you experience tick problem with your livestock? (Yes =1, No = 2, Not applicable 3) | |
| 9.7.6 | How did you control tick problem? *Control method (Q. 9.7.6):* Dipping……1 Spaying……..2 Application of medicine on back bone……3 None..4 ……. Other……8 | |
| 9.7.7 | Do you experience Tse tse problem with your livestock? (Yes =1, No = 2, Not applicable 3) | |
| 9.7.8 | How did you control Tse tse problem with your livestock? *Control method (Q. 9.7.8):* Dipping……1 Spaying……..2 Traps……..3 None..4 ……. Other……8 | |
| 9.7.9 9.7.7 | Do you experience Newcastle disease problem with your poutry? (Yes =1, No = 2, Not applicable 3) | |
| 9.7.10 | How do you control Newcastle disease problem with your poutry? *Control/Curative methods (Q. 9.7.10)* Vaccination..1 Herbs….2 None..3 | |
| 9.7.11 | Did you experience Fowl Typhoid with your poutry?Yes=1, No=2 , Not applicanblei=3 | |
| 9.7.12 | How did you cotrol/ cure Fowl Typhoid with your poutry? *Contro/curative methods(Swali 9.7.12* Vaccination..1 Herbs….2 Noe.3 | |
| 9.7.13 | Were your cattle vaccinated agaionst the following diseases? (Yes = 1, No = 2, Not applicable=3). **9.7.13 A:** Foot and Mouth diseases [ ] **9.7.13B:** Skin disease [ ] | |

**NOTE : If answers to Qs** *9.1 to 9.6 is No (THAIS HOUSEHOUSE DOES NOT RAISE LIVESTOCK,) Proceed to q 9.9*

**9.8 Extenmsion services on livestock**

Did you receive the following extension advice on the followingJe? *(IF THE ANSWER IS NO IN COL 2 PROCEED TO THE FOLLOWING QUESTION*

| Na. | **Livestock extension advice** | Received Extension advice (Yes=1, No=2) | Soure of Extension |
|---|---|---|---|
| | *(1)* | (2) | (3) |
| 9.8.1 | Feed and better feeding methods | | |
| 9.8.2 | Improved livestock shed (Goat, Dairy cattle, Poutry and pigs) | | |
| 9.8.3 | Milking and hygiene | | |
| 9.8.4 | Cattle fattening | | |
| 9.8.5 | Livetsock diseases control | | |
| 9.8.6 | Livestock keeping in line with land availability | | |
| 9.8.7 | Pasture establsihment and maintanence | | |
| 9.8.8 | Forming and strengthening groups/cooperatives | | |
| 9.8.9 | Calf rearing | | |
| 9.8.10 | Basics of production and use of improved bulls (AI) | | |
| 9.8.11 | Animals feed production | | |
| 9.8.12 | Other extension advice (Specify) …… | | |

***Source of agriculture extesnion(S/wima 3)***
*SGovernment……1 NGO/Development project…..2 Cooperative Union….3 Large Scale farmer….4 Radio/TV/Newspapere.5 Neighbour……6 Other source …..8*

**Definitions and working page for page 15**

**General definitions**

**Fish farming**: Refers to the rearing/production of fish. It is different from fishing in that in fish farming the fish have to be reared. While in fishing, fishing nets or traps are used to catch fish from rivers, lakes and the sea; thus fishing should not be included in this section

I

**Question Specific Definitions (Q 9.9 )**

Production unit number (Col 1): A production unit is a pond river/lake which is treated as a separate entity for the production of fish eg it may be by virtue of manageable size, maturity of fish, tye of fish etc. eg. a farmer may have 3 fish ponds (each one is a separate production unit).

Frequency of stocking (Col . 5): What is the number of time the farmer puts new fingerlings into the pond each year.

Fingerlings: These are young immature fish used for stocking ponds.

**Sols: (Col 10 & 11)**

If no fish were sold enter "0" in column 10 and 11`

**Fish sold (Col.12)**

Kama hakuna samaki waliouzwa jaza "0" katika safuwima 12

**Working space for page 15**

**9.9 FISH FARMING** Identification

Did your household practice fish farming? Yes=1, No=2 (*If the answer is no proceed to section 9.10)*

Give details on the fish farming during 2007/08 agriculture year

| No. | Number of Ponds | Aina ya ufugaji | Square area of pond ($m^2$) | Source of fingerings | What is the frequency of stocking during the period? | Kiwango cha Huduma ya bwawa | Total number of stoked fish: Tialpia | Mwatiko | Crabs | Lulu | Total number of fish harvested | Total weight of all fish: waliovuliwa (kg) | waliouzwa (kg) | What is the main fish outlet? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) |
| 9.9.1 | 1 | | | | | | | | | | | | | |
| 9.9.2 | 2 | | | | | | | | | | | | | |
| 9.9.3 | 3 | | | | | | | | | | | | | |

***Type of farming (SCol 2)***
*Natural pond……..1*
*Small earth pond…….2*
*Large pond……..3*
*Other ……..8*

***Standard of servives to the pond (Col6)***
*High leve ……1*
*Intermediate level……2*
*Low leve……3*
*Don't know……..8*

***Source of fingerings(Col 4)***
*From the pond……1 Neighbour…….4*
*Government……..2 Business man…..5*
*NGO/Development Project…3 Natural Pond……..6*
*Other ……..8*

***mainly sold to? (Col 14)***
*Neighbour…1 Auction……..3 Large Scale farmers……..5*
*Open market….2 Fish processing industry..4 Private business people ….6*
*Did not sell……7 Other ……..8*

**9.10 HONEY PRODUCTION**

Is there honey production/harvesting in your household? Yes=1, No=2 (If answer is no PROCEED to Section 9.11)

**Give details on honery harvesting during 2007/08 agriculture year**

| Number | Type of honey | Harvesting done ? (Yes=1, No=2) | Number of improved bee hives | Number of local bee hives | Amount sold per year (Litre) | Amount of honey sold (litre) | Price per litre | Main market) |
|---|---|---|---|---|---|---|---|---|
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| 9.10.1 | Small bees | | | | | | | |
| 9.10.2 | Large bees | | | | | | | |

***Honey outlet Co 8***
*Neighbour…1 Auction……..3*
*Large Scale farmers……..5*
*Open market….2 Fish processing industry..4*
*Private business people ….6*
*Did not sell……7*

**9.11 AGRICULURAL CHALLENGES**

From the list of cahhalengs in farming on the right of the page, SELECT FIVE MAIN CHALLENGES WHICH constrain your development in agriculture

| No | With first five priorities | Code |
|---|---|---|
| | (1) | (2) |
| 9.11.1 | Priority 1 | |
| 9.11.2 | Priority 2 | |
| 9.11.3 | Priority 3 | |

| No | Important for | Code |
|---|---|---|
| | (1) | (2) |
| 9.11.4 | Priority 4 | |
| 9.11.5 | Prioty 5 | |

LIST OF CHALLENGES

*01 Land availability*
*02 Land owenership*
*03 Poor farm implementso*
*04 Soil fertility*
*05 Availability of imrpoved seeds*
*06 Irrigation services*
*07 Availability of agrochemicals*
*08 Cists of farm inputs*
*09 Extension services*
*10 Availability of forest resources*
*11 Huntinf and collection problems*
*12 Water availability*
*13 Access to credits*
*14 Lack of off farm incomes*
*15 Harvesting problems*
*16 Kupukuchua*
*17 Crop stiorage*
*18 Crop processing*
*19 Market information*
*20 High transporation costs*
*21 Destructive animals*
*22 Crop thefty*
*23 Pests and diseases*
*24 Advice from Local government*
*25 Long dry spells*
*26 Conflicts between livetsock keepera and pastoralists*

**Definitions and working page for page 16**

**10.0 Household poverty indicators**

**Number of rooms used for sleeping in the household (Q 10.1.4**)
Include sitting room, during room, kitchen, etc if used for sleeping.

It also includes rooms outside the main dwelling

A room is defined as a space which is separate from the rest of the building by a permanent wall or division. A building / house that is not divided into rooms is considered to have one room.

**Household assets (Q 10.2**):
There assets must be functionin. Do not include if broken.

**Access to drinking** water (Q 10.4):
If there is more than one source use the one, which the hh uses most frequently.

**Main source of hh cash income**:(Q 10.7:
Activity that provides the hh with the most can during 2007/08 agricultural season.

**10.0 POVERTY INDICATORS**

**Idetification**

**10.1 HOUSE CONSTRUCTION**
Specify materials used in the construction of the following
sehemu zifuatazo

**10.1.1** Roof **10.1.2** Floor **10.1.3 Wall**

***Roofing materials***
*Iron sheets……..1*
*Tiles……..2*
*Concrete……3*
*Asbestos ….4*
*GrassiMakuti……..5*
*Grass and mud….6*
*Other …….. .8*

***Floor matrials***
*Earthen material……1*
*Wood……..2*
*Wooden tiles…3*
*Tiles……..4*
*Cement……5*
*Other……..8*

***Main materials***
*Grass and pieces of woods……..1 Mud…….2*
*Wet bricks……3 Burnt bricks...4*
*Wood……..5 Block bricks……6*
*Stonese ……..7 Bricks /Mawe ya kichanga……..8*

10.1.4 Number of bedrooms

**10.2 Household property**
Does your houshold woen the following?, (Yeso=1 No =2)

| Number | Property | Yes=1, No=2 |
|---|---|---|
| | (1) | (2) |
| 10.2.1 | Radio (Radio, Radio Casette, music system) | |
| 10.2.2 | Land line | |
| 10.2.3 | Celkl phone | |
| 10.2.4 | Iron | |
| 10.2.5 | Trolley | |
| 10.2.6 | Bycicle | |
| 10.2.7 | Vehicle | |
| 10.2.8 | TV/ Video | |
| 10.2.9 | Refrigerator | |
| 10.2.10 | Motorbike/vespa | |

**10.3 Energy use and availability in the hsousehold**

Main source of energy

10.3.1 Lightining 10.3.2 Cooking

***Nishati za Kuangazia***
*Umeme……..01*
*Sola……..02*
*Gesi (biogas) ……03*
*Taa ya kandili……04*
*Karabai……05*
*Kibatari……06*
*Mishumaa……07*
*kuni……08*
*Nyingine …….. 98*

***Nishati za kupikia***
*Umeme……..01*
*Sola……..02*
*Gesi (biogas) ……03*
*Gesi (Kiwandani)…..04*
*Mafuta ya taa……05*
*Mkaa……06*
*Kuni ……07*
*Mabaki ya Mazao….08*
*Kinyesi cha*
*Wanyama……09*
*Nyingine ……98*

**10.4** Availability of drinking water

| | Season | Main source of water | Distance from source ( km) | Time spent waitingor going to and from the source (Hours) |
|---|---|---|---|---|
| | (1) | (2) | (3) | (4) |
| 10.4.1 | Rainy | | | |
| 10.4.2 | Dry period | | | |

***Main sourece of drinking water***
***Col. 2***
*Tape water……..01 Water venders……09*
*Arificial well……..02 Boozer……10*
*Arificial spring… ……..03 Bottled water……11*
*Openwell……..04 Other (Specify)……98*
*Natural spring……..05*
*Lake water,piond,river,stream n etc……..06*
*Covered Rain water harvesting well..07*

**Note:** *Code01,* ***Bomba*** *kwa Zanzibar hujulikana kama Mfereji*

**10.5 Toilet facilities**

10.5.1 What type of toilet does your hosuehold use?

***Tyep of toilet***
*No toilet/in the buish……1 Pit latrine…..4*
*Flash toilet……..2 Other type (Specify)……..8*
*Ordinal pit latrine……3*

**10.6 Eating patterns**

| | | |
|---|---|---|
| 10.6.1 | **How many meals does your hosue usually get per day** ? | |
| 10.6.2 | How days did the household eat meat last week? | |
| 10.6.3 | How days did the household eat fish last week? | |
| 10.6.4 | How many times did the household experience food shortages last year? | |

***Food shortage problems (Swali 10.6.4)***
*Never ……1*
*Few times……..2*
*Sometimes……..3*
*Many times……4*
*Often……..5*

**10.7 Main source of household cash income?**

10.7.1 What are the sources of household income?

***Code for source of income***
*Selling food crops……..01 Sales of foerst products..05 Cash assisnatce...09*
*Sales of livestock……..02 Business……06 Fishingi……10*
*Sales of livestock products……03 Salaries……07 Other……98*
*Sales of cash crops...04 Casual labour……08 None……99*

**TIME OF FINISHING THE INTERVIEW** Hour Minutes

**Average/maximum yields per area**

**Use this table to compare the yields calculated in Sections 5.1, 5.2 and 5.3.**

**These stats are strictly to be used used as a guide for the purpose of assisting to get the correct area and yields for each crop.**

| | Name of Crop | Kilogram/ha | | Kilogram/acre | | | | Name of Crop | Kilogram/ha | | Kilogram/acre | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Average | Max | Average | Max | | | | Average | Max | Average | Max |
| 11 | Maize | 1,150 | 6,250 | 466 | 2,530 | | 86 | Cabbage | 20,000 | 50,000 | 8,097 | 20,243 |
| 12 | Paddy | 700 | 4,000 | 283 | 1,619 | | 87 | Tomatoes | 25,000 | 60,000 | 10,121 | 24,291 |
| 13 | Sorghum | 750 | 3,500 | 304 | 1,417 | | 88 | Spinach | 15,000 | 17,000 | 6,073 | 6,883 |
| 14 | Bulrush Millet | 350 | 3,000 | 142 | 1,215 | | 89 | Carrot | 25,000 | 30,000 | 10,121 | 12,146 |
| 15 | Funger Millet | 300 | 2,500 | 121 | 1,012 | | 90 | Pepper | 3,500 | | 1,417 | 0 |
| 16 | Wheat | 1,150 | 4,500 | 466 | 1,822 | | 91 | Amaranthus | 20,000 | 40,000 | 8,097 | 16,194 |
| 17 | Barley | 1,400 | 1,800 | 567 | 729 | | 92 | Pumpkin | 35,000 | 40,000 | 14,170 | 16,194 |
| 16 | Cassava | 3,000 | 7,000 | 1,215 | 2,834 | | 93 | Cucumber | 5,000 | 10,000 | 2,024 | 4,049 |
| 17 | Sweet potatoes | 600 | 8,000 | 243 | 3,239 | | 94 | Egg plant | 30,000 | 60,000 | 12,146 | 24,291 |
| 18 | Irish potatoes | 750 | 8,500 | 304 | 3,441 | | 95 | Water melon | 10,000 | 20,000 | 4,049 | 8,097 |
| 19 | Yams | 4,000 | 10,000 | 466 | 1,822 | | 96 | Caouliflower | 17,000 | 20,000 | 8,097 | 16,194 |
| 25 | Coco yams | 2,500 | 5,000 | 567 | 729 | | 52 | Cotton | 800 | 25,000 | 14,170 | 16,194 |
| 26 | Onions | 30,000 | 50,000 | 1,215 | 2,834 | | 54 | Coffee | 500 | 100 | 2,024 | 4,049 |
| 27 | Ginger | 20,000 | 30,000 | 243 | 3,239 | | 55 | Tea | 2,500 | 10,000 | 12,146 | 24,291 |
| 31 | Mahara Beans | 400 | 1,300 | 304 | 3,441 | | 56 | Cocoa | 150 | 1,000 | 4,049 | 8,097 |
| 32 | Cow peas | 300 | 1,750 | 121 | 709 | | 57 | Rubber | 400 | 1,400 | 6,883 | 8,097 |
| 33 | Green gram | 1,500 | 1,800 | 1,012 | 2,024 | | 58 | Wattle | | | 324 | 10,121 |
| 34 | Pigeon peas | 600 | 1,500 | 243 | 607 | | 59 | Kapok | | | 0 | 0 |
| 35 | Chick peas | 500 | 1,500 | 202 | 607 | | 60 | Sugar cane | 60,000 | 150,000 | 24,291 | 60,729 |
| 36 | Bambara nuts | 600 | 4,000 | 243 | 1,619 | | 61 | Cardamon | 3,000 | | 1,215 | 0 |
| 41 | Sun flower | 600 | 1,700 | 243 | 688 | | 71 | Banana | 10,000 | 50,000 | 4,049 | 20,243 |
| 42 | Simsim | 300 | 1,000 | 121 | 405 | | 72 | Avocado | | | 0 | 0 |
| 43 | Gound nuts | 600 | 4,000 | 243 | 1,619 | | 73 | Mango | 10,000 | 25,000 | 4,049 | 10,121 |
| 47 | Soyabeans | 1,300 | 2,500 | 526 | 1,012 | | 74 | Pawpaw | 50,000 | 70,000 | 20,243 | 28,340 |
| 48 | Caster seeds | 300 | 750 | 121 | 304 | | 76 | Orrage | 15,000 | 40,000 | 6,073 | 16,194 |
| 75 | Pineapple | 25,000 | 60,000 | 10,121 | 24,291 | | 77 | Grape fruit | 30,000 | 50,000 | 12,146 | 20,243 |
| 50 | Cotton | 300 | 1,500 | 121 | 607 | | 78 | Grapes | 5,000 | 30,000 | 2,024 | 12,146 |
| 51 | Tobacco | 500 | 1,500 | 202 | 607 | | 79 | Mandarin | 15,000 | 40,000 | 6,073 | 16,194 |
| 53 | Pyrethrum | | | 0 | 0 | | 80 | Quava | 7,000 | 35,000 | 2,834 | 14,170 |
| 62 | Jute | 800 | 3,500 | 324 | 1,417 | | 81 | Plums | | | 0 | 0 |
| 44 | Palm oil | 1,150 | 5,000 | 466 | 2,024 | | 82 | Tufaha | | 20,000 | 0 | 8,097 |
| 45 | Cononut | 1,500 | 8,000 | 607 | 3,239 | | 83 | Pea | 15,000 | 27,000 | 6,073 | 10,931 |
| 46 | Cashw nut | 9 | 60/tree | 4 | 24 | | 84 | Pitches | 14,000 | 57,000 | 5,668 | 23,077 |
| | | | | | | | 66 | Clove | 4,500 | 5,000 | 1,772 | 1,969 |
| | | | | | | | | Black pepper | 2,000 | 3,750 | | |
| | | | | | | | | Mung'unye | | | | |
| | | | | | | | | Ocra | 1,000 | 1,500 | | |

# Appendix V

## Community Level Questionnaire

**United Republic of Tanzania**

ACQ 3 CONFIDENTIAL

### Village/Community Level Formats

**Access to and Use of Community Resources**

**Farmg Gate Prices of commodoties produced by the village**

### Agricultural Sample Census 2007/2008

| | | | | | |
|---|---|---|---|---|---|
| Region | ..... | | | Ward | |
| District | ..... | | | Village | |

**NUMBER OF FARMERS HH IN THE VIALLAGE**
*To be filled by the enumerator after completeing form ACLF2*

**NUMBER OF HH MEMBERS**
*To be filled by the enumerator after completeing form ACLF2*

**Enumerator Name** ..... Signature .....

Date of Enumeration

d d / m m / y y y y

| Hour | Minutes |
|---|---|
| Start Time | |
| End Time | |

**Field level checking by:**

| | | | | | |
|---|---|---|---|---|---|
| District Supervisor | Name ..... | Signature | ..... | Date | / / |
| Regional Supervisor | Name ..... | Signature | ..... | Date | / / |
| National Supervisor | Name ..... | Signature | ..... | Date | / / |

*I To be filled by the supervisor ONLY after Field/farm level checking of the enumeration process. This should be countersigned by the Supervisor in front of the enumerator*

**Distric checking in Office**

| | | | | | |
|---|---|---|---|---|---|
| District Supervisor | Name ..... | Signature | ..... | Date | / / |

*All questionnaires must be checked at the district office.*

**For Use at Regional Level Only**

| | | | | | |
|---|---|---|---|---|---|
| Data entered by: | Name ..... | Signature | ..... | Date | / / |
| Queried | Name ..... | Signature | ..... | Date | / / |

*See the back page for details of queries*

*Ministry of Agriculturte and Food Security, Ministry of Livestock and Fisheries Development, Ministry of Agriculture and Environment of Zanzibar, Ministry of Water and Irrigation, Prime Ministers' Office Regional Adminstration and Local Government, Ministry of Industry Trade and Marketing, National Bureau of Statistics, and the Office of the Government Statistician General of Revolution Governemnet of Zanzibar*

**Definitions and working page for page 3**

**Question Specific Definitions:**

Obtain answers to the following questions from the meeting between the enumerator and influencial farmers in the village Infuencial people can be Village Chairman, Village Governement Executive Officer, Councillor, Ward Chairman, Extension Officer in the village or any other person in the village and who is well informed about village matters. It is important to not that these questions must be asked in groups (of more than one people) to obtain answers discussed and approved by many people.

**Definitions of some specific terms**

**Access to community resources. Section 1.0**
**Community Resources:** Resources in which the hh members have no individual claim to and which are shared together by all the village
**Community Land:** The area officiall demarcated by the village as shared/public land.
**Squatting farmers Land: Communal land where individual hhs make sole claim to (for crop farming or fenced livestock) without official rights to ownership**.
**Available remaining Land: Official area of communal land minus areas of squatting farners.**
**Givernment Land Reserve: Area set aside by the government as national reserve**

**Community tree planting scheme(Section 14.3)**

**Community Forest:** A forest planted on the communal land which is planted, replanted or spt planted by the members of the village.

**Plant Planting:** An area designated by the village for planting a block of trees.

**Spot Planted:** Replanting an area where selective logging has been carried out. A tree is planted to replace the one that has been cut.

**Indigeous Trees:** Trees that are native to Tanzania

**Exotic Trees:** Trees that are not native to Tanzania

**Non Government Organisation**: Is managed by people from outside the village and it normally covers more than one village/District/Region. Its function is to provide deveoopment assistance to the farmer and is free from direct government links.

**Village level organization**: is managed by members of the village. Its purpose is normally to access/provide development assistance to the village

# ACCESS TO COMMUNAL RESOURCES

**1 ACCESS TO COMMUNITY RESOURCES**

1.1 Does the village set aside an area for communal resources e.g. forest, grazing, etc. (Yes =1 No =2) ☐

*(If the answer is no proceed to 1.2)*

| | Are of Comminity, Village, Wrad resources | Area in acre | |
|---|---|---|---|
| 1.1.1 | **Total area of communal land** | ☐☐☐☐☐ | Oficial figures from the leader |
| 1.1.2 | **Area of squatting famers in communal land** | ☐☐☐☐☐ | Key informant (Leader/Extension officer etc.) |
| 1.1.3 | **Remaining available communal land** | ☐☐☐☐☐ | Key informant (Leader/Extension officer etc.) |
| 1.1.4 | **Government reserve land** | ☐☐☐☐☐ | Key informant (Leader/Extension officer etc.) |

**1.2 UPATIKANAJI NA MATUMIZI YA MALIASILI ZA JUMUIYA/KIJIJI/SHEHIA**

| | Community Resources | Distance from the resource in Km -season | | Main Use |
|---|---|---|---|---|
| | | Dry | Rainy | |
| | (1) | (2) | (3) | (4) |
| 1.2.1 | Water for human consumption | ☐☐☐ | ☐☐☐ | ☐ |
| 1.2.2 | Wtar for livestock | ☐☐☐ | ☐☐☐ | ☐ |
| 1.2.3 | Communal grazing land | ☐☐☐ | ☐☐☐ | ☐ |
| 1.2.4 | **Communal firewood** | ☐☐☐ | ☐☐☐ | ☐ |
| 1.2.5 | Wood for chracoal burning | ☐☐☐ | ☐☐☐ | ☐ |
| 1.2.6 | **Wood for building poles** | ☐☐☐ | ☐☐☐ | ☐ |
| 1.2.7 | Forest for bee keeping (honey) | ☐☐☐ | ☐☐☐ | ☐ |
| 1.2.8 | **Hunting** | ☐☐☐ | ☐☐☐ | ☐ |
| 1.2.9 | **Fishing** | ☐☐☐ | ☐☐☐ | ☐ |

**Instructions on distance from the resource (Cols 2 and 3):**
Distance is estimated from the centre of the village.

If under1 km 1, enter 0
If abover 1 km 1 enter whole number , eg. 1.5km= 2km, 1.25km= 1km

***Msin uses (Col. 4)***
*Home or farm /livetsock consumption...1*
*Sold to traders in the village.....2*
*Sold to the village market.....3*
*Sold to local wholesalers.....4*
*Sold to Big wholewsalers .....5*
*Not available.....6*

**2.0 COMMUNITY PLANTED TREES**

2.1 Didi your village have community planted trees during 2007/08 agriculture year? (Yeso=1, No=2) ☐

*If the answer is no proceed to Section 3.0*

**Details of the community tree planting scheme**

| No. | Dustance from the community forest | Forest Area (acre) | Type of Pllanting | Type of Trees | Source of seeds/ Seedlings | Number of Years since the start of planting | Main uses 2007/08 agriculture year | Main uses of communal forest products |
|---|---|---|---|---|---|---|---|---|
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| 2.2 | ☐☐ • ☐ | ☐☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |

***Type of planting Col. 3)***
*POlantion planting.....1*
*Spot planting… .....2*

***Type of trees (Col. 4)***
*Indigenous tress.....1*
*Exotic tree.....2*
*Both types.....3*

***Source of seedlings (Col. 5)***
*Seeds collection and planting.....1*
*Villlage Nursery.....2*
*Department of Forestry..... .....3*
*Private Individuals.... .....4*

***Main Uses (Col. 7)***
*Poles .....1*
*Wood .....2*
*Charcoal .... .....3*
*Firewoodi .....4*
*Other (Specify) .....8*

***Main use of revenue (Col.8)***
*Village development fund.1*
*Household use.....2*
*Household ilcome.... .....3*

**3.0 Non governmental Organisation (NGOs) Contact**

3.1 Did any NGO visit the village during 2007/08 agriculture year? (Yes=1,No=2) (If no provceed to Section 4) ☐

| Na. | Type of NGO | Visited Y=1,N=2 | Number of visits | Distnatce to the Office (km) |
|---|---|---|---|---|
| 3.2 | Extension/ Rsearch | ☐ | ☐☐ | ☐☐☐ |
| 3.3 | Service /Input provision | ☐ | ☐☐ | ☐☐☐ |
| 3.4 | Community Development | ☐ | ☐☐ | ☐☐☐ |
| 3.5 | Other | ☐ | ☐☐ | ☐☐☐ |

5.1 Did the village have Field farm schools during 2007/08,agriculture year? (Yes=1,No=2) ☐

5.3 Did the village have local ironsmiths during 2007/08 agriculture year? (Yes=1, No=2 ) (If the answer is 2 proceed to q. 5.5 ☐

5.4 Number of local ironsmiths ☐☐☐

**4.0 Community Based Organisation**

4.1 Didi the village have any CBO during the 2007/08 agricuylture year?(Yes=1, No=2) ☐

| Na. | Type of CBO Nd=1,Hap=2 | |
|---|---|---|
| 4.2 | Extension/ Rsearch | ☐ |
| 4.3 | Service /Input provision | ☐ |
| 4.4 | Community Development | ☐ |
| 4.5 | Other | ☐ |

5.2 Did the village participate in any research on crops/ improved livestock during in the village during 2007/08 agriculture year? (Yes=1, No=2) ☐

5.5 Did the village have any training centres on draft animals during 2007/08 agriculture year? (Yes=1, No=2 ) If number 2 is the answer conclude the enumeration. ☐

5.6 Number of training centres for draft animals ☐☐☐

Obtain answers to the following questions from the meeting of enumerator and key informants in the village.Key infomants can be a village chairman, Village Local Government Executive Officer, Councellor, Wrad Chairman, Village extsion officer, or any knowledgeble member in the community. Where possible ask these questions to a group inorder to reach a consensus . **The numebr should be below five people.**

**Procedure:** Administer this frpom after completing asll smallholder questionnaires for the village.
1. Copy the name of all crops from Sections 5.1, 5.2 and 5.3 grown in the village from smallholder questionnaires
   This should also include livetsock raised by the household from questions 9.1, 9.3, 9.4 and 9.5 and enter them in col na 1 of this form.
   Also see codes for livetsock below.
2. Enter price estimates per kg in col 5 and 6.

| Name of crop/livestock | Code of crop/livestock | Name of main crop | Code of Main crop | Type of measure | Price of measure | |
|---|---|---|---|---|---|---|
| | | | | | Minimum Per year | Maximamun Per year |
| *(1)* | *(2)* | *(3)* | *(4)* | *(5)* | *(6)* | *(7)* |
| | | | | | | |

***Type of livestock(Col 2)***
*Cattle .....01 Ducks.....07*
*Goat.....02 Turkey.....08*
*Sheep.....03 Rabbit.....09*
*Pigs.....04 Kanga.....10*
*Poutry.....05 Simbilisi.....11*
*Donkeys.....06*

***Main poroduct- CROPS (sCol.4)***
*Cereals.....01 Flowers eg. Pyrethrum.....07*
*Green maize.....02 Vegetables.....,08*
*Green leaves and stem .....03 Fruit.....09*
*Straw, dry stems etc..04 Other.....10*
*Roots and tubers, etc.....05*
*Leaves (Tobacco etc)..... .....06*

***Main product- LIVESTOCK (Col. 4)***
*Live animals.....01*
*Meat .....02*
*Milk.....03*
*Eggs.....04*

***Q*uantity (Col.5)**
Kg.....1
Number.....2
Litre.....3
A portion/piece .4

# Appendix V

## Village Community Level formats

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**ACLF 1**

*Page Number…….. out of……*

**Agriculture Sample Census 2007/08**

**Sub-village /ward leader listing from**

Region _____Code ☐☐ Ward _____Code ☐☐☐

District _____Code ☐☐ Village _____ Code ☐☐

| Sub village leader Number | Name of Ward village leader | Number of Households | | Comments |
|---|---|---|---|---|
| | | Form Office Register | After enumeration | |
| (1) | (2) | (3) | (4) | (5) |
| ☐☐☐ | | ☐☐☐☐ | ☐☐☐☐ | |
| ☐☐☐ | | ☐☐☐☐ | ☐☐☐☐ | |
| ☐☐☐ | | ☐☐☐☐ | ☐☐☐☐ | |
| ☐☐☐ | | ☐☐☐☐ | ☐☐☐☐ | |

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**ACLF 2**

*Page Number…….. out of……*

**Agriculture Sample Census 2007/08**

**Household listing from-for listing hh heads and agriculture activities**

Region _____ Code

District _____ Code

Ward _____ Code

Village _____ Code

☐☐

☐☐☐

☐☐

Name of sub village leader

Name of sub village_____ ☐☐

| Household number | Household head name | Number of | | | | | | | | | | If the Respondent Qualifies X | Farmer Serial Number |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Fields a | Cattle | | | | Goats | Sheep | Pigs | Kuku/Bata/ | Rabbit | | |
| | | | Total | Bulls | Cows | Calves | | | | | | | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) |
| ☐☐☐☐ | | | | | | | | | | | | | |
| ☐☐☐☐ | | | | | | | | | | | | | |
| ☐☐☐☐ | | | | | | | | | | | | | |
| ☐☐☐☐ | | | | | | | | | | | | | |

**ACLF 3**

**UNITED REPUBLIC OF TANZANIA**

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**Household listing for 15 selected farmers**

**National Agriculture Sample Census 2007/08**

Region _____ Code ☐☐ ward : _____ code ☐☐☐ ☐☐ Namba Sawia ☐☐☐

District _____ Code ☐ village _____ code ☐☐ ☐ Hatua ☐☐☐

| S/N | Sub-village leader Number | Name of sub-village leader | Name of selected head of household | Name of Household Head | Number of | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Field | Cattle | Goat | Sheep | Pigs | Poutry |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
| ☐☐ | ☐☐☐ | | ☐☐☐☐ | | | | | | | |
| ☐☐ | ☐☐☐ | | ☐☐☐☐ | | | | | | | |
| ☐☐ | ☐☐☐ | | ☐☐☐☐ | | | | | | | |
| ☐☐ | ☐☐☐ | | ☐☐☐☐ | | | | | | | |