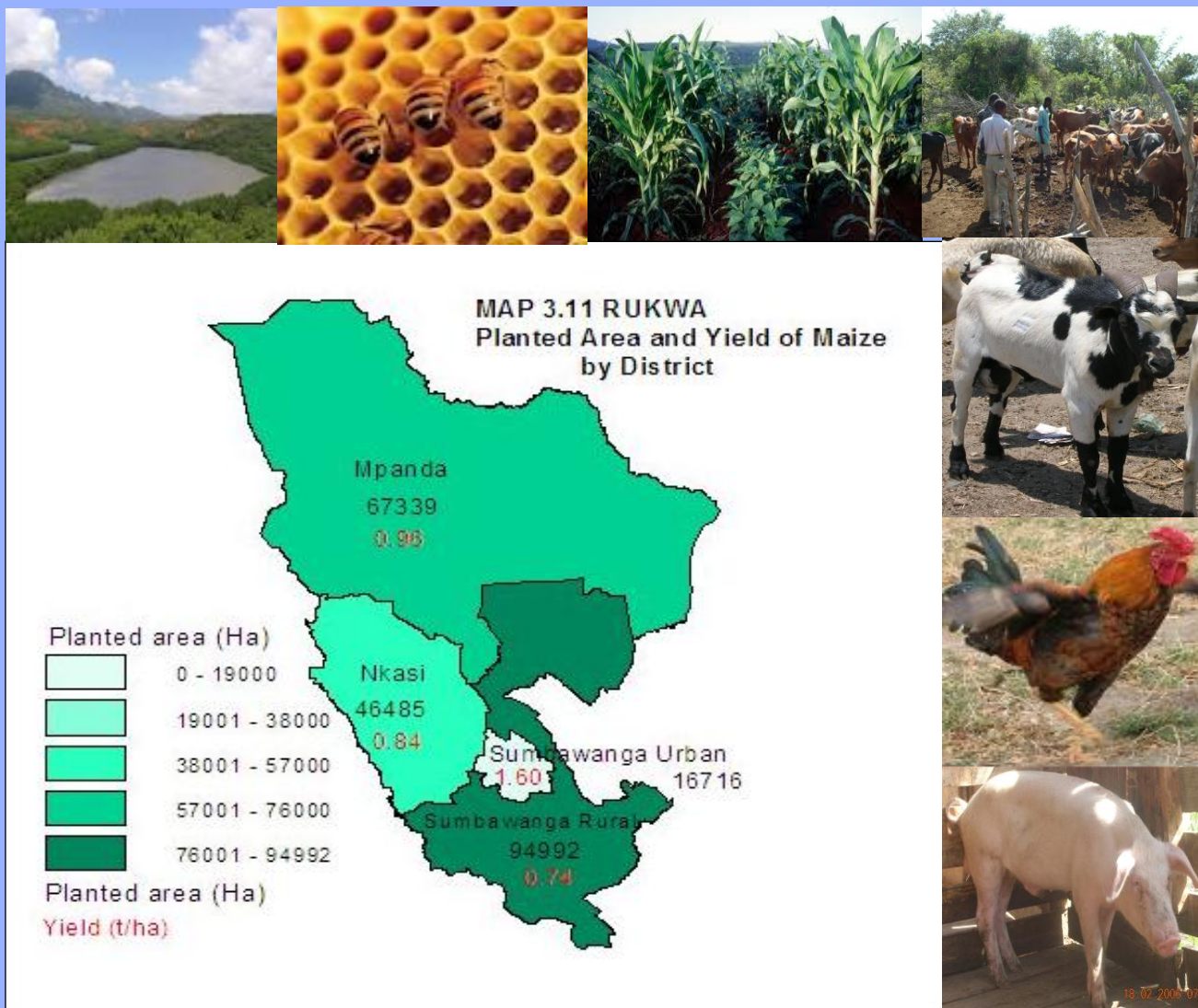




The United Republic of Tanzania

## 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

AUGUST, 2012



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**AUGUST, 2012**

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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

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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

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## 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

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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 Iya 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/Ecological Zones

Rukwa region is comprised of five agro-ecological zones classified by BRALUP (1977) based on altitude, climate, vegetation, agricultural 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.l) are less densely populated. Soils 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.l). Soils are sand with very low fertility. 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 sparsely populated range of hills and minor plateau area (1200 – 1500 m.a.s.l) covered with Miombo woodland on loamy, ferrallitic 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 1<sup>st</sup> October 2007 to 30<sup>th</sup> 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

**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

2.1 gives the sample size of households, villages/EAs and districts for Tanzania Mainland and Zanzibar.

#### **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.

#### **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:

- Manual 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.

CSPPro 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 CSPPro 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

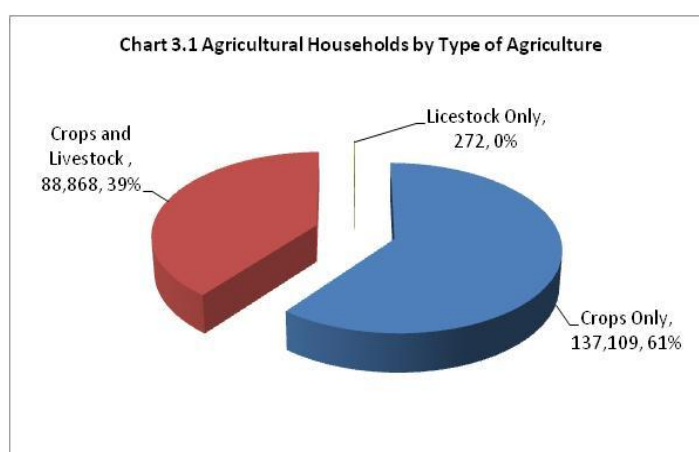
This part of the report presents the census results for Rukwa region based on the data tables in Appendix A2. The results are presented in different forms including brief summaries, charts, condensed tables, graphs and maps in order to make it easier for the users to understand. Comparisons are made 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<sup>2</sup>) and Sumbawanga Rural (13 households/km<sup>2</sup>).

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)

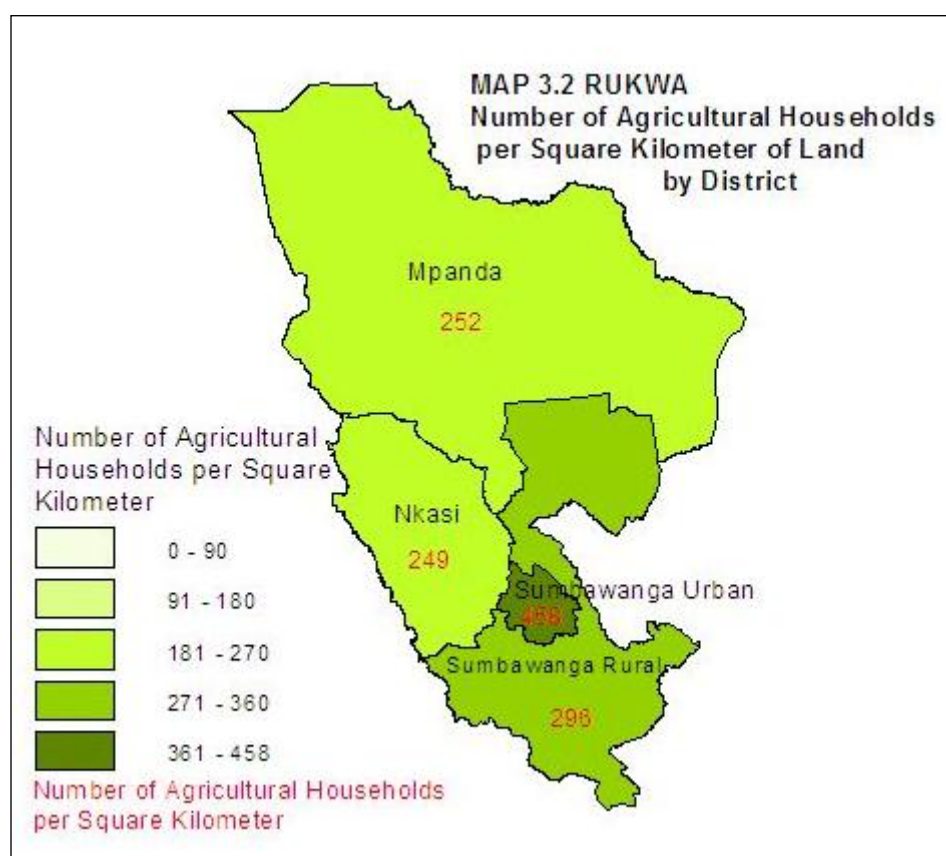
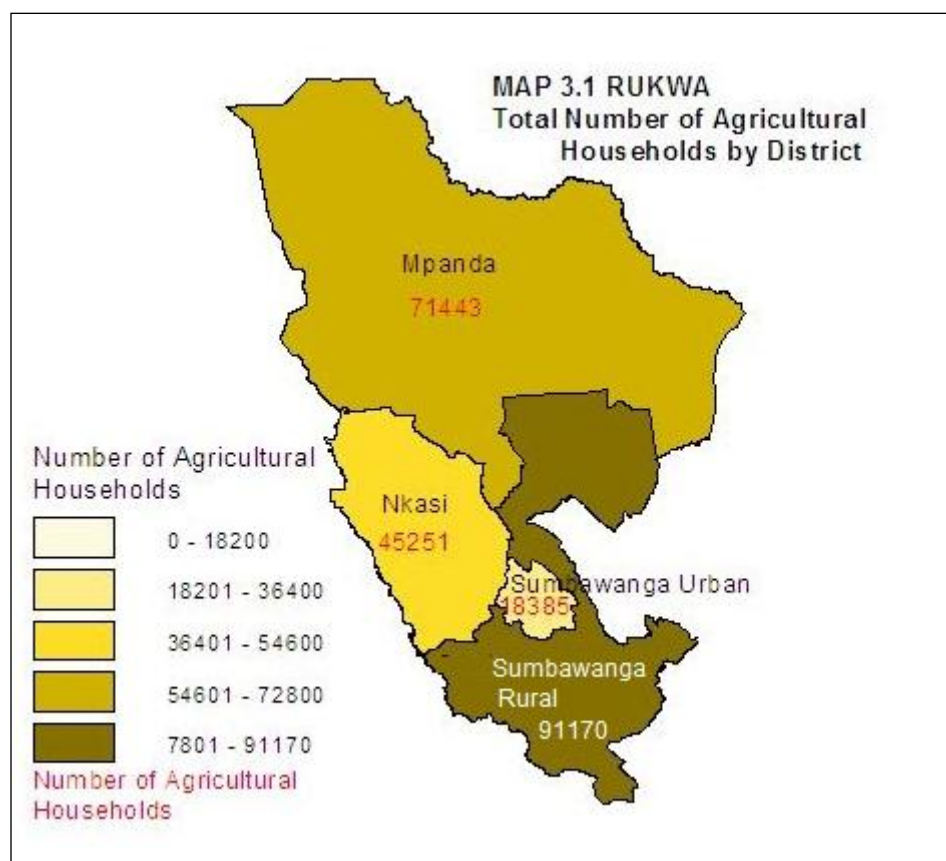


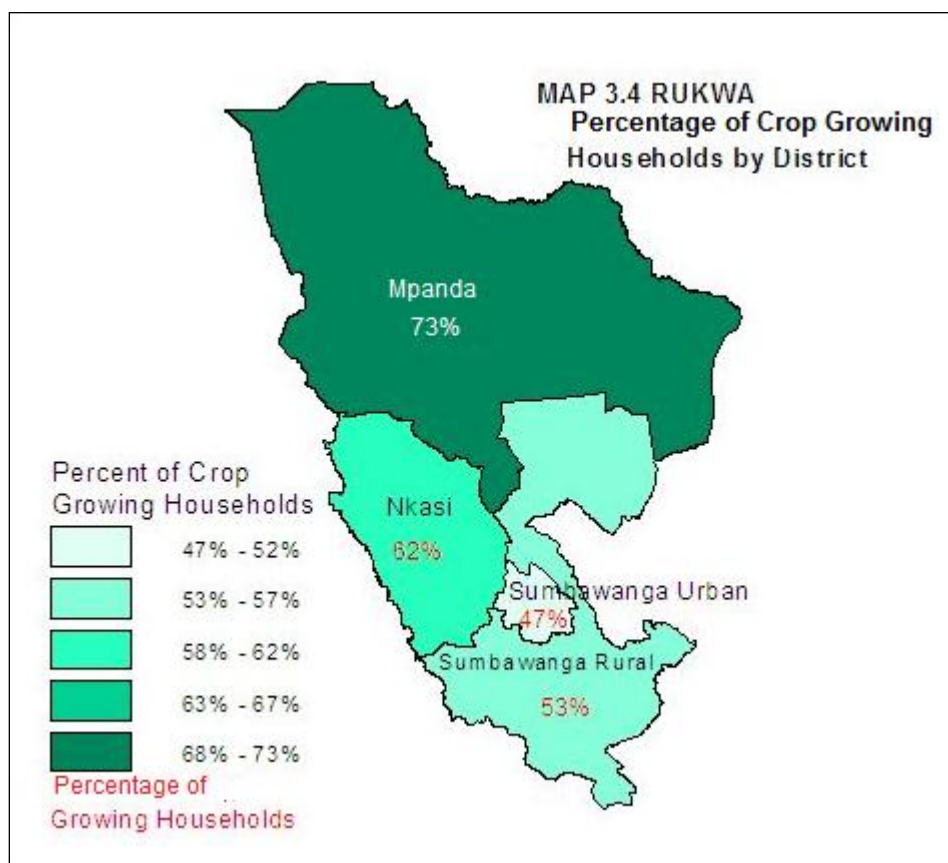
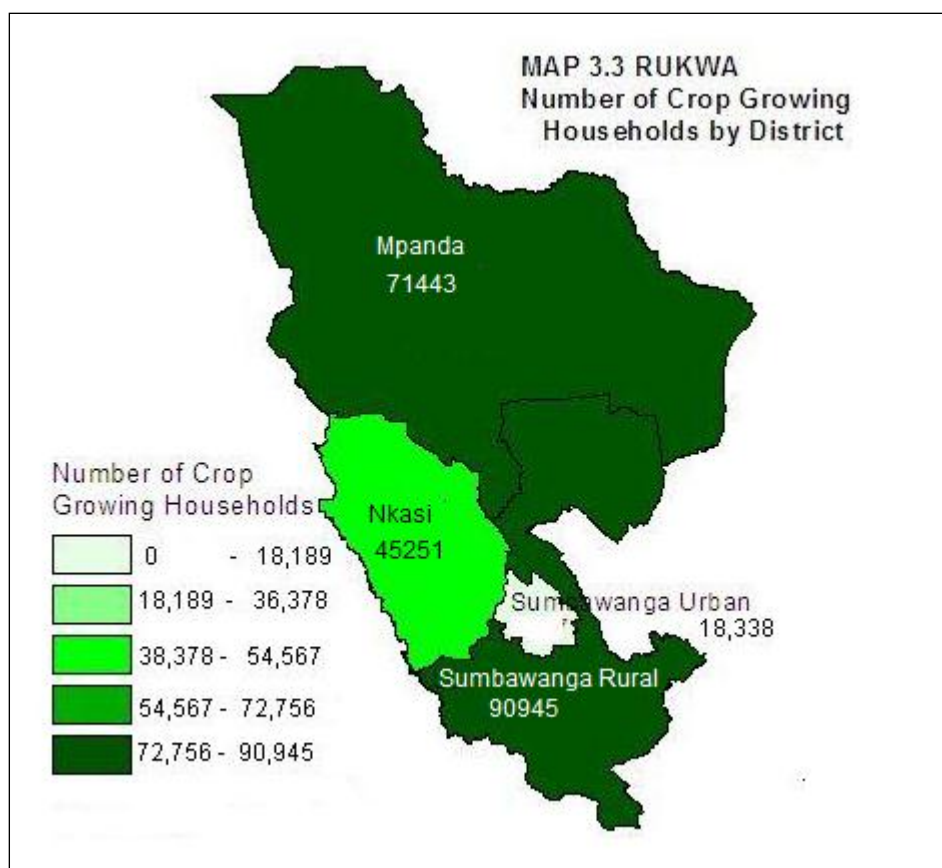
### 3.1.2 Livelihood Activities/Source of Income

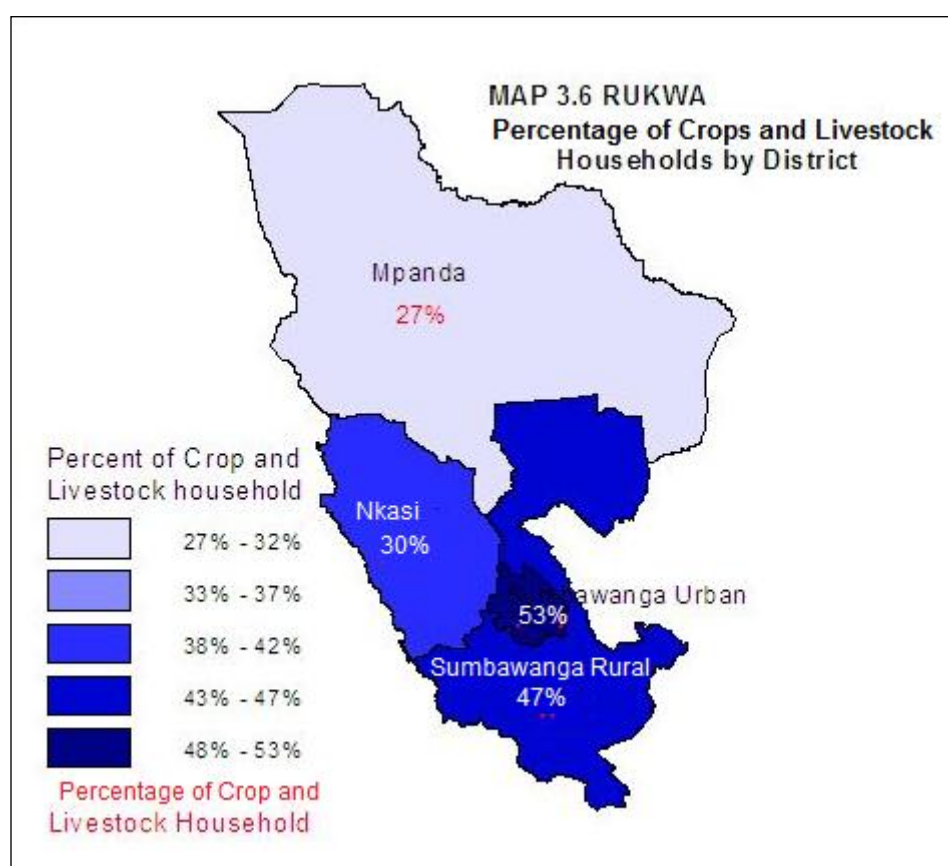
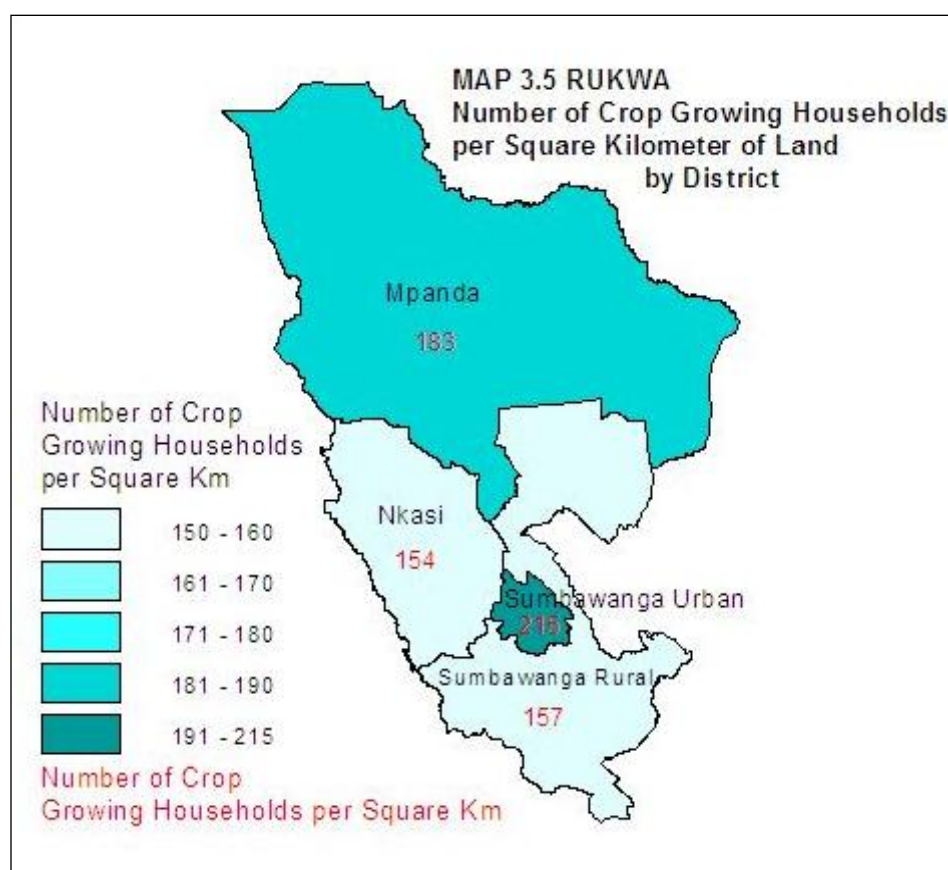
The census results for Rukwa region indicates that most of the agricultural households reported annual crop/seaweed farming (94%) as their main activity. The remained percent was for employment as main activity (3.1%), followed by fishing (1.6%) and livestock keeping/herding (0.5%), (Table 3.2).

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

District	Crop/Seaweed Farming		Livestock Keeping / Herding		Fishing		Employment		Other		Total	
	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

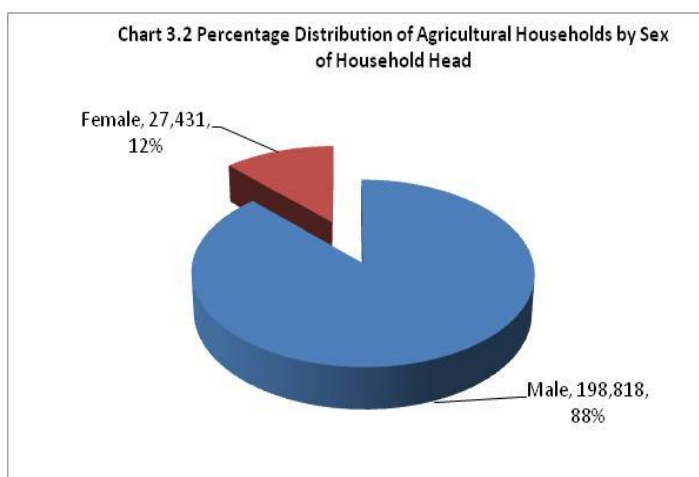






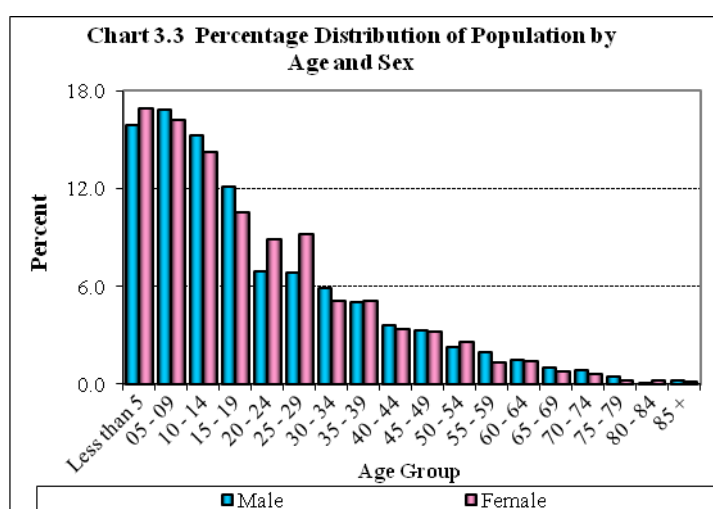
### 3.1.3 Sex and Age of Head of Household

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.

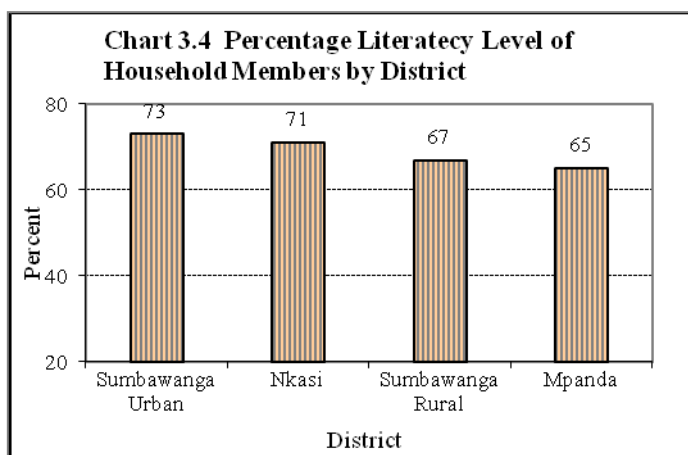


### **Literacy**

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.

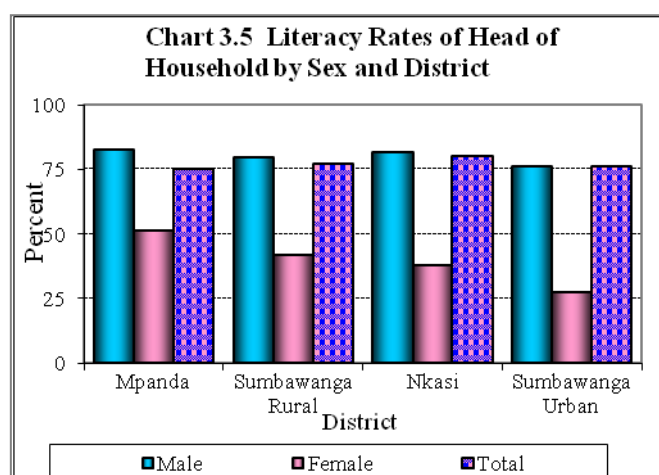
#### **Literacy Level for Household Members**

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**

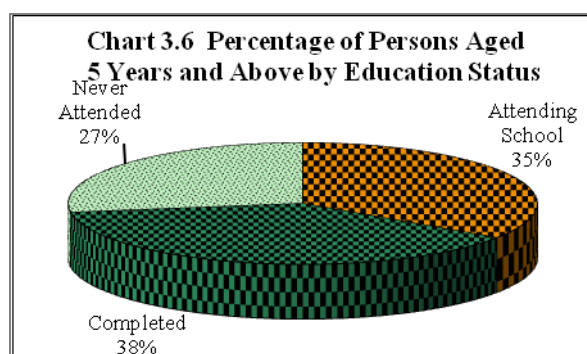
The literacy rate for the heads of households in the region was 77 percent. The literacy rates among the male and female heads of households were 81 and 50 percent respectively. The literacy rate for male headed of households was higher than that of females in all districts. However, Nkasi districts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





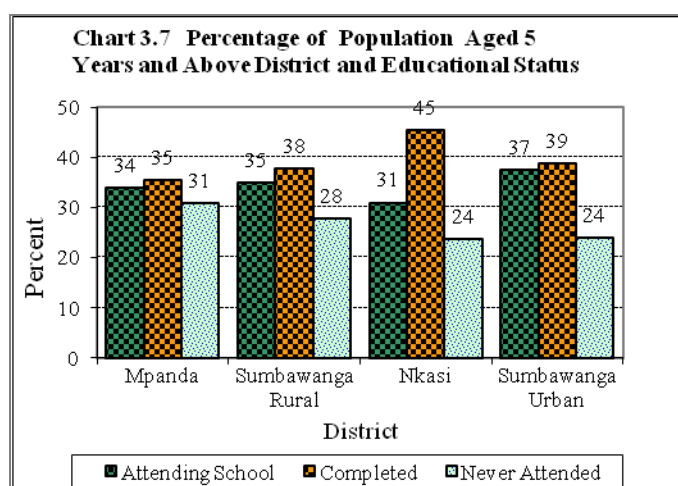
### ***Educational Status***

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

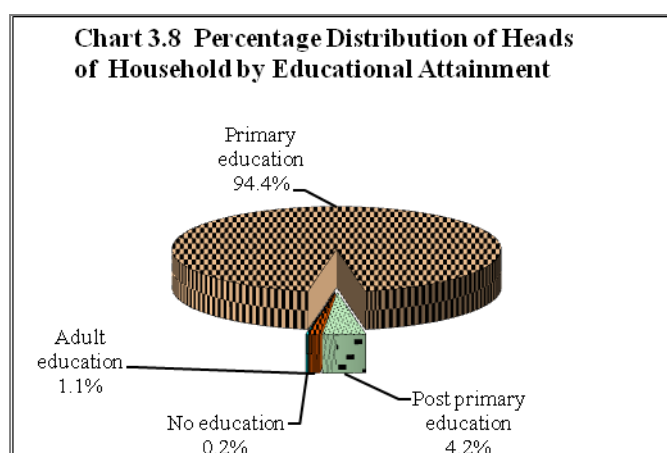


who have never attended school were 27 percent (Chart 3.6). The result shows that a large number of households in Rukwa region had completed different levels of education.

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).



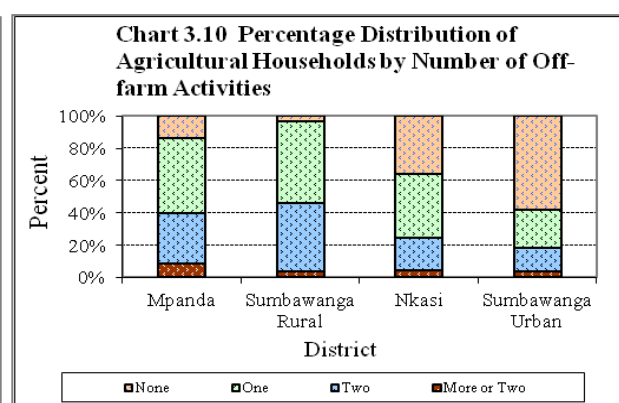
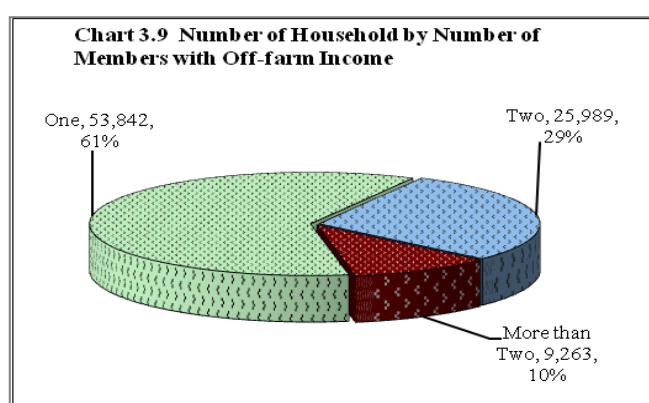
With regard to the heads of agricultural households with primary or secondary education in Rukwa region, Sumbawanga For primary school, Sumbawanga rural had the highest percentages (95.4%) This was followed by Nkasi (95.1%), Mpanda (93.0%) and Sumbawanga urban (91.0%). For secondary school, Mpanda had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

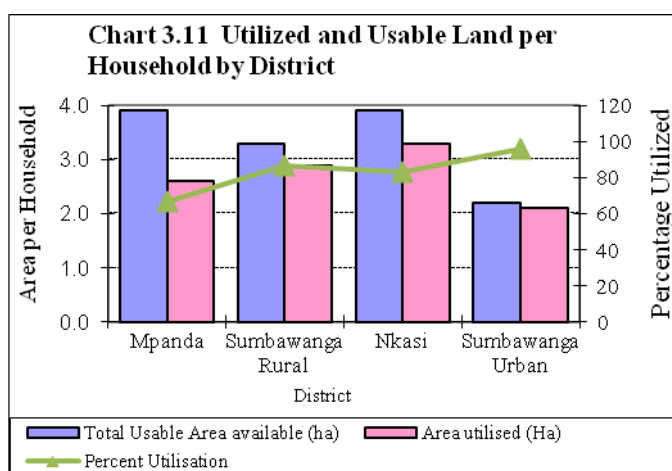
*Land available* refers to the area of land that has been allocated to smallholders through customary law, official title or other forms of ownership. Land available does NOT mean the total area of land that is designated as agriculture land in the country; however it is the land that is available to 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).

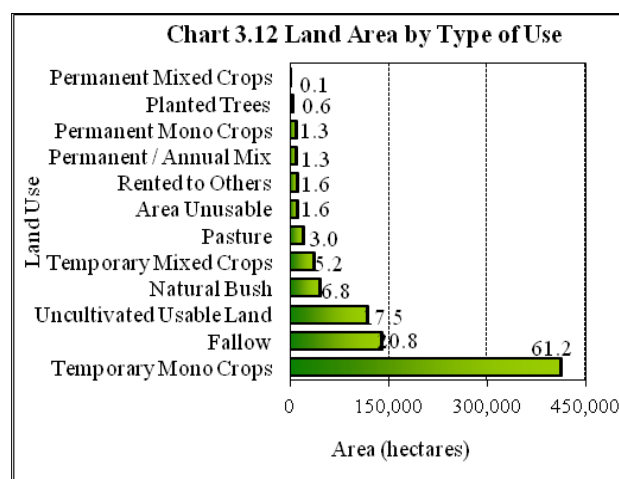


Big differences in land area utilised per household exist between districts between 3.3 and 2.1 with Nkasi utilizing 3.3 ha per household followed by Sumbawanga rural district which was (2.9 ha) of land utilized per household, Mpanda (2.6 ha) and the smallest land area utilised per household was found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

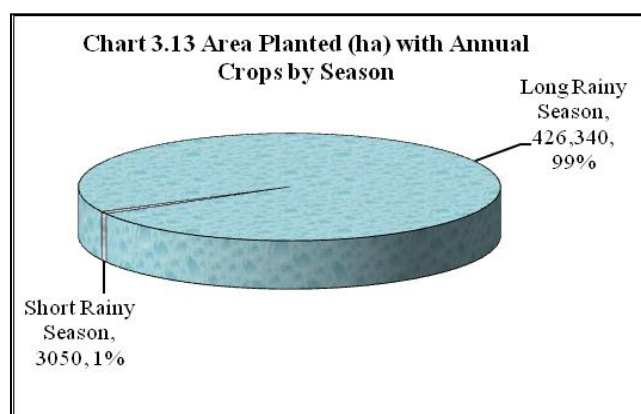


### 3.3 Annual Crop and Vegetable Production

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.

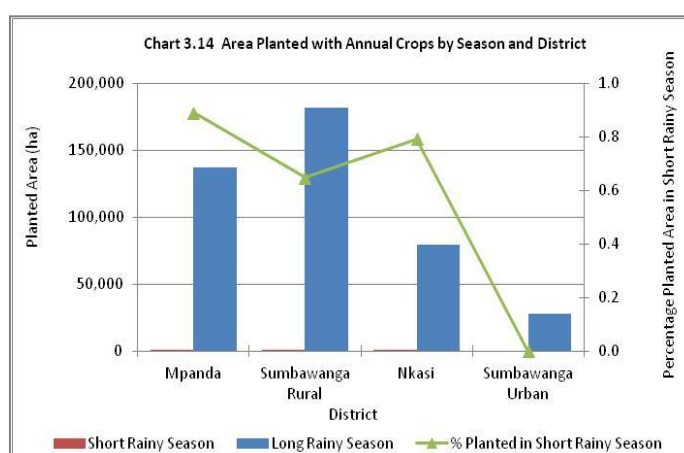
#### 3.3.1 Area Planted

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).



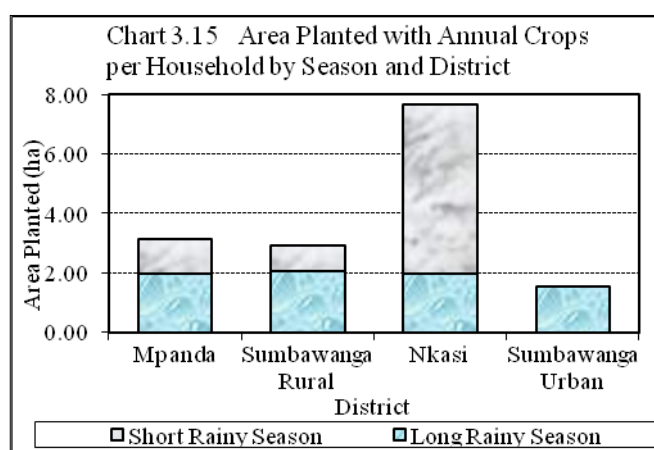
The districts with dry season cultivation were Nkasi with the average planted area of 5.65 ha per planting household followed by Mpanda (1.16 ha) and Sumbawanga rural (0.877 ha). The district with the largest area planted per household in wet season was Sumbawanga Rural (2.044 ha) followed by Mpanda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

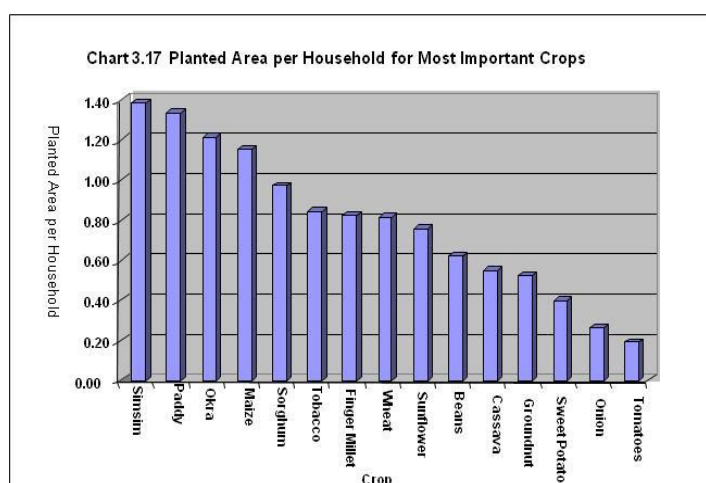
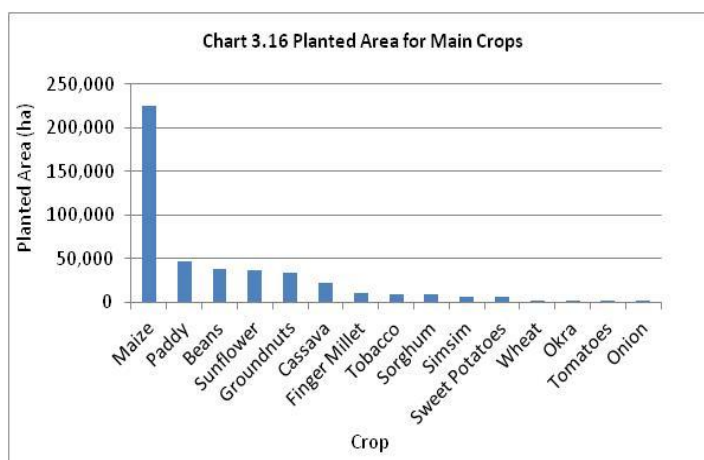


### Analysis of the Most Important Crops

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.

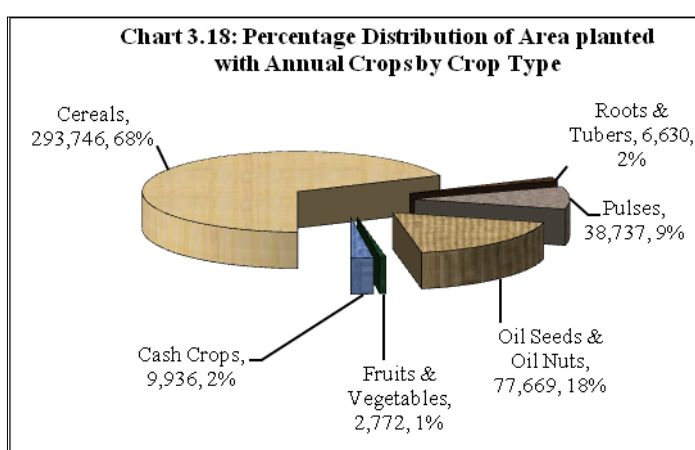
### 3.3.2 Crop Importance

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%).



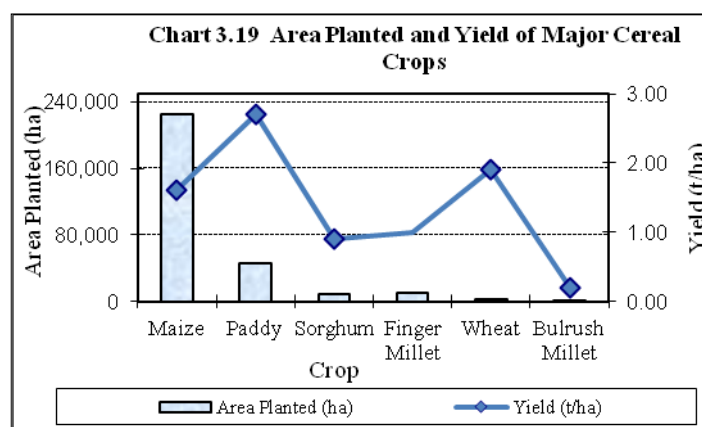


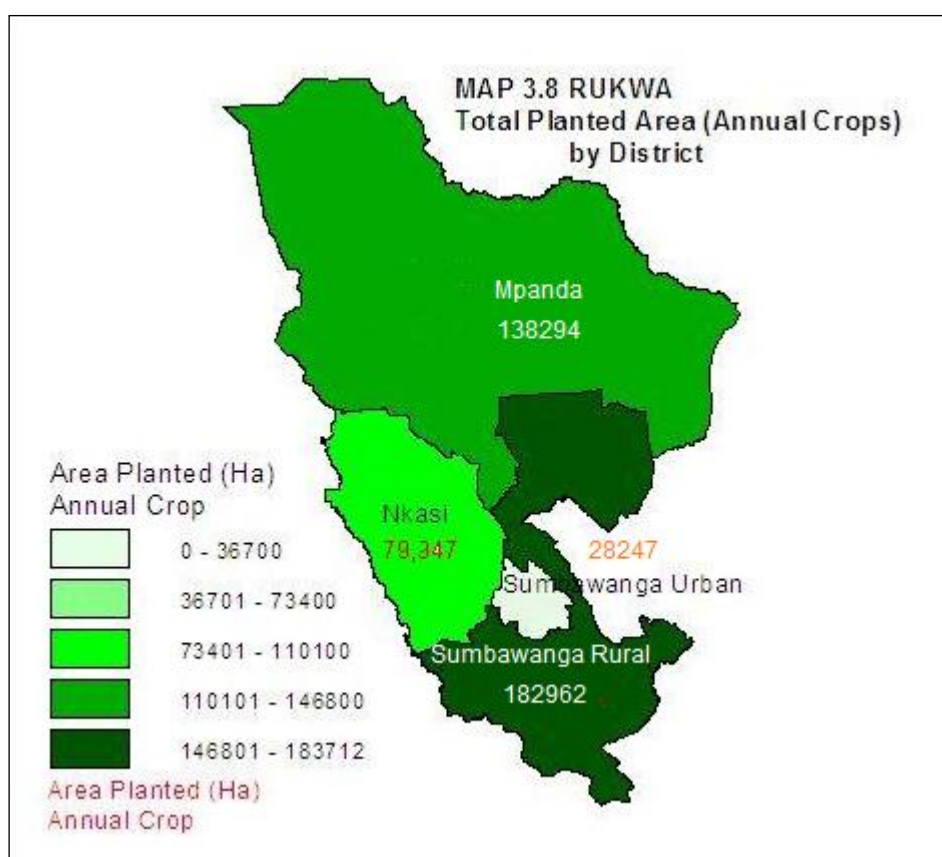
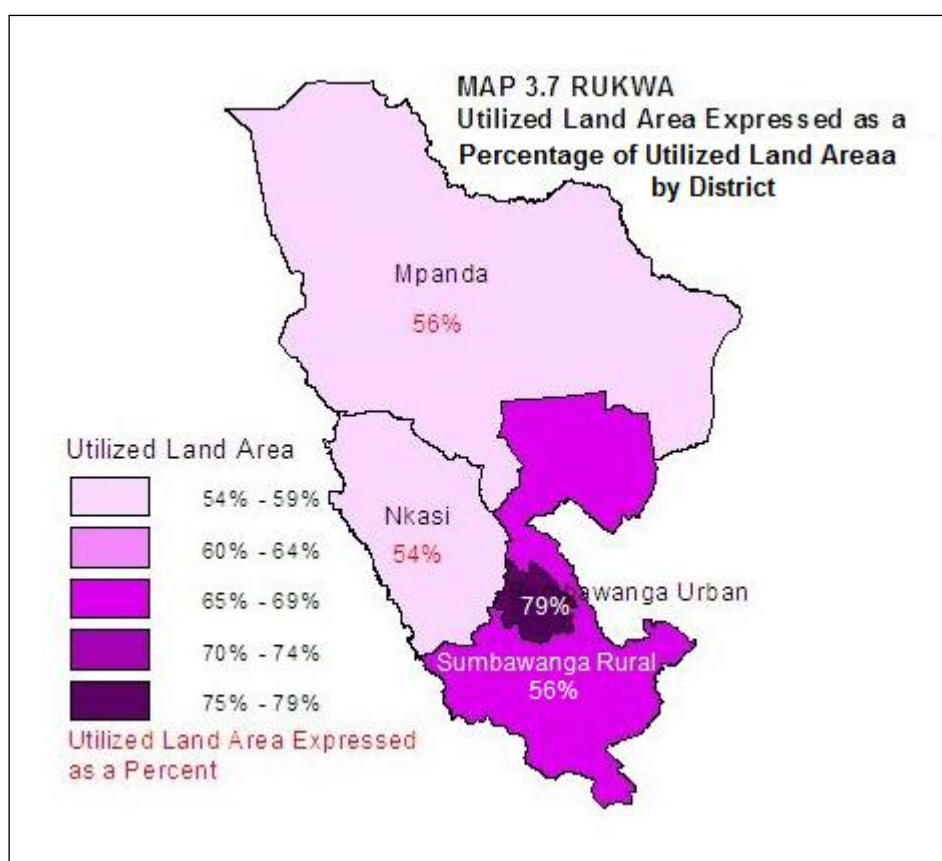
Cereals, oil seeds and oil nuts and pulses are the dominant crops in both seasons and other crop types are of minor importance in comparison. There is little difference in the proportions of the different crop types grown between seasons and because dry season production was very small compared to wet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

### 3.3.4 Cereal Crop Production

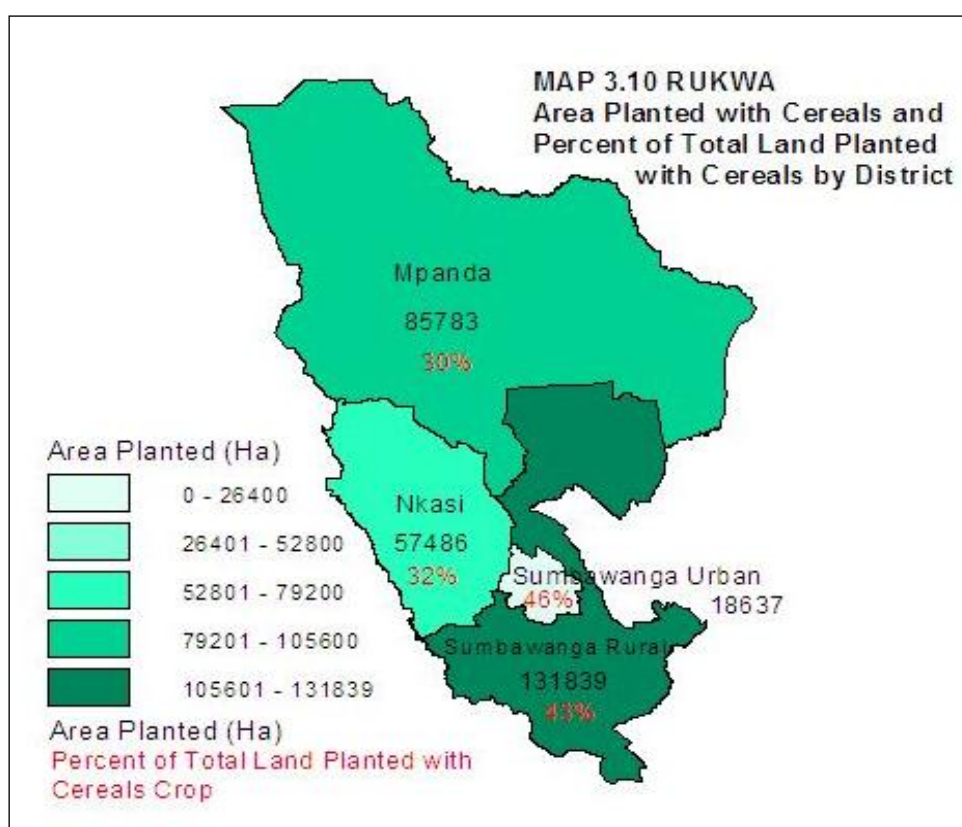
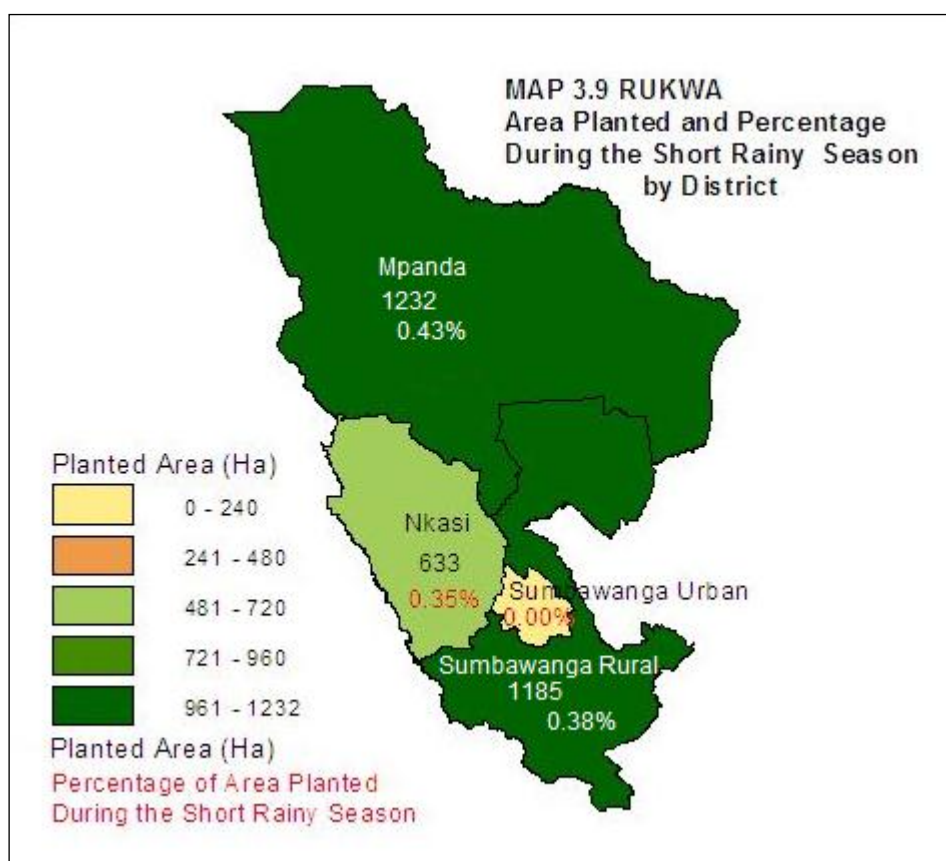
The total production of cereals was 500,874 tonnes. Maize was the dominant cereal crop with the production of 351,013 tonnes which was 70 percent of total cereal crops produced, followed by paddy (25.4%), finger millet (2.1%), sorghum (1.6%), wheat (0.75%) and bulrush millet (0%). The area planted with 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).



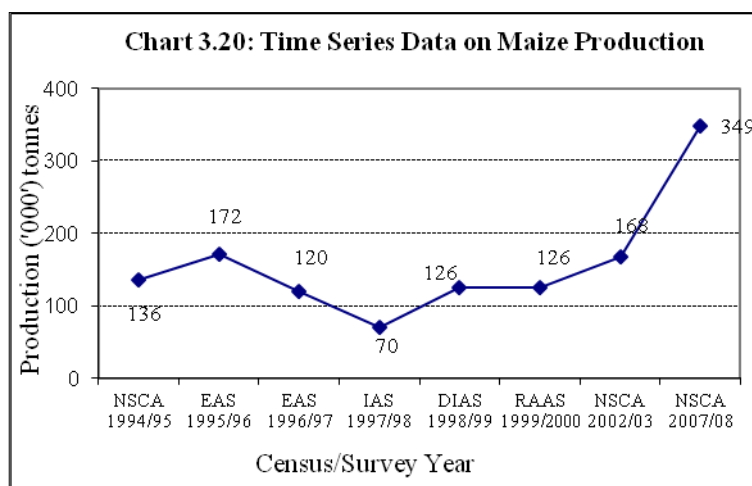




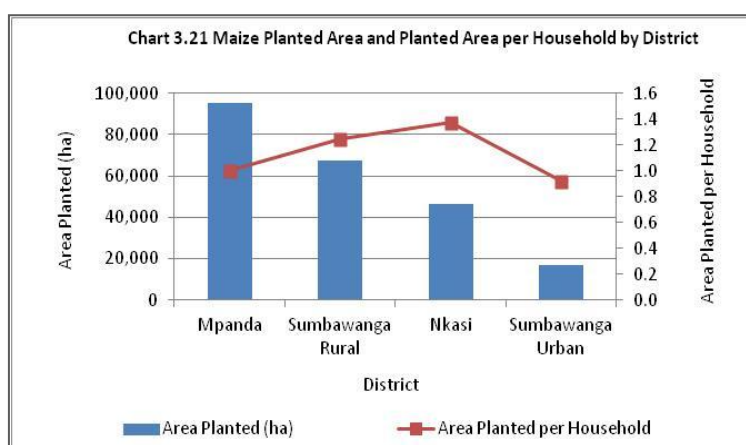


### 3.3.4.1 Maize

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.



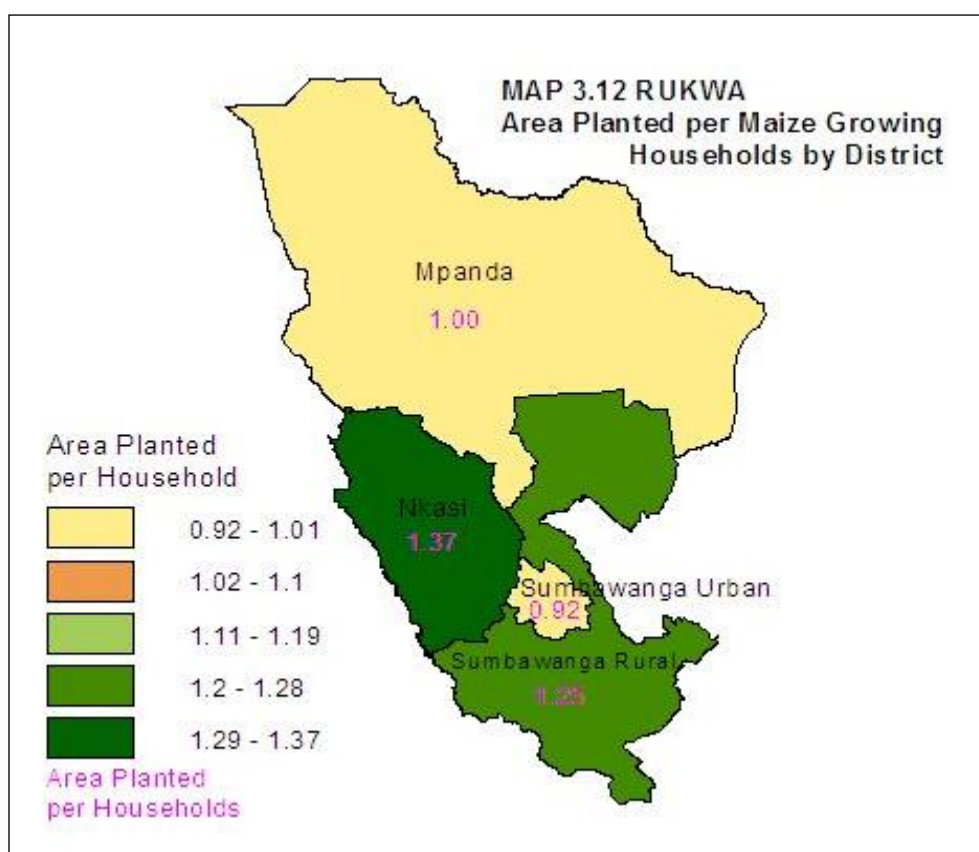
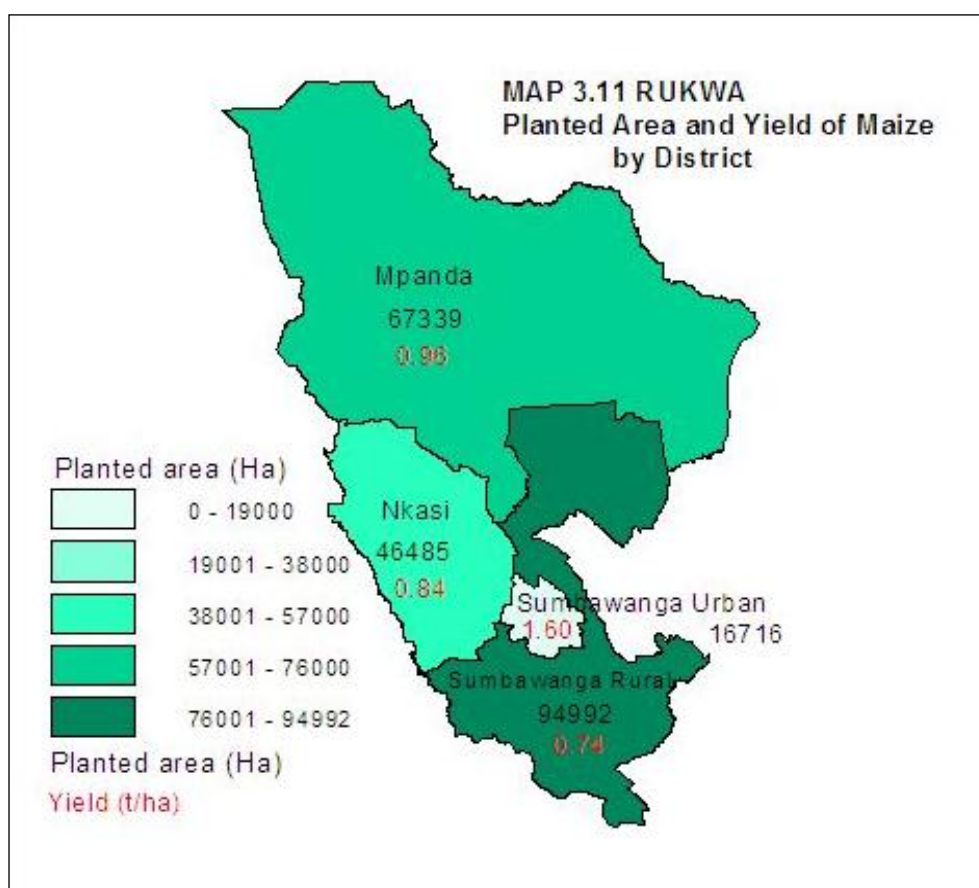
The average area planted with maize per household was 1.15 hectares; however it was 1.0 hectares in Mpanda district, 1.25 hectares in Sumbawanga Rural, 1.37 hectares in Nkasi and 0.92 hectares in Sumbawanga Urban. In both seasons, Sumbawanga Rural district had the largest area for maize (94,992 ha) followed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

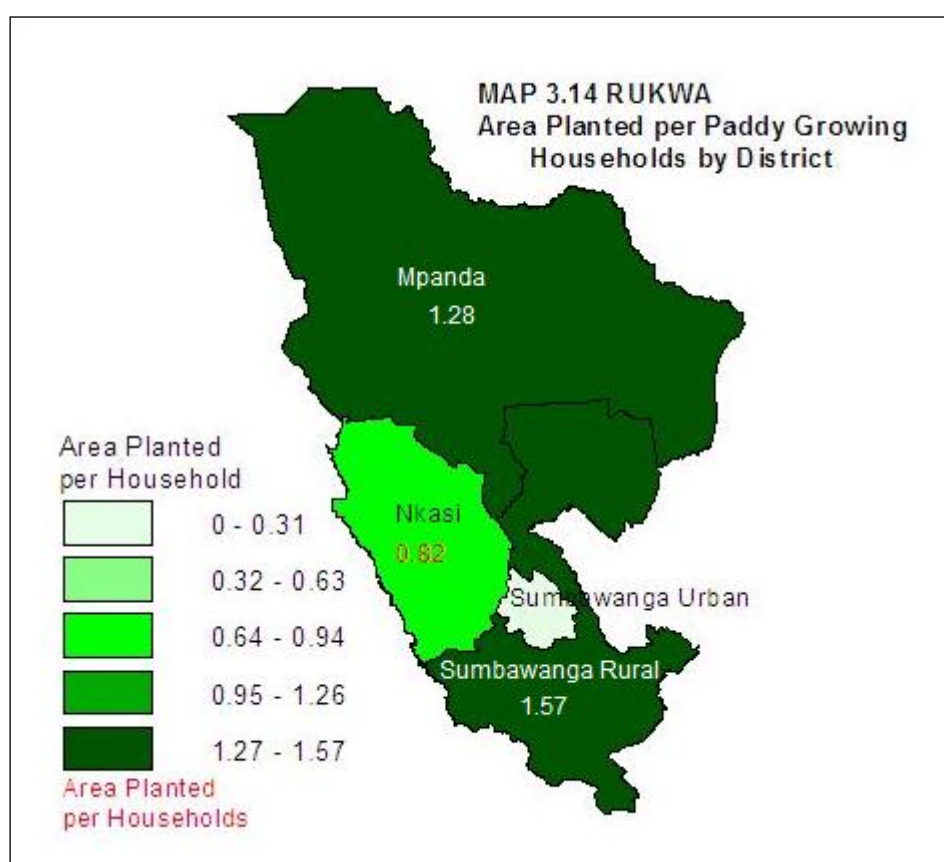
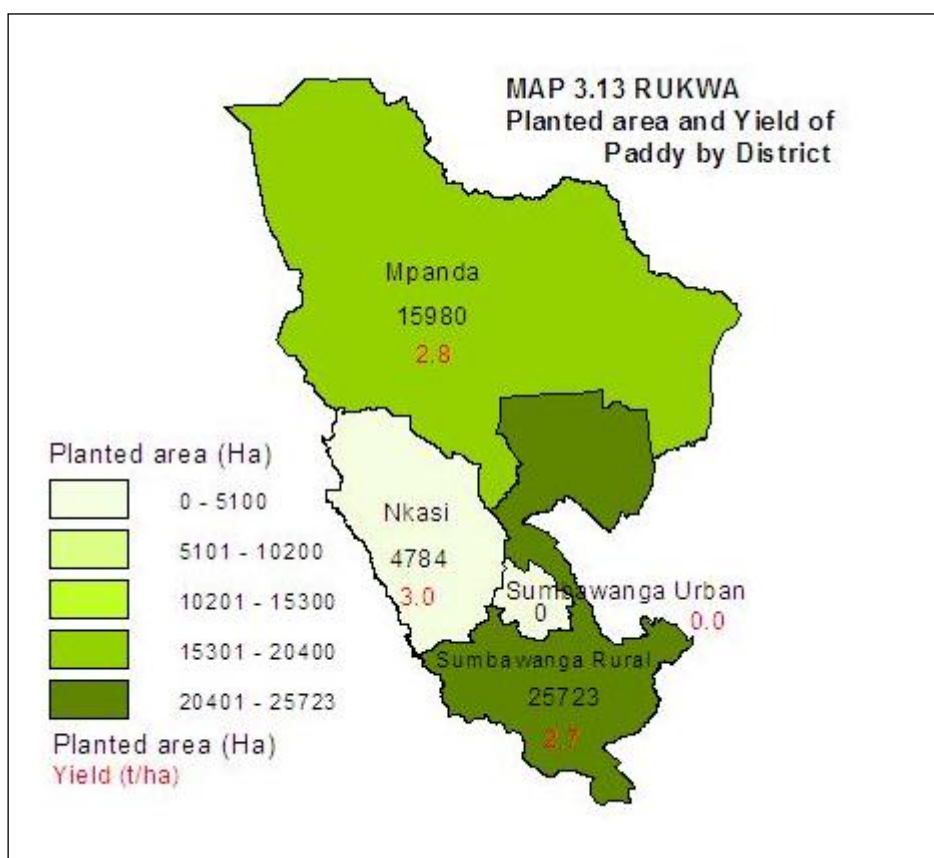


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#### **3.3.4.2 Paddy**

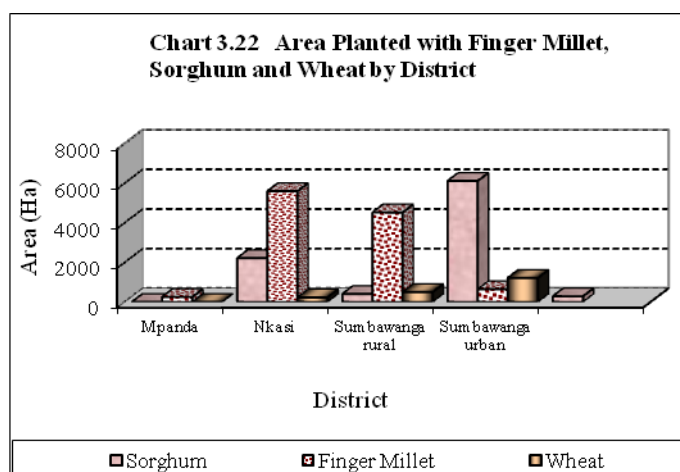
Paddy is the second most important cereal crop in the region in terms of planted area. The number of households that grew paddy in Rukwa region during the wet season was 34,366. This represented 15.2 percent of the total annual crop growing households in Rukwa region. The total production of paddy during 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.





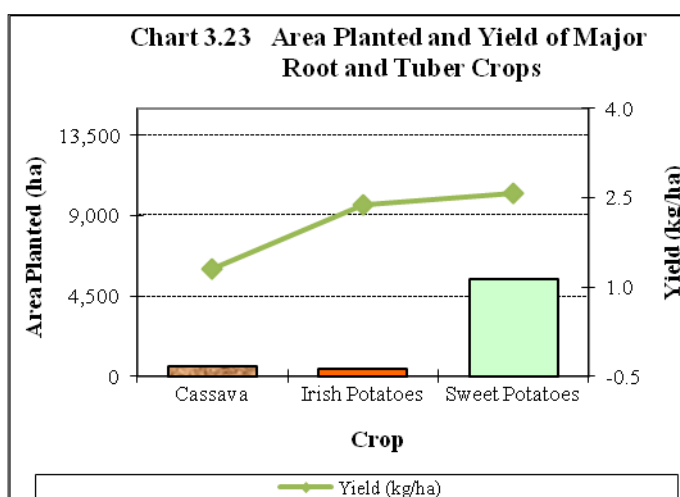
### 3.3.4.3 Other Cereals

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
<b>Total</b>	<b>51,303</b>	<b>28,521</b>	<b>65,178</b>	<b>2.29</b>

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 with cassava 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).

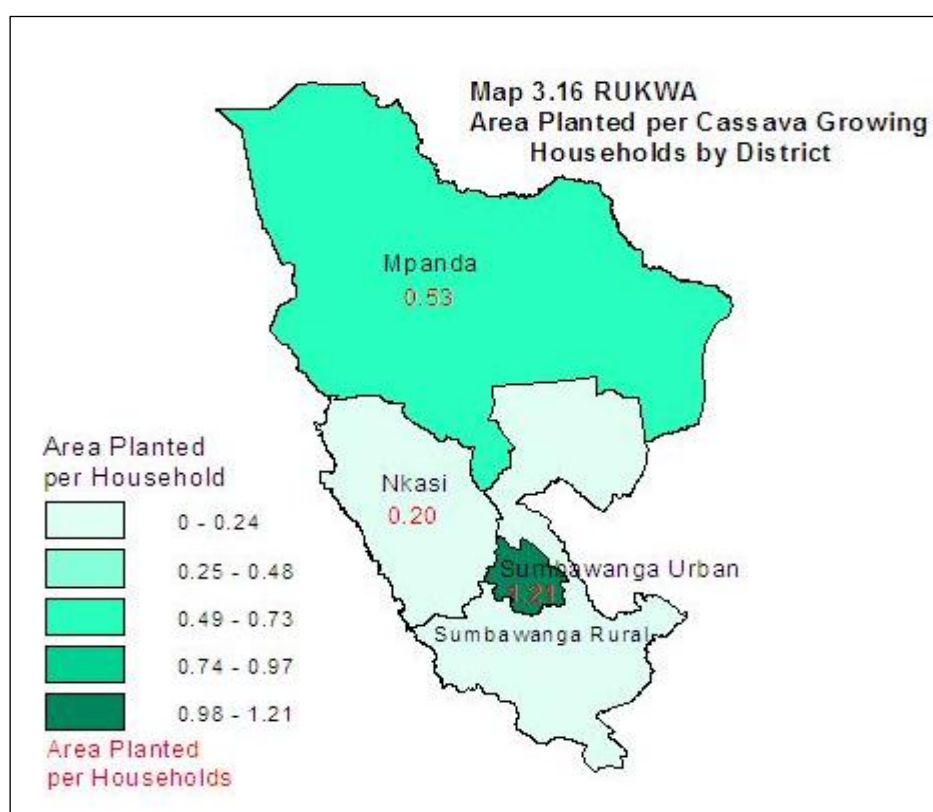
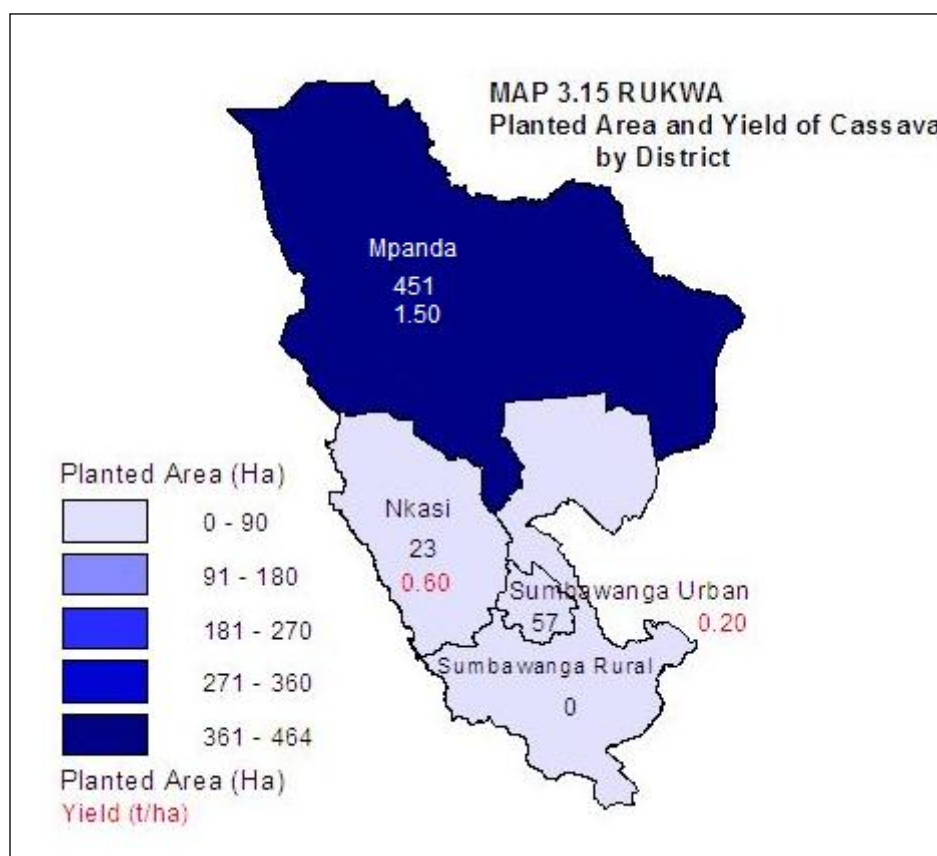
The area planted with sweet potatoes accounted for one percent of the total area planted with annual crops. Mpanda district had the largest planted area with sweet potatoes (3,785 ha, 69.6% of the total area planted with sweet potatoes in the region) followed by Nkasi (837 ha, 15.4%), Sumbawanga Rural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





### 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.

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).

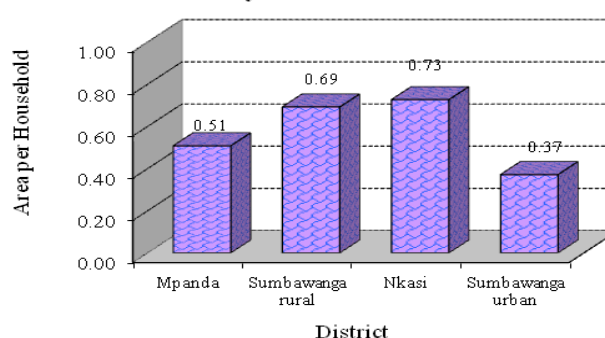
**Table 3.4 Area, Production and Yield of Major Pulses**

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

#### 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.

**Chart 3.24 Area Planted per Bean Growing Household by District**



### 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

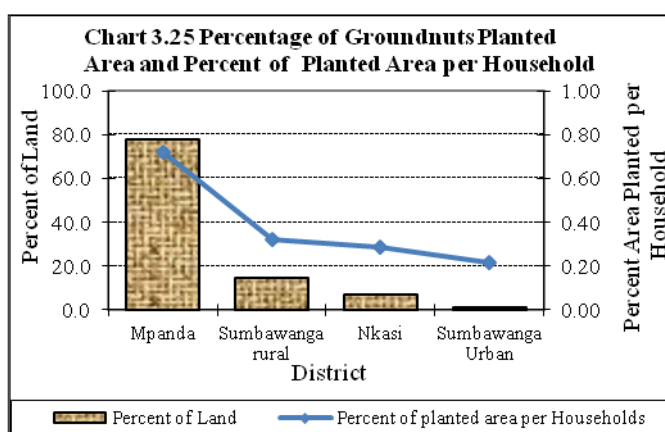
The production of groundnuts was 30,042 tonnes which accounted for 49.52 percent of the total production of oil seeds followed by sunflower (45.21%) and simsim (5.27%).

#### 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 planted 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

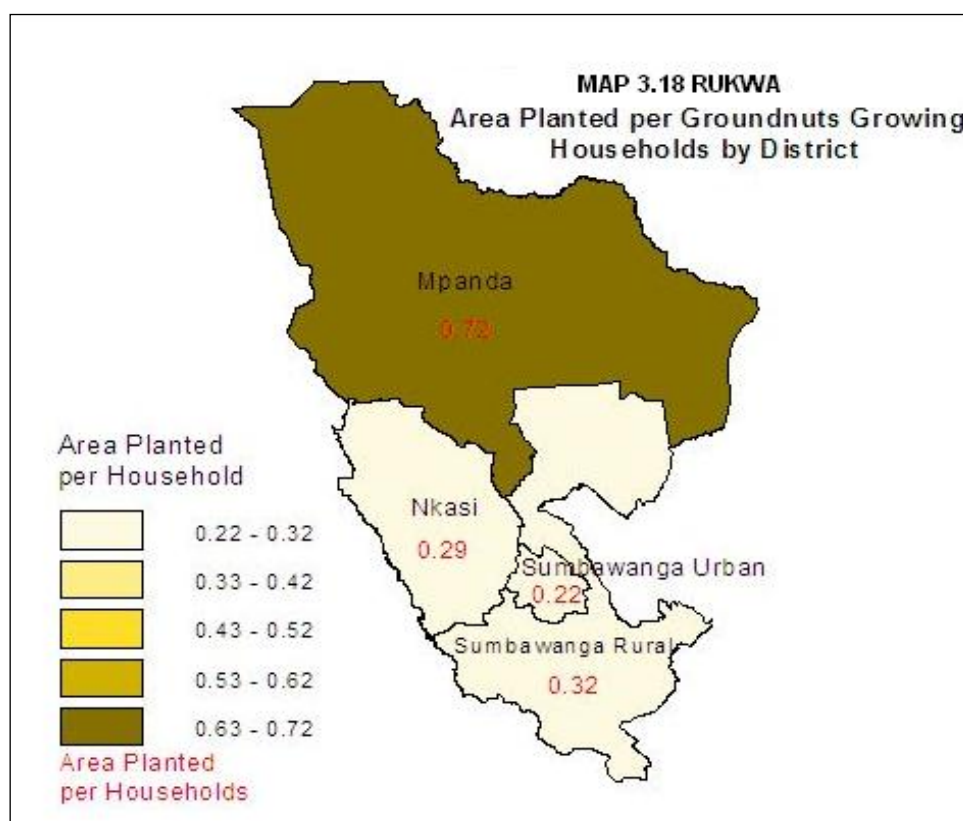
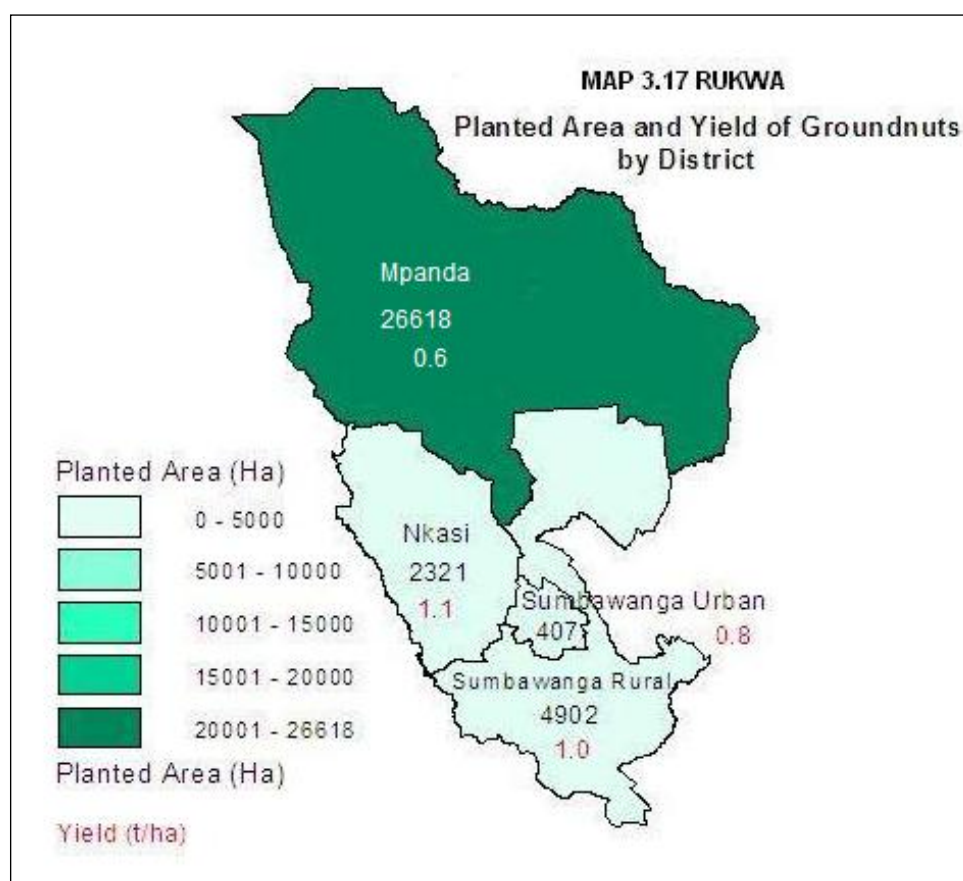
Number of households growing groundnuts in Rukwa region was 62,283. The total production of groundnuts in the region was 30,042 tonnes from a planted area of 34,248 hectares resulting in a yield of 0.88 t/ha. Area planted had been increased from 1,292 hectares in 1994/95 to 16,570 hectares in 2002/03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



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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



### 3.3.8 Fruit and Vegetables

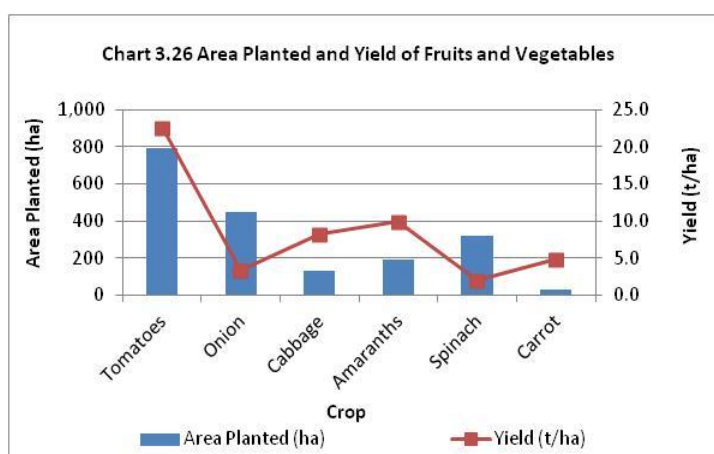
The collection of fruit and vegetables production data was difficult due to the small quantities produced per household. Most of the data presented here give the production of smallholders who grew these crops as cash crops and not merely for household consumption.

**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

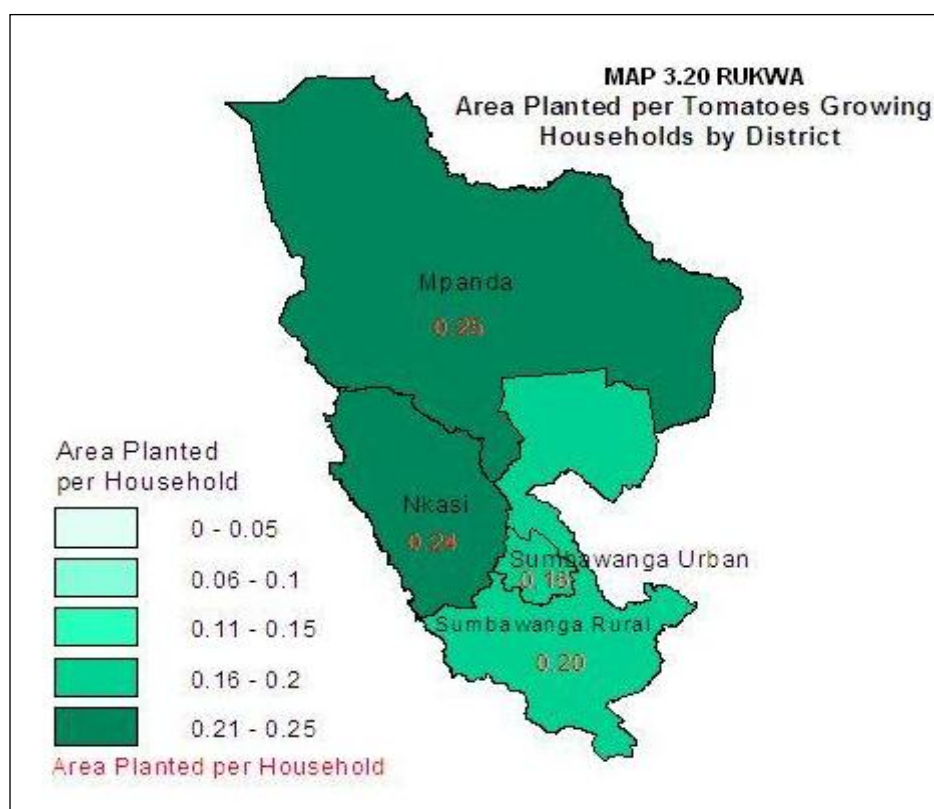
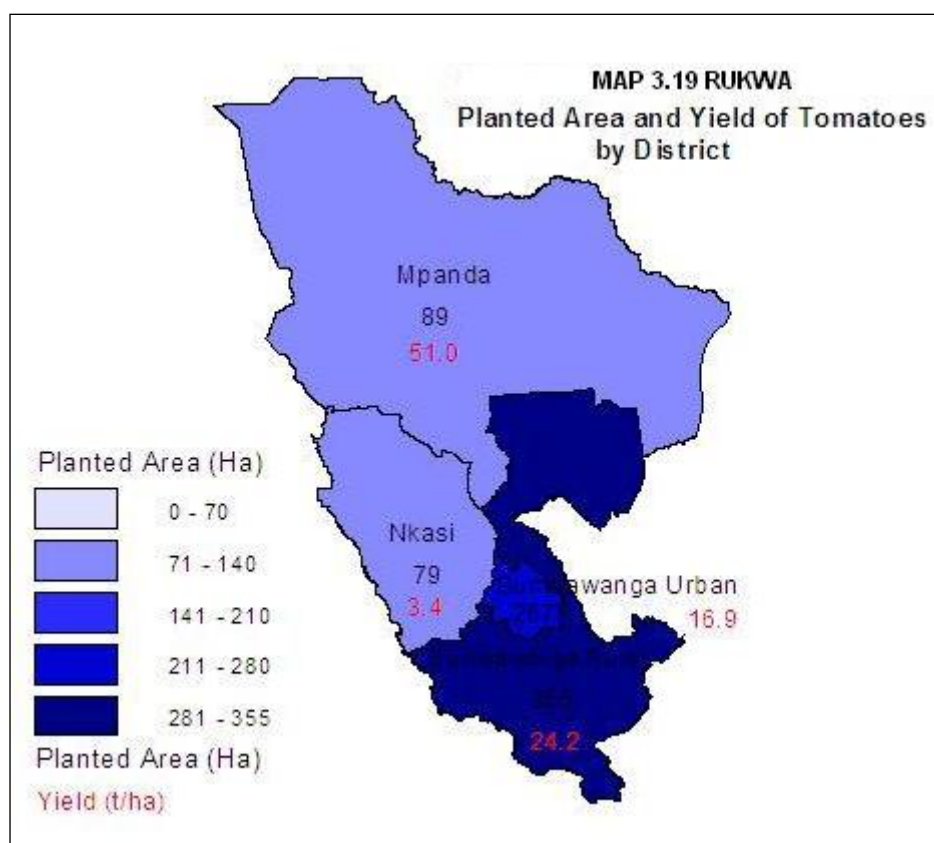
### **3.3.8.2 Onions**

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.

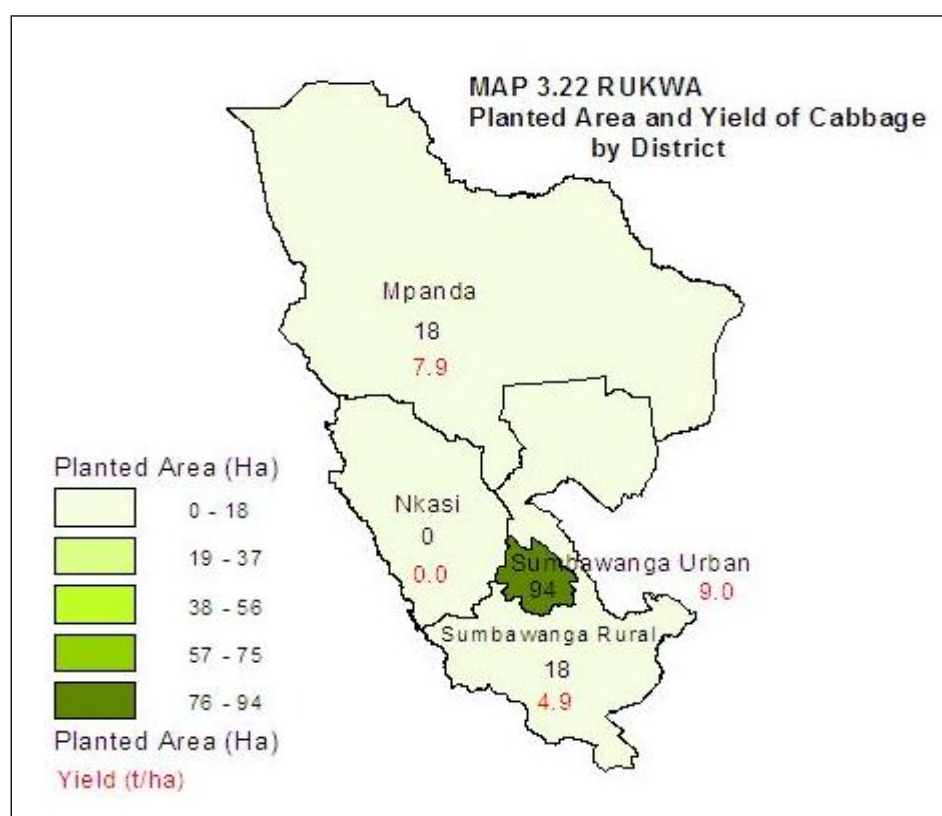
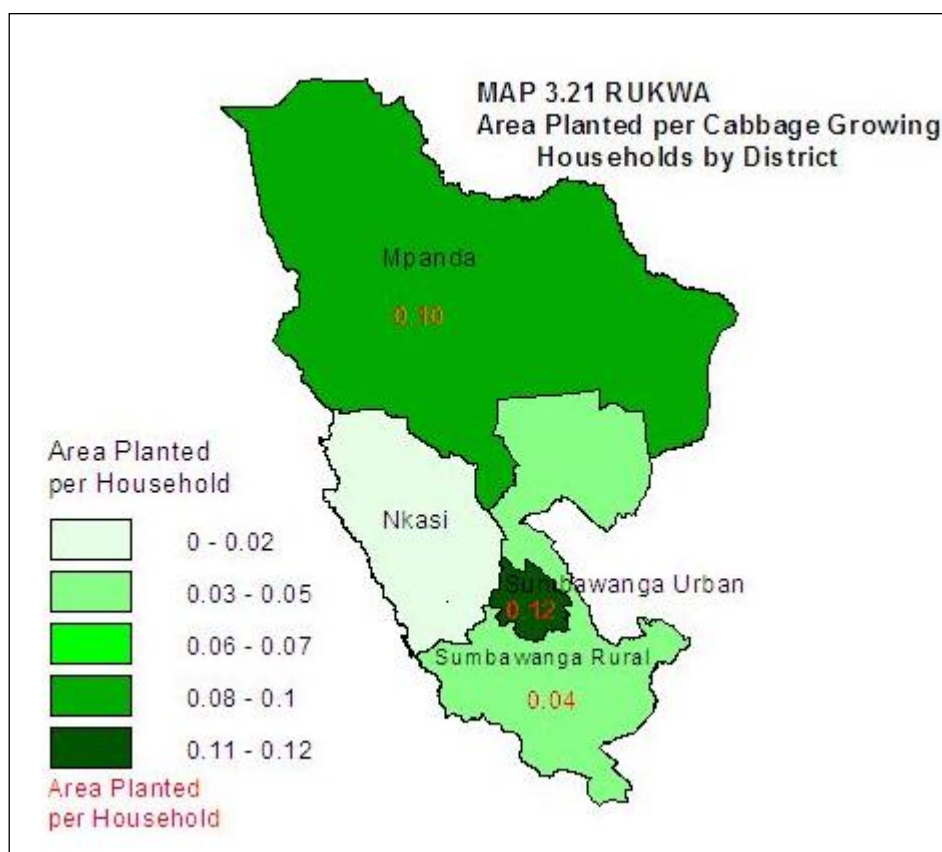
### **3.3.8.3 Cabbage**

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.







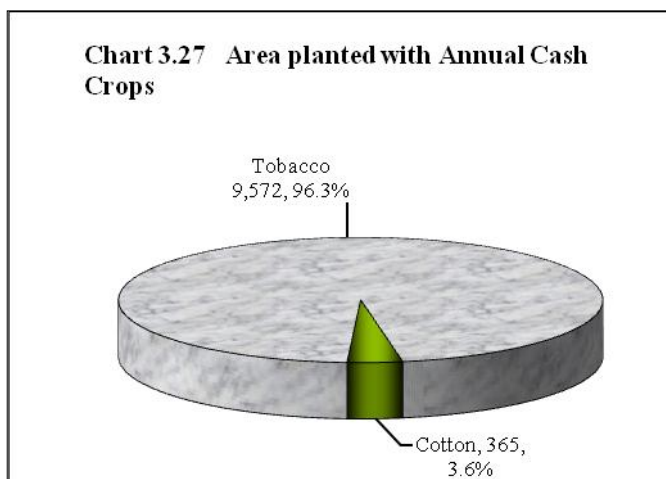


### 3.3.9 Other Annual Crop Production

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%).

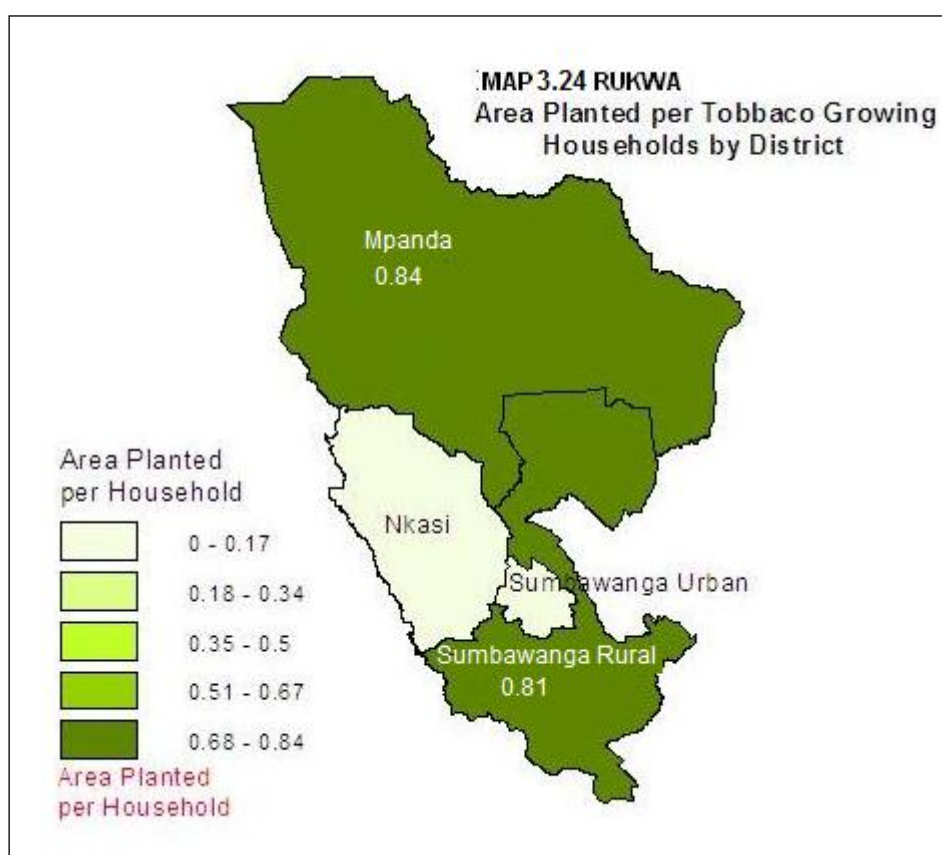
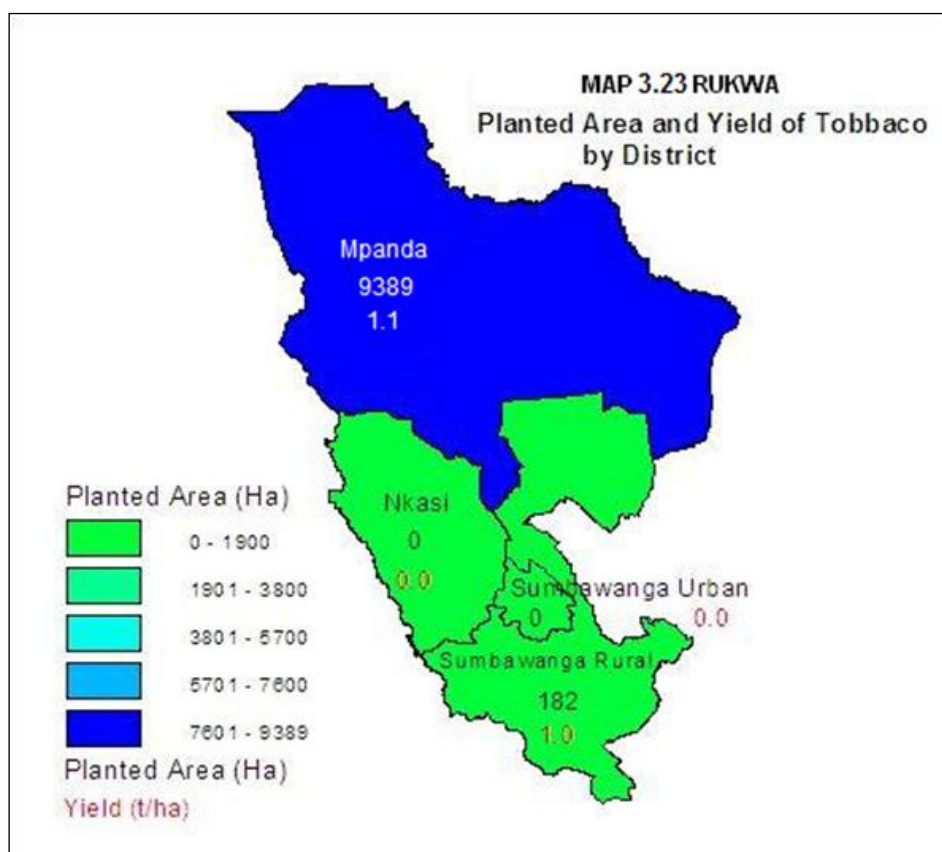
#### 3.3.9.1 Tobacco

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)



#### 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.

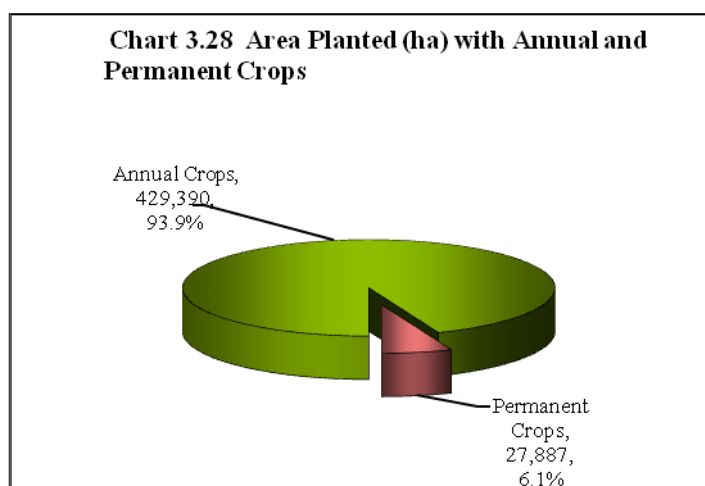


### 3.4 Permanent Crops

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

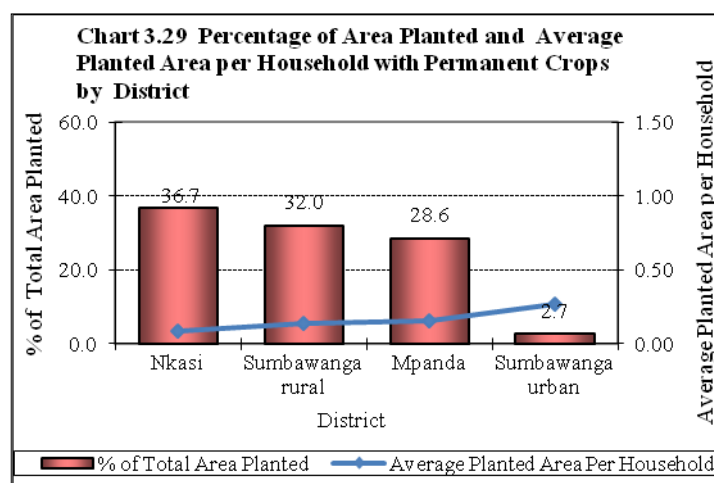
for permanent crops, therefore no time series analysis is made in this section. The area of smallholders planted with permanent crops was 27,887 hectares (6.1% of the area planted with both annual and permanent crops in the region). However, the area planted with annual crops is not the actual



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)

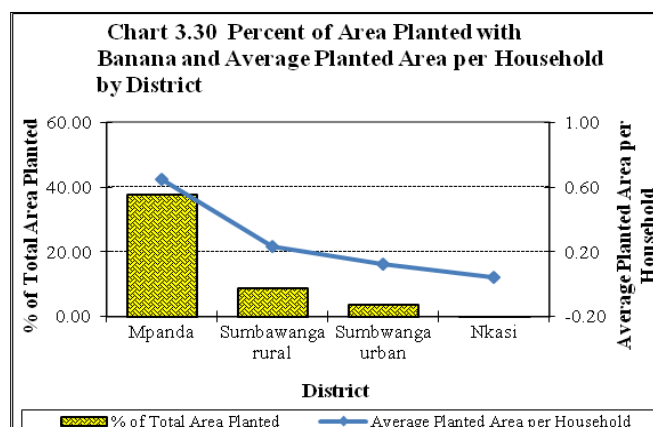
### 3.4.1 Sugarcane

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).

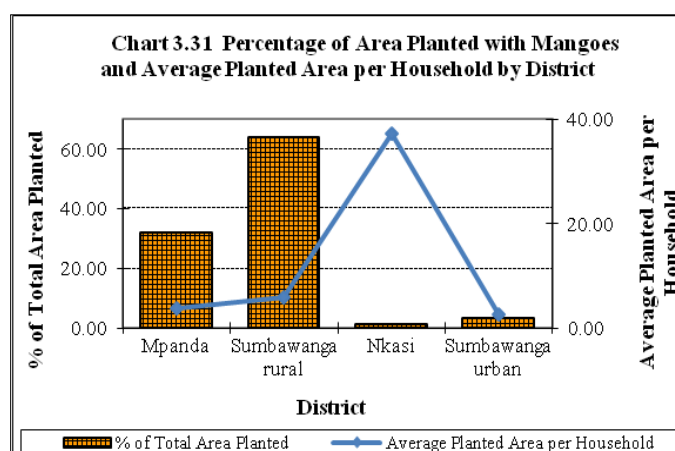
### 3.4.2 Banana

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).

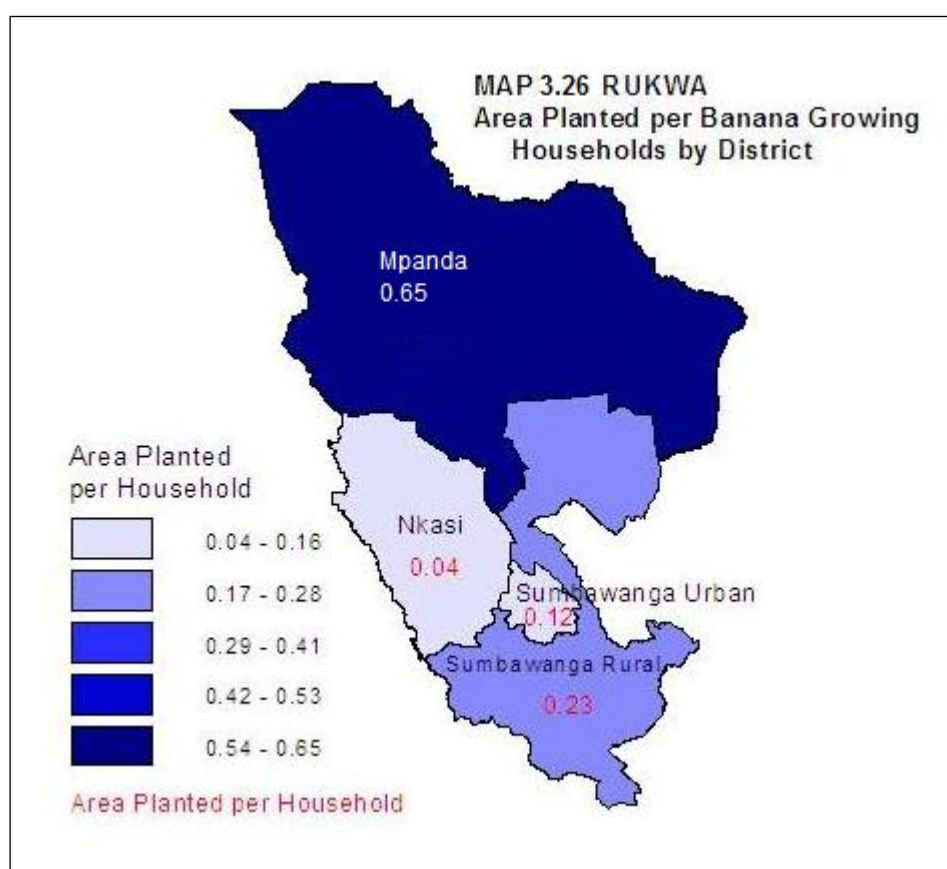
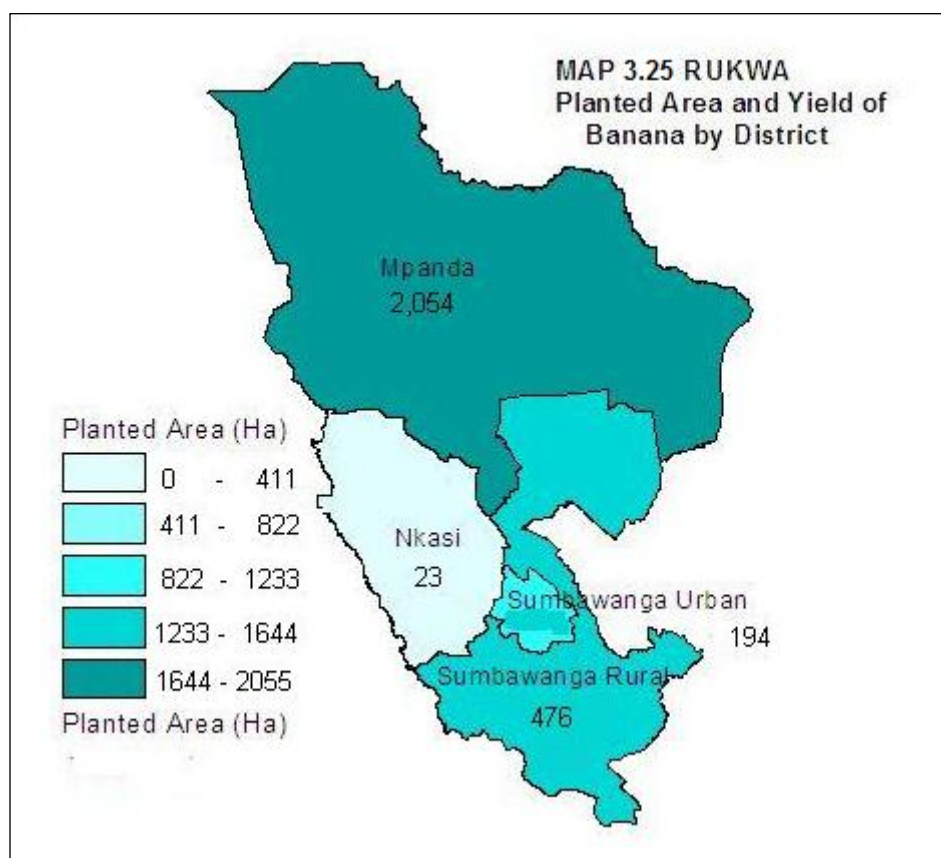


### 3.4.3 Mangoes

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 mango 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).





### 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%),

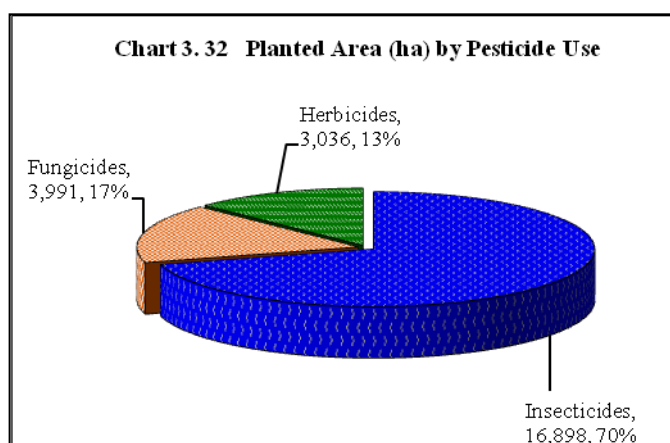
#### 3.5.2 Inorganic Fertiliser Use

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



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%).

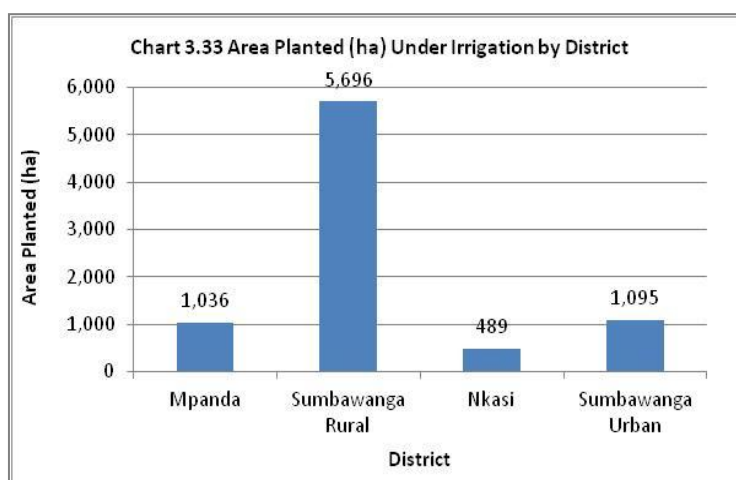
### 3.6 Irrigation

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.

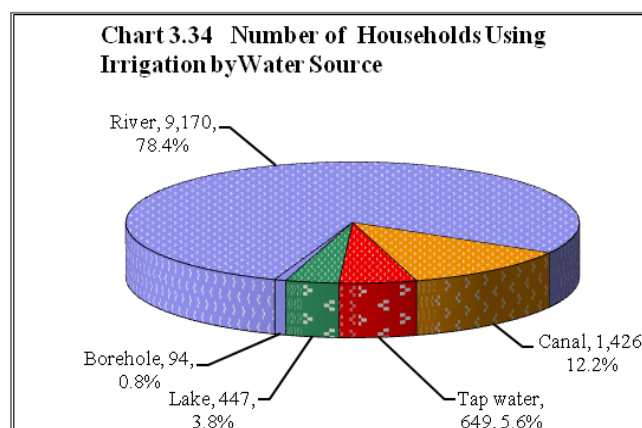
The district with the largest planted area under irrigation for annual crops was Sumbawanga Rural (5,696 ha, 68.5% of the total irrigated area under annual crops in the region). Sumbawanga Urban, (1,095, 13.2%), Mpanda (1,036 ha, 12.5%) and Nkasi (489, 5.9%), (Chart 3.33).



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.

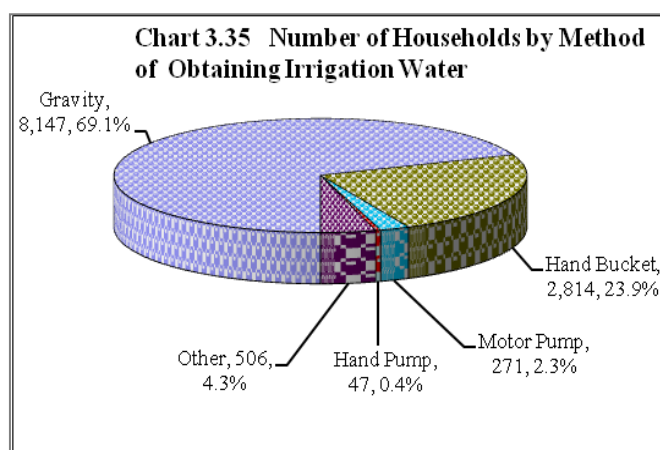
### 3.6.2 Sources of Water Used for Irrigation

The main source of water used for irrigation was from rivers (78.4% of households with irrigation). This was followed by canal (12.2%), tap 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).



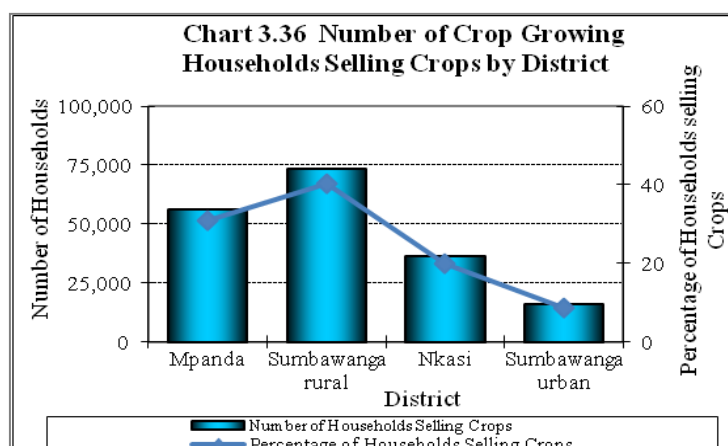
Gravity was used by most households with irrigation in Sumbawanga Rural (69%), followed by Sumbawanga Urban (16.7%), Mpanda (8.6%) and Nkasi (5.4%). Hand bucket was more common in Sumbawanga urban with 43.5 percent of households using the method to obtain water for irrigation, followed by Sumbawanga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

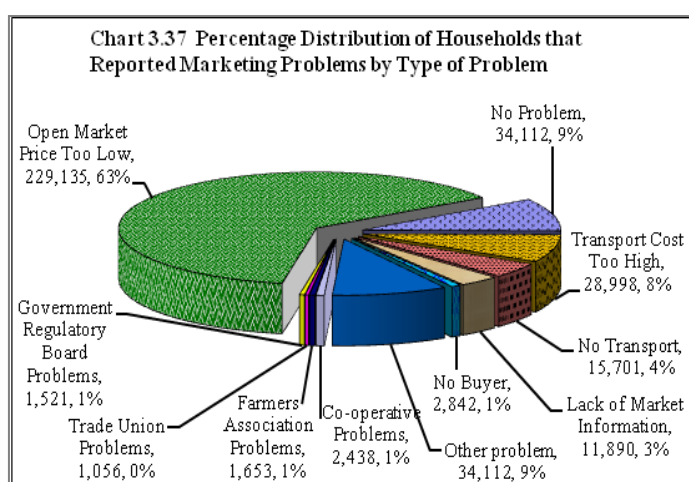
#### 3.7.1 Crop Marketing

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

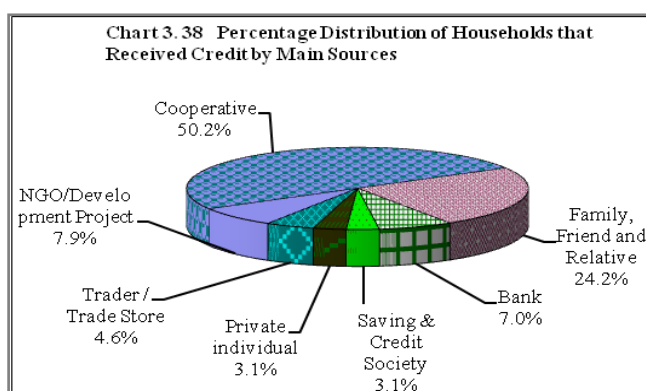
#### 3.8.1 Access to Agricultural Credit

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 credit followed 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%)

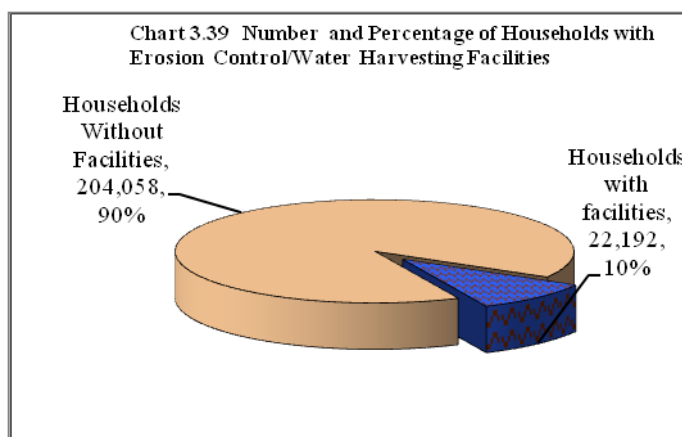
## **3.10 Improved Seeds**

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

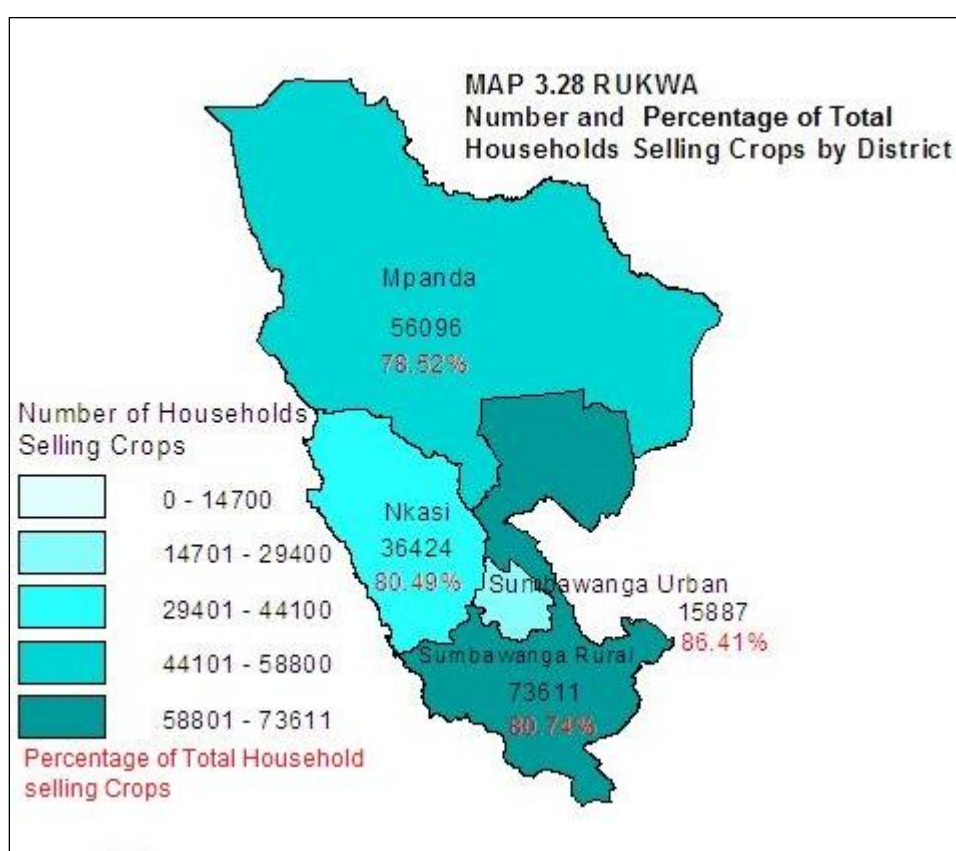
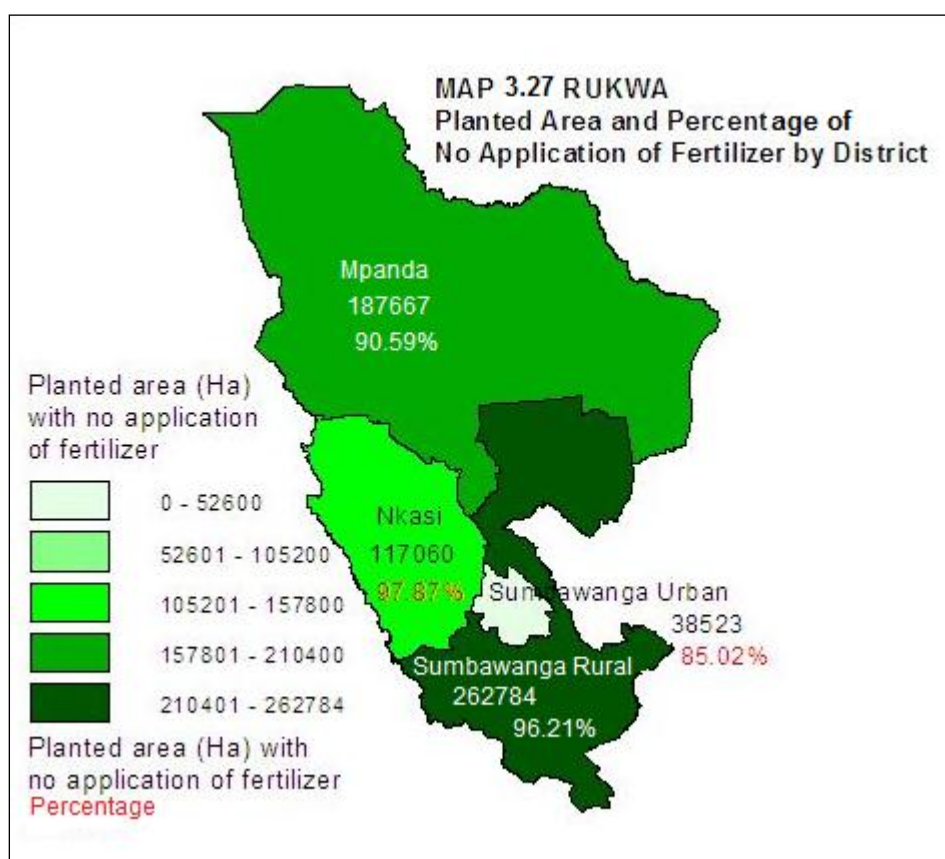


percent of the total number of agricultural households in the region (Chart 3.39).

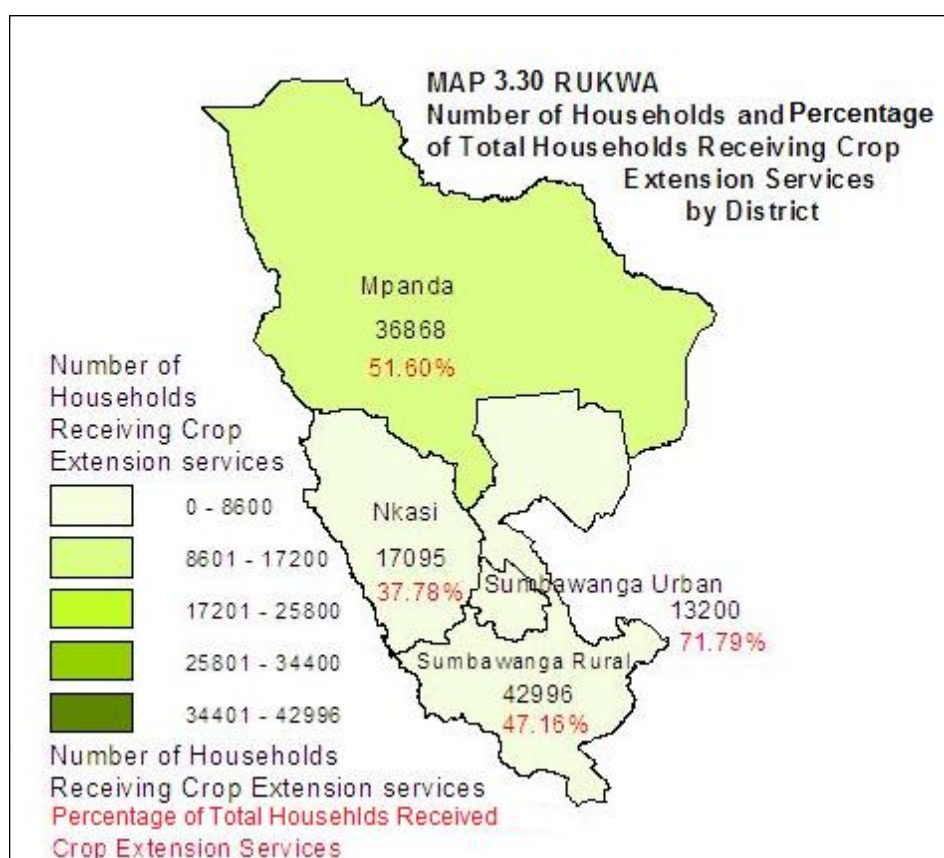
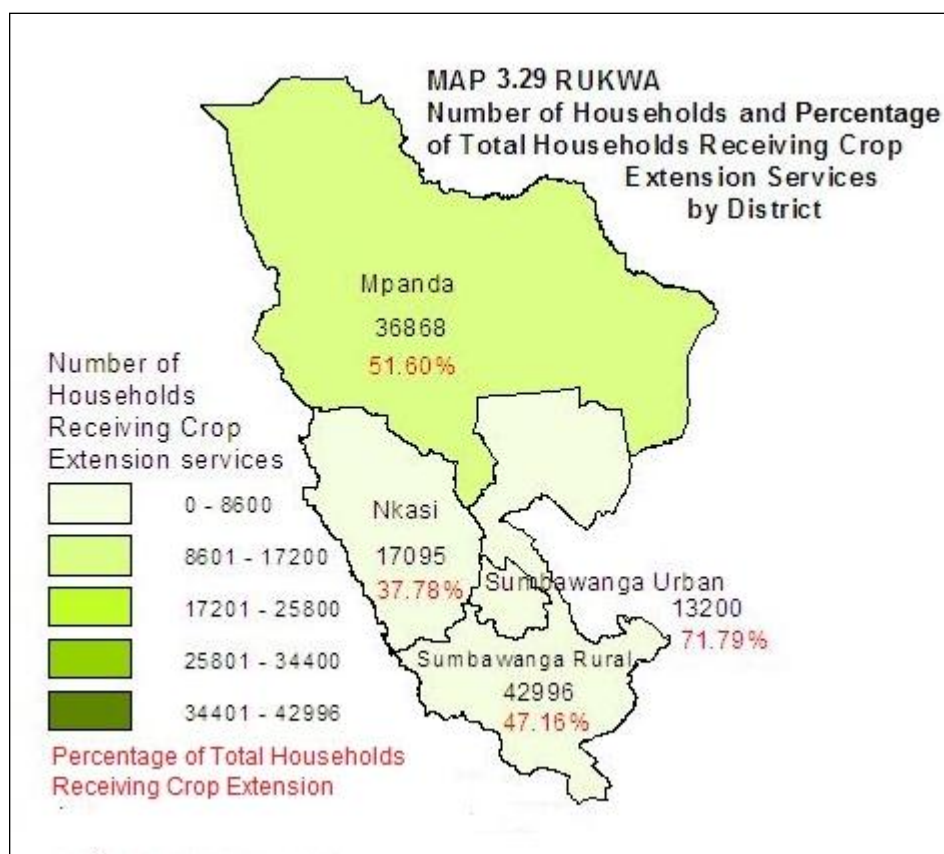
The proportion of households with soil erosion control and water harvesting facilities was highest in Sumbawanga Rural district (48.7%) followed by Nkasi (18.6%), Sumbawanga Urban (16.8%) and Mpanda (15.9%).

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.









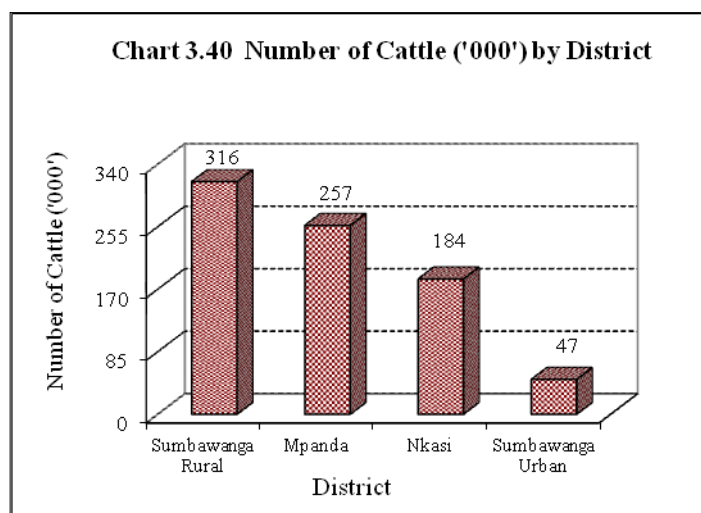
### 3.12 LIVESTOCK RESULTS

#### 3.12.1 Cattle Production

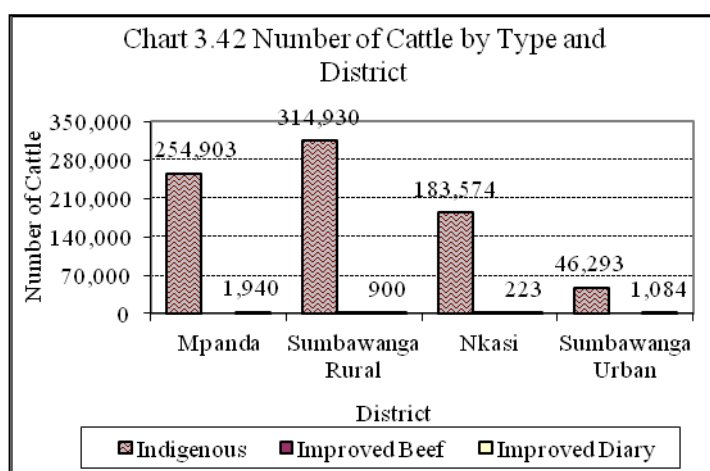
The total number of cattle in the region was 804,411. Cattle were the most dominant livestock type in the region followed by goats, sheep and pigs. The region had 3.8 percent of the total cattle population on Tanzania Mainland.

##### 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

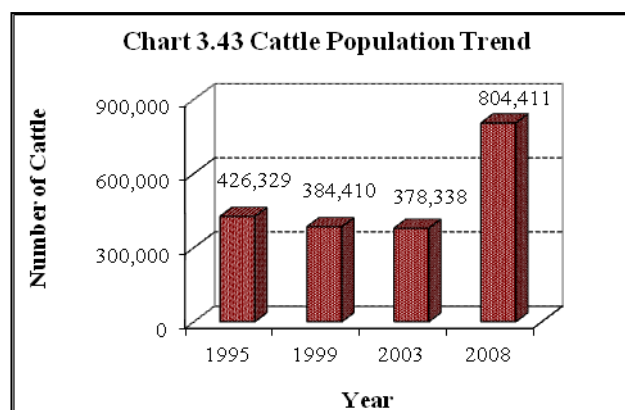
Sixty one percent of the cattle-rearing households had herds of size 1-5 cattle with an average of three cattle per household. Herd sizes of 6-30 accounted for about 33.7 percent of all cattle in the region. Only 5.1 percent of the cattle rearing households had herd sizes of 31- 100 cattle. About 93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

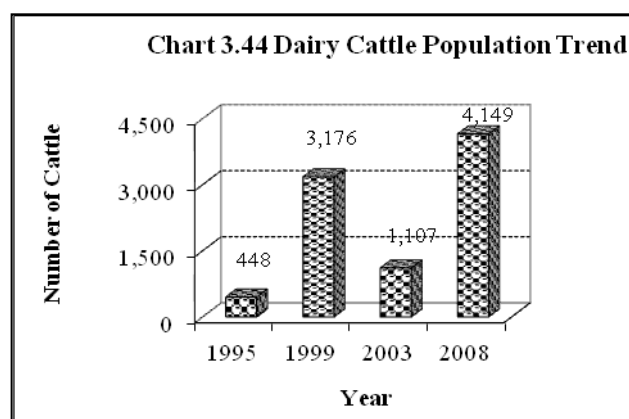
Cattle population in Rukwa decreased during the period of eight years from 426,329 in 1995 to 378,338 cattle in 2003. This trend depicts an overall annual negative growth rate of -1.48 percent.

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).



### 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

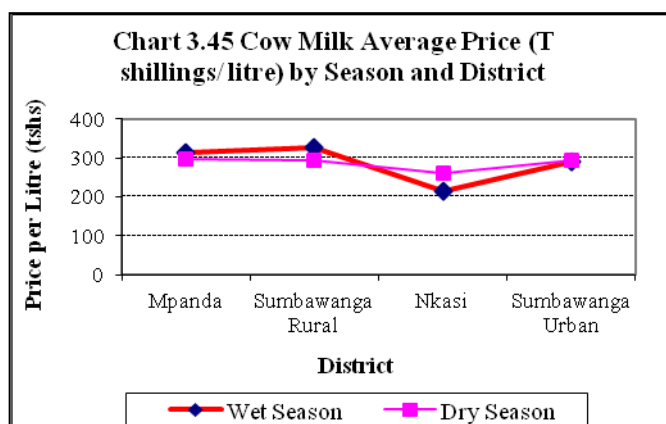
During 2007/08 the total milk production in the region was 64,207,135 litres. Out of this 42,121,482 litres (65% of the total milk produced in wet and dry seasons) were produced in wet season and only 22,085,653 litres (34.4%) were produced in the dry season. The total milk production for indigenous (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



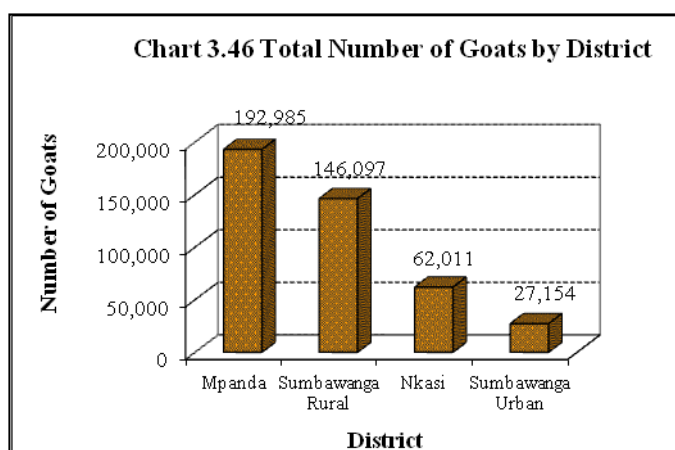
Tsh. 301 in dry season, whereby the minimum prices were Tsh 213 in the wet season and increased to Tsh.282 during the dry season. Highest prices were observed in Sumbawanga Rural where a litre of milk was sold at Tsh.326 during the wet season (Chart 3.45).

### 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

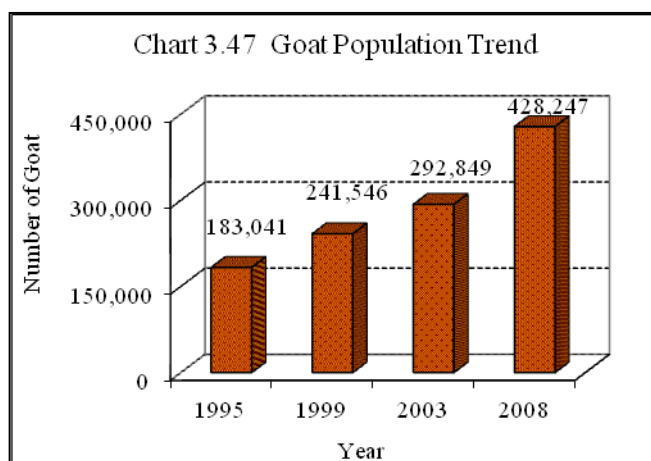
About 80.1percent of the goat-rearing households had flock size of 1-4 goats with an average of 2 goats per goat rearing household, while 97.7 percent of the total goat-rearing households had flock size of 1-14 goats and accounted for 83.5 percent of the total goats in the region resulting in an average 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 dairy 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).

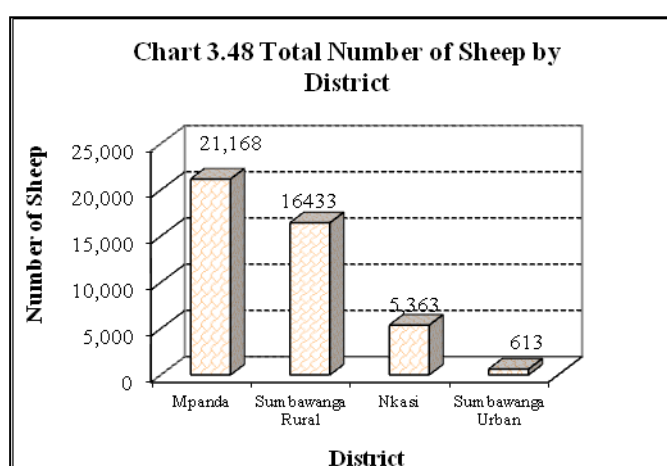


### 3.12.3 Sheep Production

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



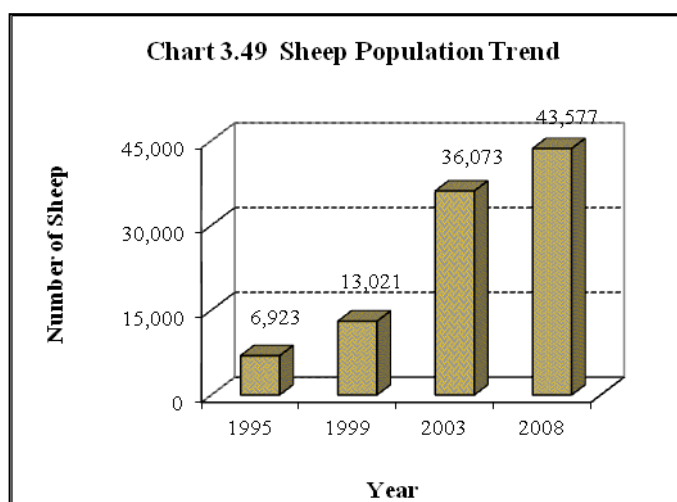
total sheep in Rukwa region) followed by Sumbawanga Rural (16,433 sheep, 38%) and Nkasi (5,363 sheep, 12%). Sumbawanga Urban district had the least number of sheep (613 sheep, 1%) (Chart 3.48)

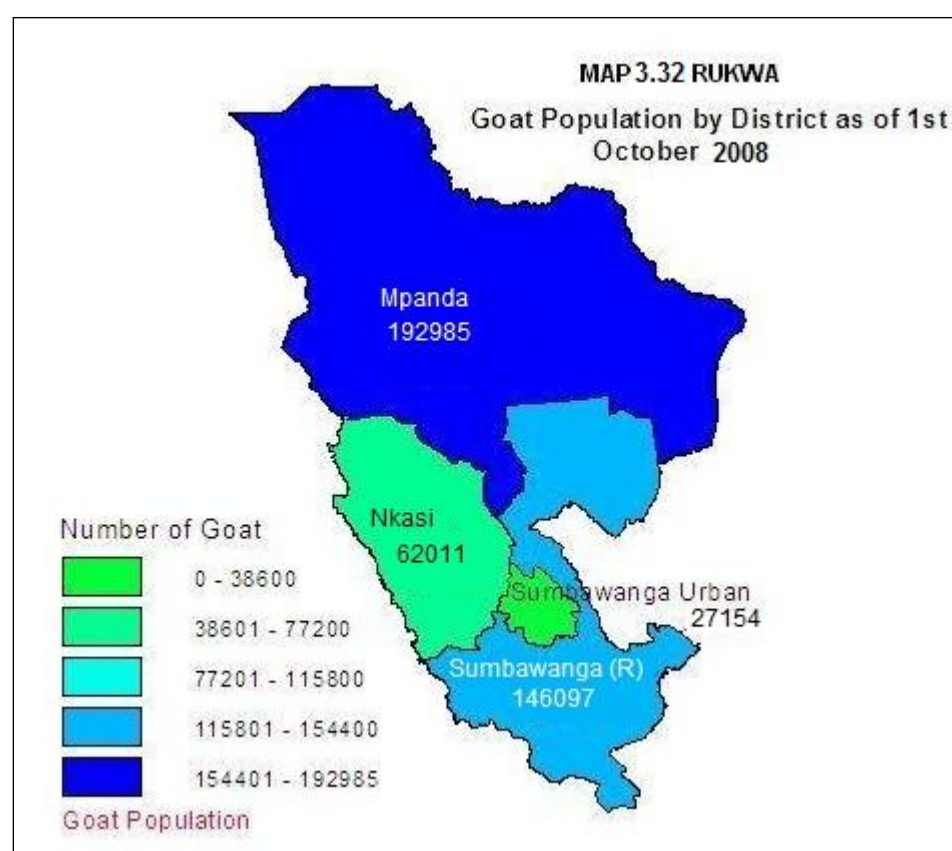
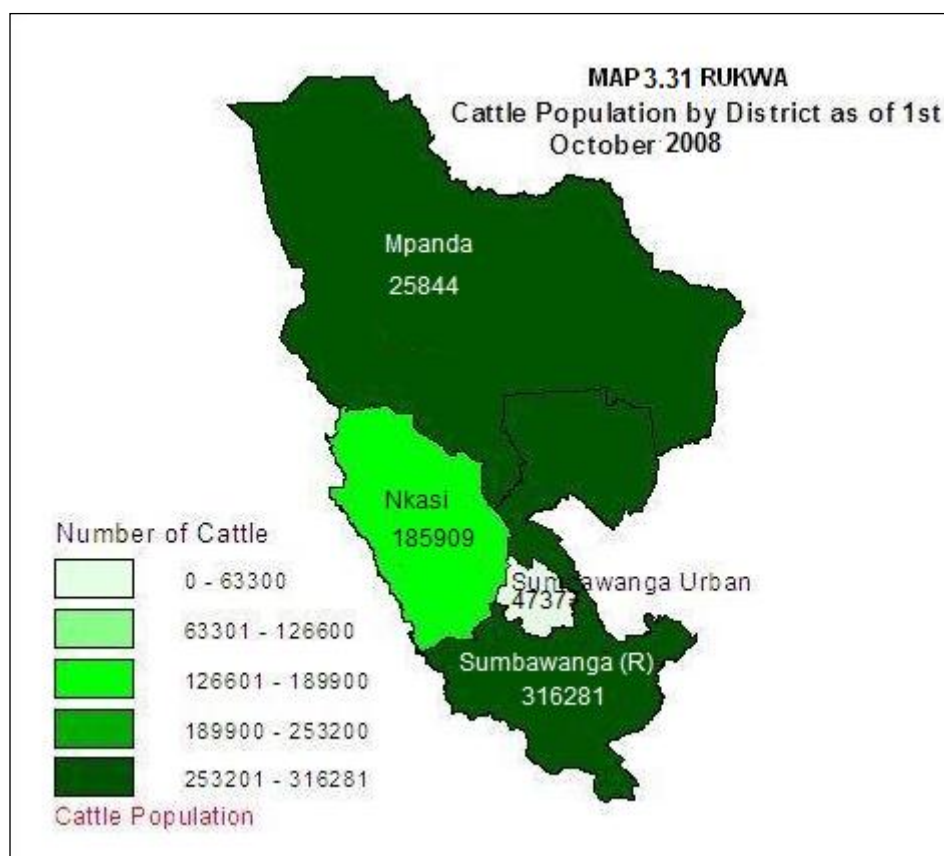
Sumbawanga Rural and Nkasi districts also had the highest density (2 head per km<sup>2</sup>) each. All sheep kept were indigenous breed.

### 3.12.3.2 Sheep Population Trend

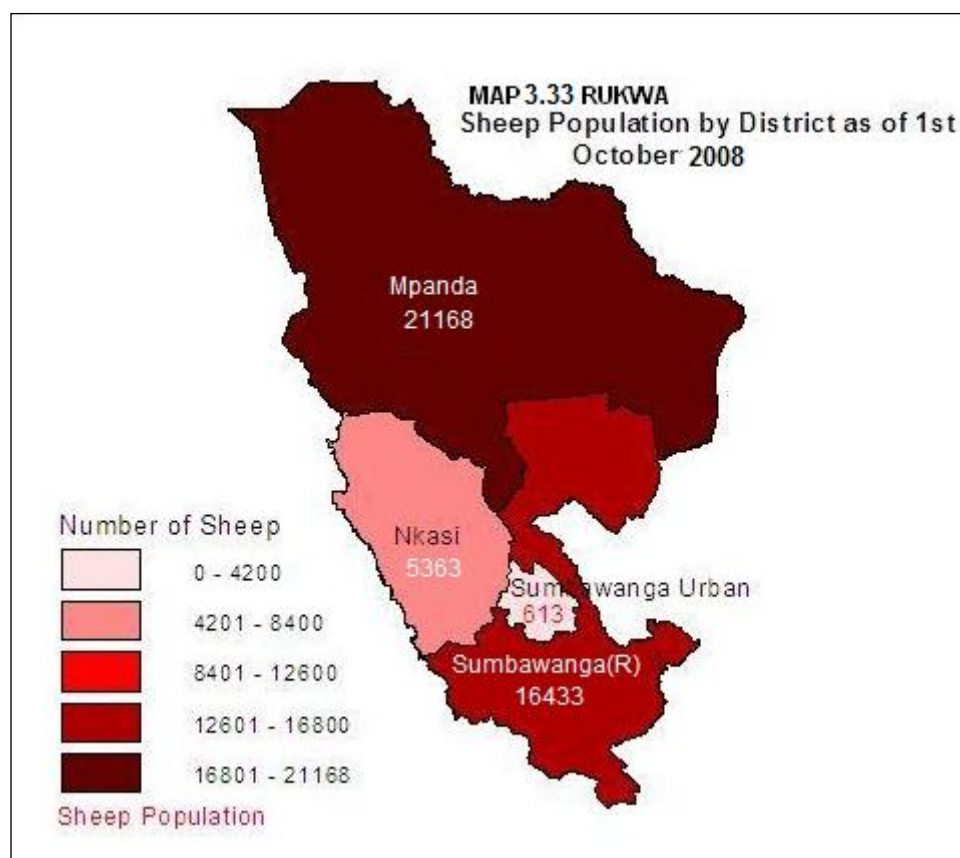
The overall annual growth rate of the sheep population for the eight year period from 1995 to 2003 is estimated at 22.92 percent. The population increased at an annual rate of 17.11 percent from 6,923 in 1995 to 13,021 in 1999. From 1999 to 2003, sheep population increased at an annual rate of 22.92 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).







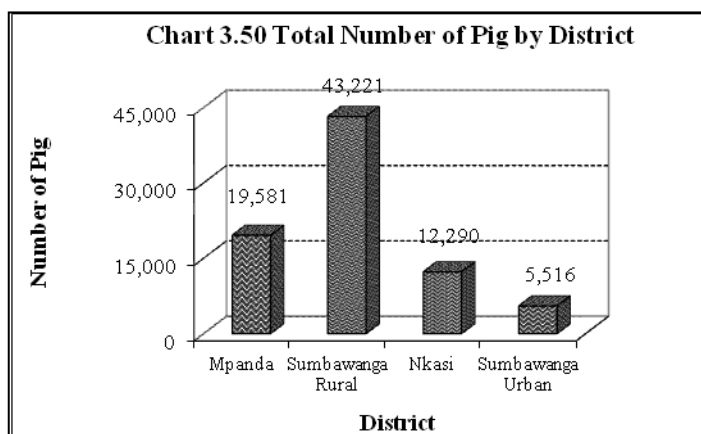




### 3.12.4 Pig Production

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.

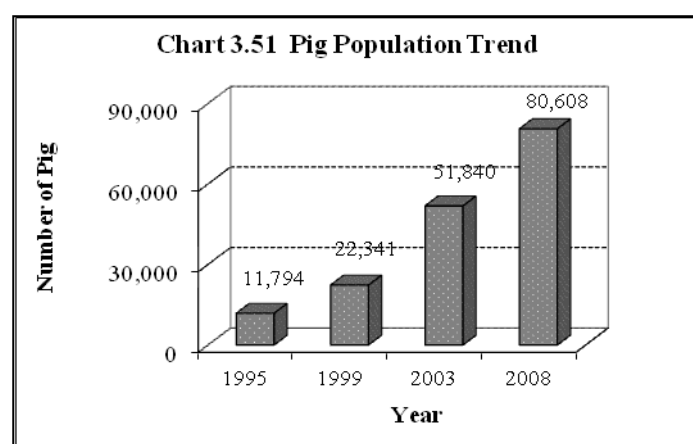
The number of pig-rearing agricultural households in Rukwa region was 19,834 (8.8% of the total agricultural households in the region) rearing 80,608 pigs. This gives an average of 4 pigs per pig-rearing household. The district with the largest number of pigs was



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 km<sup>2</sup>)

#### 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

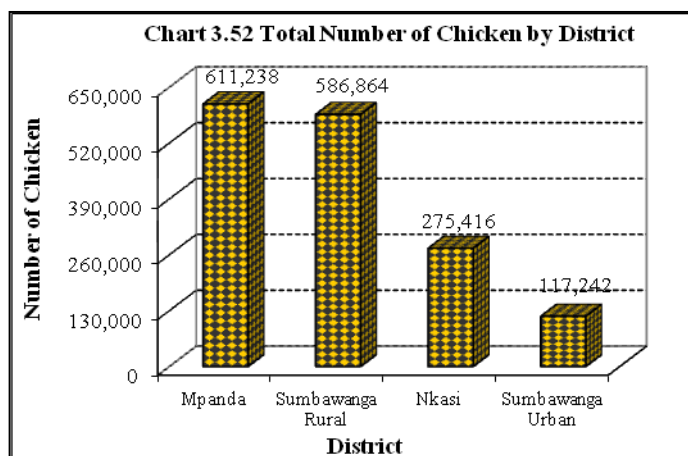
The poultry sector in Rukwa region was dominated by chicken production. The region contributed 3.8 percent to the total chicken population on Tanzania Mainland.

#### 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 11 chicken 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.

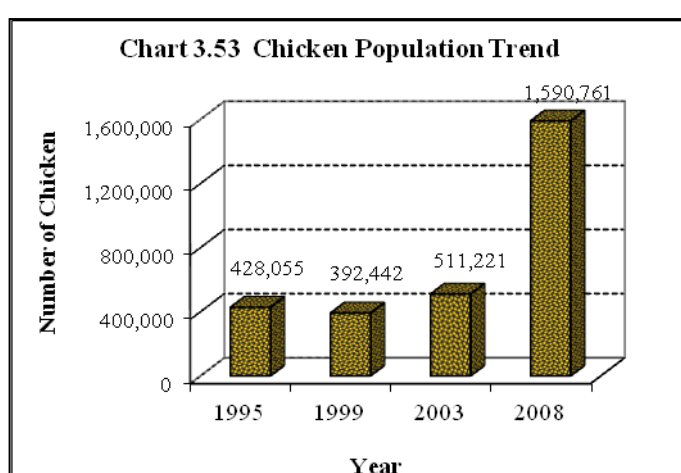
The District with largest number of chicken was Mpanda (611,238 chicken, 38.4% of the total number of chickens in the region) followed by Sumbawanga Rural (586,864 36.9%) and Nkasi (275,416, 17.3%).



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<sup>2</sup>)

#### 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



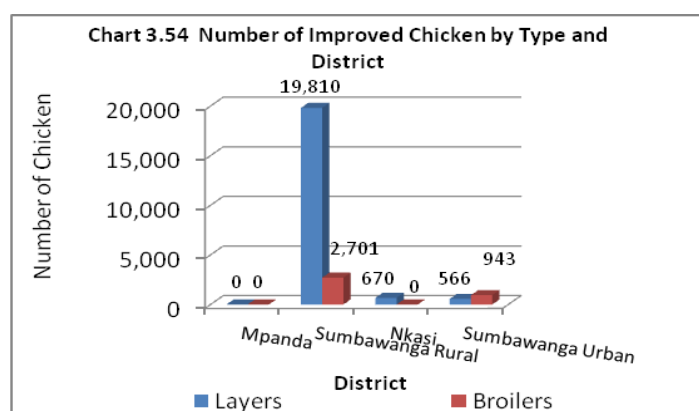
was 25.5 percent equivalent to an increase of chicken population from 511,221 to 1,590,761. (Chart 3.53)

### 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

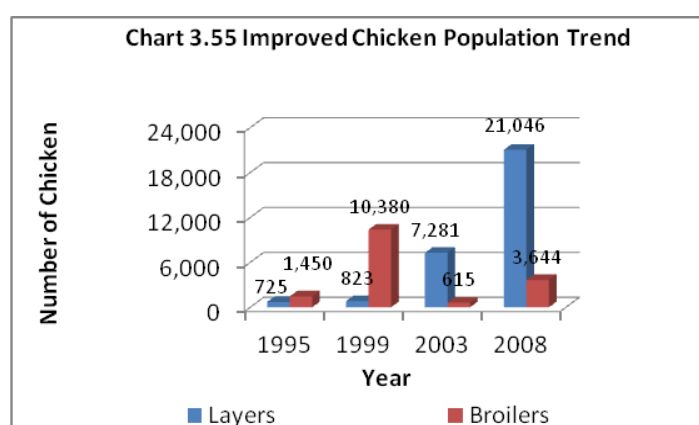
### 3.12.5.4 Improved Chickens (layers and broilers)

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

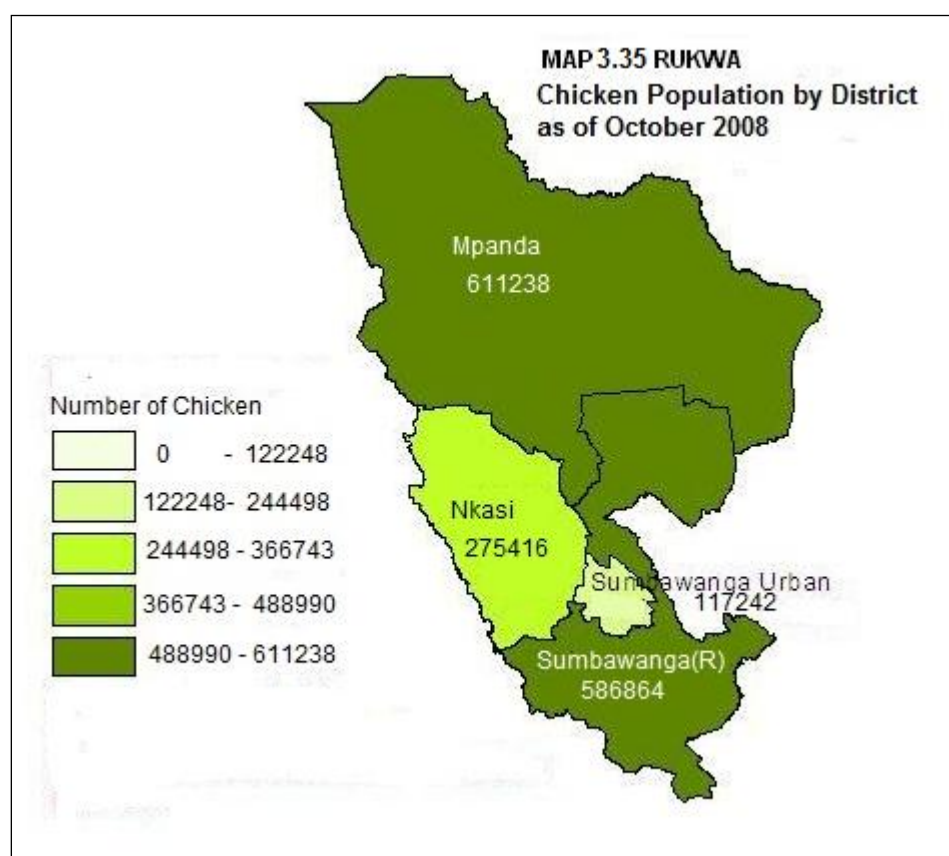
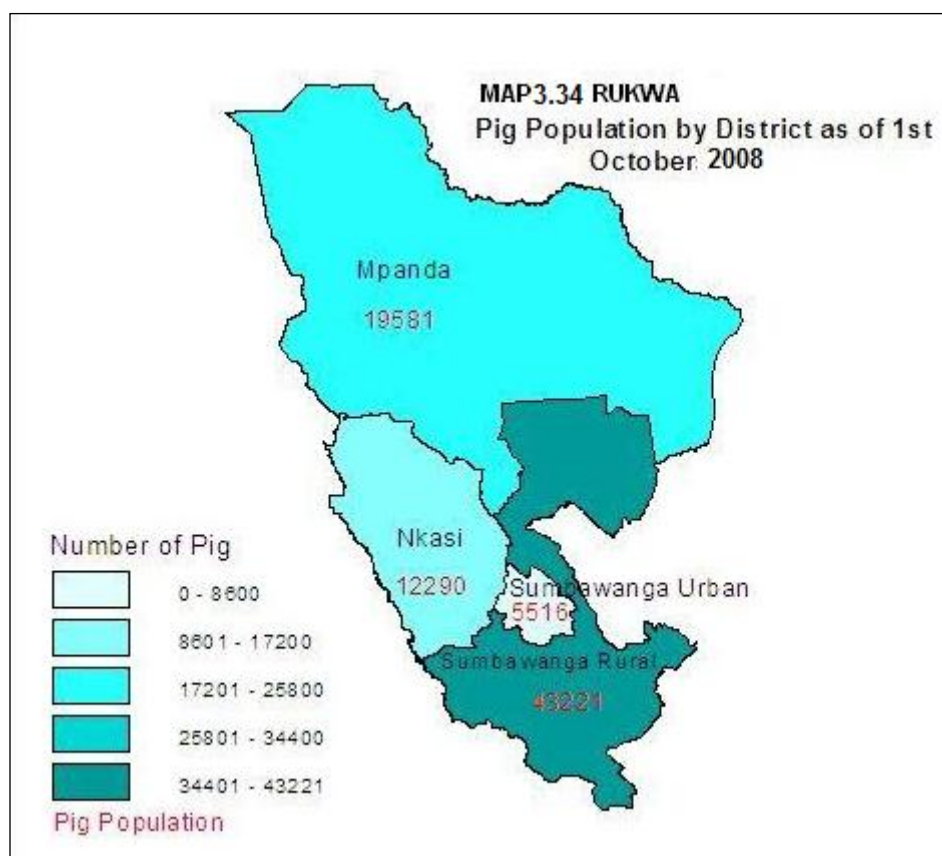


21,046 in 2008. The number of improved chicken was most significant in Sumbawanga Rural (22,511 ) followed by Sumbawanga Urban (1,508 and Nkasi (670) districts.

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).



### 3.12.6 Other Livestock

There were 56,626 ducks, 8,489 donkeys, 8,002 rabbits and 6,501 guineapigs raised by rural agricultural households in Rukwa region. Table 3-12 indicates the

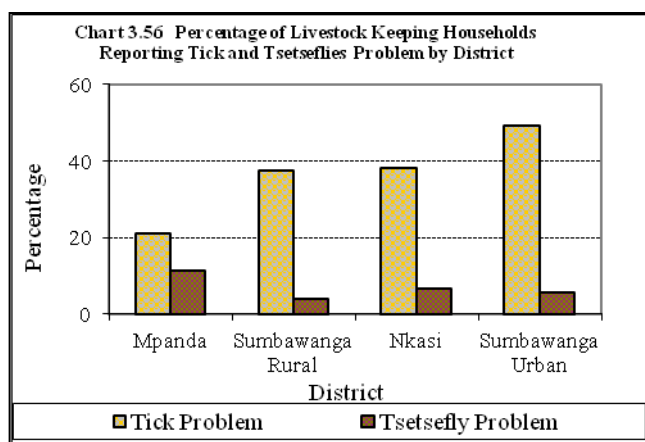
**Table 3.8 Number of Other Livestock by Type of Livestock and District as of 1st October 2008**

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
<b>Total</b>	<b>56,626</b>	<b>6,501</b>	<b>0</b>	<b>8,002</b>	<b>8,489</b>

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).

### 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.

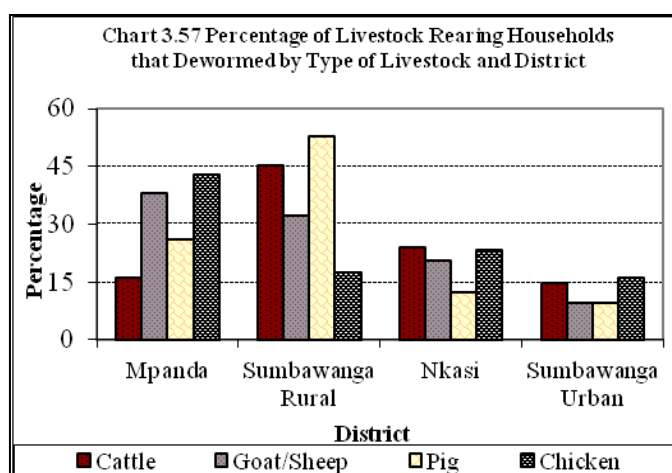


The most practiced method of tick controlling was spraying with 25 percent of all livestock-rearing households in the region using the method. Other methods used were dipping (4%), smearing (2%) and other traditional methods like hand picking (0.03%). However, 68 percent of livestock-keeping households 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)

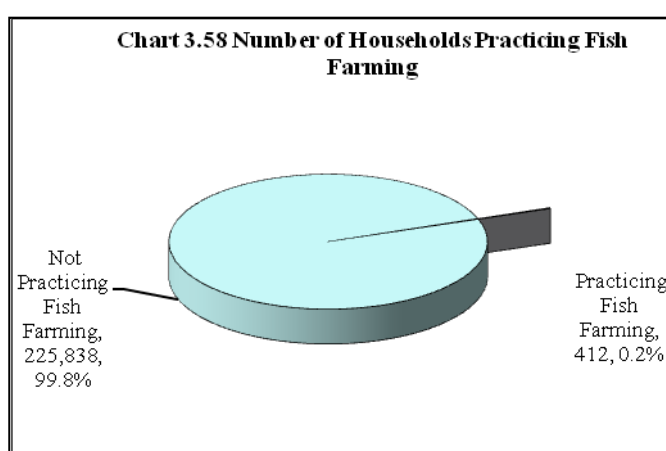
**Table 3.9 Percentage of Livestock Rearing Households Receiving Livestock Extension by Source and District**

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
<b>Total</b>	<b>84.4</b>	<b>10.1</b>	<b>1.0</b>	<b>2.5</b>	<b>15.3</b>	<b>18.9</b>	<b>68,550</b>

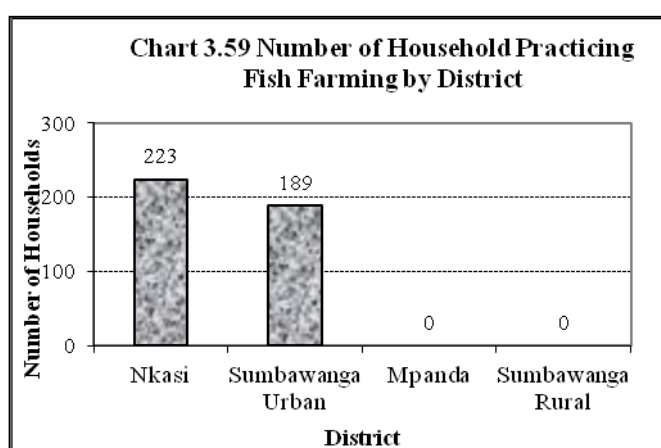
### 3.12.9 Fish Farming

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).

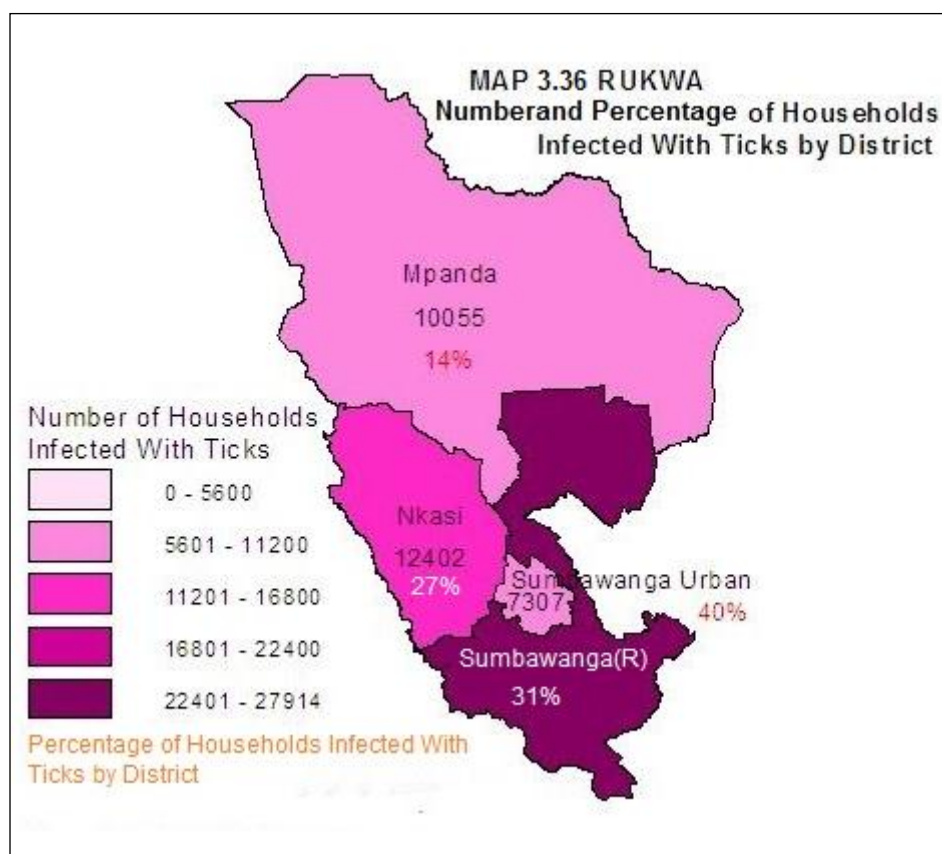


The main source of fingerlings was from the neighbors (335 households) followed by NGO/Projects (141 households) and other sources (112 households). About 588 households practicing fish farming in the region used the natural ponds for fish farming and 47 households used water reservoir.



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).





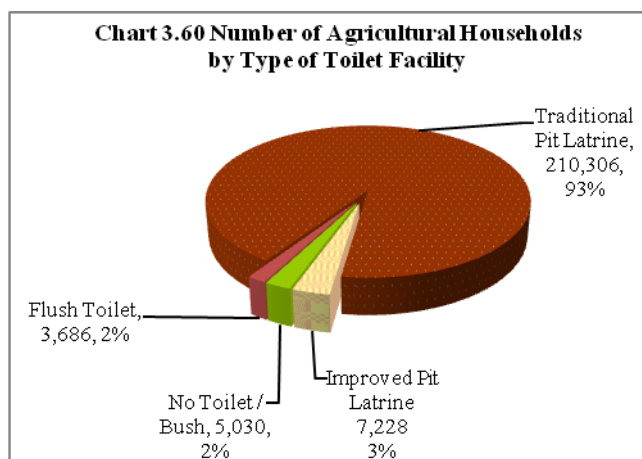


### 3.13 Poverty indicators

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

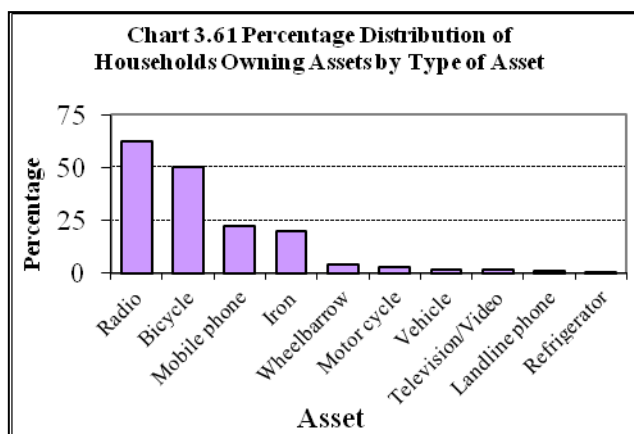
A large number of rural agricultural households used traditional pit latrines (210,306 households, 93% of all rural agricultural households). Other types of toilets were used as follows: Improved pit latrine (7,228 households, 3%) flush toilets (3,686 households, 2%). However, 5,030 households or (2%) 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.

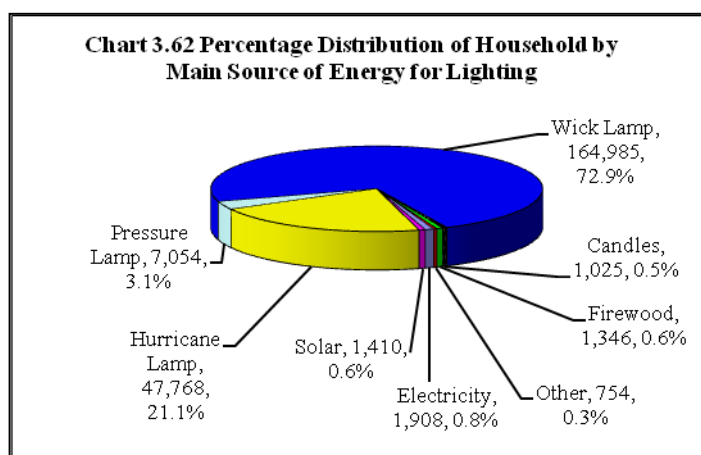
#### 3.13.2 Household's Assets

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)



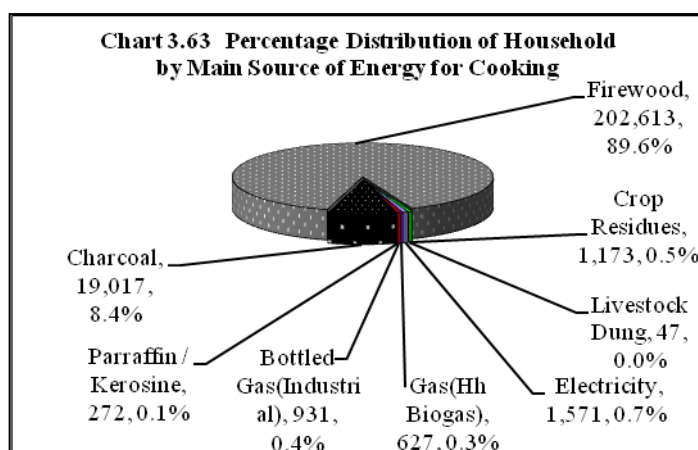
### 3.13.3 Sources of Lighting Energy

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)



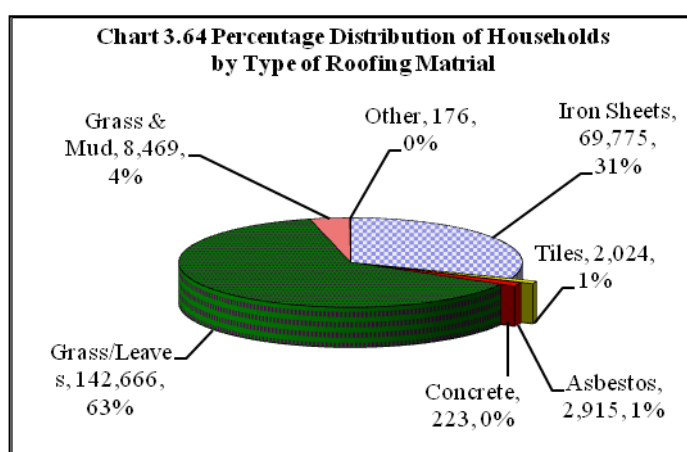
### 3.13.4 Sources of Energy for Cooking

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

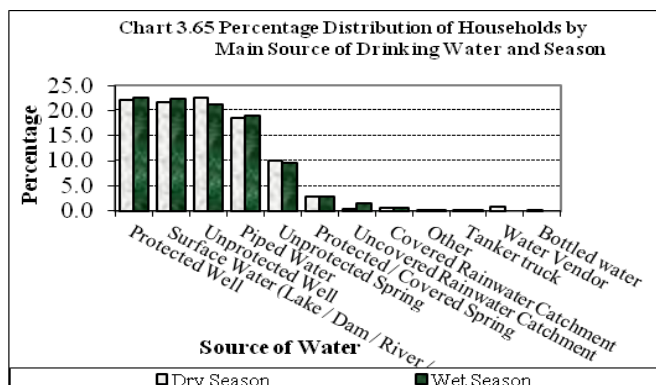
The most common material for roofing for the main dwelling was grass and/or leaves which used by 63.1 percent of the rural agricultural households. This was far followed by iron sheets (30.8%), grass/mud (3.7%), asbestos (1.3%), and tiles (0.9%) and concrete (0.1%), (Chart 3.64).



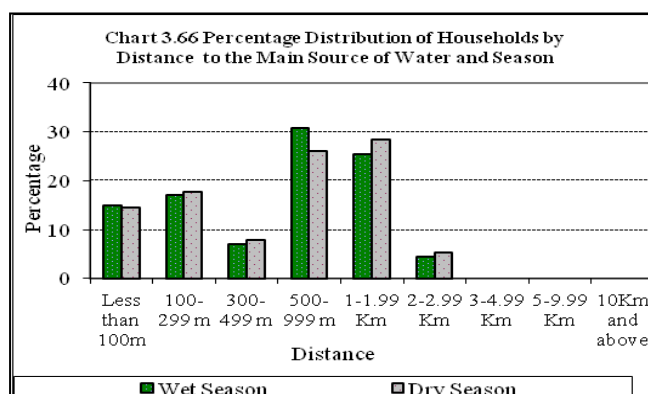
Proportionally, Nkasi districts had the highest percentage of households with grass/leaves roofing (72.8%), followed by Mpanda (66.2%), Sumbawanga Urban (57.9) and Sumbawanga Rural (56.8%)

### 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



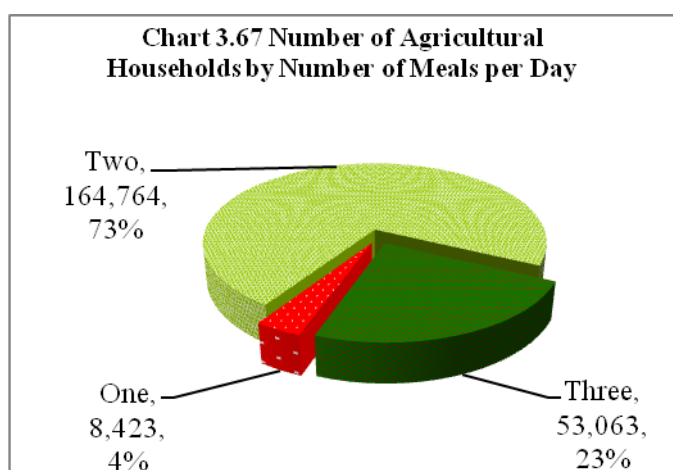
drinking water from a distance of one or more kilometers during wet compared to 33 percent of households in the dry season. The most common distance from the source of drinking water was between 500 meter and 2 kilometers (Chart 3.66).

### 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).

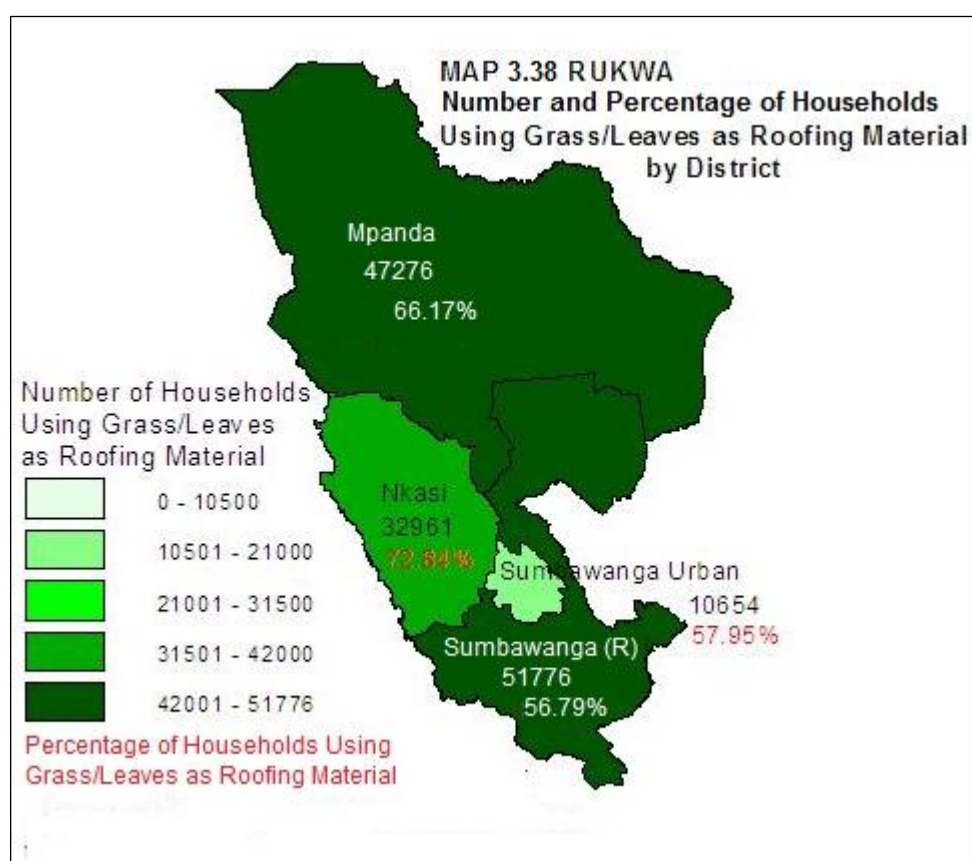
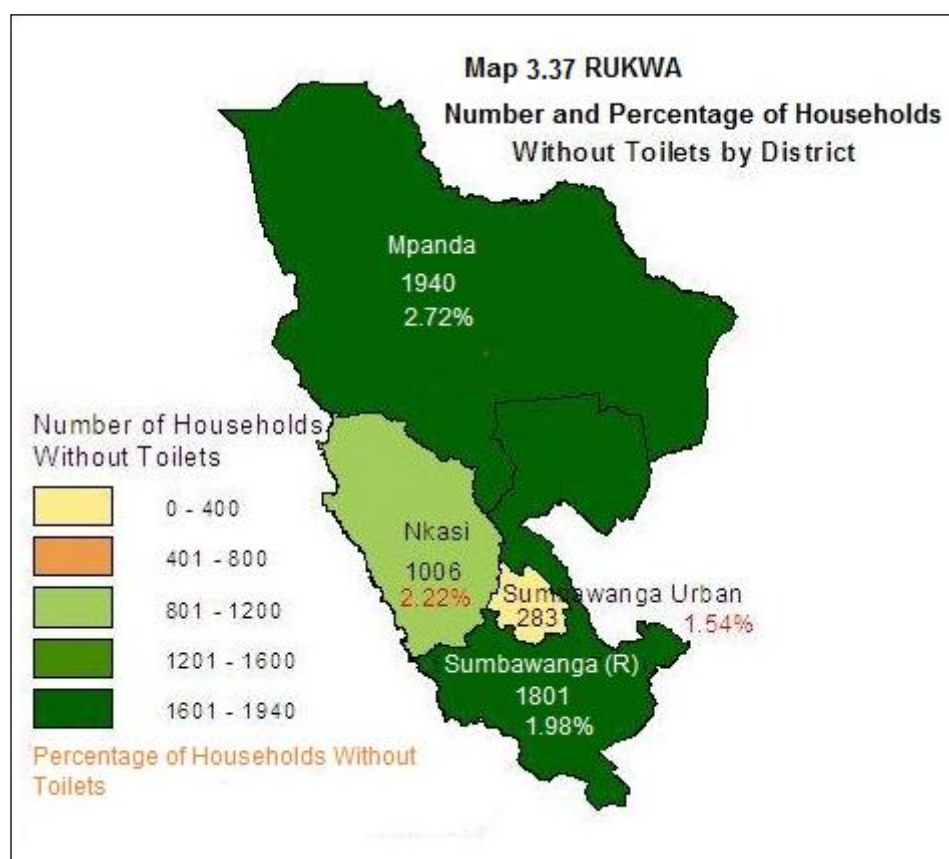
Sumbawanga Urban district had the largest percent of households eating one meal per day (9%) whilst Mpanda



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 Normally Takes per Day**

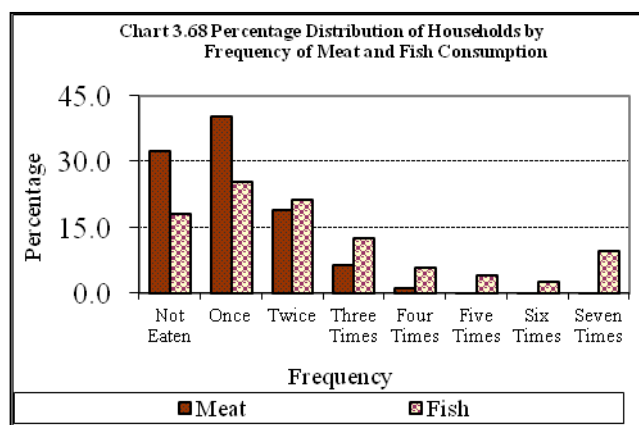
District	One	%	Two	%	Three	%	Total
Mpanda	1,764	2	38,809	54	30,871	43	71,443
Sumbawanga Rural	3,827	4	79,014	87	8,329	9	91,170
Nkasi	1,229	3	31,620	70	12,402	27	45,251
Sumbawanga Urban	1,603	9	15,321	83	1,461	8	18,385
<b>Total</b>	<b>8,423</b>	<b>4</b>	<b>164,764</b>	<b>73</b>	<b>53,063</b>	<b>23</b>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



### 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 preceding 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

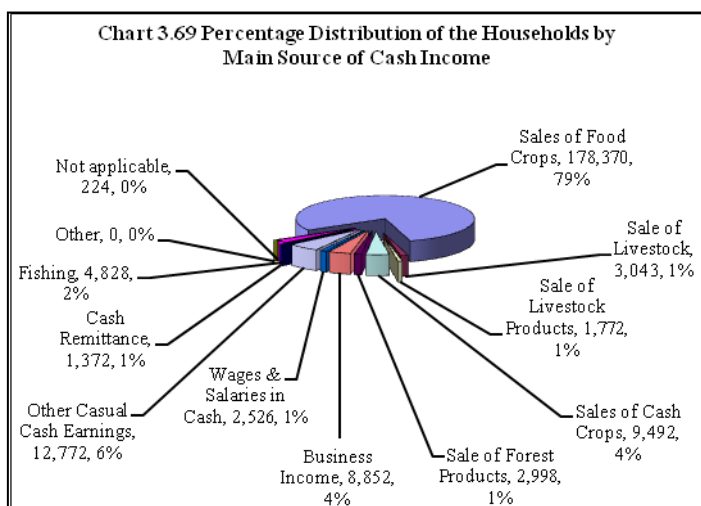
In Rukwa region, 83,152 households (36.8% of the total agricultural households in the region) said they seldom experienced problems in satisfying the household for food requirement. However 18,598 households (8.2%) said they sometimes experience problems, 10,951 households (4.8%) often experienced problems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

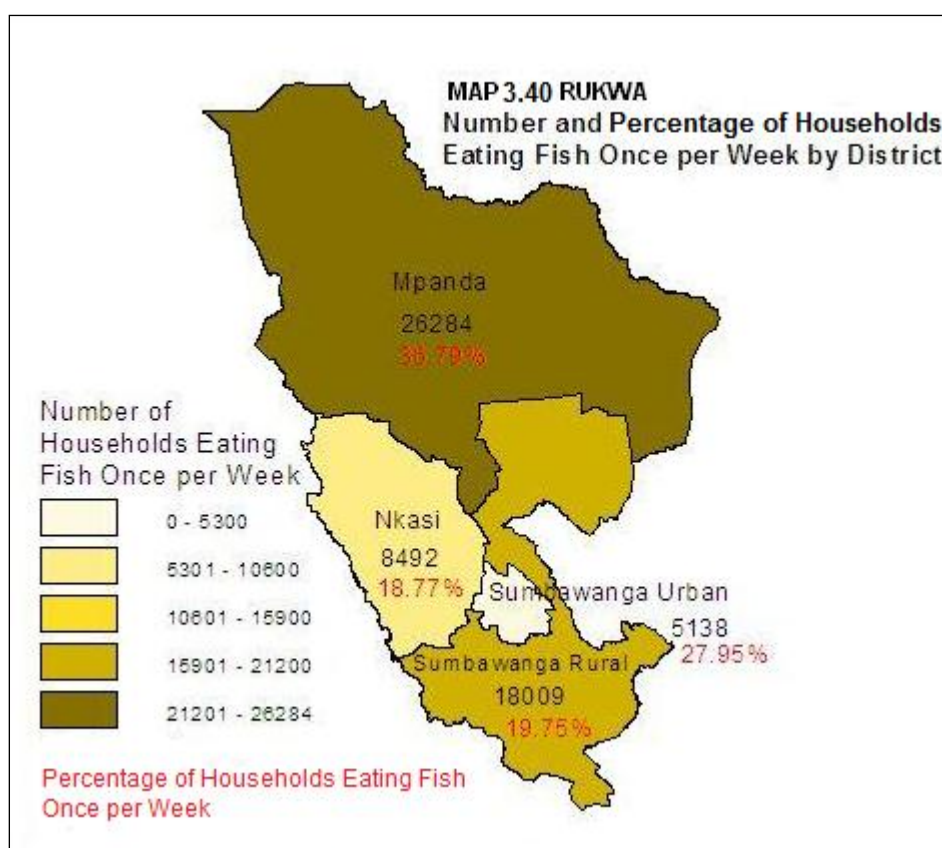
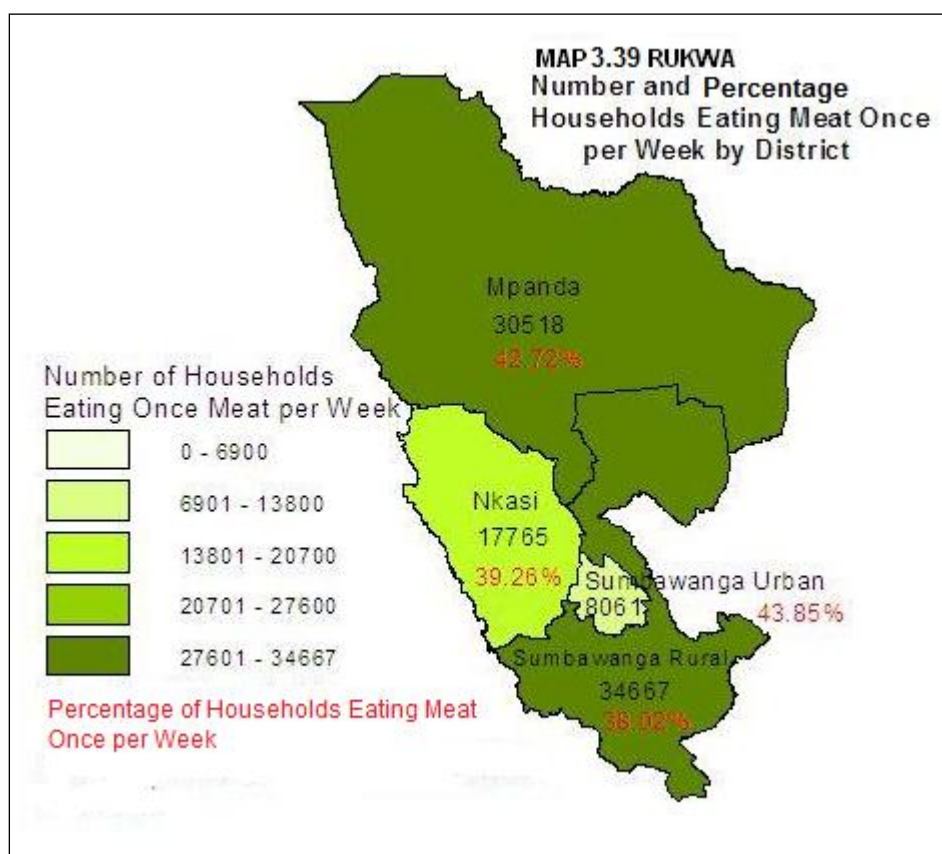


satisfying the household food requirement. However, 106,918 (47.3%) agricultural households said they never experience any food sufficiency problem.

### 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).







## 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, access to 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% Of 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
<b>Total</b>	<b>137,109</b>	<b>60.6</b>	<b>272</b>	<b>0.1</b>	<b>0</b>	<b>0.0</b>	<b>88,868</b>	<b>39.3</b>	<b>226,250</b>	<b>225,977</b>	<b>89,140</b>

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
<b>Total</b>	<b>137,109</b>	<b>60.6</b>	<b>272</b>	<b>0.1</b>	<b>0</b>	<b>0.0</b>	<b>88,868</b>	<b>39.3</b>	<b>226,250</b>	<b>100</b>

**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
<b>Total</b>	<b>137,109</b>	<b>100.0</b>	<b>272</b>	<b>100.0</b>	<b>0</b>	<b>0.0</b>	<b>88,868</b>	<b>100.0</b>	<b>226,250</b>	<b>100</b>

## **HOUSEHOLDS DEMOGRAPHICS**

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

District	Male		Female		Total
	Number	Percent	Number	Percent	
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
<b>Total</b>	<b>198,818</b>	<b>88</b>	<b>27,431</b>	<b>12</b>	<b>226,250</b>

**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
<b>Total</b>	<b>637,303</b>	<b>51</b>	<b>609,408</b>	<b>49</b>	<b>1,246,711</b>

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

Age Group	Sex					
	Male		Female		Total	
	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
<b>Total</b>	<b>637,303</b>	<b>51</b>	<b>609,408</b>	<b>49</b>	<b>1,246,711</b>	<b>100</b>

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

Age Group	Sex					
	Male		Female		Total	
	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
<b>Total</b>	<b>637,303</b>	<b>100</b>	<b>609,408</b>	<b>100</b>	<b>1,246,711</b>	<b>100</b>

**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
<b>Total</b>	<b>186,388</b>	<b>96</b>	<b>8,059</b>	<b>4</b>	<b>194,448</b>	<b>100</b>	<b>4,550</b>	<b>68</b>	<b>2,178</b>	<b>32</b>	<b>6,728</b>	<b>100</b>

**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
<b>Total</b>	<b>3,131</b>	<b>82</b>	<b>671</b>	<b>18</b>	<b>3,801</b>	<b>100</b>	<b>2,357</b>	<b>26</b>	<b>6,835</b>	<b>74</b>	<b>9,193</b>	<b>100</b>

**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
<b>Total</b>	<b>2,392</b>	<b>20</b>	<b>9,688</b>	<b>80</b>	<b>12,080</b>	<b>100</b>	<b>198,818</b>	<b>88</b>	<b>27,431</b>	<b>12</b>	<b>226,250</b>	<b>100</b>

**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
<b>Total</b>	<b>101,302</b>	<b>91</b>	<b>10,526</b>	<b>9</b>	<b>111,828</b>	<b>100</b>	<b>96,715</b>	<b>85</b>	<b>16,905</b>	<b>15</b>	<b>113,620</b>	<b>100</b>

**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
<b>Total</b>	<b>801</b>	<b>100</b>	<b>0</b>	<b>0</b>	<b>801</b>	<b>100</b>	<b>198,818</b>	<b>88</b>	<b>27,431</b>	<b>12</b>	<b>226,250</b>	<b>100</b>

**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
<b>Total</b>	<b>123,935</b>	<b>90</b>	<b>13,572</b>	<b>10</b>	<b>137,508</b>	<b>100</b>	<b>74,707</b>	<b>84</b>	<b>13,812</b>	<b>16</b>	<b>88,518</b>	<b>100</b>



**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
<b>Total</b>	<b>176</b>	<b>79</b>	<b>47</b>	<b>21</b>	<b>224</b>	<b>100</b>	<b>198,818</b>	<b>88</b>	<b>27,431</b>	<b>12</b>	<b>226,250</b>	<b>100</b>

**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
<b>Total</b>	<b>642,854</b>	<b>61.7</b>	<b>63,261</b>	<b>6.1</b>	<b>384</b>	<b>0</b>	<b>335,633</b>	<b>32.2</b>	<b>1,042,131</b>

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

District	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	
	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
<b>Total</b>	<b>388,666</b>	<b>73</b>	<b>147,246</b>	<b>27</b>	<b>535,913</b>	<b>100</b>	<b>317,832</b>	<b>63</b>	<b>188,387</b>	<b>37</b>	<b>506,219</b>	<b>100</b>	<b>706,499</b>	<b>68</b>	<b>335,633</b>	<b>32</b>	<b>1,042,131</b>	<b>100</b>

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

District	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	
	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
<b>Total</b>	<b>160,366</b>	<b>81</b>	<b>38,452</b>	<b>19</b>	<b>198,818</b>	<b>100</b>	<b>13,587</b>	<b>50</b>	<b>13,845</b>	<b>50</b>	<b>27,431</b>	<b>100</b>	<b>173,953</b>	<b>77</b>	<b>52,297</b>	<b>23</b>	<b>226,250</b>	<b>100</b>

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

District	Swahili						Swahili & English					
	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
<b>Total</b>	<b>144,159</b>	<b>92</b>	<b>12,502</b>	<b>8</b>	<b>156,662</b>	<b>100</b>	<b>16,048</b>	<b>94</b>	<b>1,084</b>	<b>6</b>	<b>17,133</b>	<b>100</b>

**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**

District	Any Other Language						Don't Read / Write					
	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
<b>Total</b>	<b>159</b>	<b>100</b>	<b>0</b>	<b>0</b>	<b>159</b>	<b>100</b>	<b>38,452</b>	<b>74</b>	<b>13,845</b>	<b>26</b>	<b>52,297</b>	<b>100</b>

**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
<b>Total</b>	<b>353,404</b>	<b>100</b>	<b>400,983</b>	<b>100</b>	<b>287,744</b>	<b>100</b>	<b>1,042,131</b>

### 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
<b>Total</b>	<b>2,002</b>	<b>100</b>	<b>0</b>	<b>0</b>	<b>2,002</b>	<b>100</b>	<b>159,277</b>	<b>92</b>	<b>13,634</b>	<b>8</b>	<b>172,911</b>	<b>100</b>

### 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
<b>Total</b>	<b>37,539</b>	<b>73</b>	<b>13,798</b>	<b>27</b>	<b>51,336</b>	<b>100</b>	<b>198,818</b>	<b>88</b>	<b>27,431</b>	<b>12</b>	<b>226,250</b>	<b>100</b>

**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
<b>Total</b>	<b>13,482</b>	<b>3.4</b>	<b>292,586</b>	<b>73.0</b>	<b>2,046</b>	<b>0.5</b>	<b>1,648</b>	<b>0.4</b>	<b>627</b>	<b>0.2</b>	<b>2,083</b>	<b>0.5</b>

**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
<b>Total</b>	<b>112</b>	<b>0.0</b>	<b>5,357</b>	<b>1.3</b>	<b>9,327</b>	<b>2.3</b>	<b>12,910</b>	<b>3.2</b>	<b>28,364</b>	<b>7.1</b>	<b>13,606</b>	<b>3.4</b>

### 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
<b>Total</b>	<b>162,995</b>	<b>72</b>	<b>8,834</b>	<b>4</b>	<b>2,908</b>	<b>1</b>	<b>51,513</b>	<b>23</b>	<b>226,250</b>	<b>100</b>

### 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
<b>Total</b>	<b>530,714</b>	<b>51</b>	<b>31,872</b>	<b>3</b>	<b>184,652</b>	<b>18</b>	<b>294,893</b>	<b>28</b>	<b>1,042,131</b>	<b>100</b>

### 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
<b>Total</b>	<b>532,335</b>	<b>51</b>	<b>9,143</b>	<b>1</b>	<b>176</b>	<b>0</b>	<b>9,031</b>	<b>1</b>	<b>0</b>	<b>0</b>

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

District	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)	
	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
<b>Total</b>	<b>2,479</b>	<b>0</b>	<b>4,731</b>	<b>0</b>	<b>2,000</b>	<b>0</b>	<b>2,645</b>	<b>0</b>	<b>5,044</b>	<b>0</b>

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

District	Main Activity													
	Not Working & Available		Not Working & Unavailable		Housemaker / Housewife		Student		Unable to Work / Too Old / Retired / Sick / Disabled		Other		Total	
	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
<b>Total</b>	<b>367</b>	<b>0</b>	<b>2,737</b>	<b>0</b>	<b>3,871</b>	<b>0</b>	<b>345,386</b>	<b>33</b>	<b>121,481</b>	<b>12</b>	<b>706</b>	<b>0</b>	<b>1,042,131</b>	<b>100</b>

**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
<b>Total</b>	<b>11,698</b>	<b>5.2</b>	<b>165,032</b>	<b>72.9</b>	<b>53,297</b>	<b>23.6</b>	<b>23,765</b>	<b>10.5</b>	<b>15,233</b>	<b>6.7</b>	<b>944</b>	<b>0.4</b>	<b>4,700</b>	<b>2.1</b>	<b>226,250</b>

**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
<b>Total</b>	<b>43,475</b>	<b>524,483</b>	<b>178,579</b>	<b>28,623</b>	<b>17,473</b>	<b>1,852</b>	<b>18,902</b>	<b>813,386</b>
<b>%</b>	<b>5.3</b>	<b>64.5</b>	<b>22.0</b>	<b>3.5</b>	<b>2.1</b>	<b>0.2</b>	<b>2.3</b>	<b>100</b>

#### 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
<b>Total</b>	<b>93,414</b>	<b>41</b>	<b>132,835</b>	<b>59</b>	<b>226,250</b>

#### 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
<b>Total</b>	<b>96,673</b>	<b>43</b>	<b>129,577</b>	<b>57</b>	<b>226,250</b>

#### 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
<b>Total</b>	<b>47,194</b>	<b>21</b>	<b>179,056</b>	<b>79</b>	<b>226,250</b>

**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
<b>Total</b>	<b>202,719</b>	<b>31,210</b>	<b>12,242</b>	<b>1,369</b>	<b>8,940</b>	<b>6,288</b>	<b>70,993</b>	<b>14,126</b>	<b>5,420</b>	<b>7,574</b>	<b>10,658</b>	<b>47,002</b>	<b>226,250</b>

**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
<b>Total</b>	<b>411,078</b>	<b>35,291</b>	<b>8,502</b>	<b>634</b>	<b>8,943</b>	<b>20,162</b>	<b>139,616</b>	<b>45,692</b>	<b>3,898</b>	<b>10,945</b>	<b>11,006</b>	<b>117,620</b>	<b>813,386.42</b>
<b>%</b>	<b>50.5</b>	<b>4.3</b>	<b>1.0</b>	<b>0.1</b>	<b>1.1</b>	<b>2.5</b>	<b>17.2</b>	<b>5.6</b>	<b>0.5</b>	<b>1.3</b>	<b>1.4</b>	<b>14.5</b>	<b>100.0</b>

**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
<b>Total</b>	<b>1,845</b>	<b>64</b>	<b>1,028</b>	<b>36</b>	<b>2,874</b>	<b>100</b>	<b>183,993</b>	<b>81</b>	<b>44,119</b>	<b>19</b>	<b>228,112</b>	<b>100</b>

### 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
<b>Total</b>	<b>1,944</b>	<b>64</b>	<b>1,106</b>	<b>36</b>	<b>3,050</b>	<b>100</b>	<b>382,647</b>	<b>81</b>	<b>43,693</b>	<b>19</b>	<b>426,340</b>	<b>100</b>

### 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
<b>Total</b>	<b>2,521</b>	<b>3,050</b>	<b>216,005</b>	<b>426,340</b>	<b>429,390</b>	<b>0.71</b>

### 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
<b>Total</b>	<b>2,521</b>	<b>223,729</b>	<b>216,005</b>	<b>10,244</b>	<b>225,977</b>

**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
<b>CEREALS</b>		<b>652</b>		<b>85,131</b>		<b>85,783</b>
Sweet Potato	0	0	9,173	3,785	9,173	3,785
Coco Yam	0	0	176	71	176	71
<b>ROOTS &amp; TUBERS</b>		<b>0</b>		<b>9,463</b>		<b>9,463</b>
Beans	706	368	7,938	4,024	8,644	4,392
<b>PULSES</b>		<b>368</b>		<b>4,024</b>		<b>4,392</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>54</b>		<b>34,152</b>		<b>34,206</b>
Cabbage	176	18	0	0	176	18
Tomatoes	353	89	0	0	353	89
Amaranth	176	36	0	0	176	36
<b>FRUITS &amp; VEGETAB</b>		<b>143</b>		<b>0</b>		<b>143</b>
Tobacco	176	16	10,937	9,374	11,113	9,389
<b>CASH CROPS</b>		<b>16</b>		<b>9,374</b>		<b>9,389</b>
<b>Total</b>		<b>1,232</b>		<b>137,002</b>		<b>138,234</b>

**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
<b>CEREALS</b>		<b>911</b>		<b>130,928</b>		<b>131,839</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>		<b>7,452</b>		<b>7,452</b>
Beans	225	91	27,013	18,775	27,238	18,866
Cowpeas	0	0	2,026	207	2,026	207
<b>PULSES</b>		<b>91</b>		<b>18,982</b>		<b>19,073</b>
Sunflower	225	91	29,490	23,534	29,715	23,625
Groundnut	0	0	15,308	4,902	15,308	4,902
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>91</b>		<b>29,256</b>		<b>29,347</b>
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
Amaranth	0	0	225	91	225	91
<b>FRUITS &amp; VEGETABLE</b>		<b>91</b>		<b>1,322</b>		<b>1,413</b>
Cotton	0	0	675	365	675	365
Tobacco	0	0	225	182	225	182
<b>CASH CROPS</b>		<b>0</b>		<b>547</b>		<b>547</b>
<b>Total</b>		<b>1,185</b>		<b>181,778</b>		<b>182,962</b>

**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
<b>CEREALS</b>		<b>543</b>		<b>56,943</b>		<b>57,486</b>
Cassava	0	0	15,642	10,070	15,642	10,070
Sweet Potato	0	0	1,676	837	1,676	837
<b>ROOTS &amp; TUBERS</b>		<b>0</b>		<b>10,907</b>		<b>10,907</b>
Beans	112	90	15,084	10,960	15,195	11,050
<b>PULSES</b>		<b>90</b>		<b>10,965</b>		<b>11,055</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>		<b>10,128</b>		<b>10,128</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>		<b>418</b>		<b>418</b>
<b>CASH CROPS</b>		<b>0</b>		<b>0</b>		<b>0</b>
<b>Total</b>		<b>633</b>		<b>79,313</b>		<b>79,947</b>



**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
<b>CEREALS</b>		<b>0</b>		<b>18,637</b>		<b>18,637</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>		<b>698</b>		<b>698</b>
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
<b>PULSES</b>		<b>0</b>		<b>4,217</b>		<b>4,217</b>
Sunflower	0	0	6,317	3,581	6,317	3,581
Groundnut	0	0	1,886	407	1,886	407
<b>OIL SEEDS &amp; OIL NUT</b>		<b>0</b>		<b>3,988</b>		<b>3,988</b>
Bitter 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
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>		<b>798</b>		<b>798</b>
<b>Total</b>		<b>0</b>		<b>28,247</b>		<b>28,247</b>

### 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
<b>CEREALS</b>	<b>652</b>	<b>1,305</b>	<b>2</b>	<b>85,131</b>	<b>129,604</b>	<b>1.5</b>	<b>85,783</b>	<b>130,909</b>	<b>1.5</b>
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
<b>ROOTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9,463</b>	<b>15,557</b>	<b>1.6</b>	<b>9,463</b>	<b>15,557</b>	<b>1.6</b>
Beans	368	240	0.7	4,024	2,538	0.6	4,392	2,778	0.6
<b>PULSES</b>	<b>368</b>	<b>240</b>	<b>0.7</b>	<b>4,024</b>	<b>2,538</b>	<b>0.6</b>	<b>4,392</b>	<b>2,778</b>	<b>0.6</b>
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
<b>OIL SEEDS</b>	<b>54</b>	<b>71</b>	<b>1.3</b>	<b>34,152</b>	<b>26,148</b>	<b>0.8</b>	<b>34,206</b>	<b>26,219</b>	<b>0.8</b>
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
<b>FRUITS</b>	<b>143</b>	<b>6,119</b>	<b>42.8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>143</b>	<b>6,119</b>	<b>42.8</b>
Tobacco	16	23	1.5	9,374	10,446	1.1	9,389	10,470	1.1
<b>CASH CROPS</b>	<b>16</b>	<b>23</b>	<b>1.5</b>	<b>9,374</b>	<b>10,446</b>	<b>1.1</b>	<b>9,389</b>	<b>10,470</b>	<b>1.1</b>
<b>Total</b>	<b>1,232</b>	<b>7,758</b>	<b>6.3</b>	<b>137,002</b>	<b>178,141</b>	<b>1.3</b>	<b>138,234</b>	<b>185,900</b>	<b>1.3</b>

**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
<b>CEREALS</b>	<b>543</b>	<b>771</b>	<b>1.4</b>	<b>56,943</b>	<b>90,819</b>	<b>1.6</b>	<b>57,486</b>	<b>91,590</b>	<b>1.6</b>
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
<b>ROOTS &amp; TUBERS</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>10,907</b>	<b>31,223</b>	<b>1.6</b>	<b>10,907</b>	<b>31,223</b>	<b>1.6</b>
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
<b>PULSES</b>	<b>90</b>	<b>89</b>	<b>1.0</b>	<b>10,965</b>	<b>6,824</b>	<b>0.6</b>	<b>11,055</b>	<b>6,913</b>	<b>0.6</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>10,128</b>	<b>7,796</b>	<b>0.8</b>	<b>10,128</b>	<b>7,796</b>	<b>0.8</b>
Okra	0	0	0.0	271	199	0.7	271	199	0.7
Bitteer	0	0	0.0	0	0	0.0	0	0	0.0
Aubergine	0	0	0.0	45	72	1.6	45	72	1.6
Onion	0	0	0.0	0	0	0.0	0	0	0.0
Cabbage	0	0	0.0	79	266	3.4	79	266	3.4
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	23	2	0.1	23	2	0.1
<b>FRUITS &amp; VEGETABLES</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>418</b>	<b>538</b>	<b>1.3</b>	<b>418</b>	<b>538</b>	<b>1.3</b>
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
<b>CASH CROPS</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
<b>Total</b>	<b>633</b>	<b>860</b>	<b>1.4</b>	<b>79,313</b>	<b>107,393</b>	<b>1.4</b>	<b>79,947</b>	<b>108,253</b>	<b>1.4</b>

**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
<b>CEREALS</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>18,637</b>	<b>30,197</b>	<b>1.6</b>	<b>18,637</b>	<b>30,197</b>	<b>1.6</b>
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
<b>ROOTS &amp; TUBERS</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>698</b>	<b>1,861</b>	<b>2.7</b>	<b>698</b>	<b>1,861</b>	<b>2.7</b>
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
<b>PULSES</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>4,217</b>	<b>3,751</b>	<b>0.9</b>	<b>4,217</b>	<b>3,751</b>	<b>0.9</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>3,988</b>	<b>2,658</b>	<b>0.7</b>	<b>3,988</b>	<b>2,658</b>	<b>0.7</b>
Okra	0	0	0.0	0	0	0.0	0	0	0.0
Bitteer	0	0	0.0	33	180	5.5	33	180	5.5
Aubergine	0	0	0.0	134	396	3.0	134	396	3.0
Onion	0	0	0.0	94	841	9.0	94	841	9.0
Cabbage	0	0	0.0	267	4,526	16.9	267	4,526	16.9
Tomatoes	0	0	0.0	191	380	2.0	191	380	2.0
Spinach	0	0	0.0	29	139	4.9	29	139	4.9
Carrot	0	0	0.0	6	11	1.8	6	11	1.8
Chillies	0	0	0.0	44	315	7.1	44	315	7.1
Amaranths	0	0	0.0	0	0	0.0	0	0	0.0
<b>FRUITS &amp; VEGETABLES</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>798</b>	<b>6,789</b>	<b>8.5</b>	<b>798</b>	<b>6,789</b>	<b>8.5</b>
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
<b>CASH CROPS</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>28,247</b>	<b>45,134</b>	<b>1.6</b>	<b>28,247</b>	<b>45,134</b>	<b>1.6</b>

**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
<b>Total</b>	<b>1,669</b>	<b>1,237</b>	<b>1,724</b>	<b>1.4</b>	<b>402</b>	<b>507</b>	<b>564</b>	<b>1.1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>

**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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>	<b>112</b>	<b>362</b>	<b>380</b>	<b>1.0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>.00</b>	<b>.00</b>	<b>0</b>	<b>0</b>	<b>.00</b>	<b>.00</b>

**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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>.00</b>	<b>.00</b>	<b>0</b>	<b>0</b>	<b>.00</b>	<b>.00</b>	<b>0</b>	<b>0</b>	<b>.00</b>	<b>.00</b>

**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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>.00</b>	<b>.00</b>	<b>1,042</b>	<b>549</b>	<b>599.43</b>	<b>1.09</b>	<b>0</b>	<b>0</b>	<b>.00</b>	<b>.00</b>

**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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>.00</b>	<b>.00</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>.00</b>	<b>.00</b>

**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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>.00</b>	<b>.00</b>	<b>225</b>	<b>91</b>	<b>67.53</b>	<b>.74</b>	<b>0</b>	<b>0</b>	<b>.00</b>	<b>.00</b>

**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
<b>Total</b>	<b>176</b>	<b>54</b>	<b>70.56</b>	<b>1.32</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>



**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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>.00</b>	<b>.00</b>	<b>0</b>	<b>0</b>	<b>.00</b>	<b>.00</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>.00</b>	<b>.00</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>.00</b>	<b>.00</b>

**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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**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
<b>Total</b>	<b>402</b>	<b>27</b>	<b>186.15</b>	<b>6.90</b>	<b>803</b>	<b>153</b>	<b>5,945</b>	<b>38.84</b>	<b>225</b>	<b>18</b>	<b>33.77</b>	<b>1.85</b>

**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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>.00</b>	<b>.00</b>	<b>0</b>	<b>0</b>	<b>.00</b>	<b>.00</b>	<b>176</b>	<b>36</b>	<b>1,428.34</b>	<b>40.00</b>

**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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>.00</b>	<b>.00</b>	<b>0</b>	<b>0</b>	<b>.00</b>	<b>.00</b>	<b>0</b>	<b>0</b>	<b>.00</b>	<b>.00</b>

**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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>.00</b>	<b>.00</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**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
<b>Total</b>	<b>194,015</b>	<b>224,296</b>	<b>349,289</b>	<b>1.6</b>	<b>34,366</b>	<b>45,979</b>	<b>126,679</b>	<b>2.8</b>	<b>9,031</b>	<b>8,784</b>	<b>8,079</b>	<b>0.9</b>

**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
<b>Total</b>	<b>47</b>	<b>5</b>	<b>1</b>	<b>0.2</b>	<b>13,212</b>	<b>10637</b>	<b>10390</b>	<b>1.0</b>	<b>2,378</b>	<b>1,939</b>	<b>3,766.72</b>	<b>1.9</b>

**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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>35,643</b>	<b>22,534</b>	<b>50,149</b>	<b>2.2</b>	<b>13,713</b>	<b>5,438</b>	<b>13,966.91</b>	<b>2.6</b>

**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
<b>Total</b>	<b>1,498</b>	<b>422</b>	<b>1009.7</b>	<b>2.4</b>	<b>225</b>	<b>46</b>	<b>.00</b>	<b>0.0</b>	<b>224</b>	<b>81</b>	<b>51.73</b>	<b>0.6</b>

**Cont. 5.14 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) 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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>.00</b>	<b>0.0</b>	<b>60,359</b>	<b>37,596</b>	<b>27,062.65</b>	<b>0.7</b>	<b>2,185</b>	<b>221</b>	<b>91.65</b>	<b>0.4</b>

**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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>.00</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>.00</b>	<b>0.0</b>	<b>236</b>	<b>33</b>	<b>30.17</b>	<b>0.9</b>

**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
<b>Total</b>	<b>424</b>	<b>337</b>	<b>313.30</b>	<b>0.9</b>	<b>48,238</b>	<b>36,683</b>	<b>27,357.66</b>	<b>0.7</b>	<b>4,796</b>	<b>6,647</b>	<b>3,194.12</b>	<b>0.5</b>

**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
<b>Total</b>	<b>62,106</b>	<b>34,195</b>	<b>29,971.07</b>	<b>0.9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>



**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
<b>Total</b>	<b>674</b>	<b>818</b>	<b>847.2</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Cont. 5.14 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) During Long 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	.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
<b>Total</b>	<b>283</b>	<b>33</b>	<b>180.08</b>	<b>5.5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,730</b>	<b>452</b>	<b>1,515.59</b>	<b>3.3</b>

**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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**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
<b>Total</b>	<b>979</b>	<b>103</b>	<b>885.94</b>	<b>8.6</b>	<b>3,336</b>	<b>638</b>	<b>11,996</b>	<b>18.8</b>	<b>1,346</b>	<b>301</b>	<b>594.34</b>	<b>2.0</b>

**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
<b>Total</b>	<b>189</b>	<b>29</b>	<b>139.07</b>	<b>4.9</b>	<b>141</b>	<b>6</b>	<b>11.17</b>	<b>1.8</b>	<b>667</b>	<b>158</b>	<b>496.29</b>	<b>3.1</b>

**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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>.00</b>	<b>.00</b>	<b>0</b>	<b>0</b>	<b>.00</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>.00</b>	<b>0.0</b>

**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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>.00</b>	<b>.00</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>675</b>	<b>365</b>	<b>437</b>	<b>1.2</b>

**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
<b>Total</b>	<b>11,162</b>	<b>9,556</b>	<b>10,637.43</b>	<b>1.1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**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
<b>Total</b>	<b>195,684</b>	<b>225,533</b>	<b>351,013</b>	<b>1.56</b>	<b>34,768</b>	<b>46,486</b>	<b>127,244</b>	<b>2.74</b>	<b>9,031</b>	<b>8,784</b>	<b>8,079</b>	<b>0.92</b>

**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
<b>Total</b>	<b>47</b>	<b>5</b>	<b>1</b>	<b>0.25</b>	<b>13,324</b>	<b>10,999</b>	<b>10,770</b>	<b>0.98</b>	<b>2,378</b>	<b>1,939</b>	<b>3,767</b>	<b>1.94</b>

**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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>35,643</b>	<b>22,534</b>	<b>50,149</b>	<b>2.2</b>	<b>13,713</b>	<b>5,438</b>	<b>13,967</b>	<b>2.57</b>

**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
<b>Total</b>	<b>1,498</b>	<b>422</b>	<b>1,010</b>	<b>2.39</b>	<b>225</b>	<b>46</b>	<b>0</b>	<b>0.00</b>	<b>224</b>	<b>81</b>	<b>52</b>	<b>0.64</b>

**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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>.00</b>	<b>0.0</b>	<b>61,402</b>	<b>38,146</b>	<b>27,662</b>	<b>0.73</b>	<b>2,185</b>	<b>221</b>	<b>92</b>	<b>0.41</b>

**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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>.00</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>.00</b>	<b>0.0</b>	<b>236</b>	<b>33</b>	<b>30</b>	<b>0.90</b>

**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
<b>Total</b>	<b>424</b>	<b>337</b>	<b>313</b>	<b>0.93</b>	<b>48,463</b>	<b>36,774</b>	<b>27,425</b>	<b>0.75</b>	<b>4,796</b>	<b>6,647</b>	<b>3,194</b>	<b>0.48</b>

**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
<b>Total</b>	<b>62,283</b>	<b>34,248</b>	<b>30,042</b>	<b>0.88</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>



**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
<b>Total</b>	<b>674</b>	<b>818</b>	<b>847</b>	<b>1.04</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**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
<b>Total</b>	<b>283</b>	<b>33</b>	<b>180</b>	<b>5.49</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,730</b>	<b>452</b>	<b>1,516</b>	<b>3.35</b>

**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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**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
<b>Total</b>	<b>1,381</b>	<b>130</b>	<b>1,072</b>	<b>8.27</b>	<b>4,139</b>	<b>791</b>	<b>17,941</b>	<b>22.68</b>	<b>1,571</b>	<b>319</b>	<b>628</b>	<b>1.97</b>

**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
<b>Total</b>	<b>189</b>	<b>29</b>	<b>139</b>	<b>4.86</b>	<b>141</b>	<b>6</b>	<b>11</b>	<b>1.77</b>	<b>843</b>	<b>194</b>	<b>1,925</b>	<b>9.93</b>

**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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>.00</b>	<b>.00</b>	<b>0</b>	<b>0</b>	<b>.00</b>	<b>0.0</b>	<b>0</b>	<b>0</b>	<b>.00</b>	<b>0.0</b>

**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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>.00</b>	<b>.00</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>675</b>	<b>365</b>	<b>437</b>	<b>1.20</b>

**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
<b>Total</b>	<b>11,162</b>	<b>9,556</b>	<b>10,637</b>	<b>1.11</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

## **INPUT USE**

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

District	Organic Fertilizer Use						% of Planted area using Organic Fertilizer
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area NOT Applied with Organic 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	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
<b>Total</b>	<b>225</b>	<b>46</b>	<b>2,296</b>	<b>3,004</b>	<b>2,521</b>	<b>3,050</b>	<b>1.5</b>

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

District	Organic Fertilizer Use						% of Planted area using Organic Fertilizer
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area NOT Applied with Organic Fertilizer	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
<b>Total</b>	<b>10,885</b>	<b>11,411</b>	<b>205,120</b>	<b>414,929</b>	<b>216,005</b>	<b>426,340</b>	<b>2.7</b>

**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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>2,521</b>	<b>3,050</b>	<b>2,521</b>	<b>3,050</b>	<b>0.0</b>

**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
<b>Total</b>	<b>20,028</b>	<b>27,723</b>	<b>195,978</b>	<b>398,617</b>	<b>216,005</b>	<b>426,340</b>	<b>6.5</b>

**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
<b>Total</b>	<b>402</b>	<b>152</b>	<b>2,119</b>	<b>2,898</b>	<b>2,521</b>	<b>3,050</b>	<b>5.0</b>

**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
<b>Total</b>	<b>5,581</b>	<b>3,839</b>	<b>210,424</b>	<b>422,501</b>	<b>216,005</b>	<b>426,340</b>	<b>0.9</b>

**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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>2,521</b>	<b>3,050</b>	<b>2,521</b>	<b>3,050</b>	<b>0.0</b>

**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
<b>Total</b>	<b>4,146</b>	<b>3,036</b>	<b>211,859</b>	<b>423,304</b>	<b>216,005</b>	<b>426,340</b>	<b>0.7</b>

**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 Households Using 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
<b>Total</b>	<b>931</b>	<b>617</b>	<b>1,590</b>	<b>2,433</b>	<b>2,521</b>	<b>3,050</b>	<b>20.2</b>



**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
<b>Total</b>	<b>28,772</b>	<b>35,288</b>	<b>187,233</b>	<b>391,051</b>	<b>216,005</b>	<b>426,340</b>	<b>8.3</b>

**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
<b>Total</b>	<b>1,943</b>	<b>2,433</b>	<b>578</b>	<b>617</b>	<b>2,521</b>	<b>3,050</b>	<b>80</b>

**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
<b>Total</b>	<b>212,250</b>	<b>380,646</b>	<b>3,756</b>	<b>45,694</b>	<b>216,005</b>	<b>426,340</b>	<b>89</b>

**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
<b>Total</b>	<b>627</b>	<b>387</b>	<b>1,894</b>	<b>2,663</b>	<b>2,521</b>	<b>3,050</b>	<b>12.7</b>

**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
<b>Total</b>	<b>18,774</b>	<b>16,510</b>	<b>197,231</b>	<b>409,829</b>	<b>216,005</b>	<b>426,340</b>	<b>3.9</b>

**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
<b>Total</b>	<b>225</b>	<b>46</b>	<b>2,296</b>	<b>3,004</b>	<b>2,521</b>	<b>3,050</b>	<b>1.5</b>

**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
<b>Total</b>	<b>9,283</b>	<b>8,270</b>	<b>206,722</b>	<b>418,069</b>	<b>216,005</b>	<b>426,340</b>	<b>1.9</b>

**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
<b>CEREALS</b>		<b>0</b>	<b>0</b>		<b>652</b>	<b>1,058</b>	<b>652</b>	<b>0.0</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>368</b>	<b>706</b>	<b>368</b>	<b>0.0</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>54</b>	<b>176</b>	<b>54</b>	<b>0.0</b>
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
Amaranth	0	0	0	176	36	176	36	0.0
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>	<b>0</b>		<b>143</b>	<b>706</b>	<b>143</b>	<b>0.0</b>
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	176	16	176	16	0.0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>16</b>	<b>176</b>	<b>16</b>	<b>0.0</b>
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>		<b>1,232</b>	<b>2,822</b>	<b>1,232</b>	<b>0.0</b>

**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
<b>CEREALS</b>		<b>0</b>	<b>0</b>		<b>911</b>	<b>900</b>	<b>911</b>	<b>0.0</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>91</b>	<b>225</b>	<b>91</b>	<b>0.0</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>91</b>	<b>225</b>	<b>91</b>	<b>0.0</b>
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
Amaranth	0	0	0	0	0	0	0	0.0
<b>FRUITS &amp; VEGETABLES</b>		<b>46</b>	<b>405,200</b>		<b>46</b>	<b>900</b>	<b>91</b>	<b>50.0</b>
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	0	0	0	0	0.0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
<b>Total</b>	<b>225</b>	<b>46</b>	<b>405,200</b>		<b>1,139</b>	<b>2,251</b>	<b>1,185</b>	<b>3.8</b>

**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
<b>CEREALS</b>		<b>0</b>	<b>0</b>		<b>543</b>	<b>223</b>	<b>543</b>	<b>0.0</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>90</b>	<b>112</b>	<b>90</b>	<b>0.0</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	0	0	0	0	0.0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>		<b>633</b>	<b>335</b>	<b>633</b>	<b>0.0</b>

**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
<b>CEREALS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>ROOTS &amp; TUBERS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>PULSES</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>FRUITS &amp; VEGETABLES</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	0	0	0	0	0.0
<b>CASH CROPS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>

**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
<b>CEREALS</b>		<b>0</b>	<b>0</b>		<b>2,106</b>	<b>2,182</b>	<b>2,106</b>	<b>0.0</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>549</b>	<b>1,042</b>	<b>549</b>	<b>0.0</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>145</b>	<b>402</b>	<b>145</b>	<b>0.0</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>46</b>	<b>405,200</b>		<b>188</b>	<b>1,606</b>	<b>234</b>	<b>0.0</b>
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	176	16	176	16	0.0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>16</b>	<b>176</b>	<b>16</b>	<b>0.0</b>
<b>Total</b>	<b>225</b>	<b>46</b>	<b>405,200</b>		<b>3,004</b>	<b>5,409</b>	<b>3,050</b>	<b>1.5</b>

**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
<b>CEREALS</b>		<b>0</b>	<b>0</b>		<b>652</b>	<b>1,058</b>	<b>652</b>	<b>0.0</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>368</b>	<b>706</b>	<b>368</b>	<b>0.0</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>54</b>	<b>176</b>	<b>54</b>	<b>0.0</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>	<b>0</b>		<b>143</b>	<b>706</b>	<b>143</b>	<b>0.0</b>
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	176	16	176	16	0.0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>16</b>	<b>176</b>	<b>16</b>	<b>0.0</b>
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>		<b>1,232</b>	<b>2,822</b>	<b>1,232</b>	<b>0.0</b>



**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
<b>CEREALS</b>		<b>0</b>	<b>0</b>		<b>911</b>	<b>900</b>	<b>911</b>	<b>0.0</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>91</b>	<b>225</b>	<b>91</b>	<b>0.0</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>91</b>	<b>225</b>	<b>91</b>	<b>0.0</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>	<b>0</b>		<b>91</b>	<b>900</b>	<b>91</b>	<b>0.0</b>
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	0	0	0	0	0.0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>		<b>1,185</b>	<b>2,251</b>	<b>1,185</b>	<b>0.0</b>

**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
<b>CEREALS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>543</b>	<b>223</b>	<b>543</b>	<b>0.0</b>
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
<b>ROOTS &amp; TUBERS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>PULSES</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>90</b>	<b>112</b>	<b>90</b>	<b>0.0</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
Amaranth	0	0	0	0	0	0	0	0.0
<b>FRUITS &amp; VEGETABLES</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	0	0	0	0	0.0
<b>CASH CROPS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>633</b>	<b>335</b>	<b>633</b>	<b>0.0</b>

**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
<b>CEREALS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>ROOTS &amp; TUBERS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>PULSES</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>FRUITS &amp; VEGETABLES</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	0	0	0	0	0.0
<b>CASH CROPS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>

**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
<b>CEREALS</b>		<b>0</b>	<b>0</b>		<b>652</b>		<b>652</b>	<b>0.0</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>1,058</b>	<b>0</b>	<b>0.0</b>
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
<b>PULSES</b>		<b>214</b>	<b>2,646,053</b>		<b>154</b>	<b>706</b>	<b>368</b>	<b>58.3</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>54</b>		<b>54</b>	<b>0.0</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>18</b>	<b>882,018</b>		<b>125</b>		<b>143</b>	<b>12.5</b>
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	176	16	176	16	0.0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>	<b>176</b>	<b>16</b>	<b>176</b>	<b>16</b>	<b>0.0</b>
<b>Total</b>	<b>353</b>	<b>232</b>	<b>3,528,071</b>	<b>2,470</b>	<b>1,000</b>	<b>3,881</b>	<b>1,232</b>	<b>18.8</b>

**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
<b>CEREALS</b>		<b>137</b>	<b>900,444</b>		<b>775</b>		<b>911</b>	<b>15.0</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>1,126</b>	<b>0</b>	<b>0.0</b>
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
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>91</b>	<b>225</b>	<b>91</b>	<b>0.0</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>91</b>		<b>91</b>	<b>0.0</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>18</b>	<b>2,251,110</b>		<b>73</b>		<b>91</b>	<b>20.0</b>
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	0	0	0	0	0.0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
<b>Total</b>	<b>450</b>	<b>155</b>	<b>3,151,554</b>	<b>2,026</b>	<b>1,030</b>	<b>3,602</b>	<b>1,185</b>	<b>13.1</b>

**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
<b>CEREALS</b>		<b>0</b>	<b>0</b>		<b>543</b>		<b>543</b>	<b>0.0</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>223</b>	<b>0</b>	<b>0.0</b>
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
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>90</b>	<b>112</b>	<b>90</b>	<b>0.0</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0.0</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0.0</b>
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	0	0	0	0	0.0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>335</b>	<b>633</b>	<b>559</b>	<b>633</b>	<b>0.0</b>

**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
<b>CEREALS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>ROOTS &amp; TUBERS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>PULSES</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
Amaranth	0	0	0	0	0	0	0	0.0
<b>FRUITS &amp; VEGETABLES</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	0	0	0	0	0.0
<b>CASH CROPS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>

**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
<b>CEREALS</b>		<b>0</b>	<b>0</b>		<b>652</b>		<b>652</b>	<b>0.0</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0.0</b>
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
<b>PULSES</b>		<b>54</b>	<b>882,018</b>		<b>314</b>		<b>368</b>	<b>14.6</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>54</b>		<b>54</b>	<b>0.0</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>80</b>	<b>529,211</b>		<b>62</b>		<b>143</b>	<b>56.3</b>
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	176	16	176	16	0.0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>16</b>		<b>16</b>	<b>0.0</b>
<b>Total</b>	<b>529</b>	<b>134</b>	<b>1,411,228</b>	<b>2,822</b>	<b>1,098</b>	<b>3,352</b>	<b>1,232</b>	<b>10.9</b>



**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
<b>CEREALS</b>		<b>0</b>	<b>0</b>		<b>911</b>		<b>911</b>	<b>0.0</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0.0</b>
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
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>91</b>		<b>91</b>	<b>0.0</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>91</b>		<b>91</b>	<b>0.0</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>18</b>	<b>3,376,665</b>		<b>73</b>		<b>91</b>	<b>20.0</b>
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	0	0	0	0	0.0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0.0</b>
<b>Total</b>	<b>225</b>	<b>18</b>	<b>3,376,665</b>	<b>2,026</b>	<b>1,167</b>	<b>2,251</b>	<b>1,185</b>	<b>1.5</b>

**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
<b>CEREALS</b>		<b>0</b>	<b>0</b>		<b>543</b>		<b>543</b>	<b>0.0</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0.0</b>
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
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>90</b>		<b>90</b>	<b>0.0</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0.0</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0.0</b>
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	0	0	0	0	0.0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0.0</b>
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>335</b>	<b>633</b>	<b>335</b>	<b>633</b>	<b>0.0</b>

**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
<b>CEREALS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>ROOTS &amp; TUBERS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>PULSES</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>FRUITS &amp; VEGETABLES</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	0	0	0	0	0.0
<b>CASH CROPS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>

**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
<b>CEREALS</b>		<b>0</b>	<b>0</b>		<b>652</b>	<b>1,058</b>	<b>652</b>	<b>0.0</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>368</b>	<b>706</b>	<b>368</b>	<b>0.0</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>54</b>		<b>54</b>	<b>0.0</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>	<b>0</b>		<b>143</b>	<b>706</b>	<b>143</b>	<b>0.0</b>
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	176	16	176	16	0.0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>16</b>	<b>176</b>	<b>16</b>	<b>0.0</b>
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>		<b>1,232</b>	<b>2,822</b>	<b>1,232</b>	<b>0.0</b>

**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
<b>CEREALS</b>		<b>0</b>	<b>0</b>		<b>911</b>	<b>900</b>	<b>911</b>	<b>0.0</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>91</b>	<b>225</b>	<b>91</b>	<b>0.0</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>91</b>		<b>91</b>	<b>0.0</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>	<b>0</b>		<b>91</b>	<b>900</b>	<b>91</b>	<b>0.0</b>
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	0	0	0	0	0.0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>		<b>1,185</b>	<b>2,251</b>	<b>1,185</b>	<b>0.0</b>

**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
<b>CEREALS</b>		<b>0</b>	<b>0</b>		<b>543</b>	<b>223</b>	<b>543</b>	<b>0.0</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>90</b>	<b>112</b>	<b>90</b>	<b>0.0</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0.0</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	0	0	0	0	0.0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>		<b>633</b>	<b>335</b>	<b>633</b>	<b>0.0</b>

**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
<b>CEREALS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>ROOTS &amp; TUBERS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>PULSES</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>FRUITS &amp; VEGETABLES</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	0	0	0	0	0.0
<b>CASH CROPS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>

**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							% 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	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
<b>CEREALS</b>		<b>357</b>	<b>4,156,068</b>		<b>295</b>		<b>652</b>	<b>54.76</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
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
<b>PULSES</b>		<b>71</b>	<b>2,116,843</b>		<b>296</b>	<b>706</b>	<b>368</b>	<b>19.42</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>54</b>		<b>54</b>	<b>0</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>143</b>	<b>3,439,869</b>		<b>0</b>		<b>143</b>	<b>100</b>
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	176	16	176	16	0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>16</b>		<b>16</b>	<b>0</b>
<b>Total</b>		<b>571</b>	<b>9,712,780</b>		<b>661</b>		<b>1,232</b>	<b>46.4</b>



**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
<b>CEREALS</b>		<b>0</b>	<b>0</b>		<b>911</b>		<b>911</b>	<b>0.00</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
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
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>91</b>	<b>225</b>	<b>91</b>	<b>0.00</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>91</b>		<b>91</b>	<b>0.00</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>46</b>	<b>1,575,777</b>		<b>46</b>		<b>91</b>	<b>50.00</b>
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
<b>Total</b>	<b>675</b>	<b>46</b>	<b>1,575,777</b>		<b>1,139</b>		<b>1,185</b>	<b>3.8</b>

**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
<b>CEREALS</b>		<b>0</b>	<b>0</b>		<b>543</b>		<b>543</b>	<b>0.00</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
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
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>90</b>	<b>112</b>	<b>90</b>	<b>0.00</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>		<b>633</b>		<b>633</b>	<b>0.0</b>

**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
<b>CEREALS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
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
<b>ROOTS &amp; TUBERS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
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
<b>PULSES</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
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
Amaranth	0	0	0	0	0	0	0	0
<b>FRUITS &amp; VEGETABLES</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
<b>CASH CROPS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**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
<b>CEREALS</b>		<b>295</b>	<b>6,350,528</b>		<b>357</b>	<b>1,058</b>	<b>652</b>	<b>45.2</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>PULSES</b>		<b>296</b>	<b>4,586,493</b>		<b>71</b>	<b>706</b>	<b>368</b>	<b>80.6</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>54</b>	<b>1,764,036</b>		<b>0</b>	<b>176</b>	<b>54</b>	<b>100.0</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>	<b>0</b>		<b>143</b>	<b>706</b>	<b>143</b>	<b>0.0</b>
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	176	16	1,058,421	0	0	176	16	100.0
<b>CASH CROPS</b>		<b>16</b>	<b>1,058,421</b>		<b>0</b>	<b>176</b>	<b>16</b>	<b>100.0</b>
<b>Total</b>	<b>1,411</b>	<b>661</b>	<b>13,759,478</b>		<b>571</b>	<b>2,822</b>	<b>1,232</b>	<b>53.6</b>

**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
<b>CEREALS</b>		<b>911</b>	<b>3,264,109</b>		<b>0</b>	<b>900</b>	<b>911</b>	<b>100.0</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>PULSES</b>		<b>91</b>	<b>450,222</b>		<b>0</b>	<b>225</b>	<b>91</b>	<b>100.0</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>91</b>	<b>450,222</b>		<b>0</b>	<b>225</b>	<b>91</b>	<b>100.0</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>46</b>	<b>2,251,110</b>		<b>46</b>	<b>900</b>	<b>91</b>	<b>50.0</b>
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	0	0	0	0	0.0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
<b>Total</b>	<b>1,576</b>	<b>1,139</b>	<b>6,415,663</b>		<b>46</b>	<b>2,251</b>	<b>1,185</b>	<b>96.2</b>

**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
<b>CEREALS</b>		<b>543</b>	<b>2,346,345</b>		<b>0</b>	<b>223</b>	<b>543</b>	<b>100.0</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>PULSES</b>		<b>90</b>	<b>4,022,305</b>		<b>0</b>	<b>112</b>	<b>90</b>	<b>100.0</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	0	0	0	0	0.0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
<b>Total</b>	<b>335</b>	<b>633</b>	<b>6,368,650</b>		<b>0</b>	<b>335</b>	<b>633</b>	<b>100.0</b>

**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
<b>CEREALS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>ROOTS &amp; TUBERS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>PULSES</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>FRUITS &amp; VEGETABLES</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	0	0	0	0	0.0
<b>CASH CROPS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>

**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
<b>CEREALS</b>		<b>0</b>		<b>652</b>		<b>652</b>	<b>0.0</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
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
<b>PULSES</b>		<b>0</b>		<b>368</b>		<b>368</b>	<b>0.0</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>		<b>54</b>		<b>54</b>	<b>0.0</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>		<b>143</b>		<b>143</b>	<b>0.0</b>
Cotton	0	0	0	0	0	0	0
Tobacco	0	0	176	16	176	16	0.0
<b>CASH CROPS</b>		<b>0</b>		<b>16</b>		<b>16</b>	<b>0.0</b>
<b>Total</b>		<b>0</b>		<b>1,232</b>		<b>1,232</b>	<b>0.0</b>



**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
<b>CEREALS</b>		<b>0</b>		<b>911</b>		<b>911</b>	<b>0</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
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
<b>PULSES</b>		<b>0</b>		<b>91</b>		<b>91</b>	<b>0</b>
Sunflower	0	0	225	91	225	91	0
Simsim	0	0	0	0	0	0	0
Groundnut	0	0	0	0	0	0	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>		<b>91</b>		<b>91</b>	<b>0</b>
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
Amaranth	0	0	0	0	0	0	0
<b>FRUITS &amp; VEGETABLES</b>		<b>46</b>		<b>46</b>		<b>91</b>	<b>50</b>
Cotton	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
<b>Total</b>		<b>46</b>		<b>1,139</b>		<b>1,185</b>	<b>3.8</b>

**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
<b>CEREALS</b>		<b>0</b>		<b>543</b>		<b>543</b>	<b>0.0</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
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
<b>PULSES</b>		<b>0</b>		<b>90</b>		<b>90</b>	<b>0.0</b>
Sunflower	0	0	0	0	0	0	0
Simsim	0	0	0	0	0	0	0
Groundnut	0	0	0	0	0	0	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
Cotton	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
<b>Total</b>		<b>0</b>		<b>633</b>		<b>633</b>	<b>0.0</b>

**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
<b>CEREALS</b>		<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
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
<b>PULSES</b>		<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
Sunflower	0	0	0	0	0	0	0
Simsim	0	0	0	0	0	0	0
Groundnut	0	0	0	0	0	0	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
Cotton	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
<b>Total</b>		<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>

**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
<b>CEREALS</b>		<b>300</b>	<b>10,231,406</b>		<b>84,831</b>	<b>81,675</b>	<b>85,131</b>	<b>0.4</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>71</b>	<b>3,175,264</b>		<b>4,249</b>	<b>10,231</b>	<b>4,321</b>	<b>0.0</b>
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
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>4,024</b>	<b>7,938</b>	<b>4,024</b>	<b>0.0</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>34,152</b>	<b>43,924</b>	<b>34,152</b>	<b>0.0</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>CASH CROPS</b>		<b>286</b>	<b>158,763,204</b>		<b>9,088</b>	<b>10,937</b>	<b>9,374</b>	<b>3.0</b>
<b>Total</b>	<b>529</b>	<b>657</b>	<b>172,169,875</b>		<b>136,345</b>	<b>154,706</b>	<b>137,002</b>	<b>0.5</b>

**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
<b>CEREALS</b>		<b>2,734</b>	<b>89,369,067</b>		<b>128,194</b>	<b>104,226</b>	<b>130,928</b>	<b>2.1</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>743</b>	<b>2,701</b>	<b>743</b>	<b>0.0</b>
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
<b>PULSES</b>		<b>638</b>	<b>97,247,952</b>		<b>18,344</b>	<b>29,039</b>	<b>18,982</b>	<b>3.4</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>365</b>	<b>18,459,102</b>		<b>28,892</b>	<b>45,247</b>	<b>29,256</b>	<b>1.2</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>	<b>0</b>		<b>1,322</b>	<b>3,377</b>	<b>1,322</b>	<b>0.0</b>
Cotton	0	0	0	675	365	675	365	0.0
Tobacco	0	0	0	225	182	225	182	0.0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>547</b>	<b>900</b>	<b>547</b>	<b>0.0</b>
<b>Total</b>	<b>3,152</b>	<b>3,737</b>	<b>205,076,121</b>		<b>178,041</b>	<b>185,491</b>	<b>181,778</b>	<b>2.1</b>

**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
<b>CEREALS</b>		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
<b>ROOTS &amp; TUBERS</b>		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
<b>PULSES</b>		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
<b>OIL SEEDS &amp; OIL NUTS</b>		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
<b>FRUITS &amp; VEGETABLES</b>		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
<b>CASH CROPS</b>		0	0		0	0	0	0.0
<b>Total</b>	<b>2,011</b>	<b>1,973</b>	<b>53,736,878</b>		<b>77,340</b>	<b>83,128</b>	<b>79,313</b>	<b>2.5</b>

**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
<b>CEREALS</b>		<b>4,073</b>	<b>115,898,373</b>		<b>14,565</b>	<b>2,923</b>	<b>1,921</b>	<b>0.0</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>55</b>	<b>938,122</b>		<b>552</b>	<b>2,121</b>	<b>607</b>	<b>0.0</b>
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
<b>PULSES</b>		<b>442</b>	<b>6,514,995</b>		<b>3,775</b>	<b>11,078</b>	<b>4,217</b>	<b>0.0</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>143</b>	<b>3,582,776</b>		<b>3,845</b>	<b>8,203</b>	<b>3,988</b>	<b>0.0</b>
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
Amaranth	141	16	678,842	189	29	330	44	0.0
<b>FRUITS &amp; VEGETABLES</b>		<b>331</b>	<b>20,294,540</b>		<b>467</b>	<b>5,233</b>	<b>798</b>	<b>0.0</b>
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	0	0	0	0	0.0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
<b>Total</b>	<b>9,287</b>	<b>5,043</b>	<b>147,228,806</b>		<b>23,203</b>	<b>29,558</b>	<b>11,531</b>	<b>0.0</b>

### 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
<b>CEREALS</b>		<b>8,727</b>	<b>256,554,290</b>		<b>282,913</b>	<b>255,839</b>	<b>291,640</b>	<b>3.0</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>126</b>	<b>4,113,386</b>		<b>6,404</b>	<b>16,842</b>	<b>6,530</b>	<b>0.0</b>
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
<b>PULSES</b>		<b>1,113</b>	<b>104,991,985</b>		<b>37,074</b>	<b>63,363</b>	<b>38,188</b>	<b>2.9</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>734</b>	<b>25,449,664</b>		<b>76,791</b>	<b>115,251</b>	<b>77,525</b>	<b>0.0</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>425</b>	<b>28,339,151</b>		<b>2,113</b>	<b>9,503</b>	<b>2,538</b>	<b>0.0</b>
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
<b>CASH CROPS</b>		<b>286</b>	<b>158,763,204</b>		<b>9,635</b>	<b>11,837</b>	<b>9,920</b>	<b>0.0</b>
<b>Total</b>	<b>14,979</b>	<b>11,411</b>	<b>578,211,680</b>		<b>414,929</b>	<b>472,635</b>	<b>426,340</b>	<b>2.7</b>



**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
<b>CEREALS</b>		<b>10,875</b>	<b>1,380,075,612</b>		<b>74,256</b>	<b>83,792</b>	<b>85,131</b>	<b>12.8</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>4,321</b>	<b>10,231</b>	<b>4,321</b>	<b>0.0</b>
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
<b>PULSES</b>		<b>36</b>	<b>0</b>		<b>3,989</b>	<b>7,938</b>	<b>4,024</b>	<b>0.9</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>34,152</b>	<b>43,924</b>	<b>34,152</b>	<b>0.0</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>CASH CROPS</b>		<b>7,927</b>	<b>4,137,527,685</b>		<b>1,446</b>	<b>12,172</b>	<b>9,374</b>	<b>84.6</b>
<b>Total</b>	<b>20,816</b>	<b>18,838</b>	<b>5,517,603,297</b>		<b>118,164</b>	<b>158,058</b>	<b>137,002</b>	<b>13.8</b>

**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
<b>CEREALS</b>		<b>5,924</b>	<b>435,544,762</b>		<b>125,004</b>	<b>104,452</b>	<b>130,928</b>	<b>4.5</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>743</b>	<b>2,701</b>	<b>743</b>	<b>0.0</b>
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
<b>PULSES</b>		<b>456</b>	<b>2,701,332</b>		<b>18,527</b>	<b>29,039</b>	<b>18,982</b>	<b>2.4</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>29,256</b>	<b>45,247</b>	<b>29,256</b>	<b>0.0</b>
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
Amaranth	0	0	0	225	91	225	91	0.0
<b>FRUITS &amp; VEGETABLES</b>		<b>182</b>	<b>11,255,550</b>		<b>1,139</b>	<b>3,377</b>	<b>1,322</b>	<b>13.8</b>
Cotton	0	0	0	675	365	675	365	0.0
Tobacco	0	0	0	225	182	225	182	0.0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>547</b>	<b>900</b>	<b>547</b>	<b>0.0</b>
<b>Total</b>	<b>3,827</b>	<b>6,562</b>	<b>449,501,644</b>		<b>175,216</b>	<b>185,717</b>	<b>181,778</b>	<b>3.6</b>

**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
<b>CEREALS</b>		<b>566</b>	<b>109,496,082</b>		<b>56,378</b>	<b>47,039</b>	<b>56,943</b>	<b>1.0</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>859</b>	<b>1,788</b>	<b>859</b>	<b>0.0</b>
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
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>10,965</b>	<b>15,195</b>	<b>10,965</b>	<b>0.0</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>10,128</b>	<b>17,765</b>	<b>10,128</b>	<b>0.0</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>11</b>	<b>1,005,576</b>		<b>407</b>	<b>782</b>	<b>418</b>	<b>2.7</b>
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	0	0	0	0	0.0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
<b>Total</b>	<b>559</b>	<b>577</b>	<b>110,501,658</b>		<b>78,736</b>	<b>82,569</b>	<b>79,313</b>	<b>0.7</b>

**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
<b>CEREALS</b>		<b>1,577</b>	<b>120,574,556</b>		<b>17,060</b>	<b>2,923</b>	<b>1,921</b>	<b>82.1</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>10</b>	<b>4,007,052</b>		<b>597</b>	<b>1,980</b>	<b>607</b>	<b>1.6</b>
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
<b>PULSES</b>		<b>19</b>	<b>1,178,545</b>		<b>4,198</b>	<b>11,031</b>	<b>4,217</b>	<b>0.5</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>3,988</b>	<b>8,203</b>	<b>3,988</b>	<b>0.0</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>140</b>	<b>16,332,273</b>		<b>658</b>	<b>5,186</b>	<b>798</b>	<b>17.5</b>
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	0	0	0	0	0.0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
<b>Total</b>	<b>2,781</b>	<b>1,745</b>	<b>142,092,426</b>		<b>26,502</b>	<b>29,322</b>	<b>11,531</b>	<b>15.1</b>

**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
<b>CEREALS</b>		<b>179</b>	<b>8,820,178</b>		<b>84,952</b>		<b>85,131</b>	<b>0.2</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>4,321</b>	<b>92,083</b>	<b>4,321</b>	<b>0.0</b>
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
<b>PULSES</b>		<b>107</b>	<b>352,807</b>		<b>3,917</b>	<b>7,938</b>	<b>4,024</b>	<b>2.7</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>34,152</b>		<b>34,152</b>	<b>0.0</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0.0</b>
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
<b>CASH CROPS</b>		<b>3,616</b>	<b>63,011,352</b>	<b>7,409</b>	<b>5,758</b>	<b>13,054</b>	<b>9,374</b>	<b>38.6</b>
<b>Total</b>	<b>6,174</b>	<b>3,901</b>	<b>72,184,337</b>	<b>150,825</b>	<b>133,101</b>	<b>238,850</b>	<b>137,002</b>	<b>2.8</b>

**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
<b>CEREALS</b>		<b>3,418</b>	<b>11,255,550</b>		<b>127,510</b>		<b>130,928</b>	<b>2.6</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>743</b>	<b>106,478</b>	<b>743</b>	<b>0.0</b>
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
<b>PULSES</b>		<b>2,187</b>	<b>42,816,112</b>		<b>16,795</b>	<b>29,264</b>	<b>18,982</b>	<b>11.5</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>11</b>	<b>0</b>		<b>29,245</b>		<b>29,256</b>	<b>0.0</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>64</b>	<b>3,601,776</b>		<b>1,258</b>		<b>1,322</b>	<b>4.8</b>
Cotton	0	0	0	675	365	675	365	0.0
Tobacco	0	0	0	225	182	225	182	0.0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>	<b>900</b>	<b>547</b>	<b>900</b>	<b>547</b>	<b>0.0</b>
<b>Total</b>	<b>4,952</b>	<b>5,680</b>	<b>57,673,438</b>	<b>180,539</b>	<b>176,097</b>	<b>289,268</b>	<b>181,778</b>	<b>3.1</b>

**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
<b>CEREALS</b>		<b>204</b>	<b>1,117,307</b>		<b>56,740</b>		<b>56,943</b>	<b>0.4</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>859</b>	<b>48,603</b>	<b>859</b>	<b>0.0</b>
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
<b>PULSES</b>		<b>68</b>	<b>670,384</b>		<b>10,897</b>	<b>15,195</b>	<b>10,965</b>	<b>0.6</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>10,128</b>		<b>10,128</b>	<b>0.0</b>
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
Amaranth	0	0	0	112	23	112	23	0.0
<b>FRUITS &amp; VEGETABLES</b>		<b>68</b>	<b>5,027,881</b>		<b>351</b>		<b>418</b>	<b>16.2</b>
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	0	0	0	0	0.0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
<b>Total</b>	<b>559</b>	<b>339</b>	<b>6,815,572</b>	<b>81,787</b>	<b>78,974</b>	<b>129,161</b>	<b>79,313</b>	<b>0.4</b>

**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
<b>CEREALS</b>		<b>6,151</b>	<b>31,665,612</b>		<b>12,486</b>		<b>18,637</b>	<b>33.0</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>19</b>	<b>188,567</b>		<b>588</b>	<b>24,419</b>	<b>607</b>	<b>3.1</b>
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
<b>PULSES</b>		<b>128</b>	<b>751,912</b>		<b>4,088</b>	<b>11,125</b>	<b>4,217</b>	<b>3.0</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>57</b>	<b>872,123</b>		<b>3,931</b>		<b>3,988</b>	<b>1.4</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>234</b>	<b>8,164,958</b>		<b>564</b>		<b>798</b>	<b>29.3</b>
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	0	0	0	0	0.0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
<b>Total</b>	<b>9,664</b>	<b>6,590</b>	<b>41,643,171</b>	<b>39,363</b>	<b>21,657</b>	<b>71,467</b>	<b>28,247</b>	<b>23.3</b>



**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
<b>CEREALS</b>		<b>107</b>	<b>0</b>		<b>85,024</b>		<b>85,131</b>	<b>0.1</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>4,321</b>		<b>4,321</b>	<b>0.0</b>
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
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>4,024</b>		<b>4,024</b>	<b>0.0</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>34,152</b>		<b>34,152</b>	<b>0.0</b>
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
Amaranth	0	0	0	0	0	0	0	0.0
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0.0</b>
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
<b>CASH CROPS</b>		<b>1,089</b>	<b>7,867,599</b>		<b>8,285</b>		<b>9,374</b>	<b>11.6</b>
<b>Total</b>	<b>2,117</b>	<b>1,196</b>	<b>7,867,599</b>	<b>153,824</b>	<b>135,806</b>	<b>155,941</b>	<b>137,002</b>	<b>0.9</b>

**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
<b>CEREALS</b>		<b>1,549</b>	<b>9,139,507</b>		<b>129,379</b>		<b>130,928</b>	<b>1.2</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>743</b>		<b>743</b>	<b>0.0</b>
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
<b>PULSES</b>		<b>46</b>	<b>2,251,110</b>		<b>18,937</b>		<b>18,982</b>	<b>0.2</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>342</b>	<b>0</b>		<b>28,914</b>		<b>29,256</b>	<b>1.2</b>
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
Amaranth	0	0	0	225	91	225	91	0.0
<b>FRUITS &amp; VEGETABLES</b>		<b>337</b>	<b>12,831,327</b>		<b>984</b>		<b>1,322</b>	<b>25.5</b>
Cotton	0	0	0	675	365	675	365	0.0
Tobacco	0	0	0	225	182	225	182	0.0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>547</b>		<b>547</b>	<b>0.0</b>
<b>Total</b>	<b>2,251</b>	<b>2,274</b>	<b>24,221,944</b>	<b>183,240</b>	<b>179,504</b>	<b>185,491</b>	<b>181,778</b>	<b>1.3</b>

**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
<b>CEREALS</b>		<b>0</b>	<b>0</b>		<b>56,943</b>		<b>56,943</b>	<b>0.0</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>859</b>		<b>859</b>	<b>0.0</b>
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
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>10,965</b>		<b>10,965</b>	<b>0.0</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>10,128</b>		<b>10,128</b>	<b>0.0</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>113</b>	<b>8,938,456</b>		<b>305</b>		<b>418</b>	<b>27.0</b>
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	0	0	0	0	0.0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0.0</b>
<b>Total</b>	<b>335</b>	<b>113</b>	<b>8,938,456</b>	<b>81,899</b>	<b>79,200</b>	<b>82,234</b>	<b>79,313</b>	<b>0.1</b>

**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
<b>CEREALS</b>		<b>0</b>	<b>0</b>		<b>18,637</b>		<b>18,637</b>	<b>0.0</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>607</b>		<b>607</b>	<b>0.0</b>
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
<b>PULSES</b>		<b>38</b>	<b>235,709</b>		<b>4,179</b>		<b>4,217</b>	<b>0.9</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>32</b>	<b>0</b>		<b>3,956</b>		<b>3,988</b>	<b>0.8</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>186</b>	<b>9,612,211</b>		<b>612</b>		<b>798</b>	<b>23.3</b>
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	0	0	0	0	0.0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0.0</b>
<b>Total</b>	<b>1,273</b>	<b>256</b>	<b>9,847,920</b>	<b>46,246</b>	<b>27,991</b>	<b>47,519</b>	<b>28,247</b>	<b>0.9</b>

**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
<b>CEREALS</b>		<b>107</b>	<b>0</b>		<b>85,024</b>		<b>85,131</b>	<b>0.1</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>4,321</b>		<b>4,321</b>	<b>0.0</b>
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
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>4,024</b>		<b>4,024</b>	<b>0.0</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>34,152</b>		<b>34,152</b>	<b>0.0</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0.0</b>
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
<b>CASH CROPS</b>		<b>1,089</b>	<b>7,867,599</b>		<b>8,285</b>		<b>9,374</b>	<b>11.6</b>
<b>Total</b>	<b>2,117</b>	<b>1,196</b>	<b>7,867,599</b>	<b>153,824</b>	<b>135,806</b>	<b>155,941</b>	<b>137,002</b>	<b>0.9</b>

**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
<b>CEREALS</b>		<b>0</b>	<b>0</b>		<b>130,928</b>		<b>130,928</b>	<b>0.0</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>743</b>		<b>743</b>	<b>0.0</b>
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
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>18,982</b>		<b>18,982</b>	<b>0.0</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>29,256</b>		<b>29,256</b>	<b>0.0</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>	<b>0</b>		<b>1,322</b>		<b>1,322</b>	<b>0.0</b>
Cotton	0	0	0	675	365	675	365	0.0
Tobacco	0	0	0	225	182	225	182	0.0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>547</b>		<b>547</b>	<b>0.0</b>
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>184,816</b>	<b>181,778</b>	<b>184,816</b>	<b>181,778</b>	<b>0.0</b>

**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
<b>CEREALS</b>		<b>229</b>	<b>3,351,921</b>		<b>56,714</b>		<b>56,943</b>	<b>0.4</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>859</b>		<b>859</b>	<b>0.0</b>
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
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>10,965</b>		<b>10,965</b>	<b>0.0</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>10,128</b>		<b>10,128</b>	<b>0.0</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>11</b>	<b>223,461</b>		<b>407</b>		<b>418</b>	<b>2.7</b>
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	0	0	0	0	0.0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0.0</b>
<b>Total</b>	<b>335</b>	<b>240</b>	<b>3,575,382</b>	<b>82,010</b>	<b>79,073</b>	<b>82,234</b>	<b>79,313</b>	<b>0.3</b>

**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
<b>CEREALS</b>		<b>48</b>	<b>1,414,254</b>		<b>18,590</b>		<b>18,637</b>	<b>0.3</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>607</b>		<b>607</b>	<b>0.0</b>
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
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>4,217</b>		<b>4,217</b>	<b>0.0</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>3,988</b>		<b>3,988</b>	<b>0.0</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>34</b>	<b>452,561</b>		<b>763</b>		<b>798</b>	<b>4.3</b>
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	0	0	0	0	0.0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0.0</b>
<b>Total</b>	<b>377</b>	<b>82</b>	<b>1,866,815</b>	<b>47,189</b>	<b>28,165</b>	<b>47,519</b>	<b>28,247</b>	<b>0.3</b>



**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
<b>CEREALS</b>		<b>8,251</b>	<b>201,474,034</b>		<b>76,880</b>		<b>85,131</b>	<b>9.69</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>4,321</b>		<b>4,321</b>	<b>0</b>
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
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>4,024</b>	<b>7,938</b>	<b>4,024</b>	<b>0.00</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>1,714</b>	<b>42,777,863</b>		<b>32,438</b>		<b>34,152</b>	<b>5.02</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0.00</b>
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
<b>CASH CROPS</b>		<b>7,463</b>	<b>744,728,907</b>		<b>1,910</b>		<b>9,374</b>	<b>79.62</b>
<b>Total</b>	<b>19,757</b>	<b>17,428</b>	<b>988,980,805</b>		<b>119,574</b>		<b>137,002</b>	<b>12.7</b>

**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
<b>CEREALS</b>		<b>11,438</b>	<b>218,717,847</b>		<b>119,490</b>		<b>130,928</b>	<b>8.74</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>743</b>		<b>743</b>	<b>0</b>
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
<b>PULSES</b>		<b>91</b>	<b>3,038,998</b>		<b>18,891</b>	<b>29,039</b>	<b>18,982</b>	<b>0.48</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>501</b>	<b>7,203,552</b>		<b>28,755</b>		<b>29,256</b>	<b>1.71</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>535</b>	<b>31,515,540</b>		<b>786</b>		<b>1,322</b>	<b>40.52</b>
Cotton	0	0	0	675	365	675	365	0
Tobacco	0	0	0	225	182	225	182	0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>547</b>		<b>547</b>	<b>0</b>
<b>Total</b>	<b>7,879</b>	<b>12,566</b>	<b>260,475,937</b>		<b>169,212</b>		<b>181,778</b>	<b>6.9</b>

**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
<b>CEREALS</b>		<b>1,670</b>	<b>21,921,562</b>		<b>55,274</b>		<b>56,943</b>	<b>2.93</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>859</b>		<b>859</b>	<b>0</b>
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
<b>PULSES</b>		<b>68</b>	<b>4,916,151</b>		<b>10,897</b>	<b>15,195</b>	<b>10,965</b>	<b>0.62</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>90</b>	<b>446,923</b>		<b>10,037</b>		<b>10,128</b>	<b>1</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>124</b>	<b>2,513,941</b>		<b>294</b>		<b>418</b>	<b>30</b>
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
<b>Total</b>	<b>1,564</b>	<b>1,952</b>	<b>29,798,576</b>		<b>77,361</b>		<b>79,313</b>	<b>2.5</b>

**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
<b>CEREALS</b>		<b>2,249</b>	<b>81,826,362</b>		<b>16,389</b>		<b>18,637</b>	<b>12</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>98</b>	<b>9,569,783</b>		<b>509</b>		<b>607</b>	<b>16</b>
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
<b>PULSES</b>		<b>123</b>	<b>7,436,617</b>		<b>4,093</b>	<b>11,031</b>	<b>4,217</b>	<b>3</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>439</b>	<b>8,361,775</b>		<b>3,549</b>		<b>3,988</b>	<b>11</b>
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
Amaranth	47	10	94,284	283	35	330	44	22
<b>FRUITS &amp; VEGETABLES</b>		<b>434</b>	<b>39,427,507</b>		<b>364</b>		<b>798</b>	<b>54</b>
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
<b>Total</b>	<b>7,166</b>	<b>3,343</b>	<b>146,622,044</b>		<b>24,904</b>		<b>28,247</b>	<b>12</b>

**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
<b>CEREALS</b>		<b>73,736</b>	<b>810,910,760</b>		<b>11,395</b>	<b>81,675</b>	<b>85,131</b>	<b>86.6</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>4,098</b>	<b>144,592,706</b>		<b>223</b>	<b>10,231</b>	<b>4,321</b>	<b>94.8</b>
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
<b>PULSES</b>		<b>3,949</b>	<b>227,526,370</b>		<b>75</b>	<b>7,938</b>	<b>4,024</b>	<b>98.1</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>31,949</b>	<b>745,278,581</b>		<b>2,203</b>	<b>43,924</b>	<b>34,152</b>	<b>93.5</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
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
<b>CASH CROPS</b>		<b>1,750</b>	<b>236,380,771</b>		<b>7,624</b>	<b>10,937</b>	<b>9,374</b>	<b>18.7</b>
<b>Total</b>	<b>134,949</b>	<b>115,482</b>	<b>2,164,689,188</b>		<b>21,520</b>	<b>154,706</b>	<b>137,002</b>	<b>84.3</b>

**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
<b>CEREALS</b>		<b>116,458</b>	<b>1,126,962,166</b>		<b>14,470</b>	<b>103,551</b>	<b>130,928</b>	<b>88.9</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>735</b>	<b>21,723,211</b>		<b>8</b>	<b>2,701</b>	<b>743</b>	<b>98.9</b>
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
<b>PULSES</b>		<b>18,129</b>	<b>786,561,694</b>		<b>853</b>	<b>29,039</b>	<b>18,982</b>	<b>95.5</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>27,262</b>	<b>427,373,232</b>		<b>1,994</b>	<b>45,247</b>	<b>29,256</b>	<b>93.2</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>775</b>	<b>28,138,875</b>		<b>547</b>	<b>3,377</b>	<b>1,322</b>	<b>58.6</b>
Cotton	675	365	45,048,763	0	0	675	365	100.0
Tobacco	225	182	2,363,665	0	0	225	182	100.0
<b>CASH CROPS</b>		<b>547</b>	<b>47,412,428</b>		<b>0</b>	<b>900</b>	<b>547</b>	<b>100.0</b>
<b>Total</b>	<b>176,937</b>	<b>163,906</b>	<b>2,438,171,607</b>		<b>17,872</b>	<b>184,816</b>	<b>181,778</b>	<b>90.2</b>

**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
<b>CEREALS</b>		<b>54,900</b>	<b>447,736,852</b>		<b>2,043</b>	<b>46,703</b>	<b>56,943</b>	<b>96.4</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>859</b>	<b>27,709,212</b>		<b>0</b>	<b>1,788</b>	<b>859</b>	<b>100.0</b>
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
<b>PULSES</b>		<b>10,867</b>	<b>364,962,618</b>		<b>98</b>	<b>15,195</b>	<b>10,965</b>	<b>99.1</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>10,015</b>	<b>200,643,190</b>		<b>113</b>	<b>17,765</b>	<b>10,128</b>	<b>98.9</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>294</b>	<b>2,234,614</b>		<b>124</b>	<b>782</b>	<b>418</b>	<b>70.3</b>
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	0	0	0	0	0.0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
<b>Total</b>	<b>80,670</b>	<b>76,935</b>	<b>1,043,286,486</b>		<b>2,378</b>	<b>82,234</b>	<b>79,313</b>	<b>97.0</b>

**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
<b>CEREALS</b>		<b>15,914</b>	<b>337,956,285</b>		<b>2,723</b>	<b>21,120</b>	<b>18,637</b>	<b>85.4</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>507</b>	<b>23,401,184</b>		<b>100</b>	<b>1,980</b>	<b>607</b>	<b>83.5</b>
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
<b>PULSES</b>		<b>4,041</b>	<b>133,611,618</b>		<b>176</b>	<b>11,031</b>	<b>4,217</b>	<b>95.8</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>3,511</b>	<b>44,212,352</b>		<b>477</b>	<b>8,203</b>	<b>3,988</b>	<b>88.0</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>351</b>	<b>26,998,103</b>		<b>447</b>	<b>5,186</b>	<b>798</b>	<b>43.9</b>
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	0	0	0	0	0.0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
<b>Total</b>	<b>40,353</b>	<b>24,323</b>	<b>566,179,542</b>		<b>3,924</b>	<b>47,519</b>	<b>28,247</b>	<b>86.1</b>



**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
<b>CEREALS</b>		<b>214</b>		<b>84,917</b>		<b>85,131</b>	<b>0.3</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>71</b>		<b>4,249</b>		<b>4,321</b>	<b>0</b>
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
<b>PULSES</b>		<b>107</b>		<b>3,917</b>		<b>4,024</b>	<b>2.7</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>		<b>34,152</b>		<b>34,152</b>	<b>0.0</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>		<b>0</b>		<b>-</b>	<b>0.0</b>
Cotton	0	0	0	0	0	0	0
Tobacco	706	643	10,231	8,731	10,937	9,374	6.9
<b>CASH CROPS</b>		<b>643</b>		<b>8,731</b>		<b>9,374</b>	<b>6.9</b>
<b>Total</b>		<b>1,036</b>		<b>135,966</b>		<b>137,002</b>	<b>0.8</b>

**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
<b>CEREALS</b>		<b>5,377</b>		<b>125,551</b>		<b>130,928</b>	<b>4.1</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>46</b>		<b>697</b>		<b>743</b>	<b>6</b>
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
<b>PULSES</b>		<b>0</b>		<b>18,982</b>		<b>18,982</b>	<b>0.0</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>		<b>29,256</b>		<b>29,256</b>	<b>0.0</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>228</b>		<b>1,094</b>		<b>1,322</b>	<b>17.2</b>
Cotton	0	0	675	365	675	365	0.0
Tobacco	0	0	225	182	225	182	0.0
<b>CASH CROPS</b>		<b>0</b>		<b>547</b>		<b>547</b>	<b>0.0</b>
<b>Total</b>		<b>5,651</b>		<b>176,127</b>		<b>181,778</b>	<b>3.1</b>

**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
<b>CEREALS</b>		<b>181</b>		<b>56,762</b>		<b>56,943</b>	<b>0.3</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>0</b>		<b>859</b>		<b>859</b>	<b>0</b>
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
<b>PULSES</b>		<b>0</b>		<b>10,965</b>		<b>10,965</b>	<b>0.0</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>271</b>		<b>9,856</b>		<b>10,128</b>	<b>3</b>
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
<b>FRUITS &amp; VEGETABLES</b>		<b>37</b>		<b>382</b>		<b>418</b>	<b>9</b>
Cotton	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
<b>Total</b>		<b>489</b>		<b>78,824</b>		<b>79,313</b>	<b>0.6</b>

**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
<b>CEREALS</b>		<b>500</b>		<b>18,138</b>		<b>18,637</b>	<b>3</b>
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
<b>ROOTS &amp; TUBERS</b>		<b>47</b>		<b>559</b>		<b>607</b>	<b>8</b>
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
<b>PULSES</b>		<b>138</b>		<b>4,078</b>		<b>4,217</b>	<b>3</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>1</b>		<b>3,988</b>		<b>3,988</b>	<b>0</b>
Okra	0	0	0	0	0	0	0
Bitter 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
<b>FRUITS &amp; VEGETABLES</b>		<b>409</b>		<b>388</b>		<b>798</b>	<b>51</b>
Cotton	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
<b>Total</b>		<b>1,095</b>		<b>27,152</b>		<b>28,247</b>	<b>4</b>

## **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
<b>Total</b>	<b>2,296</b>	<b>91</b>	<b>225</b>	<b>9</b>	<b>2,521</b>	<b>179,723</b>	<b>83</b>	<b>36,282</b>	<b>17</b>	<b>216,005</b>

**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
<b>CEREALS</b>	<b>529</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>176</b>	<b>353</b>
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
<b>ROOTS &amp; TUBERS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
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
<b>PULSES</b>	<b>176</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>176</b>	<b>176</b>	<b>176</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>176</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
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
<b>FRUITS &amp; VEGETABLES</b>	<b>353</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>353</b>	<b>0</b>
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
<b>CASH CROPS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>176</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total</b>	<b>1,235</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>176</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>176</b>	<b>706</b>	<b>529</b>

**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
<b>CEREALS</b>	<b>18,346</b>	<b>3,352</b>	<b>7,409</b>	<b>176</b>	<b>1,764</b>	<b>0</b>	<b>176</b>	<b>0</b>	<b>706</b>	<b>1,764</b>	<b>5,116</b>	<b>42,866</b>
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
<b>ROOTS &amp; TUBERS</b>	<b>2,646</b>	<b>353</b>	<b>706</b>	<b>353</b>	<b>353</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>176</b>	<b>353</b>	<b>5,292</b>
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
<b>PULSES</b>	<b>1,588</b>	<b>706</b>	<b>176</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>176</b>	<b>0</b>	<b>0</b>	<b>176</b>	<b>706</b>	<b>4,410</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>19,228</b>	<b>3,175</b>	<b>4,586</b>	<b>176</b>	<b>1,764</b>	<b>0</b>	<b>176</b>	<b>0</b>	<b>0</b>	<b>3,528</b>	<b>2,470</b>	<b>8,820</b>
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
<b>FRUITS &amp; VEGETABLES</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
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
<b>CASH CROPS</b>	<b>5,116</b>	<b>0</b>	<b>353</b>	<b>0</b>	<b>0</b>	<b>353</b>	<b>1,411</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,352</b>	<b>353</b>
<b>Total</b>	<b>46,923</b>	<b>7,585</b>	<b>13,230</b>	<b>706</b>	<b>3,881</b>	<b>353</b>	<b>1,940</b>	<b>0</b>	<b>706</b>	<b>5,645</b>	<b>11,995</b>	<b>61,741</b>



**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 Regulatory 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
<b>CEREALS</b>	<b>450</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>225</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>225</b>
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
<b>ROOTS &amp; TUBERS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
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
<b>PULSES</b>	<b>225</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>225</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
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
<b>FRUITS &amp; VEGETABLES</b>	<b>900</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
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
<b>CASH CROPS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total</b>	<b>1,576</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>450</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>225</b>

**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 Regulatory 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
<b>CEREALS</b>	<b>60,330</b>	<b>1,576</b>	<b>6,078</b>	<b>900</b>	<b>2,251</b>	<b>225</b>	<b>450</b>	<b>0</b>	<b>450</b>	<b>1,801</b>	<b>2,701</b>	<b>26,788</b>
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
<b>ROOTS &amp; TUBERS</b>	<b>900</b>	<b>225</b>	<b>450</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>225</b>	<b>900</b>
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
<b>PULSES</b>	<b>16,208</b>	<b>225</b>	<b>900</b>	<b>225</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>900</b>	<b>1,351</b>	<b>9,230</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>31,290</b>	<b>675</b>	<b>2,026</b>	<b>450</b>	<b>675</b>	<b>225</b>	<b>0</b>	<b>450</b>	<b>0</b>	<b>1,801</b>	<b>1,126</b>	<b>6,528</b>
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
<b>FRUITS &amp; VEGETABLES</b>	<b>2,926</b>	<b>0</b>	<b>0</b>	<b>225</b>	<b>225</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
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
<b>CASH CROPS</b>	<b>900</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total</b>	<b>112,555</b>	<b>2,701</b>	<b>9,455</b>	<b>1,801</b>	<b>3,152</b>	<b>450</b>	<b>450</b>	<b>450</b>	<b>450</b>	<b>4,502</b>	<b>5,403</b>	<b>43,446</b>

**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
<b>CEREALS</b>	<b>223</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
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
<b>ROOTS &amp; TUBERS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
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
<b>PULSES</b>	<b>112</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
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
<b>FRUITS &amp; VEGETABLES</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
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
<b>CASH CROPS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total</b>	<b>335</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**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
<b>CEREALS</b>	<b>28,491</b>	<b>1,452</b>	<b>1,117</b>	<b>223</b>	<b>4,246</b>	<b>112</b>	<b>0</b>	<b>223</b>	<b>112</b>	<b>335</b>	<b>5,587</b>	<b>4,804</b>
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
<b>ROOTS &amp; TUBERS</b>	<b>559</b>	<b>0</b>	<b>223</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>447</b>	<b>559</b>
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
<b>PULSES</b>	<b>7,039</b>	<b>1,006</b>	<b>112</b>	<b>0</b>	<b>2,570</b>	<b>0</b>	<b>0</b>	<b>112</b>	<b>112</b>	<b>0</b>	<b>894</b>	<b>3,352</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>9,721</b>	<b>1,117</b>	<b>223</b>	<b>112</b>	<b>223</b>	<b>112</b>	<b>0</b>	<b>223</b>	<b>0</b>	<b>335</b>	<b>2,793</b>	<b>2,905</b>
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
<b>FRUITS &amp; VEGETABLES</b>	<b>335</b>	<b>0</b>	<b>112</b>	<b>0</b>	<b>223</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>112</b>	<b>0</b>
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
<b>CASH CROPS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total</b>	<b>46,145</b>	<b>3,575</b>	<b>1,788</b>	<b>335</b>	<b>7,262</b>	<b>223</b>	<b>0</b>	<b>559</b>	<b>223</b>	<b>670</b>	<b>9,832</b>	<b>11,620</b>

**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 Regulatory 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
<b>CEREALS</b>	<b>8,910</b>	<b>849</b>	<b>1,839</b>	<b>0</b>	<b>1,037</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>47</b>	<b>471</b>	<b>2,593</b>	<b>5,374</b>
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
<b>ROOTS &amp; TUBERS</b>	<b>660</b>	<b>47</b>	<b>660</b>	<b>0</b>	<b>141</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>377</b>	<b>94</b>
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
<b>PULSES</b>	<b>4,101</b>	<b>283</b>	<b>1,037</b>	<b>0</b>	<b>613</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>47</b>	<b>94</b>	<b>1,273</b>	<b>3,583</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>4,101</b>	<b>236</b>	<b>377</b>	<b>0</b>	<b>283</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>47</b>	<b>283</b>	<b>1,179</b>	<b>1,697</b>
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
<b>FRUITS &amp; VEGETABLES</b>	<b>2,593</b>	<b>424</b>	<b>613</b>	<b>0</b>	<b>519</b>	<b>0</b>	<b>47</b>	<b>47</b>	<b>0</b>	<b>47</b>	<b>754</b>	<b>141</b>
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
<b>CASH CROPS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total</b>	<b>20,365</b>	<b>1,839</b>	<b>4,526</b>	<b>0</b>	<b>2,593</b>	<b>0</b>	<b>47</b>	<b>47</b>	<b>141</b>	<b>896</b>	<b>6,176</b>	<b>10,890</b>

**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 Regulatory 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
<b>CEREALS</b>	<b>1,203</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>225</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>176</b>	<b>578</b>
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
<b>ROOTS &amp; TUBERS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
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
<b>PULSES</b>	<b>513</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>176</b>	<b>176</b>	<b>176</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>176</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>225</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
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
<b>FRUITS &amp; VEGETABLES</b>	<b>1,253</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>353</b>	<b>0</b>
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
<b>CASH CROPS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>176</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total</b>	<b>3,146</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>627</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>176</b>	<b>706</b>	<b>754</b>

**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
<b>CEREALS</b>	<b>116,077</b>	<b>7,228</b>	<b>16,443</b>	<b>1,300</b>	<b>9,298</b>	<b>337</b>	<b>627</b>	<b>223</b>	<b>1,315</b>	<b>4,372</b>	<b>15,996</b>	<b>79,833</b>
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
<b>ROOTS &amp; TUBERS</b>	<b>4,765</b>	<b>625</b>	<b>2,039</b>	<b>353</b>	<b>494</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>176</b>	<b>1,402</b>	<b>6,845</b>
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
<b>PULSES</b>	<b>28,936</b>	<b>2,219</b>	<b>2,226</b>	<b>225</b>	<b>3,183</b>	<b>0</b>	<b>176</b>	<b>112</b>	<b>159</b>	<b>1,171</b>	<b>4,223</b>	<b>20,574</b>
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
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>64,340</b>	<b>5,204</b>	<b>7,213</b>	<b>738</b>	<b>2,946</b>	<b>337</b>	<b>176</b>	<b>674</b>	<b>47</b>	<b>5,947</b>	<b>7,567</b>	<b>19,950</b>
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
<b>FRUITS &amp; VEGETABLES</b>	<b>5,854</b>	<b>424</b>	<b>725</b>	<b>225</b>	<b>967</b>	<b>0</b>	<b>47</b>	<b>47</b>	<b>0</b>	<b>47</b>	<b>866</b>	<b>141</b>
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
<b>CASH CROPS</b>	<b>6,016</b>	<b>0</b>	<b>353</b>	<b>0</b>	<b>0</b>	<b>353</b>	<b>1,411</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,352</b>	<b>353</b>
<b>Total</b>	<b>225,989</b>	<b>15,701</b>	<b>28,998</b>	<b>2,842</b>	<b>16,888</b>	<b>1,026</b>	<b>2,438</b>	<b>1,056</b>	<b>1,521</b>	<b>11,713</b>	<b>33,406</b>	<b>127,697</b>

**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
<b>Total</b>	<b>44,983</b>	<b>20</b>	<b>181,267</b>	<b>80.1</b>	<b>226,250</b>	<b>100.0</b>

**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
<b>Total</b>	<b>35,304</b>	<b>22,734</b>	<b>11,906</b>	<b>5,153</b>	<b>44,760</b>	<b>27,887</b>	<b>22,125</b>

**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
<b>Total</b>	<b>16,229</b>	<b>7,983</b>	<b>6,270</b>	<b>28,177</b>	<b>28,177,293</b>	<b>4.49</b>	<b>4,493.95</b>

**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
<b>Total</b>	<b>17,559</b>	<b>8,934</b>	<b>7,460</b>	<b>27,563</b>	<b>27,563,041</b>	<b>3.69</b>	<b>3,694.71</b>

**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
<b>Total</b>	<b>16,760</b>	<b>10,225</b>	<b>7,863</b>	<b>31,510</b>	<b>31,509,844</b>	<b>4.01</b>	<b>4,007.61</b>

**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
<b>Total</b>	<b>4,573</b>	<b>746</b>	<b>532</b>	<b>8,967</b>	<b>8,967,264</b>	<b>16.85</b>	<b>16,852.91</b>

**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
<b>Total</b>	<b>5,266</b>	<b>2,620</b>	<b>2,674</b>	<b>128</b>	<b>7,363</b>	<b>2,747</b>	<b>1,965</b>	<b>15,309</b>	<b>47</b>	<b>19</b>	<b>0</b>	<b>0</b>	<b>47</b>	<b>19</b>	<b>19</b>	<b>1</b>

**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
<b>Total</b>	<b>803</b>	<b>370</b>	<b>2,777</b>	<b>233</b>	<b>3,227</b>	<b>603</b>	<b>430</b>	<b>2,092</b>	<b>0</b>	<b>.</b>	<b>225</b>	<b>5</b>	<b>225</b>	<b>5</b>	<b>0</b>	<b>0</b>

**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
Sumbawang a 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
Sumbawang a Urban	0	.	189	101	189	101	12	52	707	213	94	22	754	236	214	7,625
<b>Total</b>	<b>402</b>	<b>175</b>	<b>718</b>	<b>216</b>	<b>943</b>	<b>391</b>	<b>275</b>	<b>522</b>	<b>2,070</b>	<b>1,277</b>	<b>545</b>	<b>124</b>	<b>2,568</b>	<b>1,401</b>	<b>1,076</b>	<b>26,826</b>

**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
Sumbawang a 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
Sumbawang a Urban	0	0	0	0	0	0	0	0	189	97	1,744	81	1,933	178	118	473
<b>Total</b>	<b>0</b>	<b>0</b>	<b>1,126</b>	<b>54</b>	<b>1,126</b>	<b>54</b>	<b>0</b>	<b>0</b>	<b>29,792</b>	<b>18274</b>	<b>10,823</b>	<b>4394</b>	<b>39,622</b>	<b>22668</b>	<b>18360</b>	<b>51444</b>

**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
<b>Total</b>	<b>7,832</b>	<b>3.5</b>	<b>384</b>	<b>0.2</b>	<b>225</b>	<b>0.1</b>	<b>2,140</b>	<b>0.9</b>	<b>59,826</b>	<b>26.4</b>	<b>14,800</b>	<b>6.5</b>	<b>226,250</b>

**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
<b>Total</b>	<b>19,399</b>	<b>8.6</b>	<b>3,524</b>	<b>1.6</b>	<b>447</b>	<b>0.2</b>	<b>543</b>	<b>0.2</b>	<b>2,416</b>	<b>1.1</b>	<b>226,250</b>

**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
<b>Total</b>	<b>11,327</b>	<b>.6</b>	<b>8,448</b>	<b>.5</b>	<b>450</b>	<b>.0</b>	<b>13,562</b>	<b>.7</b>	<b>203,832</b>	<b>11.2</b>	<b>48,486</b>	<b>2.7</b>

**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
<b>Total</b>	<b>123,705</b>	<b>6.8</b>	<b>13,641</b>	<b>.7</b>	<b>8,717</b>	<b>.5</b>	<b>10,790</b>	<b>.6</b>	<b>7,197</b>	<b>.4</b>

**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
<b>Total</b>	<b>87,113</b>	<b>92.32</b>	<b>3,943</b>	<b>4.18</b>	<b>2,295</b>	<b>2.43</b>	<b>787</b>	<b>0.83</b>	<b>225</b>	<b>0.24</b>	<b>0</b>	<b>0.00</b>

**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	.
<b>Total</b>	<b>183,115</b>	<b>58.7</b>	<b>14,690</b>	<b>4.7</b>	<b>77,292</b>	<b>24.8</b>	<b>8,720</b>	<b>2.8</b>	<b>22,720</b>	<b>7.3</b>	<b>5,292</b>	<b>1.7</b>

### 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
<b>Total</b>	<b>12,800</b>	<b>6</b>	<b>213,450</b>	<b>94</b>	<b>226,250</b>	<b>100</b>

### 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
<b>Total</b>	<b>9,170</b>	<b>94</b>	<b>447</b>	<b>1,426</b>	<b>0</b>	<b>649</b>	<b>0</b>	<b>11,787</b>

### 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
<b>Total</b>	<b>8,147</b>	<b>2,814</b>	<b>47</b>	<b>271</b>	<b>508</b>	<b>11,787</b>

### 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
<b>Total</b>	<b>37,012</b>	<b>16.4</b>	<b>189,238</b>	<b>83.6</b>	<b>226,250</b>	<b>100.00</b>



**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
<b>Total</b>	<b>22,192</b>	<b>10</b>	<b>204,058</b>	<b>90</b>	<b>226,250</b>	<b>100</b>

**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
<b>Total</b>	<b>46,051</b>	<b>57,534</b>	<b>1,801</b>	<b>2,582</b>	<b>16,240</b>	<b>31,439</b>	<b>7,788</b>	<b>2,802</b>

**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
<b>Total</b>	<b>7,277</b>	<b>3.2</b>	<b>218,973</b>	<b>96.8</b>	<b>226,250</b>	<b>100</b>

**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
<b>Total</b>	<b>6,187</b>	<b>85</b>	<b>1,090</b>	<b>15</b>	<b>7,277</b>	<b>100</b>

**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
<b>Total</b>	<b>1,762</b>	<b>24.2</b>	<b>512</b>	<b>7.0</b>	<b>3,640</b>	<b>50.0</b>	<b>225</b>	<b>3.1</b>	<b>337</b>	<b>4.6</b>	<b>225</b>	<b>3.1</b>	<b>576</b>	<b>7.9</b>	<b>7,277</b>	<b>100</b>

**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
<b>Total</b>	<b>15,396</b>	<b>7.0</b>	<b>54,002</b>	<b>24.7</b>	<b>34,834</b>	<b>15.9</b>	<b>7,178</b>	<b>3.3</b>	<b>58,826</b>	<b>26.9</b>	<b>8,000</b>	<b>3.7</b>	<b>2,210</b>	<b>1.0</b>	<b>1,748</b>	<b>0.8</b>	<b>36,779</b>	<b>16.8</b>	<b>218,973</b>	<b>100</b>

**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
<b>Total</b>	<b>224</b>	<b>13.1</b>	<b>335</b>	<b>19.6</b>	<b>0</b>	<b>0.0</b>	<b>400</b>	<b>23.4</b>	<b>176</b>	<b>10.3</b>	<b>400</b>	<b>23.4</b>	<b>176</b>	<b>10.3</b>	<b>1,711</b>	<b>100</b>

**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
<b>Total</b>	<b>384</b>	<b>23.3</b>	<b>400</b>	<b>24.3</b>	<b>288</b>	<b>17.5</b>	<b>176</b>	<b>10.7</b>	<b>353</b>	<b>21.4</b>	<b>47</b>	<b>2.9</b>	<b>1,648</b>	<b>100</b>

**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
<b>Total</b>	<b>6,187</b>	<b>85</b>	<b>1,090</b>	<b>15</b>	<b>7,277</b>	<b>100</b>

**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
<b>Total</b>	<b>1,441</b>	<b>87</b>	<b>223</b>	<b>13</b>	<b>1,664</b>	<b>100</b>

**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
<b>Total</b>	<b>1,376</b>	<b>92</b>	<b>112</b>	<b>8</b>	<b>1,488</b>	<b>100</b>

## **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
<b>Total</b>	<b>110,159</b>	<b>48.7</b>	<b>115,818</b>	<b>51.3</b>	<b>225,977</b>

### 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
<b>Total</b>	<b>4,120</b>	<b>1.8</b>	<b>222,130</b>	<b>98.2</b>	<b>226,250</b>	<b>100</b>

### 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
<b>Total</b>	<b>4,037</b>	<b>1.8</b>	<b>222,212</b>	<b>98.2</b>	<b>226,250</b>	<b>100</b>



**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
<b>Total</b>	<b>84,476</b>	<b>76.7</b>	<b>11,153</b>	<b>10.1</b>	<b>3,152</b>	<b>2.9</b>	<b>6,019</b>	<b>5.5</b>	<b>19,648</b>	<b>17.8</b>	<b>27,198</b>	<b>24.7</b>	<b>2,860</b>	<b>2.6</b>	<b>110,159</b>

**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
<b>Total</b>	<b>41,271</b>	<b>67.7</b>	<b>6,014</b>	<b>9.9</b>	<b>1,940</b>	<b>3.2</b>	<b>1,239</b>	<b>2.0</b>	<b>4,698</b>	<b>7.7</b>	<b>4,919</b>	<b>8.1</b>	<b>908</b>	<b>1.5</b>	<b>60,991</b>

**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
<b>Total</b>	<b>32,222</b>	<b>73.9</b>	<b>2,735</b>	<b>6.3</b>	<b>176</b>	<b>0.4</b>	<b>1,068</b>	<b>2.5</b>	<b>4,683</b>	<b>10.7</b>	<b>2,334</b>	<b>5.4</b>	<b>382</b>	<b>0.9</b>	<b>43,601</b>

**8.8 Number of households receiving extension advice on Organic Fertilizer 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
<b>Total</b>	<b>46,896</b>	<b>76.1</b>	<b>1,982</b>	<b>3.2</b>	<b>47</b>	<b>0.1</b>	<b>1,836</b>	<b>3.0</b>	<b>3,700</b>	<b>6.0</b>	<b>7,190</b>	<b>11.7</b>	<b>0</b>	<b>0.0</b>	<b>61,652</b>

**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
<b>Total</b>	<b>53,030</b>	<b>74.8</b>	<b>5,763</b>	<b>8.1</b>	<b>1,970</b>	<b>2.8</b>	<b>955</b>	<b>1.3</b>	<b>4,103</b>	<b>5.8</b>	<b>4,487</b>	<b>6.3</b>	<b>623</b>	<b>0.9</b>	<b>70,932</b>

**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
<b>Total</b>	<b>42,439</b>	<b>75.4</b>	<b>2,239</b>	<b>4.0</b>	<b>494</b>	<b>0.9</b>	<b>1,866</b>	<b>3.3</b>	<b>4,983</b>	<b>8.9</b>	<b>3,736</b>	<b>6.6</b>	<b>512</b>	<b>0.9</b>	<b>56,269</b>

**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
<b>Total</b>	<b>23,253</b>	<b>72.0</b>	<b>812</b>	<b>2.5</b>	<b>0</b>	<b>0.0</b>	<b>677</b>	<b>2.1</b>	<b>4,376</b>	<b>13.6</b>	<b>3,030</b>	<b>9.4</b>	<b>141</b>	<b>0.4</b>	<b>32,289</b>

**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
<b>Total</b>	<b>32,663</b>	<b>75.1</b>	<b>1,806</b>	<b>4.2</b>	<b>47</b>	<b>0.1</b>	<b>1,433</b>	<b>3.3</b>	<b>2,756</b>	<b>6.3</b>	<b>4,206</b>	<b>9.7</b>	<b>590</b>	<b>1.4</b>	<b>43,501</b>

## **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
<b>Total</b>	<b>68,944</b>	<b>30.5</b>	<b>157,305</b>	<b>69.5</b>	<b>226,250</b>	<b>169,854</b>

**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
<b>Total</b>	<b>67,731</b>	<b>799,700</b>	<b>99.4</b>	<b>337</b>	<b>562</b>	<b>0.1</b>	<b>2,027</b>	<b>4,149</b>	<b>0.5</b>	<b>70,095</b>	<b>804,411</b>	<b>100</b>



**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
<b>Total</b>	<b>68,944</b>	<b>100.0</b>	<b>804,411</b>	<b>11.7</b>

**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
<b>Total</b>	<b>799,700</b>	<b>562</b>	<b>4,149</b>	<b>804,411</b>	<b>100</b>

**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
<b>Total</b>	<b>217,334</b>	<b>27</b>	<b>76,154</b>	<b>10</b>	<b>254,775</b>	<b>32</b>	<b>10,260</b>	<b>1</b>	<b>77,290</b>	<b>10</b>	<b>72,193</b>	<b>9</b>	<b>91,694</b>	<b>11</b>	<b>799,700</b>	<b>100</b>

**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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>450</b>	<b>80</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>112</b>	<b>20</b>	<b>562</b>	<b>100</b>

**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
<b>Total</b>	<b>347</b>	<b>8</b>	<b>639</b>	<b>15</b>	<b>2,350</b>	<b>57</b>	<b>47</b>	<b>1</b>	<b>224</b>	<b>5</b>	<b>94</b>	<b>2</b>	<b>447</b>	<b>11</b>	<b>4,149</b>	<b>100</b>

**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		Earrings		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
<b>Total</b>	<b>16,336</b>	<b>24</b>	<b>4,690</b>	<b>7</b>	<b>3,787</b>	<b>5</b>	<b>42,795</b>	<b>62</b>	<b>683</b>	<b>1</b>	<b>1,102</b>	<b>2</b>	<b>69,393</b>	<b>100</b>

**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
<b>Total</b>	<b>1,627</b>	<b>127,712</b>	<b>129,339</b>	<b>1,130</b>	<b>111,672</b>	<b>112,801</b>

### 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
<b>Total</b>	<b>6</b>	<b>3</b>	<b>3</b>	<b>5</b>	<b>2</b>	<b>2</b>

### 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
<b>Total</b>	<b>137</b>	<b>104</b>	<b>106</b>	<b>147</b>	<b>93</b>	<b>96</b>

### 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
<b>Total</b>	<b>295</b>	<b>297</b>	<b>297</b>	<b>352</b>	<b>287</b>	<b>291</b>

**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
<b>Total</b>	<b>129,339</b>	<b>112,801</b>	<b>3</b>	<b>2</b>	<b>106</b>	<b>96</b>	<b>297</b>	<b>291</b>

## 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
<b>Total</b>	<b>56,556</b>	<b>25</b>	<b>169,694</b>	<b>75</b>	<b>226,250</b>	<b>169,854</b>

**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
<b>Total</b>	<b>56,331</b>	<b>410,480</b>	<b>95.9</b>	<b>402</b>	<b>1,077</b>	<b>0.3</b>	<b>1,363</b>	<b>16,690</b>	<b>3.9</b>	<b>58,096</b>	<b>428,247</b>

**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
<b>Total</b>	<b>129,667</b>	<b>100.0</b>	<b>428,247</b>	<b>100.0</b>	<b>3</b>

**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
<b>Total</b>	<b>410,480</b>	<b>95.9</b>	<b>1,077</b>	<b>0.3</b>	<b>16,690</b>	<b>3.9</b>	<b>428,247</b>	<b>100</b>



**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
<b>Total</b>	<b>69,936</b>	<b>17</b>	<b>24,849</b>	<b>6</b>	<b>218,482</b>	<b>53</b>	<b>42,814</b>	<b>10</b>	<b>54,399</b>	<b>13</b>	<b>410,480</b>	<b>100</b>

**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
<b>Total</b>	<b>402</b>	<b>37</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>675</b>	<b>63</b>	<b>0</b>	<b>0</b>	<b>1,077</b>	<b>100</b>

**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
<b>Total</b>	<b>3,031</b>	<b>18.2</b>	<b>0</b>	<b>0</b>	<b>9,532</b>	<b>57.1</b>	<b>0</b>	<b>0</b>	<b>4,127</b>	<b>24.7</b>	<b>16,690</b>	<b>100</b>

**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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**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
<b>Total</b>	<b>5,835</b>	<b>2.6</b>	<b>220,415</b>	<b>97.4</b>	<b>226,250</b>	<b>169,854</b>

**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	16,433
Nkasi	5,363	100.0	0	0.0	5,363
Sumbawanga Urban	613	100.0	0	0.0	613
<b>Total</b>	<b>43,577</b>	<b>100.0</b>	<b>0</b>	<b>0.0</b>	<b>43,577</b>

**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
<b>Total</b>	<b>8,501</b>	<b>847</b>	<b>23,145</b>	<b>4,813</b>	<b>6,272</b>	<b>43,577</b>

**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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**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
<b>Total</b>	<b>5,835</b>	<b>100</b>	<b>43,577</b>	<b>7</b>

**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
<b>Total</b>	<b>43,577</b>	<b>100</b>	<b>0</b>	<b>0</b>	<b>43,577</b>	<b>100</b>

**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
<b>Total</b>	<b>19,834</b>	<b>8.8</b>	<b>206,416</b>	<b>91.2</b>	<b>226,250</b>	<b>100.0</b>

**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
<b>Total</b>	<b>19,834</b>	<b>100</b>	<b>80,608</b>	<b>100.0</b>	<b>4</b>

**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
<b>Total</b>	<b>14,566</b>	<b>2,489</b>	<b>36,952</b>	<b>9,228</b>	<b>17,373</b>	<b>80,608</b>

**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
<b>Total</b>	<b>19,834</b>	<b>80,608</b>	<b>4</b>

**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
<b>Total</b>	<b>147,818</b>	<b>100</b>	<b>78,432</b>	<b>100</b>	<b>226,250</b>	<b>100</b>



**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
<b>Total</b>	<b>146,870</b>	<b>1,566,070</b>	<b>98.4</b>	<b>1,332</b>	<b>21,046</b>	<b>1.3</b>	<b>272</b>	<b>3,644</b>	<b>0.2</b>	<b>148,474</b>	<b>1,590,761</b>

**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
<b>Total</b>	<b>146,870</b>	<b>1,566,070</b>	<b>98.4</b>	<b>11</b>	<b>1,332</b>	<b>21,046</b>	<b>1.3</b>	<b>16</b>	<b>272</b>	<b>3,644</b>	<b>0.2</b>	<b>13</b>	<b>148,474</b>	<b>1,590,761</b>	<b>100</b>	<b>11</b>

**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
<b>Total</b>	<b>56,626</b>	<b>6,501</b>	<b>0</b>	<b>8,002</b>	<b>8,489</b>	<b>0</b>	<b>34,367</b>

**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
<b>TOTAL</b>	<b>1,590,761</b>	<b>100</b>		<b>113,985</b>

**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
<b>Total</b>	<b>53,001</b>	<b>31</b>	<b>115,957</b>	<b>69</b>	<b>168,958</b>	<b>100</b>

**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
<b>Total</b>	<b>37,288</b>	<b>1,432</b>	<b>14,104</b>	<b>52,823</b>	<b>18,117</b>	<b>8,544</b>	<b>26,116</b>	<b>52,776</b>

**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
<b>Total</b>	<b>5,527</b>	<b>5,961</b>	<b>41,289</b>	<b>52,776</b>	<b>14,312</b>	<b>31,688</b>	<b>6,841</b>	<b>52,841</b>

**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
<b>Total</b>	<b>57,678</b>	<b>34</b>	<b>30,712</b>	<b>18</b>	<b>80,793</b>	<b>48</b>	<b>169,183</b>	<b>100</b>

**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
<b>Total</b>	<b>7,438</b>	<b>4.4</b>	<b>42,913</b>	<b>25.4</b>	<b>3,233</b>	<b>1.9</b>	<b>115,553</b>	<b>68.3</b>	<b>47</b>	<b>0.0</b>	<b>169,183</b>	<b>100</b>

**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
<b>Total</b>	<b>11,366</b>	<b>7</b>	<b>69,140</b>	<b>41</b>	<b>88,676</b>	<b>52</b>	<b>169,183</b>	<b>100</b>

**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
<b>Total</b>	<b>2,454</b>	<b>1.5</b>	<b>13,680</b>	<b>8.1</b>	<b>2,784</b>	<b>1.6</b>	<b>149,912</b>	<b>88.6</b>	<b>353</b>	<b>0.2</b>	<b>169,183</b>	<b>100</b>

**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
<b>Total</b>	<b>103,503</b>	<b>61</b>	<b>49,259</b>	<b>29</b>	<b>16,421</b>	<b>10</b>	<b>169,183</b>	<b>100</b>

**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
<b>Total</b>	<b>44,689</b>	<b>26</b>	<b>38,006</b>	<b>22</b>	<b>86,488</b>	<b>51</b>	<b>169,183</b>	<b>100</b>

**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
<b>Total</b>	<b>42,315</b>	<b>25</b>	<b>109,676</b>	<b>65</b>	<b>17,193</b>	<b>10</b>	<b>169,183</b>	<b>100</b>

**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
<b>Total</b>	<b>8,541</b>	<b>5</b>	<b>37,621</b>	<b>22</b>	<b>123,021</b>	<b>73</b>	<b>169,183</b>	<b>100</b>

**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
<b>Total</b>	<b>8,944</b>	<b>5</b>	<b>62,465</b>	<b>37</b>	<b>98,111</b>	<b>58</b>	<b>169,520</b>	<b>100</b>

**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
<b>Total</b>	<b>4,310</b>	<b>3</b>	<b>67,027</b>	<b>40</b>	<b>98,071</b>	<b>58</b>	<b>169,408</b>	<b>100</b>

## **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
<b>Total</b>	<b>68,550</b>	<b>40</b>	<b>101,303</b>	<b>60</b>	<b>169,854</b>

**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
	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 Proper Livestock 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
<b>Total</b>	<b>11,246</b>	<b>70</b>	<b>1,229</b>	<b>8</b>	<b>47</b>	<b>0</b>	<b>47</b>	<b>0</b>	<b>2,662</b>	<b>17</b>	<b>795</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>16,027</b>

**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
<b>Total</b>	<b>12,697</b>	<b>65.3</b>	<b>524</b>	<b>2.7</b>	<b>176</b>	<b>0.9</b>	<b>653</b>	<b>3.4</b>	<b>3,243</b>	<b>16.7</b>	<b>1,983</b>	<b>10.2</b>	<b>176</b>	<b>0.9</b>	<b>19,453</b>

**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
<b>Total</b>	<b>39,038</b>	<b>76.6</b>	<b>1,465</b>	<b>2.9</b>	<b>0</b>	<b>0.0</b>	<b>700</b>	<b>1.4</b>	<b>2,676</b>	<b>5.3</b>	<b>7,033</b>	<b>13.8</b>	<b>47</b>	<b>0.1</b>	<b>50,960</b>

**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
<b>Total</b>	<b>16,339</b>	<b>79.9</b>	<b>365</b>	<b>1.8</b>	<b>0</b>	<b>0.0</b>	<b>318</b>	<b>1.6</b>	<b>2,566</b>	<b>12.6</b>	<b>852</b>	<b>4.2</b>	<b>0</b>	<b>0.0</b>	<b>20,439</b>

**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
<b>Total</b>	<b>10,068</b>	<b>74.8</b>	<b>541</b>	<b>4.0</b>	<b>0</b>	<b>0.0</b>	<b>271</b>	<b>2.0</b>	<b>2,087</b>	<b>15.5</b>	<b>496</b>	<b>3.7</b>	<b>0</b>	<b>0.0</b>	<b>13,463</b>

**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
<b>Total</b>	<b>19,357</b>	<b>74.3</b>	<b>4,782</b>	<b>18.3</b>	<b>159</b>	<b>0.6</b>	<b>94</b>	<b>0.4</b>	<b>1,220</b>	<b>4.7</b>	<b>450</b>	<b>1.7</b>	<b>0</b>	<b>0.0</b>	<b>26,062</b>

**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
<b>Total</b>	<b>11,534</b>	<b>65.7</b>	<b>1,563</b>	<b>8.9</b>	<b>272</b>	<b>1.6</b>	<b>494</b>	<b>2.8</b>	<b>2,327</b>	<b>13.3</b>	<b>1,371</b>	<b>7.8</b>	<b>0</b>	<b>0.0</b>	<b>17,561</b>

**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
<b>Total</b>	<b>6,977</b>	<b>66.2</b>	<b>319</b>	<b>3.0</b>	<b>47</b>	<b>0.4</b>	<b>271</b>	<b>2.6</b>	<b>2,426</b>	<b>23.0</b>	<b>497</b>	<b>4.7</b>	<b>0</b>	<b>0.0</b>	<b>10,537</b>

**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
<b>Total</b>	<b>14,501</b>	<b>75.2</b>	<b>1,131</b>	<b>5.9</b>	<b>0</b>	<b>0.0</b>	<b>141</b>	<b>0.7</b>	<b>2,424</b>	<b>12.6</b>	<b>1,086</b>	<b>5.6</b>	<b>0</b>	<b>0.0</b>	<b>19,284</b>

**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
<b>Total</b>	<b>412</b>	<b>0.2</b>	<b>225,838</b>	<b>99.8</b>	<b>226,250</b>

### 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 Reservoir	Total
Mpanda	0	0	0	0
Sumbawanga Rural	0	0	0	0
Nkasi	0	447	0	447
Sumbawanga Urban	0	141	47	189
<b>Total</b>	<b>0</b>	<b>588</b>	<b>47</b>	<b>635</b>

### 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
<b>Total</b>	<b>47</b>	<b>0</b>	<b>141</b>	<b>335</b>	<b>0</b>	<b>0</b>	<b>112</b>	<b>635</b>

### 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
<b>Total</b>	<b>159</b>	<b>0</b>	<b>335</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>141</b>	<b>0</b>	<b>635</b>

### 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
<b>Total</b>	<b>67,127</b>	<b>100</b>	<b>80,071</b>	<b>100</b>	<b>139,437</b>	<b>100.0</b>

### 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
<b>Total</b>	101	421	<b>100.0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	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
<b>Total</b>	<b>253</b>	<b>335</b>	<b>47</b>	<b>635</b>

### 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
<b>Total</b>	<b>47</b>	<b>477</b>	<b>112</b>	<b>635</b>

**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
<b>Total</b>	<b>7,306</b>	<b>3</b>	<b>218,944</b>	<b>97</b>	<b>226,250</b>	<b>100</b>

**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
<b>Total</b>	<b>1,119</b>	<b>6,363</b>	<b>7,482</b>	<b>224</b>	<b>224</b>	<b>1,343</b>	<b>6,363</b>	<b>7,706</b>

**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
<b>Total</b>	<b>1,343</b>	<b>1,793</b>	<b>6,363</b>	<b>11,708</b>	<b>7,706</b>	<b>13,502</b>	<b>1,343</b>	<b>12,914</b>	<b>6,363</b>	<b>586,618</b>	<b>7,706</b>	<b>599,532</b>

**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
<b>Total</b>	<b>35,068</b>	<b>2</b>	<b>25,203</b>	<b>1</b>	<b>2,276,302</b>	<b>98</b>	<b>2,218,890</b>	<b>99</b>	<b>2,244,093</b>	<b>2,311,370</b>

**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
<b>Total</b>	<b>1,046</b>	<b>1,109</b>	<b>1,056</b>

**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
<b>Total</b>	<b>5,003</b>	<b>831</b>	<b>400</b>	<b>0</b>	<b>225</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**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
<b>Total</b>	<b>176</b>	<b>0</b>	<b>559</b>	<b>288</b>	<b>0</b>	<b>0</b>	<b>6,363</b>	<b>1,119</b>

**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
<b>Total</b>	<b>28,847</b>	<b>12.75</b>	<b>11,329</b>	<b>5.01</b>	<b>84,954</b>	<b>37.55</b>	<b>13,675</b>	<b>6.04</b>

**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
<b>Total</b>	<b>8,506</b>	<b>3.76</b>	<b>817</b>	<b>0.36</b>	<b>1,890</b>	<b>0.84</b>	<b>31,798</b>	<b>14.05</b>

**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
<b>Total</b>	<b>7,364</b>	<b>3.25</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>112</b>	<b>0.05</b>

**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
<b>Total</b>	<b>11,211</b>	<b>4.96</b>	<b>3,587</b>	<b>1.59</b>	<b>176</b>	<b>0.08</b>	<b>0</b>	<b>0.00</b>



**Cont.9.76 Number of Agricultural Households Reporting the FIRST Most Important Constraint by District, 2007/08 Agricultural Year**

District	Constraint							
	Crop Storage		Crop Processing		Marketing Information		Higher Transport Costs	
	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
<b>Total</b>	<b>288</b>	<b>0.13</b>	<b>0</b>	<b>0.00</b>	<b>1,778</b>	<b>0.79</b>	<b>1,284</b>	<b>0.57</b>

**Cont. 9.76 Number of Agricultural Households Reporting the FIRST 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	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
<b>Total</b>	<b>7,216</b>	<b>3.19</b>	<b>1,199</b>	<b>0.53</b>	<b>4,050</b>	<b>1.79</b>	<b>0</b>	<b>0.00</b>

**Cont. 9.76 Number of Agricultural Households Reporting the FIRST 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	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
<b>Total</b>	<b>992</b>	<b>0.44</b>	<b>5,178</b>	<b>2.29</b>	<b>226,250</b>	<b>100</b>

**9.77 Number of Agricultural Households Reporting the SECOND 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	1,058	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
<b>Total</b>	<b>6,991</b>	<b>3.09</b>	<b>7,636</b>	<b>3.38</b>	<b>48,725</b>	<b>21.54</b>	<b>29,222</b>	<b>12.92</b>

**Cont. 9.77 Number of Agricultural Households Reporting the SECOND 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	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
<b>Total</b>	<b>29,152</b>	<b>12.88</b>	<b>2,582</b>	<b>1.14</b>	<b>6,833</b>	<b>3.02</b>	<b>45,592</b>	<b>20.15</b>

**Cont.9.77 Number of Agricultural Households Reporting the SECOND 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	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
<b>Total</b>	<b>13,404</b>	<b>5.92</b>	<b>225</b>	<b>0.10</b>	<b>0</b>	<b>0.00</b>	<b>513</b>	<b>0.23</b>

**Cont. 9.77 Number of Agricultural Households Reporting the SECOND 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	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
<b>Total</b>	<b>15,495</b>	<b>6.85</b>	<b>1,711</b>	<b>0.76</b>	<b>272</b>	<b>0.12</b>	<b>0</b>	<b>0.00</b>

**Cont. 9.77 Number of Agricultural Households Reporting the SECOND Most Important Constraint by District, 2007/08 Agricultural Year**

District	Constraint							
	Crop Storage		Crop Processing		Marketing Information		Higher Transport Costs	
	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
<b>Total</b>	<b>272</b>	<b>0.12</b>	<b>176</b>	<b>0.08</b>	<b>2,597</b>	<b>1.15</b>	<b>1,712</b>	<b>0.76</b>

**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
<b>Total</b>	<b>3,989</b>	<b>1.76</b>	<b>2,019</b>	<b>0.89</b>	<b>4,141</b>	<b>1.83</b>	<b>0</b>	<b>0.00</b>

**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
<b>Total</b>	<b>524</b>	<b>0.23</b>	<b>2,466</b>	<b>1.09</b>	<b>226,250</b>	<b>100</b>

**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
<b>Total</b>	<b>6,469</b>	<b>2.86</b>	<b>3,687</b>	<b>1.63</b>	<b>22,949</b>	<b>10.14</b>	<b>15,938</b>	<b>7.04</b>

**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
<b>Total</b>	<b>20,027</b>	<b>8.85</b>	<b>5,045</b>	<b>2.23</b>	<b>8,926</b>	<b>3.95</b>	<b>42,656</b>	<b>18.85</b>

**Cont. 9.78 Number of Agricultural Households Reporting the THIRD 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	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
<b>Total</b>	<b>27,441</b>	<b>12.13</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>1,587</b>	<b>0.70</b>

**Cont. 9.78 Number of Agricultural Households Reporting the THIRD 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	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
<b>Total</b>	<b>32,726</b>	<b>14.46</b>	<b>5,323</b>	<b>2.35</b>	<b>335</b>	<b>0.15</b>	<b>223</b>	<b>0.10</b>

**Cont. 9.78 Number of Agricultural Households Reporting the THIRD Most Important Constraint by District, 2007/08 Agricultural Year**

District	Constraint							
	Crop Storage		Crop Processing		Marketing Information		Higher Transport Costs	
	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
<b>Total</b>	<b>944</b>	<b>0.42</b>	<b>817</b>	<b>0.36</b>	<b>6,211</b>	<b>2.75</b>	<b>5,144</b>	<b>2.27</b>

**Cont. 9.78 Number of Agricultural Households Reporting the THIRD 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	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
<b>Total</b>	<b>5,919</b>	<b>2.62</b>	<b>2,835</b>	<b>1.25</b>	<b>7,430</b>	<b>3.28</b>	<b>112</b>	<b>0.05</b>

**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
<b>Total</b>	<b>718</b>	<b>0.32</b>	<b>2,787</b>	<b>1.23</b>	<b>226,250</b>	<b>100.00</b>

**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
<b>Total</b>	<b>4,446</b>	<b>1.97</b>	<b>3,170</b>	<b>1.40</b>	<b>14,868</b>	<b>6.57</b>	<b>16,650</b>	<b>7.36</b>

**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
<b>Total</b>	<b>17,616</b>	<b>7.79</b>	<b>4,134</b>	<b>1.83</b>	<b>10,924</b>	<b>4.83</b>	<b>26,549</b>	<b>11.73</b>

**Cont. 9.79 Number of Agricultural Households Reporting the FOURTH 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	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
<b>Total</b>	<b>23,354</b>	<b>10.32</b>	<b>513</b>	<b>0.23</b>	<b>112</b>	<b>0.05</b>	<b>766</b>	<b>0.34</b>

**Cont. 9.79 Number of Agricultural Households Reporting the FOURTH 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	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
<b>Total</b>	<b>27,810</b>	<b>12.29</b>	<b>13,784</b>	<b>6.09</b>	<b>2,622</b>	<b>1.16</b>	<b>1,053</b>	<b>0.47</b>

**Cont. 9.79 Number of Agricultural Households Reporting the FOURTH Most Important Constraint by District, 2007/08 Agricultural Year**

District	Constraint							
	Crop Storage		Crop Processing		Marketing Information		Higher Transport Costs	
	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
<b>Total</b>	<b>3,493</b>	<b>1.54</b>	<b>5,715</b>	<b>2.53</b>	<b>9,121</b>	<b>4.03</b>	<b>6,801</b>	<b>3.01</b>

**Cont. 9.79 Number of Agricultural Households Reporting the FOURTH 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	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
<b>Total</b>	<b>7,047</b>	<b>3.11</b>	<b>6,641</b>	<b>2.94</b>	<b>12,097</b>	<b>5.35</b>	<b>1,621</b>	<b>0.72</b>

**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
<b>Total</b>	<b>1,887</b>	<b>0.83</b>	<b>3,457</b>	<b>1.53</b>	<b>226,250</b>	<b>100</b>

**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
<b>Total</b>	<b>3,521</b>	<b>1.56</b>	<b>4,484</b>	<b>1.98</b>	<b>10,502</b>	<b>4.64</b>	<b>12,638</b>	<b>5.59</b>

**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
<b>Total</b>	<b>20,130</b>	<b>8.90</b>	<b>3,467</b>	<b>1.53</b>	<b>9,991</b>	<b>4.42</b>	<b>21,136</b>	<b>9.34</b>

**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
<b>Total</b>	<b>17,031</b>	<b>7.53</b>	<b>112</b>	<b>0.05</b>	<b>0</b>	<b>0.00</b>	<b>1,201</b>	<b>0.53</b>

**Cont. 9.80 Number of Agricultural Households Reporting the FIFTH 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	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
<b>Total</b>	<b>27,975</b>	<b>12.36</b>	<b>13,314</b>	<b>5.88</b>	<b>337</b>	<b>0.15</b>	<b>559</b>	<b>0.25</b>

**Cont. 9.80 Number of Agricultural Households Reporting the FIFTH Most Important Constraint by District, 2007/08 Agricultural Year**

District	Constraint							
	Crop Storage		Crop Processing		Marketing Information		Higher Transport Costs	
	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
<b>Total</b>	<b>4,861</b>	<b>2.15</b>	<b>1,406</b>	<b>0.62</b>	<b>13,247</b>	<b>5.85</b>	<b>8,488</b>	<b>3.75</b>

**Cont. 9.80 Number of Agricultural Households Reporting the FIFTH 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	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
<b>Total</b>	<b>7,037</b>	<b>3.11</b>	<b>3,207</b>	<b>1.42</b>	<b>19,383</b>	<b>8.57</b>	<b>1,445</b>	<b>0.64</b>

**Cont.9.80 Number of Agricultural Households Reporting the FIFTH Most Important Constraint by District, 2007/08 Agricultural Year**

District	Constraint					
	Extended dry spell		Crop Farmers/Livestock keepers Conflicts		Total	
	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
<b>Total</b>	<b>9,196</b>	<b>4.06</b>	<b>11,585</b>	<b>5.12</b>	<b>226,250</b>	<b>100</b>



## **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
<b>Total</b>	<b>3</b>	<b>69,775</b>	<b>2,024</b>	<b>223</b>	<b>2,915</b>	<b>142,666</b>	<b>8,469</b>	<b>176</b>	<b>226,250</b>
<b>%</b>		<b>30.8</b>	<b>0.9</b>	<b>0.1</b>	<b>1.3</b>	<b>63.1</b>	<b>3.7</b>	<b>0.1</b>	<b>100.0</b>

### 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
<b>Total</b>	<b>3</b>	<b>187,539</b>	<b>5,552</b>	<b>562</b>	<b>560</b>	<b>32,036</b>	<b>0</b>	<b>226,250</b>
<b>%</b>		<b>82.9</b>	<b>2.5</b>	<b>0.2</b>	<b>0.2</b>	<b>14.2</b>	<b>0.0</b>	<b>100.0</b>

### 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
<b>Total</b>	<b>7,091</b>	<b>15,257</b>	<b>52,971</b>	<b>147,947</b>	<b>576</b>	<b>2,361</b>	<b>0</b>	<b>47</b>	<b>226,250</b>
<b>%</b>	<b>3.1</b>	<b>6.7</b>	<b>23.4</b>	<b>65.4</b>	<b>0.3</b>	<b>1.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100.0</b>

**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
<b>Total</b>	<b>141,457</b>	<b>84,792</b>	<b>226,250</b>	<b>1,695</b>	<b>224,554</b>	<b>226,250</b>	<b>50,647</b>	<b>175,603</b>	<b>226,250</b>	<b>44,504</b>	<b>181,746</b>	<b>226,250</b>	<b>9,541</b>	<b>216,709</b>	<b>226,250</b>
<b>%</b>	<b>63</b>	<b>37</b>	<b>100</b>	<b>1</b>	<b>99</b>	<b>100</b>	<b>22</b>	<b>78</b>	<b>100</b>	<b>20</b>	<b>80</b>	<b>100</b>	<b>4</b>	<b>96</b>	<b>100</b>

**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
<b>Total</b>	<b>113,281</b>	<b>112,969</b>	<b>226,250</b>	<b>4,106</b>	<b>222,144</b>	<b>226,250</b>	<b>3,266</b>	<b>222,983</b>	<b>226,250</b>	<b>1,187</b>	<b>225,063</b>	<b>226,250</b>	<b>5,550</b>	<b>220,700</b>	<b>226,250</b>
<b>%</b>	<b>50</b>	<b>50</b>	<b>100</b>	<b>2</b>	<b>98</b>	<b>100</b>	<b>1</b>	<b>99</b>	<b>100</b>	<b>1</b>	<b>99</b>	<b>100</b>	<b>2</b>	<b>98</b>	<b>100</b>

**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
<b>Total</b>	<b>1,908</b>	<b>1,410</b>	<b>0</b>	<b>47,768</b>	<b>7,054</b>	<b>164,985</b>	<b>1,025</b>	<b>1,346</b>	<b>754</b>	<b>226,250</b>
<b>%</b>	<b>1</b>	<b>0.6</b>	<b>0.0</b>	<b>21.1</b>	<b>3.1</b>	<b>72.9</b>	<b>0.5</b>	<b>0.6</b>	<b>0.3</b>	<b>100.0</b>

**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)	Paraffin / 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
<b>Total</b>	<b>1,571</b>	<b>0</b>	<b>627</b>	<b>931</b>	<b>272</b>	<b>19,017</b>	<b>202,613</b>	<b>1,173</b>	<b>47</b>	<b>0</b>	<b>226,250</b>
<b>%</b>	<b>0.7</b>	<b>0.0</b>	<b>0.3</b>	<b>0.4</b>	<b>0.1</b>	<b>8.4</b>	<b>89.6</b>	<b>0.5</b>	<b>0.0</b>	<b>0.0</b>	<b>100.0</b>

**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
<b>Total</b>	<b>42,742</b>	<b>51,191</b>	<b>6,647</b>	<b>47,990</b>	<b>21,752</b>	<b>50,449</b>	<b>1,297</b>	<b>3,609</b>	<b>0</b>	<b>272</b>	<b>0</b>	<b>300</b>	<b>226,250</b>
<b>%</b>	<b>18.9</b>	<b>22.6</b>	<b>2.9</b>	<b>21.2</b>	<b>9.6</b>	<b>22.3</b>	<b>0.6</b>	<b>1.6</b>	<b>0.0</b>	<b>0.1</b>	<b>0.0</b>	<b>0.1</b>	<b>100.0</b>

**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
<b>Total</b>	<b>34,091</b>	<b>38,582</b>	<b>16,153</b>	<b>69,583</b>	<b>57,497</b>	<b>10,345</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>226,250</b>
<b>%</b>	<b>15</b>	<b>17</b>	<b>7</b>	<b>31</b>	<b>25</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100</b>

**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
<b>Total</b>	<b>50,220</b>	<b>17,780</b>	<b>17,517</b>	<b>89,581</b>	<b>0</b>	<b>8,118</b>	<b>43,033</b>	<b>226,250</b>
<b>%</b>	<b>22.2</b>	<b>7.9</b>	<b>7.7</b>	<b>39.6</b>	<b>0.0</b>	<b>3.6</b>	<b>19.0</b>	<b>100.0</b>

**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	Unprotected 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
<b>Total</b>	<b>42,091</b>	<b>50,243</b>	<b>6,220</b>	<b>51,102</b>	<b>22,545</b>	<b>48,841</b>	<b>1,503</b>	<b>831</b>	<b>1,994</b>	<b>497</b>	<b>225</b>	<b>159</b>	<b>226,250</b>
<b>%</b>	<b>18.6</b>	<b>22.2</b>	<b>2.7</b>	<b>22.6</b>	<b>10.0</b>	<b>21.6</b>	<b>0.7</b>	<b>0.4</b>	<b>0.9</b>	<b>0.2</b>	<b>0.1</b>	<b>0.1</b>	<b>100.0</b>

**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
<b>Total</b>	<b>32,677</b>	<b>40,258</b>	<b>17,829</b>	<b>59,263</b>	<b>64,203</b>	<b>12,021</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>226,250</b>
<b>%</b>	<b>14.4</b>	<b>17.8</b>	<b>7.9</b>	<b>26.2</b>	<b>28.4</b>	<b>5.3</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100.0</b>

**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
<b>Total</b>	<b>40,869</b>	<b>13,698</b>	<b>13,458</b>	<b>76,517</b>	<b>0</b>	<b>12,727</b>	<b>68,981</b>	<b>226,250</b>
<b>%</b>	<b>18.1</b>	<b>6.1</b>	<b>5.9</b>	<b>33.8</b>	<b>0.0</b>	<b>5.6</b>	<b>30.5</b>	<b>100.0</b>

**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
<b>Total</b>	<b>5,030</b>	<b>3,686</b>	<b>210,306</b>	<b>7,228</b>	<b>0</b>	<b>226,250</b>
<b>%</b>	<b>2.2</b>	<b>1.6</b>	<b>93.0</b>	<b>3.2</b>	<b>0.0</b>	<b>100.0</b>

**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
<b>Total</b>	<b>73,363</b>	<b>91,011</b>	<b>43,296</b>	<b>14,654</b>	<b>2,596</b>	<b>1,059</b>	<b>159</b>	<b>112</b>	<b>226,250</b>
<b>%</b>	<b>32.4</b>	<b>40.2</b>	<b>19.1</b>	<b>6.5</b>	<b>1.1</b>	<b>0.5</b>	<b>0.1</b>	<b>0.0</b>	<b>100.0</b>

**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
<b>Total</b>	<b>40,939</b>	<b>57,923</b>	<b>48,208</b>	<b>28,817</b>	<b>13,153</b>	<b>9,131</b>	<b>6,294</b>	<b>21,784</b>	<b>226,250</b>
<b>%</b>	<b>18.1</b>	<b>25.6</b>	<b>21.3</b>	<b>12.7</b>	<b>5.8</b>	<b>4.0</b>	<b>2.8</b>	<b>9.6</b>	<b>100.0</b>

**10.16 Number of Agricultural Households Reporting the Status of Food Satisfaction of the Household During the Preceding 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
<b>Total</b>	<b>106,918</b>	<b>83,152</b>	<b>18,598</b>	<b>10,951</b>	<b>6,631</b>	<b>226,250</b>
<b>%</b>	<b>47.3</b>	<b>36.8</b>	<b>8.2</b>	<b>4.8</b>	<b>2.9</b>	<b>100.0</b>

**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
<b>Total</b>	<b>178,370</b>	<b>3,043</b>	<b>1,772</b>	<b>9,492</b>	<b>2,998</b>	<b>8,852</b>	<b>2,526</b>
<b>%</b>	<b>86.1</b>	<b>1.5</b>	<b>0.9</b>	<b>4.6</b>	<b>1.4</b>	<b>4.3</b>	<b>1.2</b>

**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
<b>Total</b>	<b>12,772</b>	<b>1,372</b>	<b>4,828</b>	<b>0</b>	<b>224</b>	<b>207,054</b>
<b>%</b>	<b>6.2</b>	<b>0.7</b>	<b>2.3</b>	<b>0.0</b>	<b>0.1</b>	<b>100</b>



**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**

<b>United Republic of Tanzania</b>							
<b>ACQI</b>	<b>CONFIDENTIAL</b>						
							
Small holder/Small Scale Farmer questionnaire							
Identification <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>							
<b>Agricultural Sample Census 2007/2008</b>							
							
							
Enumerator Name ..... Signature .....							
Date of Enumeration							
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<b>Field level checking by:</b>							
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 ..... / ..... / .....							
<b>District checking in Office</b>							
District Supervisor Name ..... Signature ..... Date ..... / ..... / .....	All questionnaires must be checked at the district office.						
<b>For Use at Regional Level Only</b>							
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 Government 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 or 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 members of the same household even if they stay in separate dwellings. An individual who lives and eat 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		
1.1 Location		Identification <input type="text"/>
Na.	Location Name	Codes
1.1.1	Region .....	<input type="text"/>
1.1.2	District .....	<input type="text"/>
1.1.3	Ward .....	<input type="text"/>
1.1.4	Village .....	<input type="text"/>
1.2 Details of the respondent or household head		
Na.		Codes
1.2.1	Name and number of local leader	<input type="text"/>
1.2.2	Name and number of household head .....	<input type="text"/>
1.2.3	Sex of household head	<input type="text"/>
1.2.4	Name of respondent .....	/
1.2.5	Relationship of Respondent to household head	
<u>Relationship to household head codes (Q 1.2.5)</u> 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	Type of Agriculture Household	<input type="text"/>
<u>Household agricultural activities codes(Q 2.1)</u> Crops only.....1      Livestock only .....2      Pastoralist.....3      Crops and Livestock .....4		

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**Definition and working page for page 2**


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**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 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 not 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													
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)	Marit al Status	Parental Survival		Not applicable for children under 5 years					
						Mother	Father	Read and Write	Education status	Level of education attained	On farm engagem ents	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	.....												
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25	.....												
26	.....												
27	.....												
28	.....												
29	.....												
30	.....												
31	.....												
32	.....												
33	.....												

**Relationship to household head (Col 2)**

Head of household.....1  
 Female/Male.....2  
 Son/Daughter.....3  
 Father/Mother.....4  
 Grandson/daughter....5  
 Other Relatives.....6

**Marital 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  
 Don't know .....3

**Education 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  
 Cannot read or write.....5

**Education Level (Col 10)**
**Primary education**

Below Standard One.....00  
 Standard One .....01  
 Standard Two.....02  
 Standard Three.....03  
 Standard Four.....04  
 Standard Five.....05  
 Standard Six .....06  
 Standard Seven.....07  
 Standard Eight ..08  
 Education.....19  
 Training after Primary Ed...09  
 Pre Form One.....10

**Secondary Education**

Form One.....11  
 Form Two .....12  
 Form Three.....13  
 Form Four .....14  
 Form Five .....15  
 Form Six .....16  
 Training after Secondary Ed....17  
 University and other Tertiary Ed...8  
 Adult  
 Not applicable .....99

**Involvement in farming activities (Col 11)**

Works on farm full time.....1  
 Works on farm part time.....2  
 Rarely works on farm.....3  
 Never works on farm.....4

**Off-farm Income (Col 13)**

These are income made from activities NOT on the HH's farming activities. This can be from formal employment (e.g. in government 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

**Main activity (Col 12)**

Crop farming: .....01.  
 Livestock farming/herding: ....02.  
 Pastoralist .....03  
 Fishing .....04  
 Fish farming .....05  
 Paid employment/  
 Government/parastatal.....06  
 Private/NGOs .....07  
 Self employee (Off-farm activities)  
 - 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



### 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 title 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 together

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 <input type="text"/>	
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) <input type="checkbox"/>
4.1.1	Area under certificate of ownership	<input type="text"/> . <input type="text"/>	
4.1.2	Area owned under customary law	<input type="text"/> . <input type="text"/>	
4.1.3	Area bought	<input type="text"/> . <input type="text"/>	4.1.9 Do you consider to have enough land for your household? (Yes=1, No=2) <input type="checkbox"/>
4.1.4	Area rented from others	<input type="text"/> . <input type="text"/>	
4.1.5	Area borrowed from others	<input type="text"/> . <input type="text"/>	
4.1.6	Area share cropped from others	<input type="text"/> . <input type="text"/>	4.1.10 Is there any female who owns land or has customary rights to land ownership in this household? (Yes=1, No=2) <input type="checkbox"/>
4.1.7	Area under other forms of tenure	<input type="text"/> . <input type="text"/>	
	Total area	<input type="text"/> . <input type="text"/>	
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	<input type="text"/> . <input type="text"/>	
4.2.2	Area planted temporary mixed crops (e.g. maize and beans)	<input type="text"/> . <input type="text"/>	
4.2.3	Area planted permanent monocrops	<input type="text"/> . <input type="text"/>	
4.2.4	Area planted permanent mixed crops (e.g. banana, coffee, trees)	<input type="text"/> . <input type="text"/>	
4.2.5	Area planted permanent and temporary mixed crops (e.g. maize and banana)	<input type="text"/> . <input type="text"/>	
4.2.6	Area under pasture	<input type="text"/> . <input type="text"/>	
4.2.7	Area under fallow	<input type="text"/> . <input type="text"/>	
4.2.8	Area under natural forest	<input type="text"/> . <input type="text"/>	
4.2.9	Area planted trees	<input type="text"/> . <input type="text"/>	
4.2.10	Area rented to others	<input type="text"/> . <input type="text"/>	
4.2.11	Area unsuitable for agriculture	<input type="text"/> . <input type="text"/>	
4.2.12	Uncultivated arable land (minus area under fallow)	<input type="text"/> . <input type="text"/>	
	Total area	<input type="text"/> . <input type="text"/>	

## 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		n . . . . .
Permanent crop 2			0.000		n . . . . .
Permanent crop 3			0.000		n . . . . .
Permanent crop 4			0.000		n . . . . .
Total Area for mixed crops			Total area for permanent crops		n . . . . .
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		n . . . . .
Permanent crop 2			0.000		n . . . . .
Permanent crop 3			0.000		n . . . . .
Permanent crop 4			0.000		n . . . . .
Total area for mixed crops			Total area for permanent crops		n . . . . .
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:**

50	Cotton
51	Tobacco
53	Payrethrum
62	Jute
19	Seaweed

**Crop Codes(Cereal / Tubers/ Roots):**

11	Maize
12	Paddy
13	Sorghum
14	Buirush Millet
15	Finger Millet
16	Wheat
17	Barley
22	Sweet Potatoes
23	Irish Potatoes
24	Yams
25	Cocoyams
26	Onions
27	Ginger

**Vegetable Codes:**

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	Oca
03	Radish
01	Green Beans
04	Bizari

**Crop Codes Legumes and Oil**

31	Beans
32	Cowpeas
33	Green Gram
34	Chick Peas
35	Dengu
36	Bambara nuts
37	Njegere
41	Sun flower
42	Simsem
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 column **b** and enter the ground area per acre for each permanent crop ( from instructions for page 8) in colum d.

(ii) Enter the number of permanent trees in the mix in column e as will be provided to you by the respondent

(iii) Calculate the area occpied by each crop by multiplying column d and column e and sum up these to obatin the total area of permanent crops in the mix.

iv) To obatin the area for temporary crops , subtract (-) the area fro permanent crops from thne total area of crop mix and enter the result 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 temporary crop.

3. After completing the excrise 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 Column 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 difference, check the area and the amount harvested..

5.0	PERMANENT AND TEMPORARY CROP PRODUCTION															Identificatioon				
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																			
Name of Crop	Planting		Main crop owner: Enetr the number of the hh member from page 2 on informati on for hh members	Use of Seeds					Irriga ted area	Pembejeo				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)				
	Crop code	Actual area plnated (acre)		The type of seed plant ed	Use of seeds	Quantity		Cost (Tshs)		Cultiv ated area	Tyep of fertili sers used	Quantity of fertilisers		Coist (Ths)	Cultiv ated areaE neo lililolot 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 old 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 (SCo10,11 & 16)

For the whole crop.....1

3/4 of the wholecrop.....2

1/2 of tyhe whole crop.....3

1/4 old the whole crop.....4

Under 1/4 of the whole crop...5

Not used .....6

Type of fertilisers. ( Col 12)

Organic fertiliser.....1

inorganic fertilisers.....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

Rukwa Region Agriculture Sample Census – 2007/08

### Definitions and working page for page 5

#### Storage (Col. 30, Q 5.1.1):

- **Traditionally Made structures:** The design of storage structures villagers have inherited from forefathers .
- **Improved Traditionally made structures:** The design of traditional 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 aiming 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 regulatina transportation and selling of crops.

#### Inputs (Q 5.1.1)

- Farm Yard Manure:** An organics fertiliser made on farm from animal dung. .
- Compost:** An organic fertiliser made on farm from decomposed plant materials.
- Insecticides:** 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		n . . . . .
Permanent crop 2			0.000		n . . . . .
Permanent crop 3			0.000		n . . . . .
Permanent crop 4			0.000		n . . . . .
Total Area for mixed crops			Total area for permanent crops		n . . . . .
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		n . . . . .
Permanent crop 2			0.000		n . . . . .
Permanent crop 3			0.000		n . . . . .
Permanent crop 4			0.000		n . . . . .
Total area for mixed crops			Total area for permanent crops		n . . . . .
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/ pests /

**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(Cereal / Tubers/ Roots):**

Code	Crop
11	Maize
12	Paddy
13	Sorghum
14	Burush Millet
15	Finger Millet
16	Wheat
17	Barley
22	Sweet Potatoes
23	Irish Potatoes
24	Yams
25	Cocoyams
26	Onions
27	Ginger

**Vegetable Codes:**

Code	Crop
86	Cabbage
87	Tomatoes
88	Spinach
89	Carrot
90	Chillies
91	Amaranth
92	Pumpkin
93	Cucumber
94	Egg plant
95	Water melon
96	Cauliflower
06	Mellon
05	nyanyachungu
02	Ora
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:

- List each of tyhe permanent crop in collumn b and enter the ground area per acre for each permanent crop ( from instructions for page 8) in collum d.
- Enter the number of permanent trees in the mix in collumn e as will be provided to you by the respondent
- Calculate the area occupied by each crop by multiplying collumn d and collumn e and sum up these to obtain the total area of permanent crops in the mix.
- To obtain the area for temporary crops , subtract (-) the area fro permanent crops from thne total area of crop mix and enter the result in in the total area under temporary crops.
- Proceed to step 1 to calculate the area under each temporary crop.

- Enter the name of each temporary crop in tyhe crop mix and estimate percentages of each crop.
- Using the percentage for each crop, calculate the are for each crop from the remaining area under temporary crop.
- After completing the excrise 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.
- Once the quantity harvested is obtained , calculate the yields (metric tonnes/acre) and compare the figures with the norms given in the crops code box. If there is significantly difference, check the area and the amount harvested..

Rukwa Region Agriculture Sample Census – 2007/08



[illegible]

## Definitions and working page for page 7

**Storage (Col. 30, Q 5.2.1):**

- **Traditionally Made structures:** The design of storage structures villagers have inherited from forefathers .
- **Improved Traditionally made structures:** The design of traditional storagesrtructures 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 aiming 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 regulatina transpoartation 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.
- Insecticides:** 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 5.2.1. 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.

**Working area/calculation space**

Definitions and working page for page 8																																																																																																																																																						
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>Permanent Crops:</b> 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.</p> <p><b>Number of Trees:</b> These include manure trees and premature trees.</p> <p><b>Number of mature plants:</b> A total of fruit bearing tress (e.g. mango trees, orange trees, avocado trees e.t.c).</p> <p><b>Instructions for permanent monocrops and crop mix:</b>  <b>A.</b> For a field with permanent monocrop enter farm size in collumn. 3.  <b>B.</b> For a field with a permanent crop mix or a temporary crop mix, enter the number of trees only in collumn 4.  <b>C.</b> 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 obtained through calcuation of percentages of each crop            OR            Enter the number of tree in collumn 5, if the number of plants/ seedlings of permanent crops was evcluded</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p><b>21 Cassava:</b> 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.</p> </div> </div> <div style="width: 50%;"> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p><b>Permanent crops:( crop oils)</b></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Code</th> <th style="text-align: left;">Crop</th> <th style="text-align: left;">Area per crop</th> </tr> </thead> <tbody> <tr><td>44</td><td>Palm Trees</td><td>0.00049</td></tr> <tr><td>45</td><td>Coconut tree</td><td>0.00037</td></tr> <tr><td>46</td><td>Cashew nut tress</td><td>0.00062</td></tr> </tbody> </table> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p><b>Permanent crops ( Cash crops)</b></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Code</th> <th style="text-align: left;">Crop</th> <th style="text-align: left;">Area per crop</th> </tr> </thead> <tbody> <tr><td>53</td><td>Sisal</td><td>0.00012</td></tr> <tr><td>54</td><td>Coffee</td><td>0.00049</td></tr> <tr><td>55</td><td>Tea</td><td>0.00037</td></tr> <tr><td>56</td><td>Cocoa</td><td>0.00049</td></tr> <tr><td>57</td><td>Rubber</td><td>0.00099</td></tr> <tr><td>58</td><td>Wattle</td><td>0.00099</td></tr> <tr><td>59</td><td>Kapok</td><td>0.00124</td></tr> <tr><td>60</td><td>Sugar-cane</td><td>0.00012</td></tr> <tr><td>61</td><td>Cardamon</td><td>0.00049</td></tr> <tr><td>63</td><td>Tamarin</td><td>0.00099</td></tr> <tr><td>64</td><td>Cinarmon</td><td>0.00124</td></tr> <tr><td>65</td><td>Nutmeg</td><td>0.00099</td></tr> <tr><td>66</td><td>Clove</td><td>0.00074</td></tr> <tr><td>18</td><td>Black pepper</td><td>0.00037</td></tr> <tr><td>34</td><td>Pigeon Peas</td><td>0.00025</td></tr> <tr><td>21</td><td>Cassava</td><td>0.00019</td></tr> <tr><td>75</td><td>Pineapple</td><td>0.00006</td></tr> <tr><td>86</td><td>Lemon Grass</td><td></td></tr> </tbody> </table> </div> <div style="border: 1px solid black; 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## Definitions and working page for page 9

**Storage (Col. 33, Q 5.3.1):**

- **Traditionally Made structures:** The design of storage structures villagers have inherited from forefathers .
- **Improved Traditionally made structures:** The design of traditional 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 aiming 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 fertiliser made on farm from animal dung. .
- Compost:** An organic fertiliser made on farm from decomposed plant materials.
- Insecticides:** 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 control 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 acreage

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 and NOT the cumulative areas recultivated in 2 or more cropping seasons.

**Farm Implements (Col. 1):**

**Machette** : Include all implements use in tree cutting namely cicle, etc.

**Sprinkler**: The pump carried 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 garicultrual 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.

**Insecticides**: 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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.2.6 Power Tiller	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tractor hallow	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Castrated bulls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>6.3 USE OF ORGANIC FERTILISERS</b>				
Uncastrated bulls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.3.1 Give details on the use of organic fertilisers during 2007/08 agriculture year				
Cows	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Type of fertiliser	Used	Yes=1, No=2	Quantity	Quantity used
Donkeys	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(1)		(2)	(3)	(4)
Shredding Machine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Area used (Acre)				
Power Tiller	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(5)				
Oxen pulled plough for making terraces	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.3.2 Manure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				6.3.3 Compost	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<b>ACCES TO INPUTS</b>			
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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Farm yard manure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Compost	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insecticides/Fungicide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pest and weeds control chemicals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Improved seeds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<b>IRRIGATED FARMING</b>			
Did the household use irrigated farming during 2007/08 agriculture year? Yes=1, No = 2 <input type="checkbox"/>			
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)
	(1)	(2)	(3)
6.5.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<b>Source (Col.3)</b>	
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	

<b>Quantity (Col 3)</b>	
Kg.....1	
Ton.....2	

<b>Distance from the source (Cola 4)</b>	
Under 1 kilometre.....1	
Between One and three kilometres .....2	
Between three and 10 kilometres3	
Between 10 and 20 Kilometres .....4	
Over 20 Kilometres.....5	
Not applicable.....9	

<b>Source of irrigation water (Col 1)</b>	
River.....1	Wells .....4
Lake .....2	Deep wells.....5
Dams.....3	Cannals .....6
Tape water.....7	

<b>Means of obtaining water(C012)</b>	
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 control/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 down 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 erosion.

**Sand bags:** Are used in controlling and preventing gully erosion  
**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.

Rukwa Region Agriculture Sample Census – 2007/08



### 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 livestock 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 (section 9.1.1 to 9.1.7)

**Bull:** Mature uncastrated male cattle used for breeding

**Cow:** Mature female cattle that has given birth at least once

**Ox:** Castrated male cattle used for farm work

**Steer:** Castrated male 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	<b>LIVESTOCK (LIVESTOCK AND FISH)</b>					Identification <input type="text"/>				
9.1	<b>CATTLE</b>									
Did your household keep or raise cattle during 2007/08 agriculture year? Yes=1, No= 2 (If the answer is No proceed to <input type="text"/> )										
Section 9.3										
Number of cattle as of 1.10.2008										
No.	Type of cattle				Number of indigenous cattle	Number of improved cattle				Total
					(2)	(3)		(4)		(5)
9.1.1	Castrated bulls				<input type="text"/>	<input type="text"/>		<input type="text"/>		<input type="text"/>
9.1.2	uncastrated bulls				<input type="text"/>	<input type="text"/>		<input type="text"/>		<input type="text"/>
9.1.3	Cows				<input type="text"/>	<input type="text"/>		<input type="text"/>		<input type="text"/>
9.1.4	Steers				<input type="text"/>	<input type="text"/>		<input type="text"/>		<input type="text"/>
9.1.5	Heifer				<input type="text"/>	<input type="text"/>		<input type="text"/>		<input type="text"/>
9.1.6	Male calves				<input type="text"/>	<input type="text"/>		<input type="text"/>		<input type="text"/>
9.1.7	Female calves				<input type="text"/>	<input type="text"/>		<input type="text"/>		<input type="text"/>
									Grand total	<input type="text"/>
9.1.8	What main methods do you use to identify your cattle? <input type="text"/>									
<b>Cattle identification methods</b> Iron stamp (chapa moto).....1      Throat.....2      Ear/tail cutting.....3 Colour.....4      Earrings.....5      Other .....8										
9.2	<b>Milk production: CATTLE</b>									
Na.	Season	Type of cattle	Number of milked cows	Average of milk per cow per day (litre)	Average number of days which your cows were milked		Average price per litre per season			
	(1)	(2)	(3)	(4)	(5)		(6)			
9.2.1	Rainy	Improved	<input type="text"/>	<input type="text"/>	<input type="text"/>		<input type="text"/>			
9.2.2		Indigenous	<input type="text"/>	<input type="text"/>	<input type="text"/>		<input type="text"/>			
9.2.3	Dry	Improved	<input type="text"/>	<input type="text"/>	<input type="text"/>		<input type="text"/>			
9.2.4		Indigenous	<input type="text"/>	<input type="text"/>	<input type="text"/>		<input type="text"/>			
9.3	<b>GOAT</b>									
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) <input type="text"/>										
Number of goats as of 1.10.2008										
Na.	Type of goat			Number of indigenous goat	Number of improved				Total	
	(1)			(2)	(3)		(4)		(5)	
9.3.1	Male uncastrated goat			<input type="text"/>	<input type="text"/>		<input type="text"/>		<input type="text"/>	
9.3.2	Male castrated goat			<input type="text"/>	<input type="text"/>		<input type="text"/>		<input type="text"/>	
9.3.3	She goat			<input type="text"/>	<input type="text"/>		<input type="text"/>		<input type="text"/>	
9.3.4	Male kid			<input type="text"/>	<input type="text"/>		<input type="text"/>		<input type="text"/>	
9.3.5	She kid			<input type="text"/>	<input type="text"/>		<input type="text"/>		<input type="text"/>	
									Grand total	<input type="text"/>
<b>Milk Production: GOAT</b>										
Na.	Season	Number of milked goats		Average of milk per goat per day (litre)	Average number of days which your she goats were milked		Average price per litre per season			
	(1)	(2)		(3)	(4)		(5)			
9.3.6	Rainy	<input type="text"/>		<input type="text"/>	<input type="text"/>		<input type="text"/>			
9.3.7	Dry	<input type="text"/>		<input type="text"/>	<input type="text"/>		<input type="text"/>			

### 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 livestock 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 (Section 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 breeding

**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 <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>				
<b>9.4</b>	<b>SHEEP</b>			
	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) <span style="border: 1px solid black; padding: 2px 5px;">  </span>			
	<b>Number of sheep as of 1.10.2008</b>			
Na.	<b>Type of sheep</b>	<b>Number of indigenous sheep</b>	<b>Number of improved</b>	<b>Total</b>
	(1)	(2)	(3)	(5)
9.4.1	Ram	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>
9.4.2	Castrated sheep	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>
9.4.3	Sheep	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>
9.4.4	Male lamb	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>
9.4.5	Female lamb	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>
<b>Grand total</b>				<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>
<b>9.5</b>	<b>PIGS</b>			
	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) <span style="border: 1px solid black; padding: 2px 5px;">  </span>			
	<b>Number of pigsp as of 1.10.2008</b>			
Na.	<b>Type Pigs</b>	<b>Number of pigs</b>		
	(1)	(2)		
9.5.1	Boar	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>		
9.5.2	Castrated male	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>		
9.5.3	Sow/Gilt	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>		
9.5.4	Male piglet	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>		
9.5.5	Female piglet	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>		
<b>Grand total</b>				<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>
<b>9.6</b>	<b>OTHER LIVESTOCK</b>			
	<b>Type of animal</b>	<b>Number as of 1 October 2008</b>	<b>Number of eggs</b>	
	(1)	(2)	2007/08 agriculture year	
	(1)	(2)	(3)	
9.6.1	Local chicken	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>	
9.6.2	Layers	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>	
9.6.3	Broilers	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>		
9.6.4	Ducks	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>	
9.6.5	Guinea pigs	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>		
	<b>Type of animal</b>	<b>Number as of 1 October 2008</b>	<b>Number of Eggs</b>	
	1	(2)	2007/08 agriculture year	
	1	(2)	(3)	
9.6.6	Turkeys	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>	
9.6.7	Rabbit	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>		
9.6.8	Donkeys	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>		
9.6.9	Horses	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>		
9.6.10	Dogs	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>		

**Definitions and working page for page 14****Control of livestock diseases 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 from livestock and transmits animals diseases from one to the other animal.

**Tse tse fly:** A fly like bug that sucks blood from livestock and transmits diseases spreading 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)		<input type="checkbox"/>	<input type="checkbox"/>
9.7.1	Which animals did your deworm? ( Yes=1, No =2, Not applicable=3 in the relevant box) Cattle <input type="checkbox"/> 9.7.2 Goat/Sheep <input type="checkbox"/> 9.7.3 Pigs <input type="checkbox"/> 9.7.4 Poultry <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.7.5	Do you experience tick problem with your livestock? (Yes =1, No = 2, Not applicable 3)	<input type="checkbox"/>	<input type="checkbox"/>
9.7.6	How did you control tick problem? <u>Control method (Q. 9.7.6):</u> Dipping.....1 Spaying.....2 Application of medicine on back bone.....3 None..4 ..... Other.....8	<input type="checkbox"/>	NOTE : If answers to Qs 9.1 to 9.6 is No (THAT IS THE HOUSEHOLD DOES NOT RAISE LIVESTOCK) Proceed to q.9.9
9.7.7	Do you experience Tse tse problem with your livestock? (Yes =1, No = 2, Not applicable 3)	<input type="checkbox"/>	
9.7.8	How did you control Tse tse problem with your livestock? <u>Control method (Q. 9.7.8):</u> Dipping.....1 Spaying.....2 Traps.....3 None..4 ..... Other.....8	<input type="checkbox"/>	
9.7.9	Do you experience Newcastle disease problem with your poultry? (Yes =1, No = 2, Not applicable 3)	<input type="checkbox"/>	
9.7.10	How do you control Newcastle disease problem with your poultry? <u>Control/curative methods (Q. 9.7.10):</u> Vaccination...1 Herbs....2 None...3	<input type="checkbox"/>	
9.7.11	Did you experience Fowl Typhoid with your poultry? Yes=1, No=2, Not applicable=3	<input type="checkbox"/>	
9.7.12	How did you control/ cure Fowl Typhoid with your poultry? <u>Control/curative methods (Q. 9.7.12):</u> Vaccination...1 Herbs....2 None...3	<input type="checkbox"/>	
9.7.13	Were your cattle vaccinated against the following diseases? (Yes = 1, No = 2, Not applicable=3). 9.7.13 A: Foot and Mouth diseases <input type="checkbox"/> 9.7.13B: Skin disease <input type="checkbox"/>	<input type="checkbox"/>	
9.8 Extension services on livestock			
Did you receive the following extension advice on the following? (IF THE ANSWER IS NO IN COL 2 PROCEED TO THE FOLLOWING QUESTION)			
Na.	Livestock extension advice	Received Extension advice (Yes=1, No=2)	Source of Extension
	(1)	(2)	(3)
9.8.1	Feed and better feeding methods	<input type="checkbox"/>	<input type="checkbox"/>
9.8.2	Improved livestock shed (Goat, Dairy cattle, Poultry and pigs)	<input type="checkbox"/>	<input type="checkbox"/>
9.8.3	Milking and hygiene	<input type="checkbox"/>	<input type="checkbox"/>
9.8.4	Cattle fattening	<input type="checkbox"/>	<input type="checkbox"/>
9.8.5	Livestock diseases control	<input type="checkbox"/>	<input type="checkbox"/>
9.8.6	Livestock keeping in line with land availability	<input type="checkbox"/>	<input type="checkbox"/>
9.8.7	Pasture establishment and maintenance	<input type="checkbox"/>	<input type="checkbox"/>
9.8.8	Forming and strengthening groups/cooperatives	<input type="checkbox"/>	<input type="checkbox"/>
9.8.9	Calf rearing	<input type="checkbox"/>	<input type="checkbox"/>
9.8.10	Basics of production and use of improved bulls (AI)	<input type="checkbox"/>	<input type="checkbox"/>
9.8.11	Animals feed production	<input type="checkbox"/>	<input type="checkbox"/>
9.8.12	Other extension advice (Specify) .....	<input type="checkbox"/>	<input type="checkbox"/>
<u>Source of agriculture extension (S/wima 3)</u> Government.....1 NGO/Development project.....2 Cooperative Union.....3 Large Scale farmer.....4 Radio/TV/Newspapers.....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, type 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 <span style="border: 1px solid black; padding: 2px;">  </span> <span style="border: 1px solid black; padding: 2px;">  </span> <span style="border: 1px solid black; padding: 2px;">  </span> <span style="border: 1px solid black; padding: 2px;">  </span> <span style="border: 1px solid black; padding: 2px;">  </span> <span style="border: 1px solid black; padding: 2px;">  </span> <span style="border: 1px solid black; padding: 2px;">  </span> <span style="border: 1px solid black; padding: 2px;">  </span> <span style="border: 1px solid black; padding: 2px;">  </span>				
Did your household practice fish farming? Yes=1, No=2 (If the answer is no proceed to section 9.10) <span style="float:right; border: 1px solid black; padding: 2px;">  </span>														
Give details on the fish farming during 2007/08 agriculture year														
No.	Number of Ponds	Aina ya ufugaji	Square area of pond (m <sup>2</sup> )	Source of fingerings	What is the frequency of stocking during the period?	Kiwango cha Huduma ya bwawa	Total number of stoked fish				Total number of fish harvested	Total weight of all fish		What is the main fish outlet?
							Tialpia	Mwatiko	Crabs	Lulu		waliovuliwa (kg)	waliouzwa (kg)	
							(7)	(8)	(9)	(10)		(11)	(12)	
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 services to the pond (Col 6)**  
 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 <span style="float:right; border: 1px solid black; padding: 2px;">  </span>									
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 ownership  
 03 Poor farm implementso  
 04 Soil fertility  
 05 Availability of improved 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 storage  
 18 Crop processing  
 19 Market information  
 20 High transporation costs  
 21 Destructive animals  
 22 Crop theft  
 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, dining 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):**

These assets must be functional. 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 cash during 2007/08 agricultural season.

10.0 POVERTY INDICATORS				Identification <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>																																							
<b>10.1 HOUSE CONSTRUCTION</b> Specify materials used in the construction of the following sehemu zifuatazo				<b>10.2 Household property</b> Does your household own the following?, (Yes=1 No =2)																																							
<b>10.1.1 Roof</b> <input type="text"/> <b>10.1.2 Floor</b> <input type="text"/> <b>10.1.3 Wall</b> <input type="text"/>				<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Number</th> <th style="width: 60%;">Property</th> <th style="width: 30%;">Yes=1, No=2</th> </tr> <tr> <th></th> <th>(1)</th> <th>(2)</th> </tr> </thead> <tbody> <tr> <td>10.2.1</td> <td>Radio (Radio, Radio Casette, music system)</td> <td><input type="text"/></td> </tr> <tr> <td>10.2.2</td> <td>Land line</td> <td><input type="text"/></td> </tr> <tr> <td>10.2.3</td> <td>Celkl phone</td> <td><input type="text"/></td> </tr> <tr> <td>10.2.4</td> <td>Iron</td> <td><input type="text"/></td> </tr> <tr> <td>10.2.5</td> <td>Trolley</td> <td><input type="text"/></td> </tr> <tr> <td>10.2.6</td> <td>Bycicle</td> <td><input type="text"/></td> </tr> <tr> <td>10.2.7</td> <td>Vehicle</td> <td><input type="text"/></td> </tr> <tr> <td>10.2.8</td> <td>TV/ Video</td> <td><input type="text"/></td> </tr> <tr> <td>10.2.9</td> <td>Refrigerator</td> <td><input type="text"/></td> </tr> <tr> <td>10.2.10</td> <td>Motorbike/vespa</td> <td><input type="text"/></td> </tr> </tbody> </table>				Number	Property	Yes=1, No=2		(1)	(2)	10.2.1	Radio (Radio, Radio Casette, music system)	<input type="text"/>	10.2.2	Land line	<input type="text"/>	10.2.3	Celkl phone	<input type="text"/>	10.2.4	Iron	<input type="text"/>	10.2.5	Trolley	<input type="text"/>	10.2.6	Bycicle	<input type="text"/>	10.2.7	Vehicle	<input type="text"/>	10.2.8	TV/ Video	<input type="text"/>	10.2.9	Refrigerator	<input type="text"/>	10.2.10	Motorbike/vespa	<input type="text"/>
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10.2.10	Motorbike/vespa	<input type="text"/>																																									
<b>Roofing materials</b> Iron sheets.....1 Tiles.....2 Concrete.....3 Asbestos.....4 Grass/Makuti.....5 Grass and mud.....6 Other.....8				<b>Floor materials</b> Earthen material.....1 Wood.....2 Wooden tiles.....3 Tiles.....4 Cement.....5 Other.....8																																							
<b>Main materials</b> 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 <input type="text"/>																																											
<b>10.3 Energy use and availability in the household</b>				<b>10.4 Availability of drinking water</b>																																							
<b>Main source of energy</b> <b>10.3.1 Lightining</b> <input type="text"/> <b>10.3.2 Cooking</b> <input type="text"/>				<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Season</th> <th style="width: 15%;">Main source of water</th> <th style="width: 20%;">Distance from source ( km)</th> <th style="width: 50%;">Time spent waiting or going to and from the source (Hours)</th> </tr> <tr> <th>(1)</th> <th>(2)</th> <th>(3)</th> <th>(4)</th> </tr> </thead> <tbody> <tr> <td>10.4.1 Rainy</td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> <tr> <td>10.4.2 Dry period</td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> </tbody> </table>				Season	Main source of water	Distance from source ( km)	Time spent waiting or going to and from the source (Hours)	(1)	(2)	(3)	(4)	10.4.1 Rainy	<input type="text"/>	<input type="text"/>	<input type="text"/>	10.4.2 Dry period	<input type="text"/>	<input type="text"/>	<input type="text"/>																				
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<b>Nishati za Kuanqazia</b> Umeme.....01 Sola.....02 Gesi (biogas).....03 Taa ya kandili.....04 Karabai.....05 Kibabari.....06 Mishumaa.....07 kuni.....08 Nyingine.....98				<b>Nishati za kupikia</b> Umeme.....01 Sola.....02 Gesi (biogas).....03 Gesi (Kiwandani).....04 Mafuta ya taa.....05 Mkaa.....06 Kuni.....07 Mabaki ya Mazao.....08 Kinyesi cha.....09 Wanyama.....09 Nyingine.....98																																							
<b>Main source of drinking water</b> <b>Col. 2</b> Tape water.....01 Water venders.....09 Artificial well.....02 Boozer.....10 Artificial spring.....03 Bottled water.....11 Openwell.....04 Other (Specify).....98 Natural spring.....05 Lake water, pond, river, stream n etc.....06 Covered Rain water harvesting well.....07																																											
<b>Note: Code 01, Bomba kwa Zanzibar hujulikana kama Mfereji</b>																																											
<b>10.5 Toilet facilities</b> <b>10.5.1</b> What type of toilet does your household use? <input type="text"/>				<b>10.6 Eating patterns</b>																																							
<b>Type of toilet</b> No toilet/in the bush.....1 Pit latrine.....4 Flush toilet.....2 Other type (Specify).....8 Ordinal pit latrine.....3				<table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>10.6.1 How many meals does your household usually get per day ?</td> <td><input type="text"/></td> </tr> <tr> <td>10.6.2 How days did the household eat meat last week?</td> <td><input type="text"/></td> </tr> <tr> <td>10.6.3 How days did the household eat fish last week?</td> <td><input type="text"/></td> </tr> <tr> <td>10.6.4 How many times did the household experience food shortages last year?</td> <td><input type="text"/></td> </tr> </tbody> </table>				10.6.1 How many meals does your household usually get per day ?	<input type="text"/>	10.6.2 How days did the household eat meat last week?	<input type="text"/>	10.6.3 How days did the household eat fish last week?	<input type="text"/>	10.6.4 How many times did the household experience food shortages last year?	<input type="text"/>																												
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<b>10.7 Main source of household cash income?</b> <b>10.7.1</b> What are the sources of household income? <input type="text"/>				<b>Food shortage problems (Swali 10.6.4)</b> Never.....1 Few times.....2 Sometimes.....3 Many times.....4 Often.....5																																							
<b>Code for source of income</b> Selling food crops.....01 Sales of forest products.....05 Cash assistance.....09 Sales of livestock.....02 Business.....06 Fishing.....10 Sales of livestock products.....03 Salaries.....07 Other.....98 Sales of cash crops.....04 Casual labour.....08 None.....99																																											
				<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;">TIME OF FINISHING THE INTERVIEW</th> <th style="width: 20%;">Hour</th> <th style="width: 20%;">Minutes</th> </tr> </thead> <tbody> <tr> <td></td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> </tbody> </table>				TIME OF FINISHING THE INTERVIEW	Hour	Minutes		<input type="text"/>	<input type="text"/>																														
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	<input type="text"/>	<input type="text"/>																																									

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 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		
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

<b>ACQ 3</b>	<b>United Republic of Tanzania</b>	<b>CONFIDENTIAL</b>						
								
 <b>Village/Community Level Formats</b> Access to and Use of Community Resources Farm Gate Prices of commodities produced by the village								
								
 <b>Agricultural Sample Census 2007/2008</b>		<b>NUMBER OF FARMERS HH IN THE VILLAGE</b> To be filled by the enumerator after completing form ACLF2 <input type="text"/>						
		<b>NUMBER OF HH MEMBERS</b> To be filled by the enumerator after completing form ACLF2 <input type="text"/>						
Region	<input type="text"/>	Ward						
District	<input type="text"/>	Village						
<b>Enumerator Name</b> _____ <b>Signature</b> _____ <b>Date of Enumeration</b> <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <div style="display: flex; justify-content: space-around; width: 100px;"> <span>d d</span> <span>m m</span> <span>y y y y</span> </div> </div> <div> <b>Start Time</b>  <input type="text"/> <input type="text"/> : <input type="text"/> <input type="text"/> </div> </div> <div style="display: flex; align-items: center; margin-top: 5px;"> <div> <b>End Time</b>  <input type="text"/> <input type="text"/> : <input type="text"/> <input type="text"/> </div> <div style="margin-left: 20px;"> <table border="1" style="border-collapse: collapse;"> <tr> <th style="padding: 2px;">Hour</th> <th style="padding: 2px;">Minutes</th> </tr> <tr> <td style="width: 30px; height: 30px;"></td> <td style="width: 30px; height: 30px;"></td> </tr> <tr> <td style="width: 30px; height: 30px;"></td> <td style="width: 30px; height: 30px;"></td> </tr> </table> </div> </div>			Hour	Minutes				
Hour	Minutes							
<b>Field level checking by:</b> 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  All questionnaires must be checked at the district office.						
<b>District checking in Office</b> District Supervisor      Name _____ Signature _____ Date ____/____/____								
<b>For Use at Regional Level Only</b> Data entered by:      Name _____ Signature _____ Date ____/____/____ Queried      Name _____ Signature _____ Date ____/____/____		See the back page for details of queries						
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 Government 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 influential farmers in the village. Influential people can be Village Chairman, Village Government 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 official 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 farmers.

**Government 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.

**Indigenous 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) <input type="checkbox"/>									
(If the answer is no proceed to 1.2)									
Area of Community, Village, Ward resources					Area in acre				
1.1.1 Total area of communal land					Official figures from the leader				
1.1.2 Area of squatting farmers 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/KIJI/SHEHA									
Community Resources		Distance from the resource in Km -season			Main Use		Instructions on distance from the resource (Cols 2 and 3): Distance is estimated from the centre of the village. If under 1 km 1, enter 0 If above 1 km 1 enter whole number, eg. 1.5km= 2km, 1.25km= 1km		
		Dry (2)		Rainy (3)					
1.2.1 Water for human consumption									
1.2.2 Water for livestock									
1.2.3 Communal grazing land									
1.2.4 Communal firewood									
1.2.5 Wood for charcoal burning									
1.2.6 Wood for building poles									
1.2.7 Forest for bee keeping (honey)									
1.2.8 Hunting									
1.2.9 Fishing									
Main uses (Col. 4) Home or farm /livestock consumption...1 Sold to traders in the village.....2 Sold to the village market.....3 Sold to local wholesalers.....4 Sold to Big wholesalers.....5 Not available.....6									
2. COMMUNITY PLANTED TREES									
2.1 Did your village have community planted trees during 2007/08 agriculture year? (Yes=1, No=2) <input type="checkbox"/>									
(If the answer is no proceed to Section 3.0)									
Details of the community tree planting scheme									
No.	Distance from the community forest	Forest Area (acre)	Type of Planting	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		Source of seedlings (Col. 5) Seeds collection and planting.....1 Village Nursery.....2 Department of Forestry.....3 Private Individuals.....4			Main Uses (Col. 7) Poles.....1 Wood.....2 Charcoal.....3 Firewood.....4 Other (Specify).....8		Main use of revenue (Col. 8) Village development fund 1 Household use.....2 Household income.....3		
Type of trees (Col. 4) Indigenous trees.....1 Exotic tree.....2 Both types.....3									
3.0 Non governmental Organisation (NGOs) Contact					4.0 Community Based Organisation				
3.1 Did any NGO visit the village during 2007/08 agriculture year? (Yes=1, No=2) (If no proceed to Section 4) <input type="checkbox"/>					4.1 Did the village have any CBO during the 2007/08 agriculture year? (Yes=1, No=2) <input type="checkbox"/>				
Na.	Type of NGO	Visited Yes=1, No=2	Number of visits	Distance to the Office (km)	Na.	Type of CBO Ndi=1, Hag=2			
3.2	Extension/ Research				4.2	Extension/ Research			
3.3	Service /Input provision				4.3	Service /Input provision			
3.4	Community Development				4.4	Community Development			
3.5	Other				4.5	Other			
5.1 Did the village have Field farm schools during 2007/08 agriculture year? (Yes=1, No=2) <input type="checkbox"/>					5.2 Did the village participate in any research on crops / improved livestock during the village during 2007/08 agriculture year? (Yes=1, No=2) <input type="checkbox"/>				
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) <input type="checkbox"/>					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. <input type="checkbox"/>				
5.4 Number of local ironsmiths					5.6 Number of training centres for draft animals				

**Procedure:** Administer this from after completing all 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 livestock raised by the household from questions 9.1, 9.3, 9.4 and 9.5 and enter them in column 1 of this form. Also see codes for livestock below.
2. Enter price estimates per kg in col 5 and 6.

**L**


## Appendix V

## Village Community Level formats

UNITED REPUBLIC OF TANZANIA



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**ACLF 1**



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**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**



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**Household listing from-for listing hh heads and agriculture activities**

Region \_\_\_\_\_ Code   Name of sub village leader \_\_\_\_\_

District \_\_\_\_\_ Code   Name of sub village \_\_\_\_\_

Ward \_\_\_\_\_ Code

Village \_\_\_\_\_ Code

Household number	Household head name	Fields a	Number of								If the Respondent Qualifies X	Farmer Serial Number	
			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)
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Rukwa Region Agriculture Sample Census – 2007/08