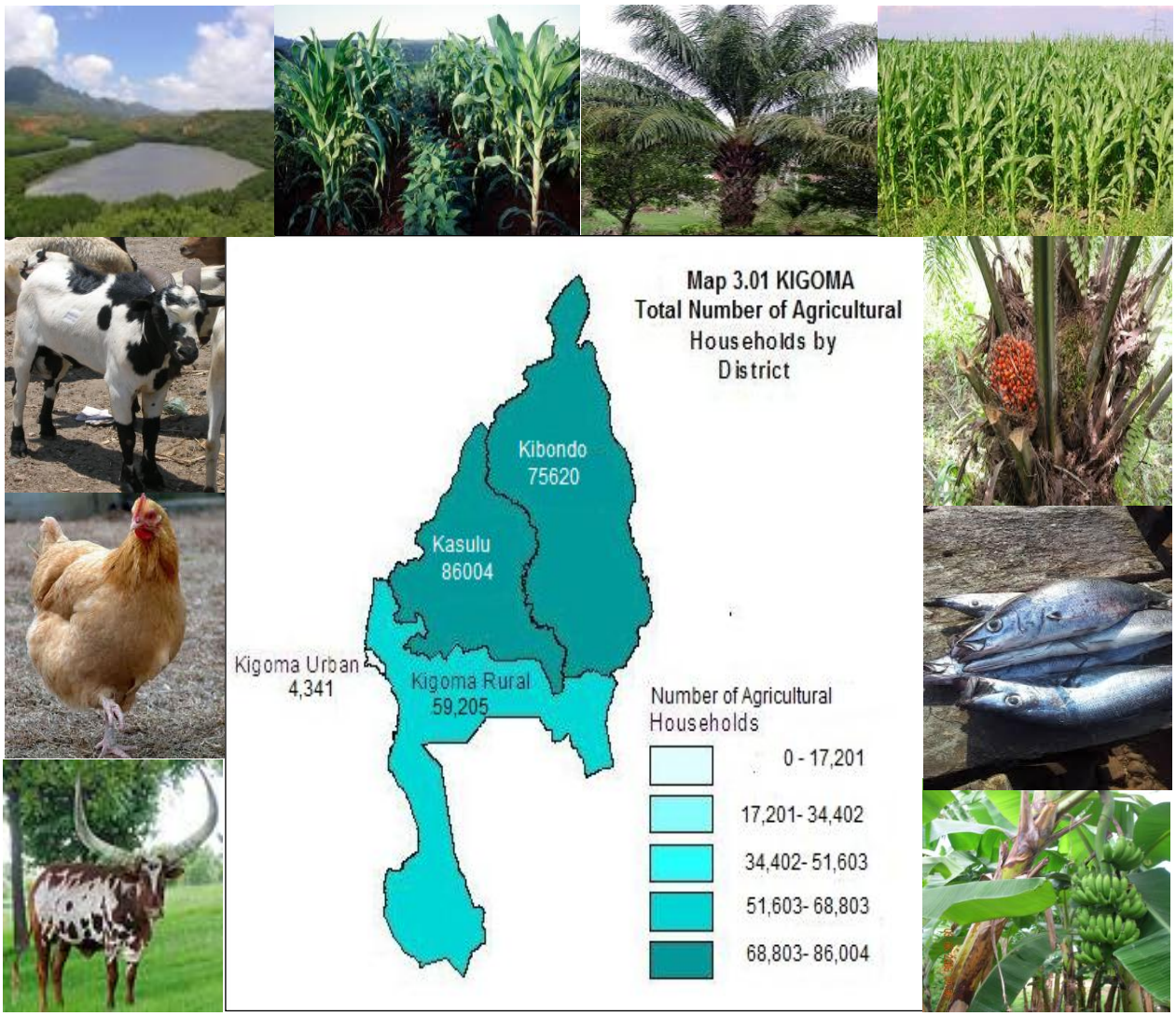
The United Republic of Tanzania

NATIONAL SAMPLE CENSUS OF AGRICULTURE 2007/2008

Volume Vp: REGIONAL REPORT: KIGOMA 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 Resource, 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

JULY, 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
MITM	Ministry of Industries and Trade and Marketing
MLFD	Ministry of Livestock and Fisheries Development
NBS	National Bureau of Statistics
NGO	Non Governmental Organization
NMS	National Master Sample
NSCA	National Sample Census of Agriculture
NSGRP	National Strategy for Growth and Reduction of Poverty (MKUKUTA)
OCGS	Office of Chief Government Statistician Zanzibar
PMO-RALG	Prime Minister's Office, Regional Administration and Local Government

PPS	Probability Proportional to Size
PSU	Primary Sampling Unit
RS	Regional Supervisor
RSM	Regional Statistical Manager
SPSS	Statistical Package for Social Science
SRS	Short Rainy Season
TOT	Training of Trainers
UNDP	United Nations Development Programme
UNFAO	United Nations Food and Agriculture Organization

PREFACE

At the end of the 2007/08 Agricultural Year, the National Bureau of Statistics (NBS) in collaboration with the Ministries of Agriculture, Food Security and Cooperatives, Livestock and Fisheries Development; Water; Industry and Trade; the Prime Minister's Office, Regional Administration and Local Government (PMO/RALG) and the Office of the Chief Government Statistician, (OCGS), Ministries of Agriculture and Natural Resources; Livestock and Fisheries conducted the Agricultural Sample Census. This is 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 indicators. In addition to this, the census was large in its scope and coverage as it 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 at regional and district level and it focuses on smallholders crop production and livestock keeping.

The extensive nature of the census in relation 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 administrative 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 also like to mention the enormous effort made by the Planning Group composed of professionals from the Agriculture Statistics Department of the National Bureau of Statistics, Ministry of Agriculture, Food Security and Cooperatives, Ministry of Livestock Development and Fisheries, Ministry of Water and Irrigation, Ministry of Agriculture, Livestock and

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

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

Dr. Albina A. Chuwa
Director General
National Bureau of Statistics

EXECUTIVE SUMMARY

The executive summary highlights the main survey results obtained during the National Sample Census of Agriculture 2007/08. This report covers small-scale agriculture households in rural areas of Kigoma region who were selected using statistical sampling techniques. The results presented in this report do not cover urban areas and large-scale farmers.

Highlighted are important findings regarding agricultural production, productivity, husbandry, access to resources, levels of involvement in agricultural and related activities and poverty in Kigoma region, the aim being to present an overview of the rural agricultural households and their levels of involvement in agricultural activities in the region.

i) Household Characteristics

The number of agricultural households in Kigoma region was 225,171 out of which 157,416 (69.9%) were involved in growing crops only, 463, (0.2%) rearing livestock only, and 67,292 (29.9%) were involved in crop production as well as livestock keeping. Agricultural households who were pastoralists were not recorded in Kigoma in the census year. Most of the agricultural households ranked annual crop farming as an activity that provided most of their cash income followed by both crops and livestock keeping and lastly livestock keeping/herding.

Kigoma region had a literacy rate of 74.5 percent. The highest literacy rate was found in Kigoma urban (86.3%) followed by Kasulu (75.1%), Kigoma rural (75.0%) and lastly Kibondo district which recorded 72.3 percent. The literacy rate for the heads of households in the region was 76 percent.

The number of heads of agricultural households without formal education was 55,454 (25%).Those who were still attending school were 2,759 (1%) and the number of heads of agricultural households completed school were 166, 958 (74%).

ii) Crop Production

Land Area

The total area of land available to smallholders was 409,049 hectares. The regional average and area utilised for crop production per crop growing household was only 0.82 hectares. This figure was below the national average of which is estimated at 2.0 hectares

Planted Area

The area planted with annual crops and vegetables was 244,667 hectares out of which 150,382 hectares (61 %) were planted during short rainy season and 94,285 hectares (39%) were planted during long rainy season

An estimated area of 110,654 hectares (45.2 % of the total planted area with annual and vegetable crops) was planted with cereals, followed by pulses 61,893 hectares (25.3%), roots and tubers 54,159hectares (22.1%), oil seeds and oil nuts 13,735 hectares (5.6%), cash crops 2,328 hectares (1.0%) and fruits and vegetables 1,898 hectares (0.8 %).

Maize

Maize dominated the production of cereals in Kigoma region with a total production of 113,051 tons (88%) from a planted area of 95, 170 hectares, followed by sorghum 7,934 tons (6.2 %) from a planted area of 8,376 hectares and paddy production from a planted area of 5,779 hectares. Maize production in the region has been increased by 6,876 tons (6.5%). The average area planted with maize per household was 0.47 hectares.

Paddy

Paddy was the third most important cereal crop in Kigoma region. The total production of paddy was 6,370 tons from a planted area of 5,779 hectare. Paddy production decreased from 2003 to 2008 by 1,490 tons

Other Cereals

In terms of area planted with other cereals, bulrush millet and finger millet were less important crops compared to sorghum. The district with the largest area planted with sorghum was Kibondo (7586 ha) followed by Kasulu (731 ha) and Kigoma rural (59 ha) There was no bulrush and finger millet production in Kigoma rural and Kigoma urban. Production of sorghum increased such that it became the second most important cereal in the region

Cassava

Cassava production was higher than any other root and tuber crop in the region with a total production of 91,253 tons (94.8 % of the total root and tuber crops production) from a planted area of 51,434 hectares, followed by sweet potatoes 4,641 tons (4.8%). The remaining other crops contributed less than 10% of the total production.

Beans

Beans was the most dominant pulse crop with 58,776 hectares (95.0 % of the total area planted with pulses), followed by mung bean (3.8%), cow pea (0.8%), bambaranuts (0.2%) green gram (0.2%) and field peas (0.1%) of the total area of 61,893 hectares planted with pulses. Beans production constituted 95.9% of the total production of pulses.

Groundnuts

The total production of groundnuts in the region was 9,832 tons from a planted area of 13,524 hectares (98.5% of the total area planted with oil seeds), followed by sunflower (1.5%). Groundnuts production increased by 17.7% and its area increased by 23.3 % from 2003 to 2008.

Fruit and Vegetables

The total production of fruits and vegetables was 22,949 tons from a total area of1,898 hectares out of which 1,047 hectares were planted with tomatoes (55.1 % of the total area planted with fruits and vegetables). Others were okra (168 ha, 8.8%), bitter aubergine 144 ha, 6%), amaranth us (131 ha, 6.9%), radish (114 ha, 6%), water melon (113 ha, 6.0%), cabbage (81 ha, 4.3%), chillies (46 ha, 2.4%), pumpkins (26 ha, 1.4%) and cucumber (18 ha, 0.9%)

Permanent Crops

A total area of 89,505 hectares of small holder farmers was planted with permanent crops. Palm oil was the most important permanent crop planted in an area of 20,714 ha (23.1% of the total area planted with all permanent crops), followed by banana 9,908 ha (11.1%), coffee 4,422 ha (4.9%), pigeon pea 2,147 ha (2.4%), sugar cane 120 ha (0.1%), mango 97 ha (0.1%) and orange 66 ha (0.1%). The total production of palm oil by smallholders was 11,956 tons. The crop was grown by 30,904 households (14.7% of the total permanent crops growing households). The average area planted with palm oil per household was 0.67 hectares per palm oil growing household.

Improved Seeds

The area planted by using improved seeds was estimated at 7,984 hectares which represented 4 percent of the total area planted with the annual crops and vegetables. The planted area using improved seeds during short rainy season was 6,161 hectares, representing 3.2% of the total area planted with annual crops and vegetables. During long rainy season only 1,823 (1.0%) hectares were planted using improved seeds.

Kigoma Rural had the highest planted area (44.1%) of the total area planted using improved seeds, followed by Kibondo district (35.1%)

Use of Fertilizers

The use of fertilizers on annual crops is very small with a planted area of only 11,822 ha (4.8%) of the total area planted with annual crops in the region. Out of the area planted with fertilizers, organic fertilizer was applied to 3,776 ha (1.5 % of the total planted area) and 8,045 ha (3%) were applied with inorganic fertilizers.

The highest percentage of the area planted with fertilizers (all types) was in Kigoma Rural district (39.3%) followed by Kasulu (30.1%), Kibondo (25.0%) and Kigoma Urban (5.6%).

Irrigation

The area of annual crops under irrigation was 3,260 hectares, representing 1.7% of the total area planted. The area under irrigation during the short rainy season was 3,065 hectares accounting for 1.6 percent of the total area under irrigation. In the long rainy season, 0.1 percent of the total area planted with crops was irrigated. The district with the largest area under irrigation was Kigoma Rural 1,636 ha, (50% of the total area under irrigation with annual crops) followed by Kibondo 917 hectares, (28%).

Crop Storage

There were about 97% of the households in Kigoma region that stored food crops during short and long rain season. Kibondo district recorded the highest percentage of household stored food crops (39%), followed by Kasulu (35%), Kigoma Rural (24%) and lastly Kigoma Urban (2%).

The most important method used to store food crops was by using sacks /open drums whereby 235,294 households (93%) of the total agricultural households stored crops with Kibondo district recording the highest number (47%) of the total households that used this method of food storage, followed by Kasulu (31%).

Locally made traditional structures was the second method used by 117,385 households (47%) of the households stored crops using this method with Kasulu district recording the highest number (47%) of the households, followed by Kibondo (30%) and Kigoma Rural (23%). The number of households that stored their products in 2008 increased by 35 percent compared to 2003.

Crop Marketing

The number of households that reported selling crops was 141,841 which represented 63% of the total number of agricultural households in the region. The percent of crop growing households selling crops was highest in Kibondo district (37%) followed by Kasulu (35%) and Kigoma Rural (25%)

Among the marketing problems, low market prices for agricultural produce in the open market was reported as the main problem by most households (182,608, 86.2%).Other problems reported include long distances travelled to the market cenres (9,175, 4.3%), lack of transport (7,682, 3.6%), too high transport costs (4,929, 2.3%), lack of marketing information (4,271, 2.0%) and government regulatory problems (2,504, 1.2%)

Crop Extension Services

The number of agricultural households that received crop extension services was estimated at 154,612 or 68% of the total crop growing households in the region. About 71,314 or 32% are households that did not receive crop advice. Some districts received more extension services than others. Kigoma urban had a relatively high proportion of households (95%) that received crop extension messages in the district followed by Kigoma rural (88%), Kasulu and Kibondo districts both with 47% of households that received crop extension messages.The number of households that received crop extension messages has increased by 7 percent compared to agriculture census results of 2003.

Soil Erosion and Water Harvesting Facilities

The number of agricultural households that had soil erosion and water harvesting facilities on their farms was 17,631 representing 8 percent of the total number of agricultural households in the region. The proportion of farmers with soil erosion control and water harvesting facilities was highest in Kibondo (3.4%) followed by Kasulu (2.3%) and Kigoma Rural (2.0%).

iii) Livestock and Poultry Production

Cattle

The total number of cattle in the region was 157,581 equivalents to 2.5 percent of the total cattle population in Tanzania Mainland. Improved cattle were 3,581 and indigenous cattle were 154,000. The district with the largest number of cattle was Kasulu (76,661 cattle, 49% of the total cattle in the region),followed by Kibondo 39,397 (25%), Kigoma Rural 39,324 (25%) and Kigoma Urban 2,200 (1%). The numbers of cattle in the region has decreased by 62.7 percent

Goats

The number of goat-rearing-households in Kigoma region was 101,578 (45% of all agricultural households in the region) with a total of 500,019 goats giving an average of 5 head of goats per goat-rearing-household. Kasulu had the largest number of goats (38.5% of all goats in the region), followed by Kibondo (35.3%), Kigoma Rural (23.9%) and KigomaUrban (2.3%) of total in the region.

Sheep

The number of sheep-rearing households was 67,755 (30% of all agricultural households in Kigoma region) with a total number of 116,534 sheep, giving an average of 2 herds of sheep per sheep-rearing household. The district with the largest number of sheep was Kigoma Rural with 95,459 sheep (81.9% of total sheep in Kigoma region), followed by Kasulu district (16,351 sheep, 14.0%), Kibondo (2,987 sheep, 2.6%), and Kigoma Urban (1,736 sheep, 1.5%). Sheep rearing was dominated by indigenous breeds that constituted 100 percent of all sheep kept in the region.

Pigs

Pigs production in the region ranks 14th out of 21 Mainland regions having 1.2 percent of the Mainland total pigs. The number of households in Kigoma region keeping pigs was 6,022 (3% of the total agricultural households in the region) rearing 18,286 pigs. This gives an average of 3 pigs per pig-rearing household. Kasulu district had the largest number of pigs with 8,919 (48.8% of the total pig population in the region), followed by Kigoma Rural (4,386 pigs, 24.0%), Kibondo (3,361 pigs, 18.4%), and KigomaUrban (1,621 pigs, 8.9%)

Chicken

The poultry sector in Kigoma region was dominated by chicken production. The number of households keeping chicken was 98,487 raising about 871,134 chickens. This gives an average of 9 chickens per chicken-rearing household.

Out of the total number of chicken raised in the region, 794,116 chicken (91.2%)were indigenous and 77,018 (8.8%) were improved chicken. Kasulu district had the highest number of chicken raised in the region (341,469, 39.2%), followed by Kigoma Rural (329,500, 37.8%), Kibondo (174,581, 20.0%) and lastly Kigoma Urban with 25,584 chicken (2.9 %).

Use of Draft Power

The use of draft power to cultivate land in Kigoma region was very limited. Only 717 (0.3%) and 292 (0.1% of the total agricultural households in the region) used oxen and bulls respectively to cultivate land. Land cultivation by using oxen was only done in Kasulu district by 425 households (0.2%). Both Oxen and bulls each were used in Kigoma Rural by 292 households (0.1% of the total agricultural households in the region).

iv) Poverty Indicators

Availability of Toilets

The availability and use of toilets in Kigoma region indicated that about 94% of rural agricultural households (212,302) use traditional pit latrines. This was followed by households using Improved pit latrine (3,878, 2%) and flush toilets (2,377, 1.1%).

However 6,613 households equivalent to 1% of the total number of households in the region had no toilet facilities with 48% of them being in Kibondo district, 32.1% in Kasulu district and 19.9 % in Kigoma Rural.

Household Assets

Radio was owned by the majority of rural agricultural households in Kigoma region whereby 163,420 households (72%) owned it. Other assets owned by a large number of households were bicycles (116,362, 51.7%), mobile phones (53,392, 23.7%) and pressing iron (30,456, 13.5%).

Other assetsreported to be owned by a small number of households were vehicles (16,808, 7.5%), wheel barrows (4,831, 2.1%), TV/video (4,351, 1.9), Motor cycle (3,190, 1.4%), refregerators (1,471, 0.7%) and landline phones (1,254, 0.6%)

Source of Lighting Energy

Wick lamp was the most common source of lighting energy in the region with about 70 percent of the total rural households using this source of energy followed by hurricane lamp (23.5%), firewood (2.3%), pressure lamp (3.6%) and Solar energy (0.7%).

The most prevalent source of energy for cooking was firewood used by 214,797 households (96% of all rural agricultural households in Kigoma region) followed by charcoal (8,465, 4%).

Roofing Materials

The most common material used for roofing of the main dwelling was iron sheets used by 47% of the total rural agricultural households. This was followed by grass/leaves (46%), grass and mud (6%), and tiles (1%). Asbestos, concrete and other roofing materials were used by a small number of households.

Number of Meals per Day

The majority of rural agricultural households in Kigoma region (55%) reported to have one meal per day, followed by two meals per day (37%), and only 8% of the households had three meals per day.

Main Source of Income

Sale of food crops was the main source of income reported for the rural households in Kigoma region. This activity was reported by 154,699 households, representing 68.9% of the total rural farming households in the region. Other casual cash earning followed with 25,391households, representing about 11.3%of the total rural farming households.

1 BACKGROUND INFORMATION

1.1 Introduction

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

1.2 Geographical Location and Boundaries

Kigoma region lies on the western part of Tanzania along Lake Tanganyika and Borders Kagera region to the north, Shinyanga region to the Northeast, Tabora region to the east and Rukwa region to the south. The region also shares borders with two neighbouring countries of Zaire to the west and Burundi to the northwest. Kigoma is allocated at approximately 30 degrees east and 5 degrees south. It lies at an altitude between 800 and 2400 meters above sea level.

The region is divided into four districts which are Kibondo, Kasulu, Kigoma Rural and Kigoma Urban. The region headquarters is located at Mnarani in Ujiji Municipal/Kigoma Urban district and has the largest port of Lake Tanganyika.

1.3 Land Area

The region has an area of 45,066 square kilometers of which, 37,037 square kilometers (82%) are arable land.

1.4 Climate

1.4.1 Temperature

The coolest month is July (16.1^0C) and October is the hottest month (32.3^0C).

1.4.2 Rainfall

The region has two types of rain season namely: Long rainfall season (Masika), which starts from March to May and Short rainfall season (Vuli) which starts from October to December. The average rainfall is over 1000mm.

1.5 Population

According to 2002 Population and Housing Census, the population of Kigoma region was 1,674,046 inhabitants.

1.6 Socio-Economic Indicators

The regional Gross Domestic Product (GDP) at current prices for the year 2008 was estimated to be Tsh. (751,978) million with a per capita income of 450,535 Tshs (3.03 percent of the total regional GDP).

The region is famous for tourist attractions such as Ujiji town, which is very famous due to Arab slave caravans from this town to the coast of Dar es Salaam. There is also a Mountain National Park called Mhale where Chimpanzees can be seen. Moreover, it is a town where the explorer Henry Stanley found Dr. David Livingstone. The region has two tourist hotels which are Hill Top Hotel and Zanzibar Hotel, both situated within the township area. Ujiji/Kigoma town is linked with Dar es Salaam city by the railway line which is about 1,254 kilometers long. The region's main cash crops are tobacco and coffee. The region is also famous for small sardines called 'Dagaa Kigoma'

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 Tanzania 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.

This report (Volume Vp) 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 at National level (Volume III), Large Scale Farms Report (Volume IV), Regional Reports (Volume V series), Zanzibar Livestock Report (Volume VI) and Zanzibar Crop Sector Report (Volume VII). Unlike the 2002/03 Agricultural Sample Census, the 2007/08 Sample Census does not have a 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.

This report is divided into five main sections; Background Information, Introduction, Census Results, District Profiles and Appendices. The definitions relating to all aspects of this report can be found in the questionnaire.

2.1 The Rationale for Conducting the National Sample Census of Agriculture

The Government of Tanzania has embarked on various plans geared to eradicate poverty by the year 2025 and Tanzania Zanzibar by the year 2020. In order to facilitate intervention and monitoring activities of the Poverty Monitoring Master Plan, the government has planned a series of censuses and surveys to assist in policy formulation, planning and to track changes in the wellbeing of the population of Tanzania. In this Master Plan, a series of Agricultural Censuses have been planned, the first one was undertaken in 2002/03 agricultural year and the second in 2007/08.

Demands for reliable and timely agricultural data have become significantly increasing for monitoring outcomes and progress of the poverty monitoring tools like the Agricultural Sector Development Programme (ASDP) and performance of the respective MDAs (ASLMs).

Following the decentralization of the Government's administration and planning functions, there has been a pressing need for agricultural and rural development data disaggregated at regional and district level. The provision of district level estimates will provide essential baseline information on the state of agriculture that supports decision making by the Local Government Authorities and 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.

2.2 Census Objectives

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

The census was carried out in order to:

- Identify structural changes, in the size of farm household holdings, crop and livestock production, farm inputs and implement use. It also seeks to determine if there are any improvements in the rural infrastructures and the level of agricultural 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 other stakeholders.
- Establish baseline data for the measurement of the impact of high level objectives of the Agricultural Sector Development Programme (ASDP), National Strategy for Growth and Reduction of Poverty and other rural development programmes and projects.

2.3 Census Scope and Coverage.

The 2007/08 Agricultural Sample Census was conducted for both large and small scale farms. The data was collected from a sample of 52,635 small scale agricultural households of which 48,880 were from the Mainland and 4,755 from Zanzibar. To meet National estimates, data was also collected from 1,006 Large Scale Farms (968 on the Mainland and 38 in Zanzibar) on a complete enumeration basis.

Three different questionnaires were used to collect data on agriculture and related aspects. These were:

- Small scale farms questionnaire;
- Community questionnaire; and
- Large scale farm questionnaire.

The small scale farm questionnaire was the main census instrument which included questions related to crop and livestock production and practices; population demographics; access to services; resources and infrastructure; issues on poverty and gender. Main subjects covered during the study include:-

- Household demographics and activities of the household members;
- Land access/ownership/tenure and use;
- Crop and livestock production and productivity;
- Access to inputs and farming implements;
- Access and use of credits;
- Crop marketing, storage;
- Fish farming;
- Investment activities: Irrigation structures, water harvesting, erosion control;
- Off farm income;
- Household living conditions (housing, sanitary facilities, etc);
- Livelihood constraints; and
- Poverty Indicators.

The community level questionnaire was designed to collect village data such as access and use of common resources, community tree plantation and seasonal farm gate prices.

Large scale farm questionnaire was administered to all the large scale farms either privately or corporately managed. However, the analysis of large scale farms is presented in a separate report (Volume IV).

2.4 Census Methodology

The main focus at all stages of the census execution was on data quality and this has been emphasized all the time. The main activities undertaken include:

- Census organization;
- Tabulation plan preparation;
- Sample design;
- Design of census questionnaire and other instruments;
- Pilot test;
- Training of trainers, supervisors and enumerators;
- Information Education and Communication (IEC) campaign;
- Data collection;

- Field supervision and consistency checks;
- Data processing:
    - Scanning,
    - Structure formatting application,
    - Batch validation application,
    - Manual data entry application,
    - Tabulation preparation using SPSS;
- Table formatting and charts using Excel, maps generation using Arc GIS and Excel, Report preparation using Ms Word and Excel.

2.4.1 Census Organization

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

At the national level, the Census was headed by the Director General of the National Bureau of Statistics, Tanzania Mainland in collaboration with the Chief Government Statistician, Tanzania Zanzibar. The Planning Group formed by the Director General of NBS and the 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 the Mainland. Ministry of Livestock and Fisheries and the Ministry of Agriculture and Natural Resources in Zanzibar.

The Planning Group was responsible for all the census operations. Implementation of the census activities at the regional level was overseen by the Regional Statistical Managers of NBS and the Regional Agricultural Supervisors from the 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, implementation of the census activities at the regional level was overseen by the Regional Statistical Officers and Regional Agricultural Officers. At district level, implementation of the

census activities was managed by District Agricultural Development Officers (DADOs). In addition, there was a national mobile team to supervise the census operations.

The Censuses and Surveys Technical Working Group (CSTWG) under MKUKUTA provided support in sourcing financing, approving budget allocation and monitoring progress of the census. A Technical committee for the census was established with members from key stakeholder organizations and its main function was to approve the proposed instruments and procedures developed by the Planning Group. It also approved the tabulation and analytical reports prepared from the census data.

2.4.2 Tabulation Plan Preparation

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

2.4.3 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 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 Enumeration Areas (EAs) were selected and 4,755 agricultural households were covered. National wide, all regions and districts were sampled except four urban districts (three from Mainland and one from Zanzibar).

Table 2.1: Census Sample

Description	Mainland	Total
Households	47,880	52,635
Villages/EAs	3,192	3,509
Districts	133	142
Regions	21	26

In both Mainland and Zanzibar, a two stage sample was used. The number of villages/Enumeration Areas (EAs) was 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 households in each village/EA using systematic random sampling. Table 1.1 gives the sample size of households, villages and districts for the Mainland and Zanzibar.

2.4.4 Questionnaire Design and Other Census Instruments

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

- Where feasible, all variables were extensively coded to reduce post enumeration coding errors;
- 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 the 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; and
- Each section was clearly numbered, which facilitated the use of skip patterns and provide a reference for data type coding for the programming of CSPro and SPSS.

Three other instruments were used:

- Village Listing Forms were used for the listing of 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 trainer for the cascade/pyramid training of supervisors and enumerators; and
- Enumerator's Instructions Manual was used as reference material.

2.4.5 Field Pilot-Testing of the Census Instruments

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

2.4.6 Training of Trainers, Supervisors and Enumerators

During the training, a 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 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 enumerators and supervisors and the best 50 percent of the trainees were selected for the actual field work. The remaining 50% were assigned the work of listing the households in the villages they belong and they were later terminated. The best trained enumerators were assigned to list the remaining villages. Each enumerator was assigned to enumerate two villages.

2.4.7 Information, Education and Communication (IEC) Campaign

Radios, televisions, newspapers, leaflets, t-shirts and caps were used to create awareness of the Agricultural Sample Census to the public. This strategy helped in sensitizing the public for the field level activities in order to increase the response rate. The t-shirts and caps were given to the field staff and the village chairpersons. The village chairpersons assisted to locate the selected households.

2.4.8 Data Collection

Data collection activities for the 2007/08 Agricultural Sample Census lasted for three months from June to August 2009. The direct interview method was used to collect data during the enumeration. Data collection was monitored by a hierarchical system of supervisors which included the Mobile Response Team, Regional and District Supervisors. The Mobile Response Team headed by the Manager of Agriculture Statistics Department, provided the overall direction to the field operations and responded to queries arising outside the scope of the training exercise. Decisions made on the definitions and procedures were then communicated back to all the 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 and the sector Ministry of Agriculture (PMO-RALG). Regional and national supervision was provided by senior staff from the NBS and 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, some 3,192 extension staff participated on the Mainland. A total of 177 enumerators participated during the listing exercise and enumeration using the small holder questionnaire in Zanzibar. A total of 1,596 enumerators were involved in data collection using the small holder questionnaire on the Mainland. Additional five percent of the enumerators were held as reserves in case of drop outs during the enumeration exercise.

2.4.9 Field Supervision and Consistency Checks

Enumerators were trained to probe the respondents until they were satisfied with the responses before they recorded them in the questionnaire. The first check on the questionnaire was carried out by the enumerators in the field during enumeration, followed by District, Regional and National supervisors. Supervisory visits at all levels of supervision focused on checking 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 the district supervisors.

2.4.10 Data Processing

Data processing involved the following process:

- Data entry;
- Data structure formatting;
- Batch validation; and
- Tabulation.

Data Entry

Scanning and ICR data capture technology was used. This did not only increase the speed of data entry but also increased the accuracy due to reduction of keystroke errors. Interactive validation routines were incorporated into the ICR software to trap errors during the verification process.

Prior to scanning, all the questionnaires underwent a manual cleaning exercise by checking that the questionnaire had a full set of pages, correct identification and good hand-writing. A score was given to each questionnaire based on the legibility and the completeness of enumeration. This score was used to assess the quality of enumeration and supervision.

CSPro was used for data entry of the questionnaires that were rejected by the ICR extraction application.

Batch Validation

A batch validation program was developed in CSPro in order to identify inconsistencies within a questionnaire. This was 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. After data cleaning, the tables were prepared based on a pre-designed tabulation plan.

Tabulation

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

Report Writing

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

Data Quality Control

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 the field level during the census year. With very few exceptions, the variables in the questionnaire are within the norms for Tanzania and they follow the expected time series trends when compared to historical data.

2.5 Funding Arrangements

The 2007/08 Agricultural Sample Census was supported mainly by the Department for International Development (DFID) and the Japan International Cooperation Agency (JICA) which together, financed most of the operational activities. Other funds for the census activities were from the Government of Tanzania. In addition, technical assistance was provided by the Food and Agriculture Organisation (FAO).

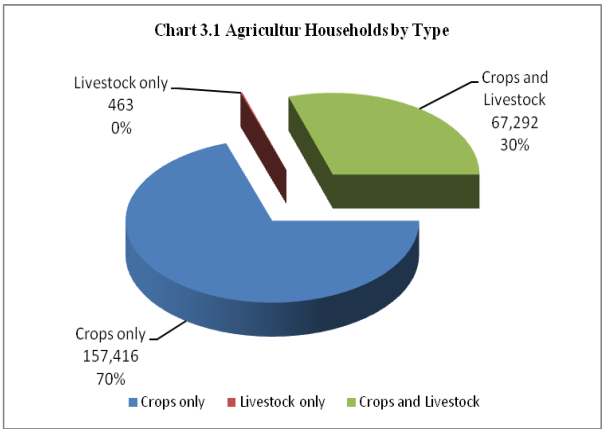
3 CENSUS RESULTS

This part of the report presents the census results for Kigoma region, based on the statistical data tables presented in Appendix II. The results are presented in different forms including brief summaries, charts, condensed tables and 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 Surveys, the 1997/98 Integrated Agricultural Surveys, the 1998/99 District Integrated Agricultural Survey and the 1999/00 Rapid Agricultural Appraisal Survey and 2002/03 National Sample Census of Agriculture. The results are 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 placed 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 Kigoma region was 225,171.The largest number of agricultural households was in Kasulu (86,004) followed by Kibondo (75,620), Kigoma Rural (59,205) and Kigoma Urban (4,341) (Map 3.01).



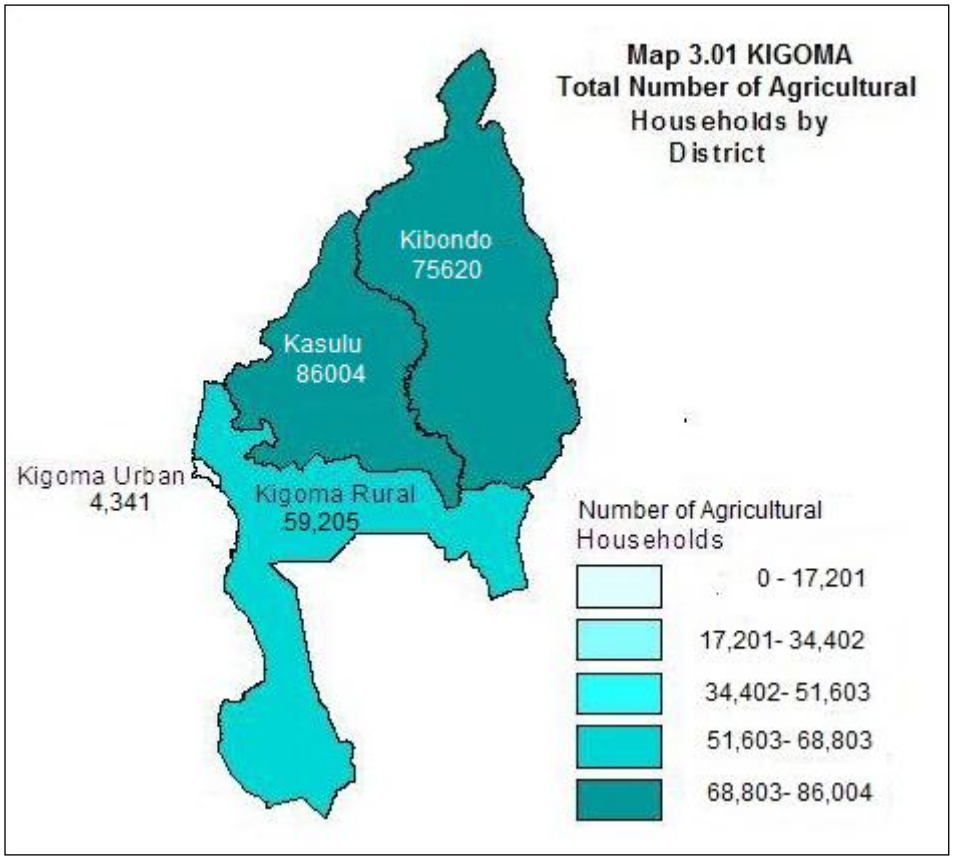
The highest density of households was found in Kigoma Urban (8,264 km2), (Map 3.02). Most households (157,416, 69.9%) were involved in growing crops only which is an increase of 16.04 percent since 2002/03. (463, 0.2%) were rearing livestock only, (a decrease of 49 percent) and (67,292, 29.9%) were involved in crop production as well as livestock keeping. The number of households who involve in both livestock keeping and crop production has increased by 14 percent. There were no pastoralists in Kigoma Region while in 2003 it had 0.1 percent, (Chart 3.1).

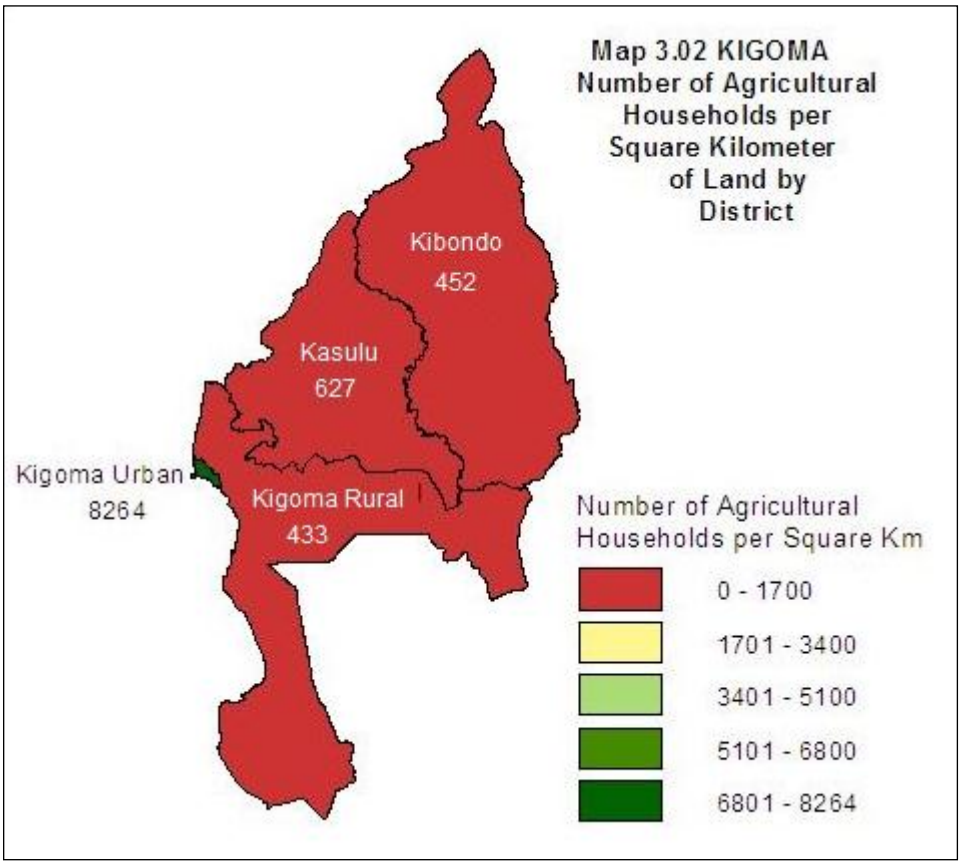
3.1.2 Livelihood Activities/Source of Income

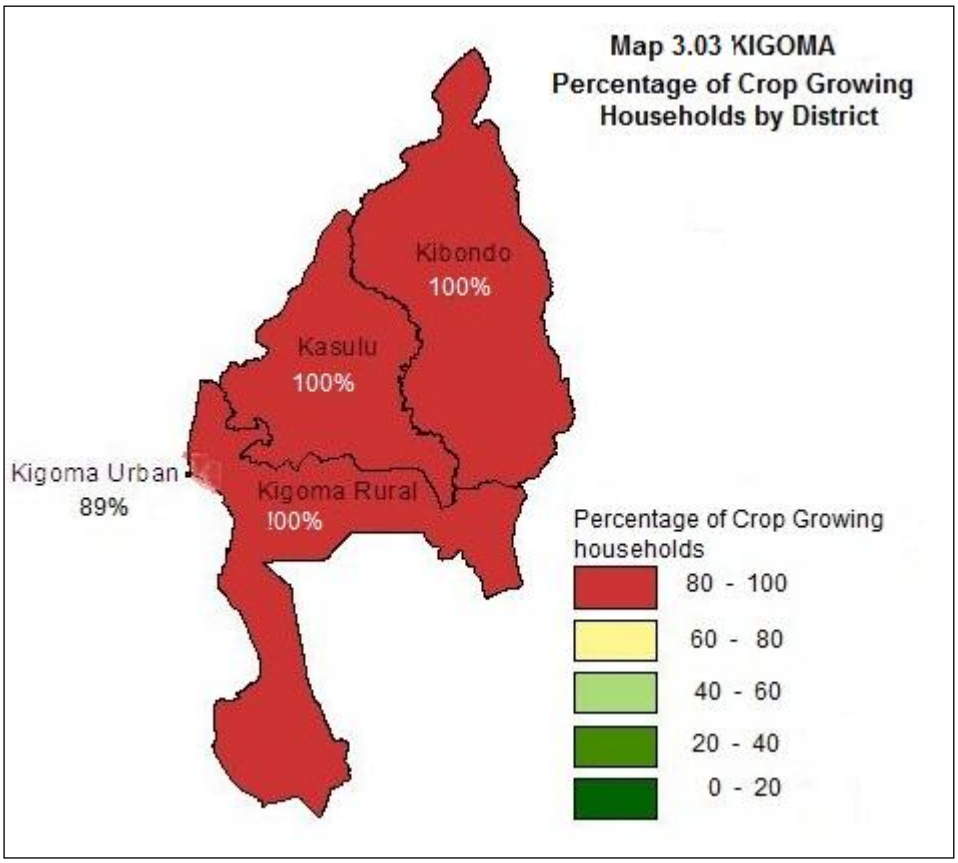
The census results for Kigoma region indicate that most of the agricultural households ranked crop farming as an activity that provided most of their cash income followed by both crops and livestock keeping and lastly livestock keeping/herding, (Table 3.1)

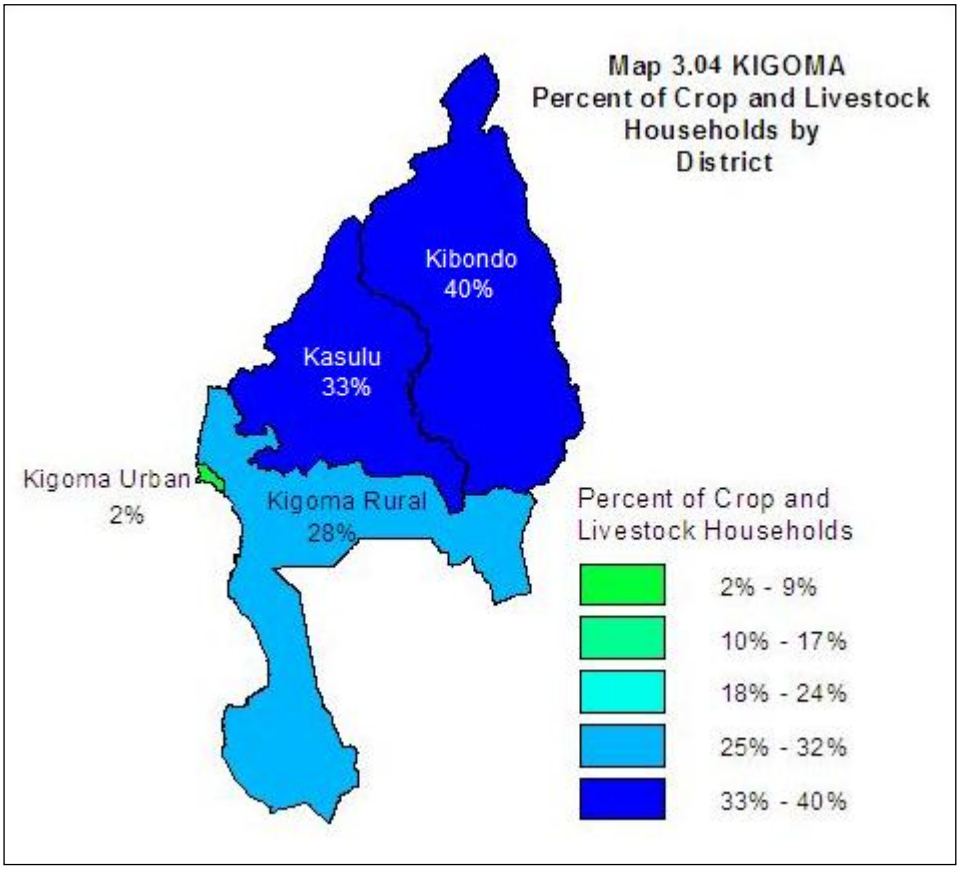
Table 3.1: Number of Heads of Agricultural Households by Main Activity and District, 2007/08 Agricultural Year

District	Crop/Seaweed Farming		Livestock Keeping / Herding		Fishing		Employment		Other		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Kibondo	65,911	87	560	1	0	0	6,909	9	2,241	3	75,620	100
Kasulu	80,908	94	212	0	0	0	3,610	4	1,274	1	86,004	100
Kigoma Rural	50,141	85	877	1	1,754	3	4,678	8	1,754	3	59,205	100
Kigoma Urban	3,647	84	174	4	116	3	289	7	116	3	4,341	100
Total	200,607	89	1,823	1	1,870	1	15,486	7	5,385	2	225,171	100


Map 3.01 KIGOMA
Total Number of Agricultural Households by District
Kibondo
75620
Kasulu
86004
Kigoma Urban
4,341
Kigoma Rural
59,205
Number of Agricultural Households
0 - 17,201
17,201- 34,402
34,402- 51,603
51,603- 68,803
68,803- 86,004

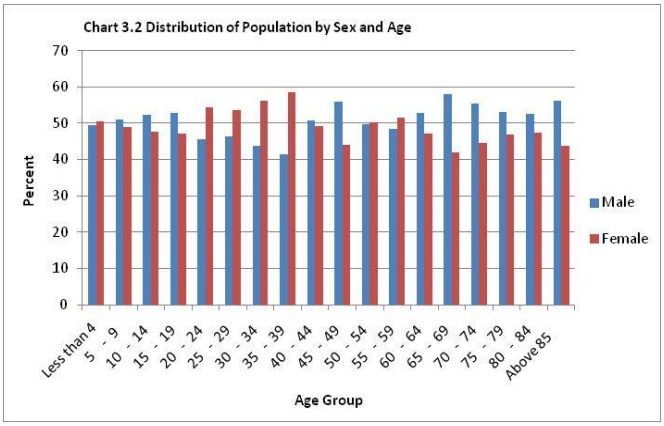

Map 3.02 KIGOMA
Number of Agricultural Households per Square Kilometer of Land by District
Kibondo
452
Kasulu
627
Kigoma Urban
8264
Kigoma Rural
433
Number of Agricultural Households per Square Km
0 - 1700
1701 - 3400
3401 - 5100
5101 - 6800
6801 - 8264


Map 3.03 KIGOMA
Percentage of Crop Growing Households by District
Kibondo
100%
Kasulu
100%
Kigoma Urban
89%
Kigoma Rural
100%
Percentage of Crop Growing households
80 - 100
60 - 80
40 - 60
20 - 40
0 - 20


Map 3.04 KIGOMA
Percent of Crop and Livestock Households by District
Kibondo
40%
Kasulu
33%
Kigoma Urban
2%
Kigoma Rural
28%
Percent of Crop and Livestock Households
2% - 9%
10% - 17%
18% - 24%
25% - 32%
33% - 40%

3.1.3 Sex and Age of Heads of Household

The number of male-headed agriculture households in Kigoma region was 191,260 (85% of the total regional agricultural households) whilst the female headed households were 33,911 (15%). The mean age of household heads was 46 years (43 years for male heads and 48 years for female heads), (Chart 3.2).



3.1.4 Number and Age of Household Members

Kigoma region had a total rural agricultural population of 1,287,566 of which 641,328, (49.8%) were males and 646,237(50.2%) were females. Age group 0-14 constituted 46.72 percent of the total rural agricultural population, age group 15-64 (active population) was 50.41 percent.

3.1.5 Level of Education

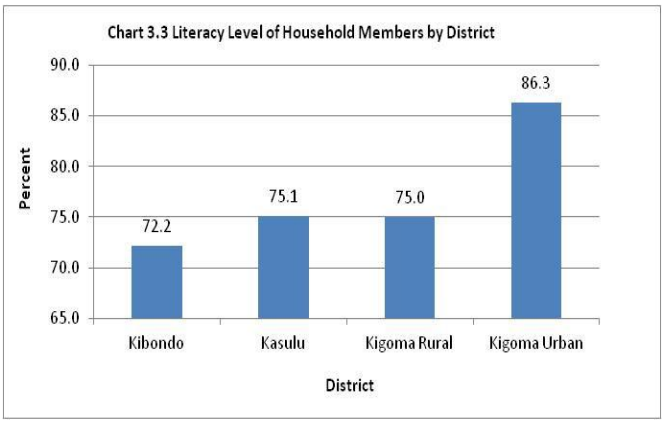
In order to obtain information on the level of education, information on literacy and education attainment were obtained for all persons aged five years and above in all households.

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.

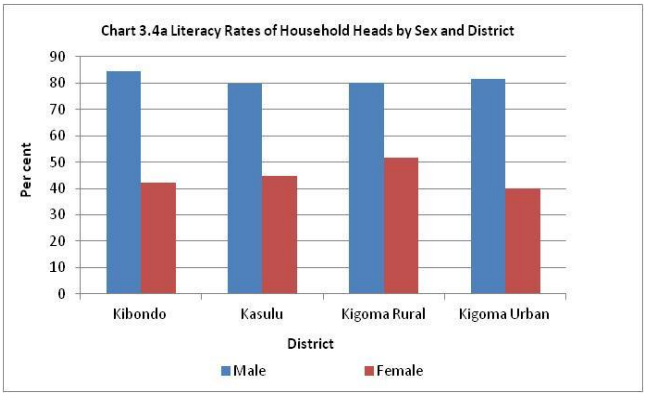
Literacy Level for Household Members

Kigoma region had a total literacy rate of 74.5 percent. The highest literacy rate was found in Kigoma Urban (86.3%) followed by Kasulu (75.1%), Kigoma Rural (75.0%) and Kibondo district (72.3%). Generally literacy level in Kigoma region has increased by 7.7 percent with much improvement to those districts that had lowest levels in previous census, (Chart 3.3).

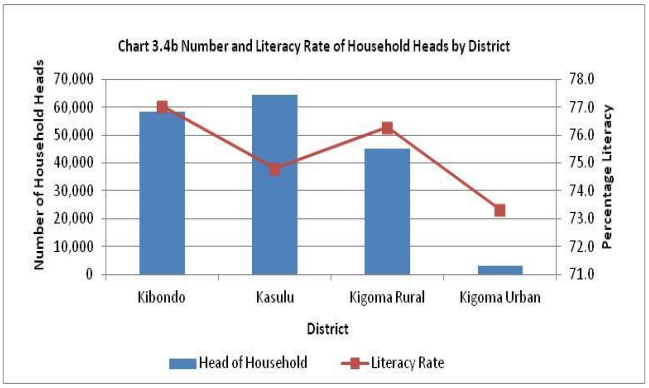


Literacy Rates for Heads of Households

The literacy rate for the heads of households in the region was 76 percent. The literacy rate for the male heads was 81.4% and that of female heads of households was 45.3%. Literacy rate of male heads was higher than that of female heads in all districts. The literacy level for males has increased by 4.7percent and for females heads has increased by 15.6 percent, (Chart 3.4a).

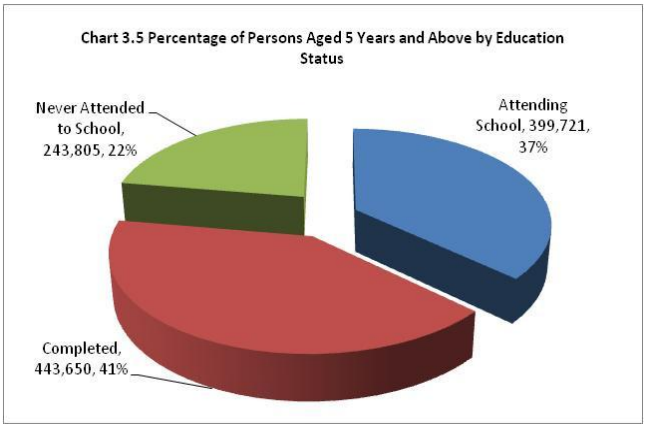


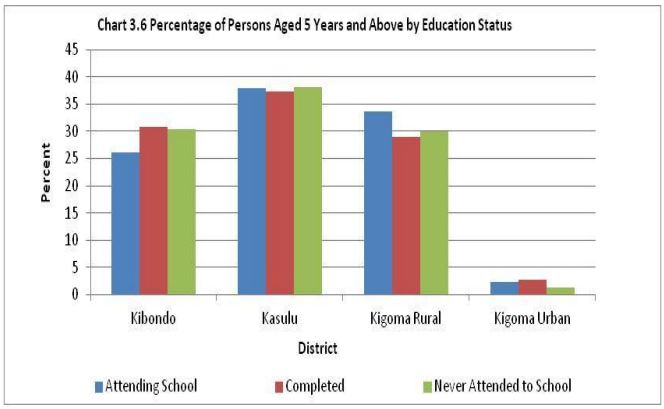
The district with the highest literacy rate amongst heads of households was Kibondo (77.0%) followed by Kigoma Rural (76.3%), Kasulu (74.8%) and Kigoma Urban (73.3 %), (Chart 3.4b).



Educational Status

Information on educational status was collected from individual agricultural households. The results show that 41percent of the population aged 5 years and above in agricultural households in the region had completed different levels of education and 37percent were still attending school. Those who have never attended school were 22percent, (Chart 3.5). From these results, Kigoma region has positive changes in education levels as level of those who have never attended school has decreased by 7.8 percent while those who attended to school has increased by 5.2 percent

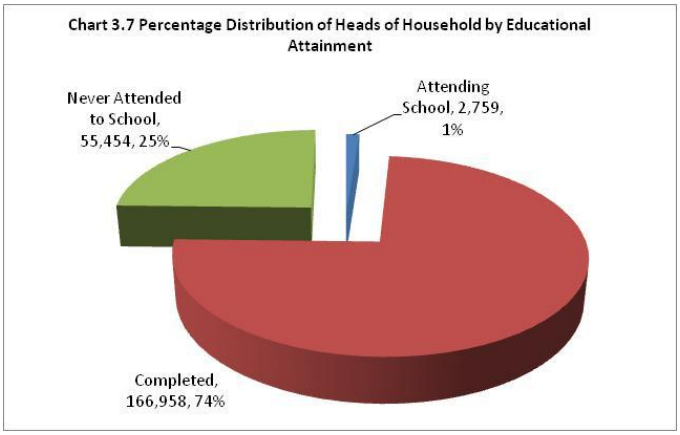




Agricultural households in Kasulu district had the highest percentage (37.3%) of population aged 5 years and above and had completed different levels of education. This was followed by Kibondo district (30.8%), Kigoma Rural district (29.1%) and Kigoma urban district with the lowest percentage of (2.8 %). There is a greater change at district level where as Kigoma Uban was the leading district with 73.3 percent in 2003 and had now been replaced by Kasulu district, (Chart 3.6).

In Kigoma region the number of heads of agricultural households without formal education was 55,454 (25%). Those who were still attending school were 2,759 (1%) and the number of heads of agricultural households completed school were 166, 958 (74%), (Chart 3.7).

3.2 Land Use



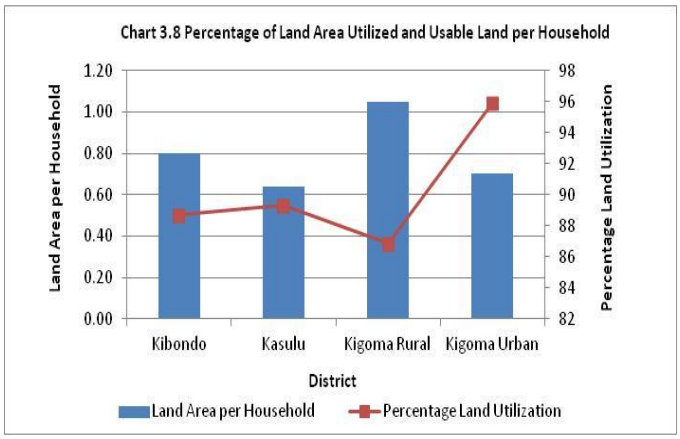
Land area and planted area are different types of area measurements. *Land area* refers to the physical area of land and is the same regardless of the number of crops planted on it in one year. *Planted area* is the total of all areas planted with crops in a year and the areas are summed if there were more than one crop on the same 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 had 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 agricultural land in the country; Instead it is the land that is available to smallholders given the location of villages and lack of access to more remote parcels of unused through designated of agricultural 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

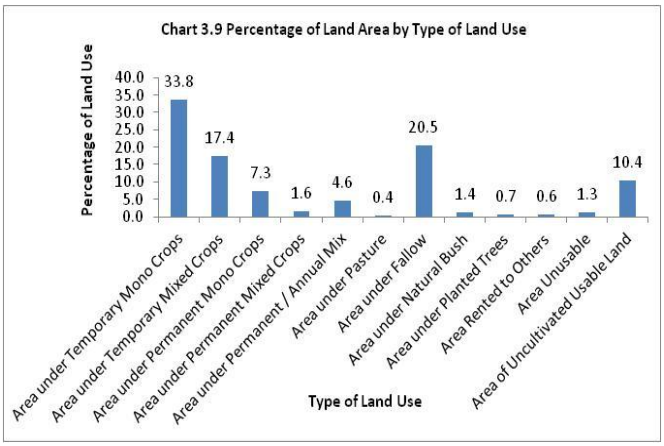
The total area of land available to smallholders was 409,049 hectares including 5,469 hectares of unusable land.

At regional level the average land area utilized for agriculture per household was only 0.82hectares.This figure is below to the national average which was estimated at 2.0 hectares. The percentage utilization of the land available to smallholders was 88.3%. There were large differences in land utilization per household between districts. The largest average land area utilization per household was in Kigoma rural (1.05 ha) followed by Kibondo (0.83 ha), Kigoma urban (0.75 ha) and lastly Kasulu district (0.64 ha. The percentage utilization of the usable land per district was highest in Kigoma urban (95.9%) and lowest in Kigoma rural (86.9%), (Chart 3.8).



3.2.2 Types of Land Use

The area of land under temporary mono crops was138,073 hectares (33.8 % of the total land available to smallholders in Kigoma) this area of land has increased by 68.2percent, followed by area under fallow (83,838 ha, 20.5 %) this area of land has increased by 23.5percent, area under temporary mixed crops (71,375 ha, 17.4%) this has increased by 21.8 percent compared to 2003 census, uncultivated usable land (42,362 ha, 10.4 %) this has decreased by 47 percent, area under permanent mono crops (29,930 ha,7.3%) this has decreased by 50 percent, area under permanent or annual mix ((18,816 ha, 4.6 %) this has decreased by 62.4 percent, area under permanent mixed crops (6,423 ha, 1.6%) this has decreased by 34.9 percent, natural bush (5,641 ha, 1.4 %) this has increased by 777.3 percent, area unusable (5,469 ha, 1.3%) the area has increased by 214.7 percent, area under planted trees (2,981 ha, 0.7%), area rented to others (2,503 ha, 0.6%) 20.6 percent of this land use has increased from



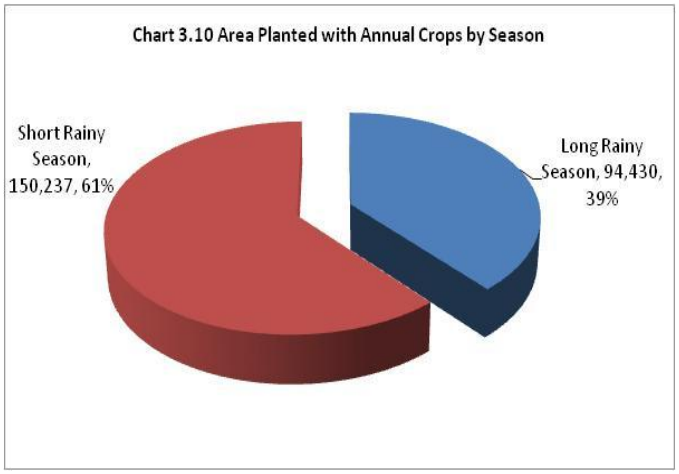
2003 and area under pasture (1,637 ha, 0.4%) 187 percent of land has increased compared to 2003 Census (Chart 3.9)

3.3 Annual Crops and Vegetable Production

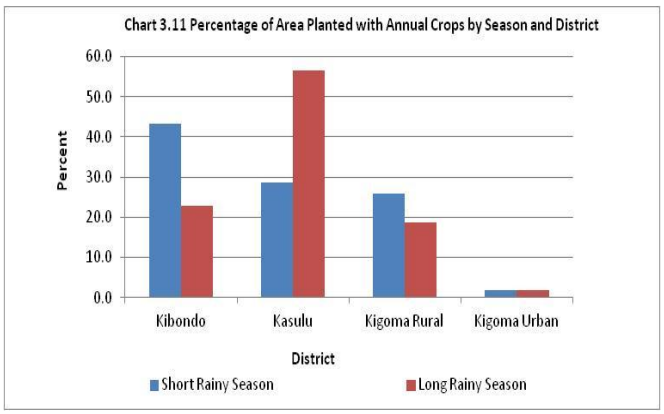
Kigoma region has two rainy seasons, which are the short rainy season (October to December) and the long rainy season (March to May). The quantity of crops produced in both seasons will be used as a base for comparison with the past surveys and censuses.

3.3.1 Area Planted

The area planted with annual crops and vegetables was 244,667 hectares out of which 150,237 hectares (61%) were planted during short rainy season and 94,285 hectares 39%) during long rainy season. The average area planted per household during the short and long rainy seasons were 0.8 ha and 1.2 ha respectively, (Chart 3.10). The area that was planted during short rain season has increased by 3.6% while the area planted during long rainy season has decreased by 21.3 % compared to agricultural census results of 2003.



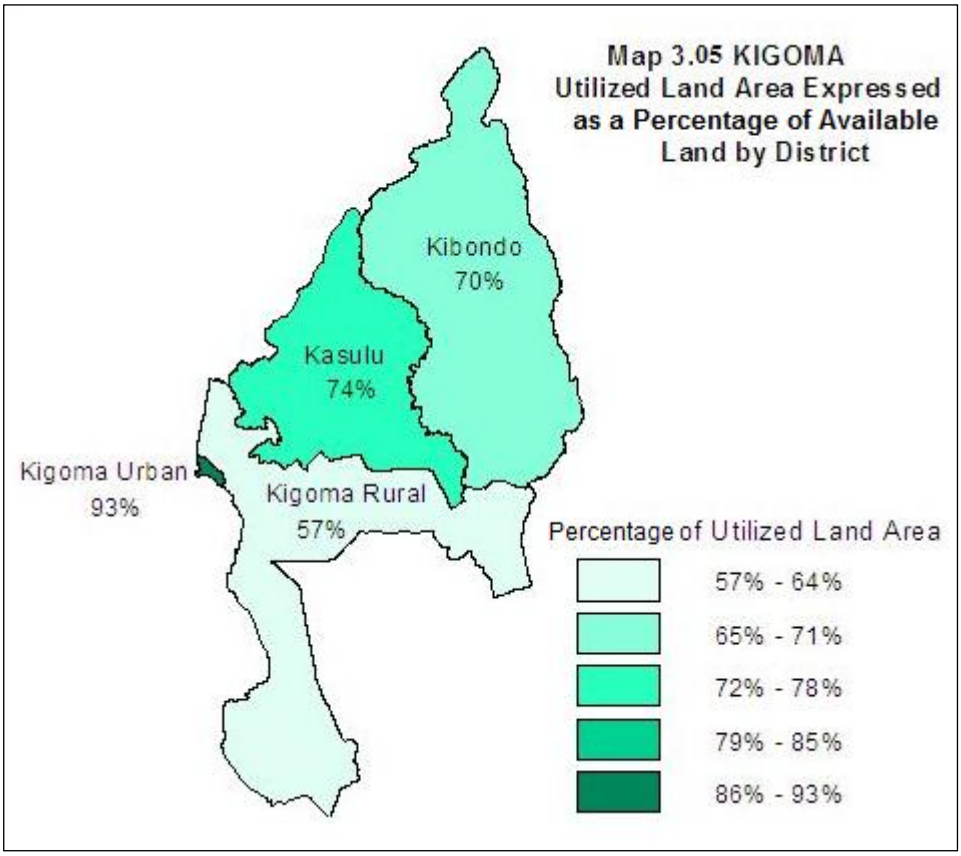
The district with the largest area planted for both two seasons was Kasulu while the district with the smallest area planted was Kigoma Urban and the percentage planted during short rainy season was highest in Kibondo district (43.4%), followed by Kasulu (28.8%), Kigoma Rural (26.0%) and Kigoma Urban (1.9%). These results show that there is percentage increase in area planted during short rain season in all districts by 3.6%, (Chart 3.11).

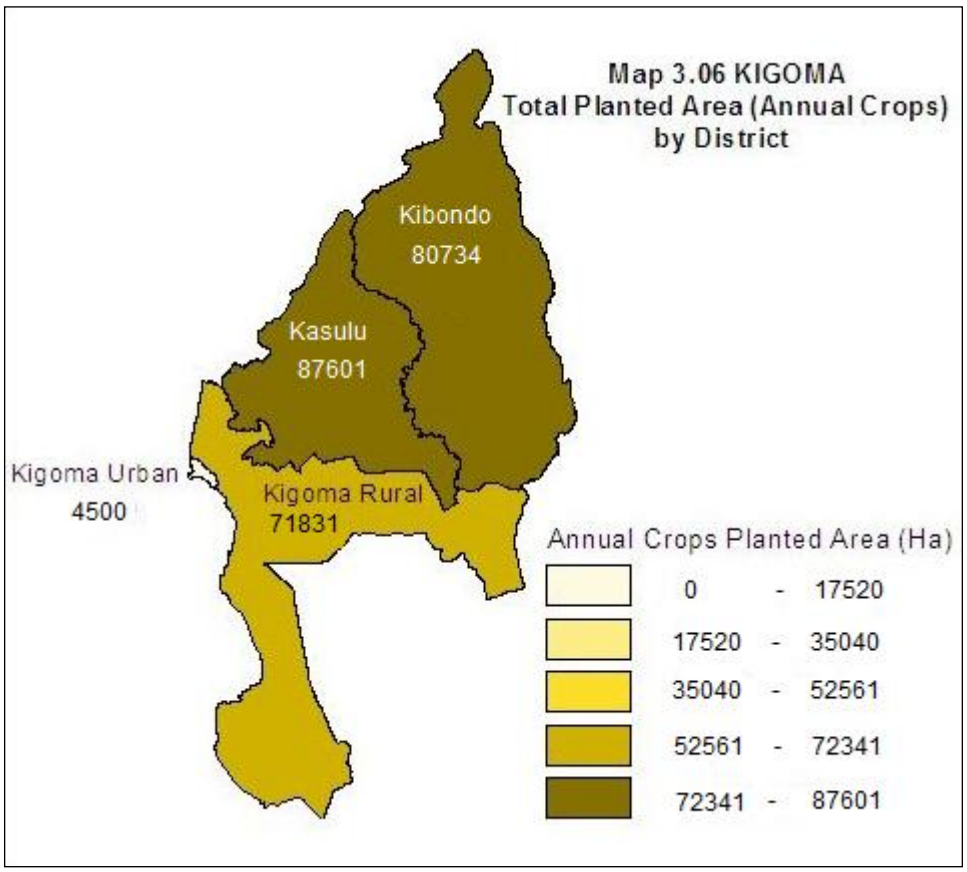


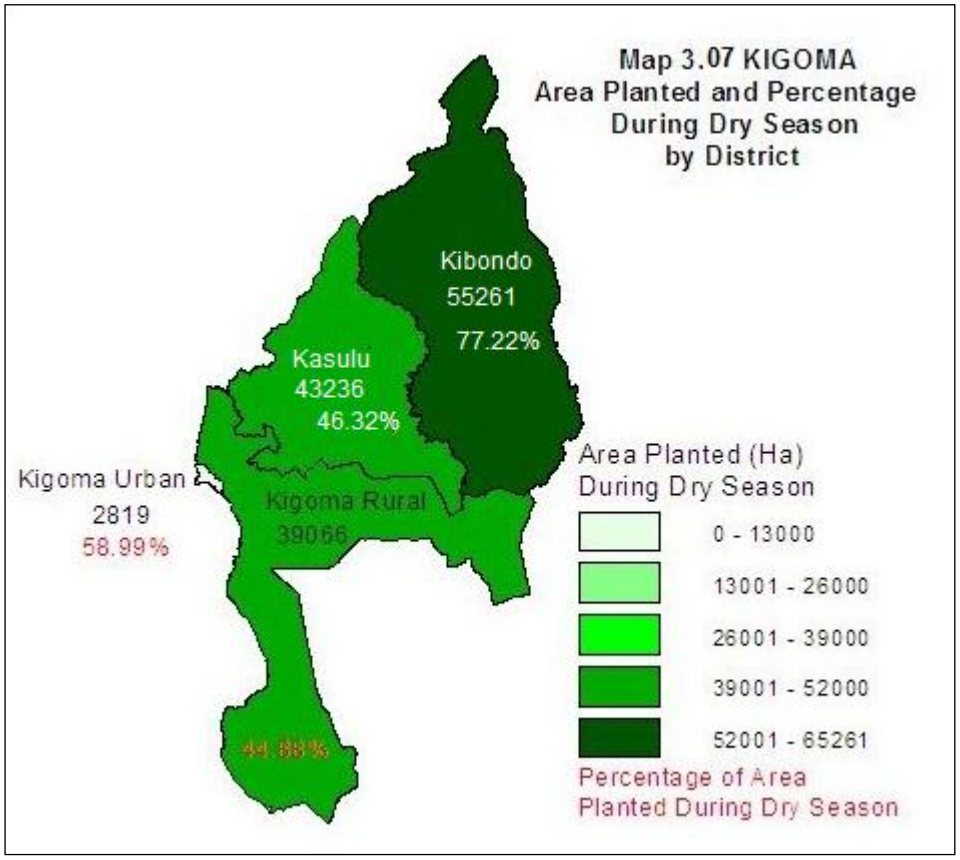
The planted area occupied by cereals was 110,654 hectares (45.2%) of the total area planted with annuals).This was followed by pulses 61,893 hectares (25.3%), roots and tubers 54,159 (22.1%), oil

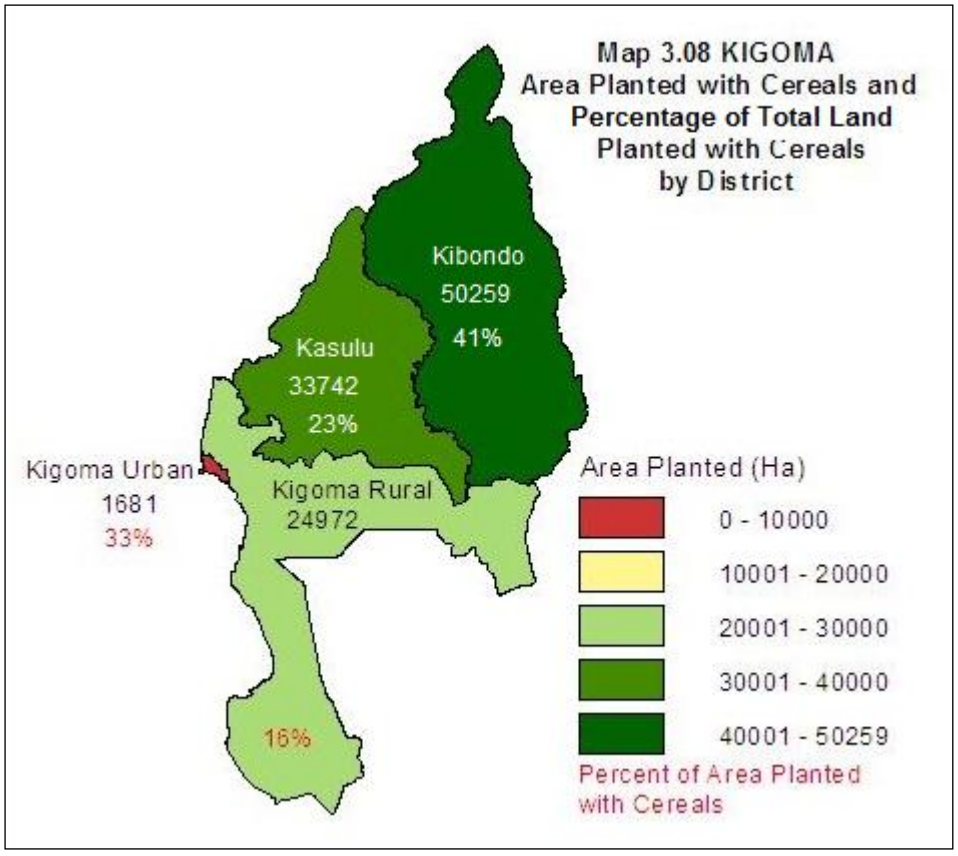
seeds and oil nuts 13,735 hectares (5.6%), cash crops 2,328 hectares (1.0%) and fruits and vegetables 1,898 hectares (0.8 %).

The average area planted per household during the long rainy season in Kigoma region was 1.2 hectares, however, there were small district differences. Kasulu district had the largest planted area per household (0.6 ha) followed by Kigoma rural (0.4 ha) and Kibondo (0.2 ha) and lastly Kigoma urban (0.02 ha).


Map 3.05 KIGOMA
Utilized Land Area Expressed as a Percentage of Available Land by District
Kibondo
70%
Kasulu
74%
Kigoma Urban
93%
Kigoma Rural
57%
Percentage of Utilized Land Area
57% - 64%
65% - 71%
72% - 78%
79% - 85%
86% - 93%

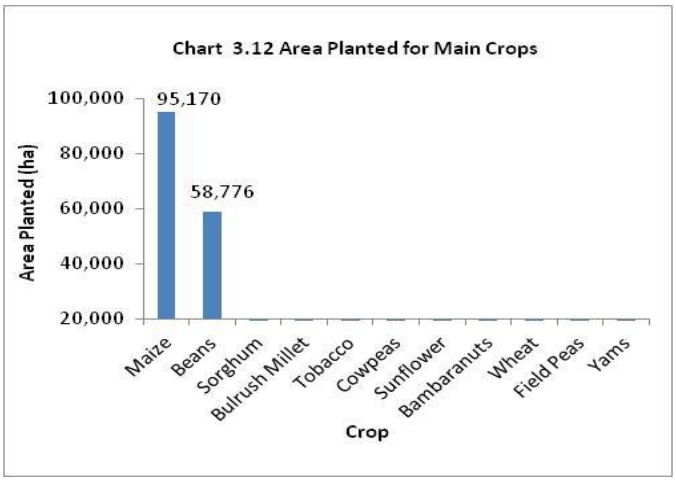

Map 3.06 KIGOMA
Total Planted Area (Annual Crops) by District
Kibondo
80734
Kasulu
87601
Kigoma Urban
4500
Kigoma Rural
71831
Annual Crops Planted Area (Ha)
0 - 17520
17520 - 35040
35040 - 52561
52561 - 72341
72341 - 87601


Map 3.07 KIGOMA
Area Planted and Percentage
During Dry Season
by District
Kibondo
55261
77.22%
Kasulu
43236
46.32%
Kigoma Urban
2819
58.99%
Kigoma Rural
39066
44.88%
Area Planted (Ha)
During Dry Season
0 - 13000
13001 - 26000
26001 - 39000
39001 - 52000
52001 - 65261
Percentage of Area
Planted During Dry Season


Map 3.08 KIGOMA
Area Planted with Cereals and
Percentage of Total Land
Planted with Cereals
by District
Kibondo
50259
41%
Kasulu
33742
23%
Kigoma Urban
1681
33%
Kigoma Rural
24972
16%
Area Planted (Ha)
0 - 10000
10001 - 20000
20001 - 30000
30001 - 40000
40001 - 50259
Percent of Area Planted
with Cereals

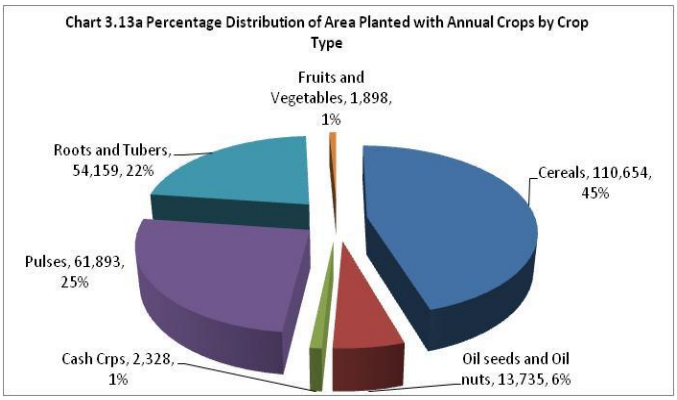
Analysis of the Most Important Crops

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



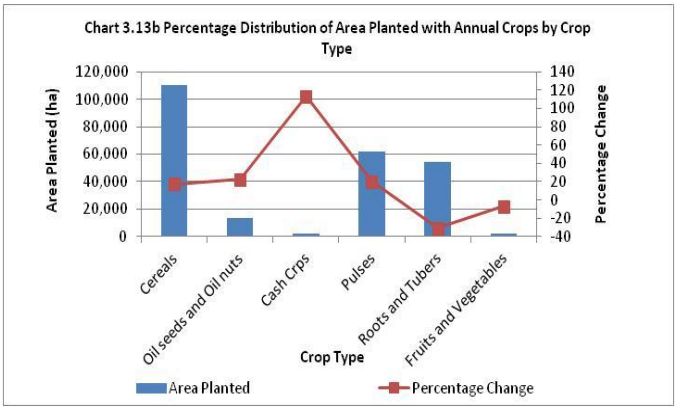
3.3.2 Crop Importance

Maize was the dominant annual crop grown in Kigoma region and it had a planted area of 95,170 hectares, followed by beans which had the second largest planted area of 58,776 hectares. Of the area planted with annuals, maize cover 38.9%. Maize planted area has increased by 13.44 percent compared to 2003 agriculture census results for the region. Other crops in order of their importance (based on area planted) were cassava, groundnuts, sorghum, paddy, sweet potatoes, mung bean, tobacco, tomatoes, bulrush millet, finger millet, cow peas, sunflower, cocoyam, bambaranuts, green gram, wheat, cabbage, field peas, Irish potatoes and yams, (Chart 3.12).

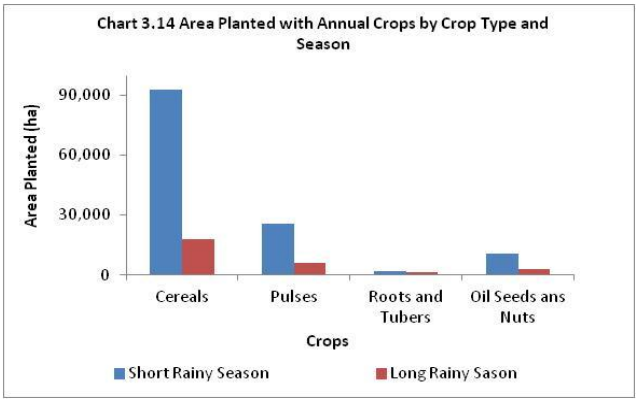


3.3.3 Crop Types

Cereals are the main crops grown in Kigoma region.The area planted with cereals was 110,654 ha (45.2% of the total area planted with annual crops), followed by pulses with 61,893 ha (25.3%), roots and tubers 54,159 (22.1%), oil seeds and nuts 13,735 ha(5.6 %), cash crops 2,328 ha (1.0%) and fruits and vegetables had the smallest planted area of about 1,898 ha (0.8%), These results show that production of cereals has increased by 17.4 percent while roots and tubers has decreased by 31%. Oil seeds and oil nuts increased by 22.6% and cash crops increased by 113.5%. Pulses decreased by 20.5% and fruits and vegetables decreased by 6.9%, (Chart 3.13a and 3.13b).

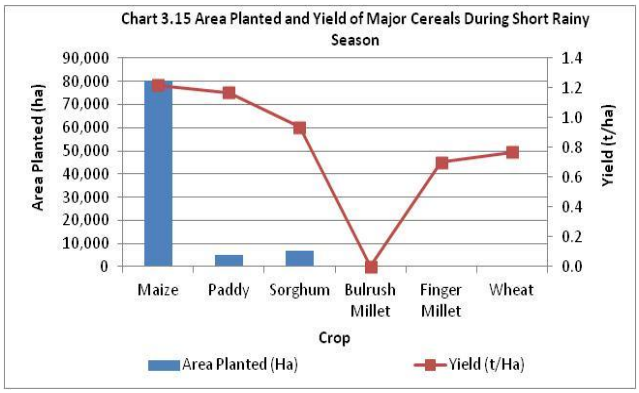


Cereals, pulses and roots and tubers are the dominant crops. Other crop types are of minor importance by comparison. There is a difference in the proportions of the different crop types grown between seasons and because long rainy season production was small compared to short rainy season especially cereal and it is inappropriate to make detailed comparisons between the two seasons, (Chart 3.14).



3.3.3.1 Cereal Crops Production

The total production of cereals was 128,359 tonnes. Maize was the dominant cereal crop at 113,051 tonnes which was (88.1%) of total cereal crops produced and it has increased by 6.5 percent compared to the census results of 2003, followed by sorghum 7,934 tonnes (6.2 %). This percentage has increased by 75.1 percent, paddy 6,370 tonnes (5%) this has decreased by 19 percent compared to agriculture census results of 2003, bulrush millet 515 tonnes (0.4 %) this has increased by 625.8 percent, finger millet 421 tonnes (0.3 %) this has decreased by 43.2 percent and wheat 66 tonnes 0.1 %), (Map 3.10).



The total area planted with cereals was 110,654 hectares out of which 92,880 hectares (83.9%) were planted in short rainy season and 17,774 hectares (16.1%) were planted during long rainy season. Area planted during short rainy season has increased by 7.5 percent and that planted during long rainy season increased by 126 percent compared to agriculture census results of 2003. The long rainy season accounted for 13.4 percent of the total cereals produced in both seasons. The area planted with maize during short rainy season was 86.6 percent of the total area planted with cereals in that season and has increased by 3 percent followed by sorghum (7.2 %) and paddy (5.5%). Paddy area has increased by 19.6 percent. Other crops were finger millet (0.6%), and wheat (0.1%) of the total area planted with cereals in short rainy season, (Chart 3.15 and Table 3.2).

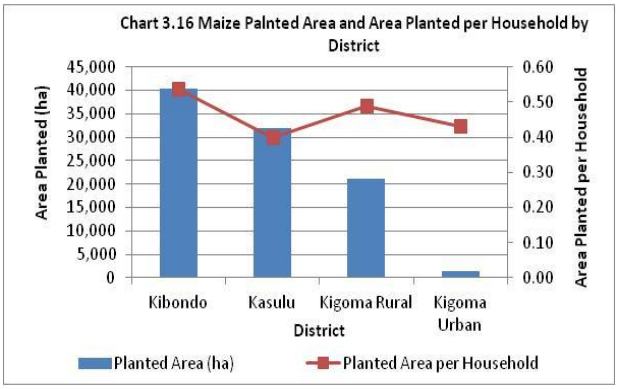
Table 3.2: Area Production and Yield of Major Cereal Crops by Season

Crop	Short Rainy Season			Long Rainy Season			Total		
	Area Planted (Ha)	Quantity Harvested (Tonnes)	Yield (t/Ha)	Area Planted (Ha)	Quantity Harvested (Tons)	Yield (t/Ha)	Area Planted (Ha)	Quantity Harvested (Tonnes)	Yield (t/Ha)
Maize	80,424	98,382	1.22	14,746	14,669	0.99	95,170	113,051	1.19
Paddy	5,065	5,916	1.17	713	455	0.64	5,779	6,370	1.10
Sorghum	6,704	6,320	0.94	1,672	1,615	0.97	8,376	7,934	0.95
Bulrush Millet	-	-	-	643	515	0.80	643	515	0.80
Finger Millet	601	421	0.70	-	-	-	601	421	0.70
Wheat	86	66	0.77	-	-	-	86	66	0.77
Total	**92,880**	**111,105**	**1.20**	**17,774**	**17,254**	**0.97**	**110,654**	**128,359**	**1.16**

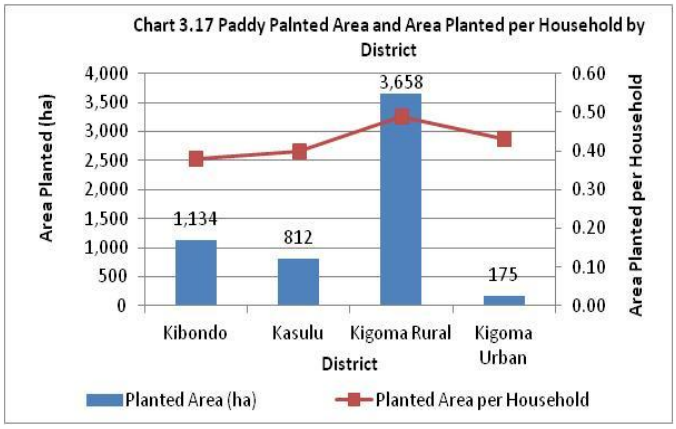
The yield of maize was 1.19 t/ha, followed by paddy (1.1 t/ha), sorghum (0.95 t/ha), bulrush millet (0.8 t/ha), wheat (0.77 t|ha) and finger millet (0.7 t /ha)

Maize

Maize dominated the production of cereal crops in the region. The number of households growing maize in Kigoma region during the short rainy season was 169,628 (92.7%) of the total annual crops growing households in the region during the short rainy season. The total production of maize was 113,051tonnes from a planted area of 95170 hectares resulting in a yield of 1.19 t/ha. Production of maize in the region has increased by 6,876 tonnes 6.5 percent, (Chart 3.16).

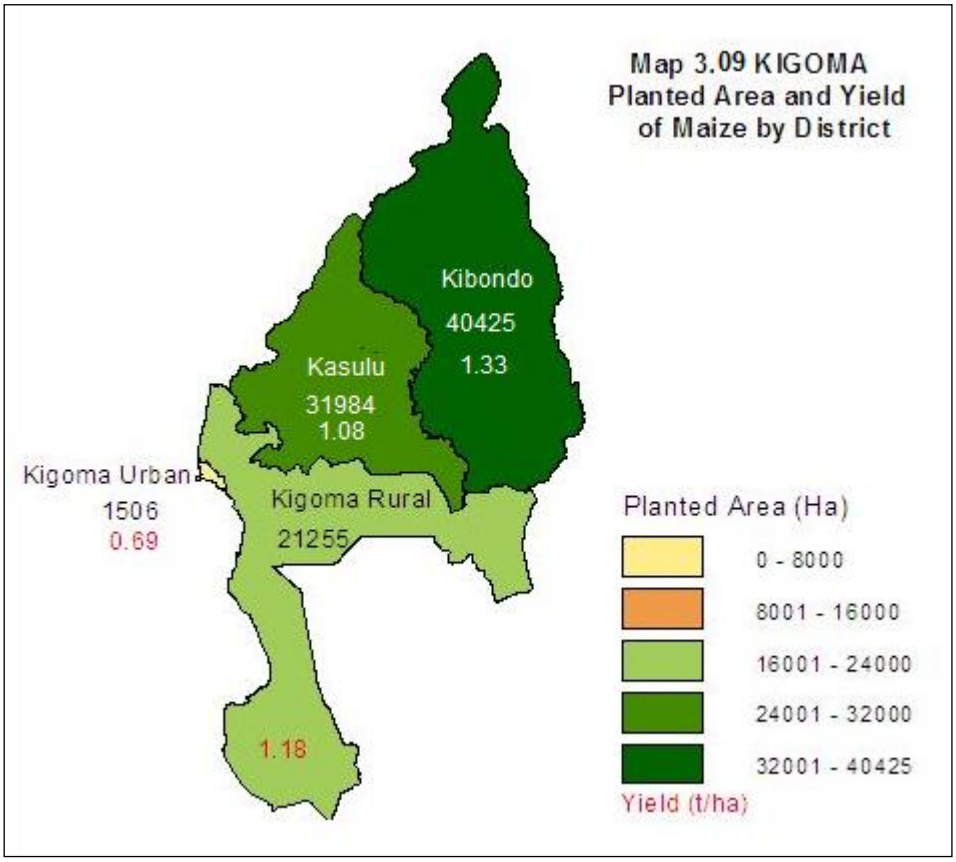


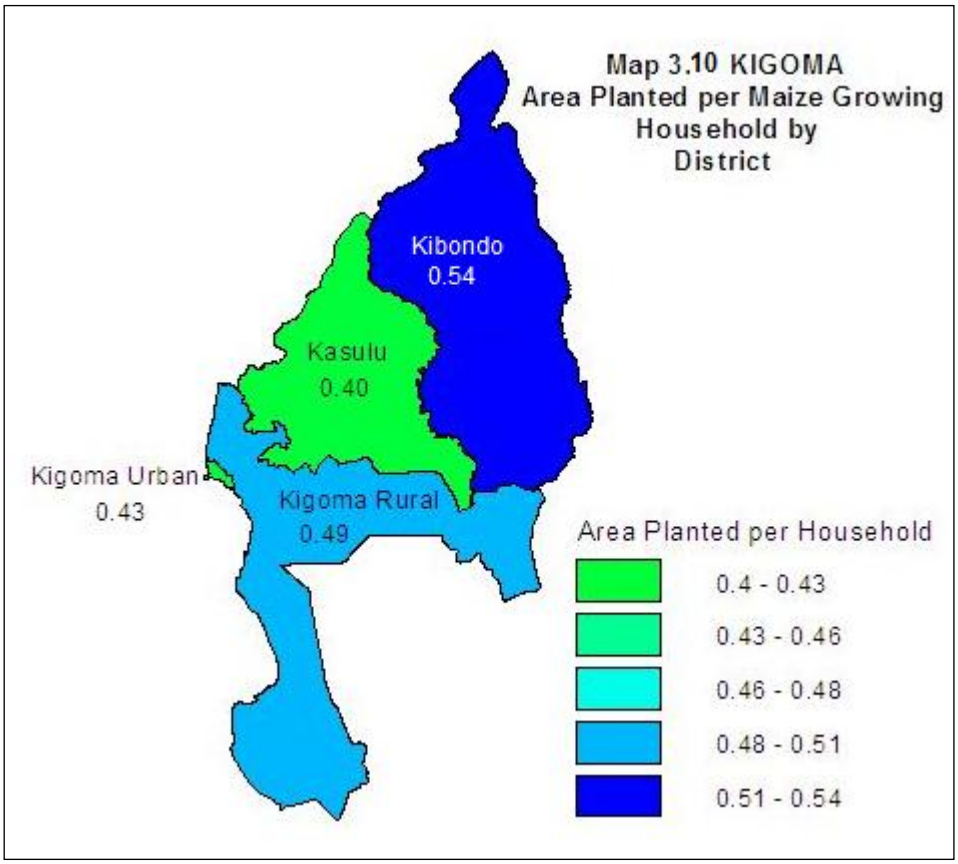
The average area planted with maize per household was 0.47 hectares; Kibondo district had the largest area of maize (40, 425 ha) followed by Kasulu (31,984 ha), Kigoma Rural (21,255 ha) and Kigoma Urban 1,506 ha), (Chart 3.16). The yield of maize has decreased from 1.26 tons/ha in 2003 census to 1.19 tons/ha in 2007/08 agriculture census.

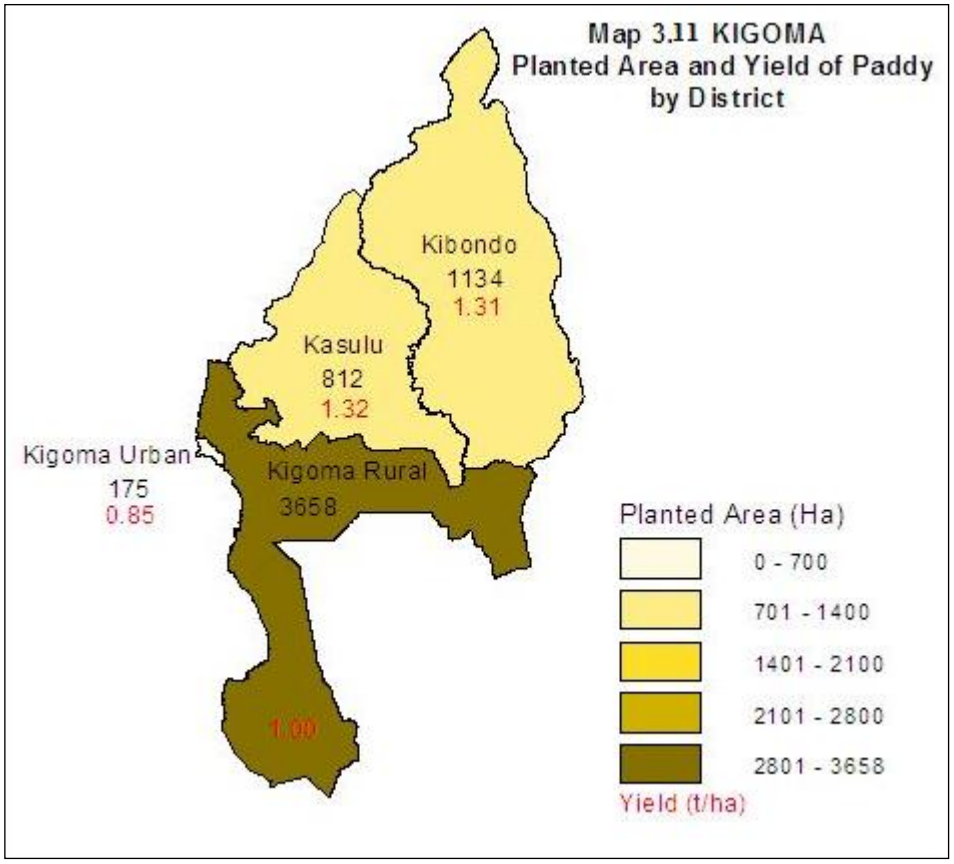


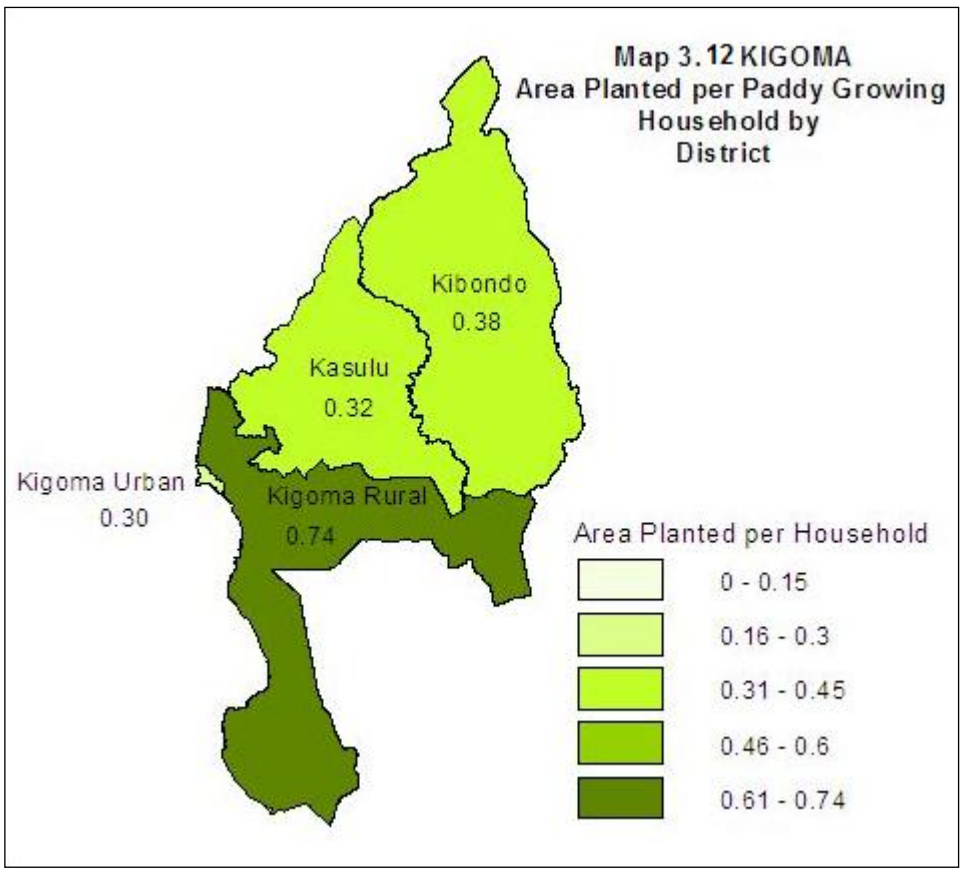
Paddy

Paddy was the third most important cereal crop in the region in terms of planted area. The number of households that grew paddy in Kigoma region during the short and long season was 11,085. The total production of paddy was 6,370 tonnes from a planted area of hectare 5,779 resulting in a yield of 1.1 t/ha, this yield has decreased by 0.5t|ha. The district with the largest area planted with paddy was Kigoma Rural (3,658 ha) followed by Kibondo (1,134 ha), Kasulu (812 ha), and Kigoma Urban (175 ha). Paddy production has decreased compared to 2003 where it was the second most important cereal crop in the region, (Chart 3.17). Paddy production decreased from 2003 to 2008 by 1,490 tonnes (19%).


Map 3.09 KIGOMA
Planted Area and Yield
of Maize by District
Kibondo
40425
1.33
Kasulu
31984
1.08
Kigoma Urban
1506
0.69
Kigoma Rural
21255
1.18
Planted Area (Ha)
0 - 8000
8001 - 16000
16001 - 24000
24001 - 32000
32001 - 40425
Yield (t/ha)

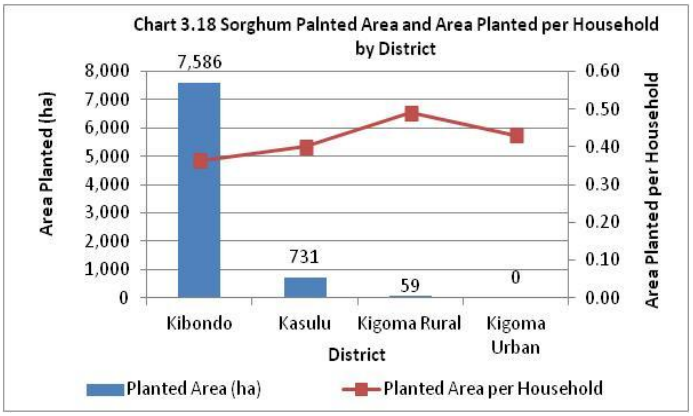

Map 3.10 KIGOMA
Area Planted per Maize Growing
Household by
District
Kibondo
0.54
Kasulu
0.40
Kigoma Urban
0.43
Kigoma Rural
0.49
Area Planted per Household
0.4 - 0.43
0.43 - 0.46
0.46 - 0.48
0.48 - 0.51
0.51 - 0.54


Map 3.11 KIGOMA
Planted Area and Yield of Paddy
by District
Kibondo
1134
1.31
Kasulu
812
1.32
Kigoma Urban
175
0.85
Kigoma Rural
3658
1.00
Planted Area (Ha)
0 - 700
701 - 1400
1401 - 2100
2101 - 2800
2801 - 3658
Yield (t/ha)


Map 3.12 KIGOMA
Area Planted per Paddy Growing
Household by
District
Kibondo
0.38
Kasulu
0.32
Kigoma Urban
0.30
Kigoma Rural
0.74
Area Planted per Household
0 - 0.15
0.16 - 0.3
0.31 - 0.45
0.46 - 0.6
0.61 - 0.74

Other Cereals

In terms of area planted with other cereals, bulrush millet and finger millet were less important crops compared to sorghum. The district with the largest area planted with sorghum was Kibondo (7,586 ha). This was followed by Kasulu (731 ha) and Kigoma Rural (59 ha) .There was no bulrush and finger millet production in Kigoma Rural and Kigoma Urban districts. Production of sorghum has increased such that it became the second most important cereal in the region, (Chart 3.18).



3.3.3.2 Roots and Tuber Crops Production

The total production of roots and tubers was 96,240 tonnes. Cassava production was higher than any other root and tuber crop in the region with a total production of 91,413 tonnes representing 94.9 percent of the total root and tuber crops production followed by sweet potatoes with 4,641 tones (4.8%) The remaining other crops contributed less than 1% of the total production. Percentage of sweet potato production has decreased by12.6 percent and cassava production has decreased by 29.7percent compared to census results of 2003.The estimated yield was highest for Irish potatoes(4.9 t/ha) followed by Yams (2.9 t/ha), sweet potatoes (1.8 t/ha), cassava (1.8 t/ha) and coco yam (0.9 t/ha), (Chart 3.19 and Table 3.3).

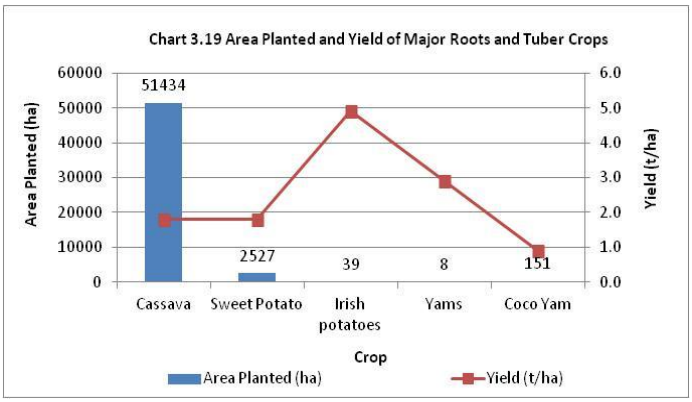


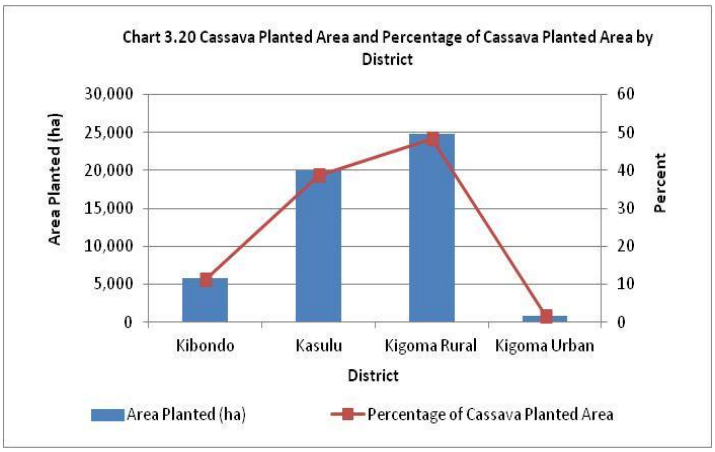
Table 3.3: Area, Production and Yield of Roots and Tuber Crops

Crop	Short Rainy Season			Long Rainy Season			Total		
	Area planted (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Area planted (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Area planted (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Cassava				51,842	91,413	1.8	51,842	91,413	1.8
Sweet Potato	1,459	1,919	1.3	1,068	2,722	2.5	2,527	4,641	1.8
Irish potatoes	39	192	4.9			0	39	192	4.9
Yams	8	23	2.9			0	8	23	2.9
Coco Yam	130	125	1	21	6	0.3	151	132	0.9
Total	**1,636**	**2,259**	**1.4**	**52,524**	**93,981**	**1.8**	**54,159**	**96,240**	**1.8**

Note: Cassava is produced in both the long and short rainy seasons. However, it was not possible to separate cassava production in the different growing seasons as the growth period spans both seasons and even over a year in certain varieties. Because of this, cassava has been combined and is reported mainly under the long rainy season.

Cassava

The number of households growing cassava in the region was 112, 201. This represented about 49.4 percent of the total crop growing households in the region. The total production of cassava during the census year was 91,413 tonnes from a planted area of 51,842 hectares resulting in a yield of 1.8 t/ha. The area planted with cassava accounted for 21.0 percent of the total area planted with annual crops and vegetables in the census year. From these results cassava production has decreased by 29.7 percent.



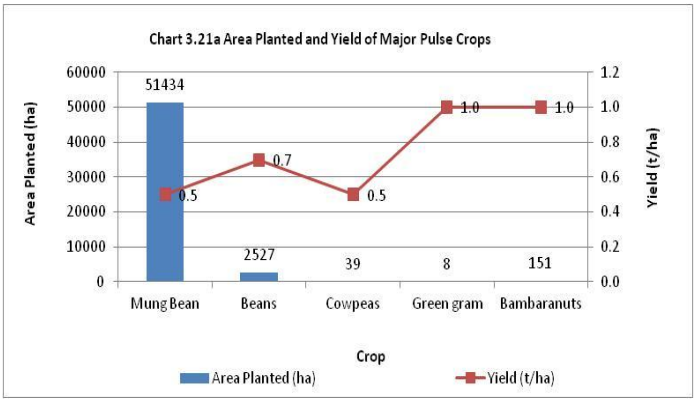
Kigoma Rural had the largest cassava planted area of 25,004 ha (48.2%) followed by Kasulu district (19,951 ha, 38.5%), Kibondo (5,994ha, 11.6%) and lastly Kigoma Urban with 893 ha, 1.7%), (Chart3.20). The average cassava planted area per cassava growing household was 0.5 hectares. However, there were small district variations. The area planted per cassava growing household was largest in Kigoma Rural (0.6 ha). This was followed by Kibondo (0.5 ha), Kigoma urban (0.5 hectares) and Kasulu (0.4 hectares).

Sweet Potatoes

The number of households growing sweet potatoes in Kigoma region was 9,505 during the short rainy season and 4,553 during the long rainy season. This was 85% of the total root and tuber crop growing households during both seasons. The total production of sweet potatoes during the census year was 4,641 tonnes from a planted area of 2,527 hectares resulting in a yield of 1.8t/ha. Kigoma rural district has the largest planted area for sweet potatoes (1,459 ha, 57.7%), followed by Kasulu (794 ha,31.4%), Kigoma Urban (236 ha 9.3%) and Kibondo (38 ha, 1.5%).Other root and tuber crops are of minor important in terms of area planted compared to cassava and sweet potatoes.

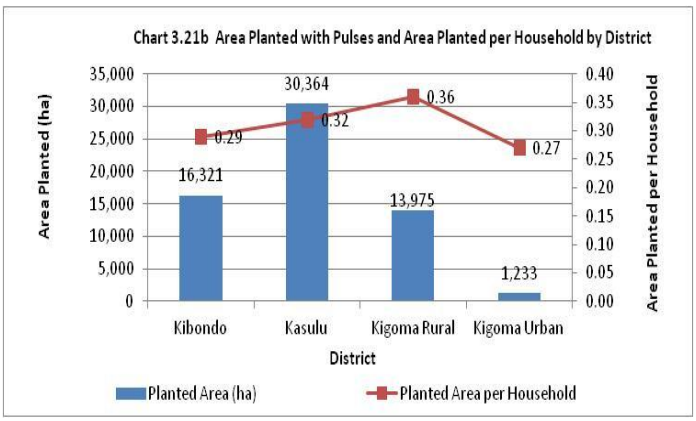
3.3.3.3 Pulse Crops Production

The total area planted with pulses was 61,893 hectares out of which 58,776 ha (95 percent of the total area planted with pulses) were planted with beans. Other pulse crops were of minor importance in terms of area planted. Area for pulses has decreased by 20.5 percent.



Beans was the most dominant pulse crop with 58,776 hectares (95.0 %) of the total area planted with pulses followed by mung bean 2,354 ha (3.8%), cow pea 483 ha (0.8%), bambaranuts 116 ha (0.2%) green gram 109 ha (0.2%) and field peas 55 ha (0.1%), (Chart 3.21a).

The total production of pulses was 40,312 tonnes. Beans production constituted 95.9% of the total pulse production followed by mung bean (2.8%), cow peas (0.6%), bambaranuts (0.3%), green gram (0.3%) and field peas (0.04%), (Table 3.3).



The district with the largest area planted with pulses was Kasulu (30,364 ha 49.1%) followed by Kibondo (16,321 ha, 26.4%), Kigoma Rural (13,975 ha, 22.6 %), and Kigoma Urban (1,233 ha, 2.0%). The district with the highest planted area per household was Kigoma rural 0.36 hectares followed by Kasulu 0.32ha, Kibondo 0.29 hectares and lastly Kigoma urban 0.27 hectares (Chart 3.21b, Table 3.4).

Table 3.4: Area Planted, Production and Yield of Major Pulses by Season

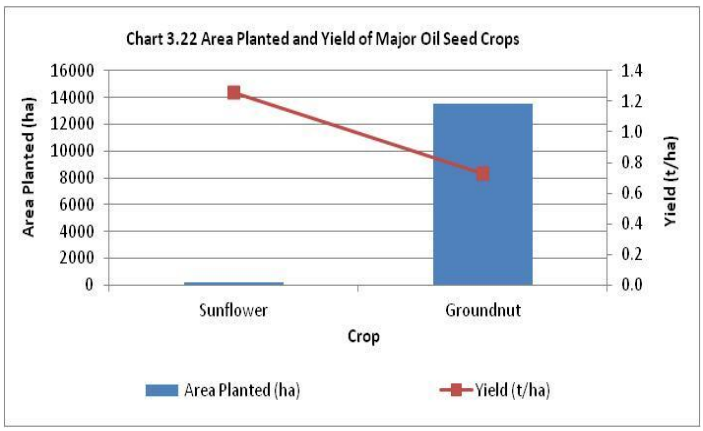
Crop Type	Short Rainy Season			Long Rainy Season			Total		
	Area Planted (ha)	Quantity Harvested (tones)	Yield (tonnes/ha)	Area Planted (ha)	Quantity Harvested (tones)	Yield (tonnes/ha)	Area Planted (ha)	Quantity Harvested (tones)	Yield (tonnes/ha)
Mung Bean	334	262	0.8	2,020	886	0.4	2,354	1,147	0.5
Beans	40,049	25,644	0.6	18,728	13,034	0.7	58,776	38,678	0.7
Cowpeas	441	214	0.5	42	30	0.7	483	244	0.5
Green gram	23	56	2.5	86	51	0.6	109	107	1.0
Bambaranuts	59	58	1.0	57	60	1.1	116	119	1.0
Field Peas	49	8	0.2	6	9	1.5	55	17	0.3
Total	**40,955**	**26,243**	**0.6**	**20,938**	**14,069**	**0.7**	**40,312**	**40,312**	**0.7**

Beans

Beans dominated the production of pulse crops in the region. The number of households growing beans in Kigoma region in the short and long rainy seasons was 182,849 compared to 256,888in 2003. The total production of beans in the region was 38,678 tonnes which is slightly lower than 40,304 tonnes recorded in 2003.The current yield gives an average of 0.66 tonnes per hectare which is slightly higher than 0.52 t/ha reported in 2003. Kasulu district with 28,224 ha of beans had the largest planted area in the region. Kigoma Rural district had the largest area planted with beans per household 0.38 ha). The average area planted per household in the region was 0.32 ha. The variations in the area with beans per household among the districts were small ranging from 0.28 to 0.38 ha.

3.3.3.4 Oil Seed Production

The total production of oilseed crops was 10,097 tonnes planted on an area of 13,735 hectares. The total planted area of oilseeds during the short rainy season was 10,869 hectares representing79.1% percent of the total area planted with oilseeds. The production of oilseeds has increased by 17.7%.compared to 2002/03 agriculture sample census.



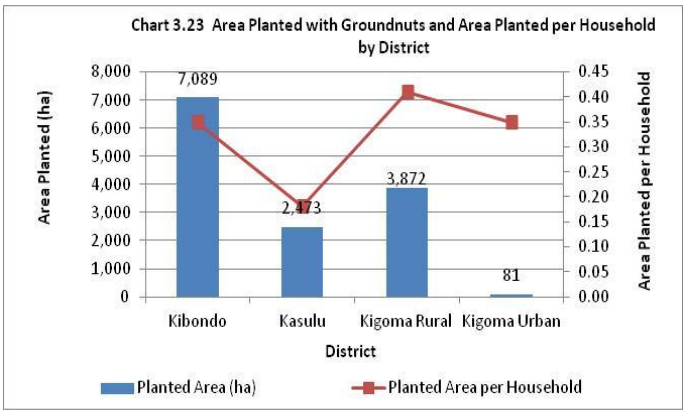
Groundnuts was the most important oilseed crop with 13,524 hectares (98.5% of the total area planted with oil seeds), followed by sunflower (1.5%).Area planted with groundnuts has increased by 23.3 percent. The yield for groundnuts was 0.73 t/ha and for sunflower was 1.26 t/ha, (Chart 3.22 and Table 3.5).

Table 3.5: Area Planted, Production and Yield of Oil Seeds by Season

Crop	Short Rainy Season			Long Rainy Season			Total		
	Area Planted (ha)	Quantity Harvested (tones)	Yield (tonnes/ha)	Area Planted (ha)	Quantity Harvested (tones)	Yield (tonnes/ha)	Area Planted (ha)	Quantity Harveste d (tones)	Yield (tonnes/ha)
Sunflower	125	203	1.63	86	62	0.72	211	265	1.26
Groundnut	10,744	7,852	0.73	2,780	1,980	0.71	13,524	9,832	0.73
Total	**10,869**	**8,055**	**0.74**	**2,866**	**2,042**	**0.71**	**13,735**	**10,097**	**0.74**

Groundnuts

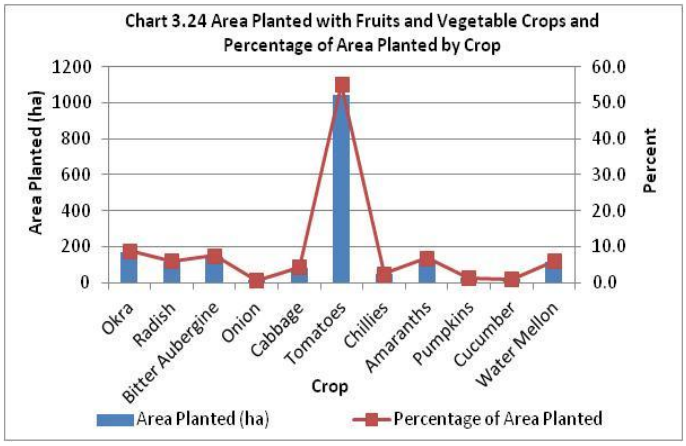
The number of households growing groundnuts in Kigoma region was 33,162 during the short rainy season and 9, 969 during the long rainy season. The total production of groundnuts in the region was 9,832 tonnes from a planted area of 13,524 hectares resulting in a yield of 0.73 t/ha. Production of groundnuts increased from 8,354 tonnes in 2003 to 9,832 in 2008 which is equivalent to 17.7% increase. The district with the largest area planted with groundnuts was Kibondo with 7,098 hectares (52.5% of the total area planted with groundnuts in Kigoma region) followed by Kigoma Rural (3,872 hectares, 28.6 %), Kasulu (2, 473 hectares, 18.3%) and lastly Kigoma Urban (81 hectares, 0.6%).



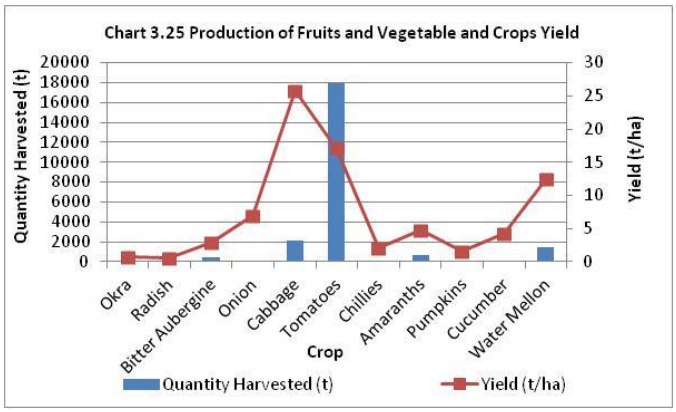
The largest area planted with groundnuts per household was in Kigoma Rural (0.41ha), followed by Kibondo (0.35 ha), Kigoma Urban (0.35ha) and Kasulu district (0.18 ha), (Chart 3.23).

3.3.3.5 Fruits and Vegetables

The total area planted with fruits and vegetables was 1,898 hectares out of which 1,047 hectares were planted with tomatoes (55.1% of the total area planted with fruits and vegetables).Other fruits and vegetables planted were okra (168 ha, 8.8%), bitter Aubergine 144 ha, 7.6%), amaranthus (131 ha, 6.9%), radish (114 ha, 6%), water melon (113 ha, 6.0%), cabbage (81 ha, 4.3%), chillies (46 ha, 2.4%), pumpkins (26 ha, 1.4%) and cucumber (18 ha, 0.9%), (Chart 3.24). Area planted with fruits and vegetables decreased by 6.9% as compared to 2003 agriculture census.



The total production of fruits and vegetables was 22,949 tonnes. The most cultivated fruit and vegetable crop were tomatoes with a production of 17,950 tonnes (78.2% of the total fruits and vegetables produced). The production has increased by 459.5% percent compared to 2003 agricultural census of Kigoma region. This was followed by cabbage (2,101 ha, 9.2%), water melon (1,405 ha, 6.1%), amaranthus (612 ha, 2.7%), bitteer aubergine (417 ha, 1.8%), okra (120 ha, 0.5%), chillies (97 ha, 0.4%), cucumber (75 ha, 0.3%), onion (73 ha, 0.3%), radish (55 ha, 0.2%) and pumpkins (42 ha, 0.2%).

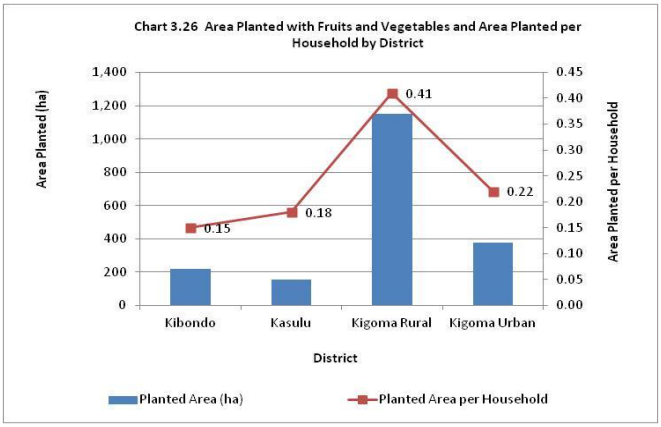


Cabbages had the highest yield (25.8 t/ha), followed by tomatoes (17.1 t/ha). Other crop yields were water melon 12.4 t/ha, amaranthus 4.7 t/ha, bitter aubergine 2.9 t/ha, okra 0.7 t/ha, chillies 2.1 t /ha, cucumber 4.3 t/ha, onions 6.9 t/ha, radish 0.5 t/ha and pumpkins 1.6 t/ha, (Chart 3.25 and Table 3.6).

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

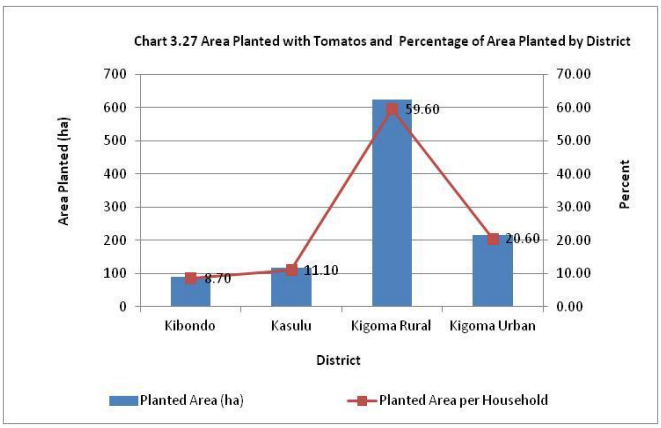
Crop	Short Rainy Season			Long Rainy Season			Total		
	Area Planted (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Area Planted (ha)	Quantity Harveste d (tons)	Yield (tons/ha)	Area Planted (ha)	Quantity Harveste d (tons)	Yield (tons/ha)
Okra	168	120	0.7				168	120	0.7
Radish	114	55	0.5				114	55	0.5
Bitter Aubergine	70	303	4.3	74	114	1.5	144	417	2.9
Onion			0	11	73	6.9	11	73	6.9
Cabbage	44	400	9.1	37	1,701	45.8	81	2,101	25.8
Tomatoes	865	11,478	13.3	182	6,471	35.6	1047	17,950	17.1
Chillies	46	97	2.1				46	97	2.1
Amaranths	131	612	4.7				131	612	4.7
Pumpkins	.		0	26	42	1.6	26	42	1.6
Cucumber	18	75	4.3				18	75	4.3
Water Mellon	113	1,405	12.4				113	1,405	12.4
TOTAL	**1,569**	**14,547**	**9.3**	**330**	**8,401**	**25.5**	**1,898**	**22,948**	**12.1**

Total number of households growing fruits and vegetables were 6,799 in a total planted area of 1,898 hectares. The district with the largest planted area per household was Kigoma Rural 0.41ha, followed by Kigoma Urban 0.22ha, Kasulu 0.18 ha and Kibondo 0.15 ha (Chart 3.26).



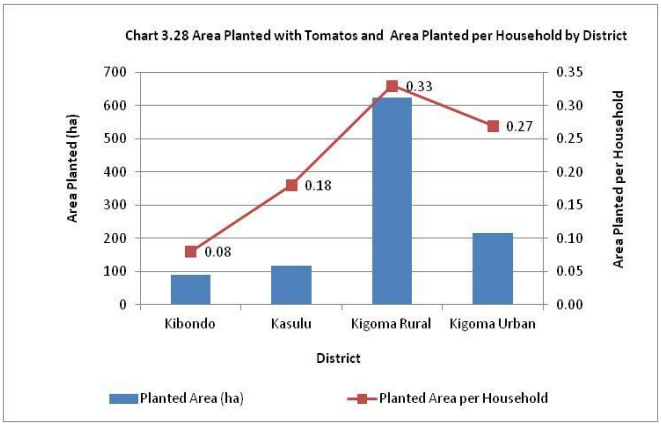
Tomatoes

The number of households growing tomatoes in the region during the short rainy season was 3,493and in the long rainy season were 976. This represented 1.9 percent of the total crop growing households in the region during the short rainy season and 1.3 percent during the long rainy season. The district with the largest tomato planted area was Kigoma Rural which planted 624 hectares equivalent to 59.6% of the total area planted with tomatoes in the region. This



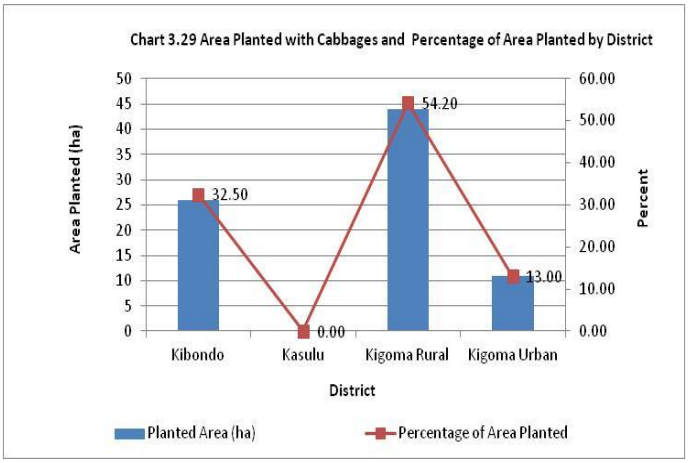
was followed by Kigoma Urban (216 ha, 20.6%), Kasulu (116 ha, 11.1%), and lastly Kibondo district (91 ha, 8.7%), (Chart 3.27).

The largest area planted per tomato growing household was found in Kigoma Rural district (0.33ha) followed by Kigoma Urban (0.27 ha), Kasulu (0.18 ha) and Kibondo (0.08 ha), (Chart 3.28). The total area planted with tomatoes accounted for 0.43 percent of the total area planted with annual crops and vegetables in 2008

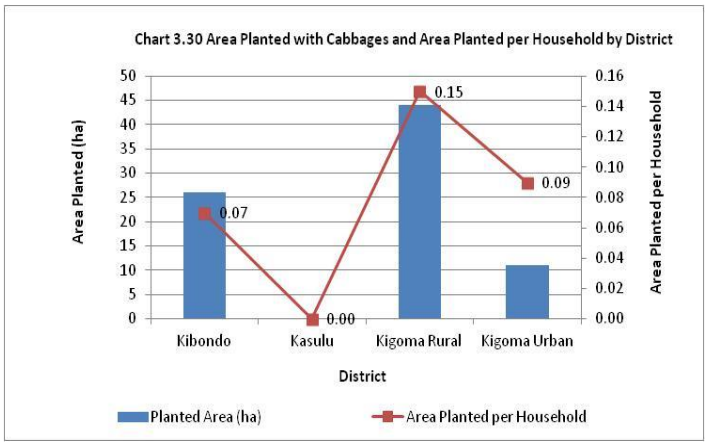


Cabbage

The number of households growing cabbages in the region during short rainy season was 449 and 333 in the long rainy season. This represented 0.25 percent of the total crop growing households in the region in the short rainy season and 0.43 percent in the long rainy season.



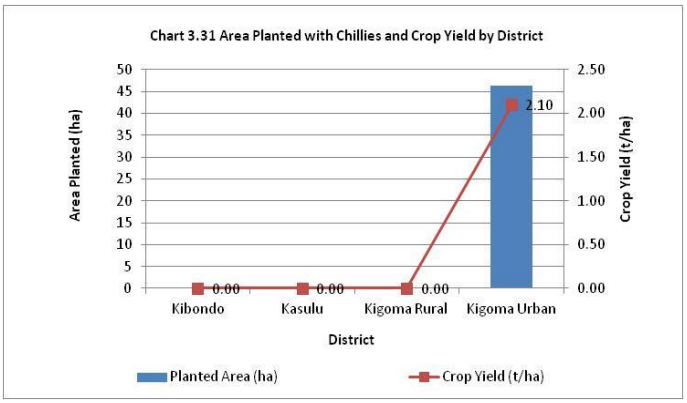
The district with the largest area planted with cabbages was Kigoma Rural with 44 hectares which is equivalent to 54.2 percent of the total area planted with cabbage in the region. This was followed by Kibondo district (26 ha, 32.5%), Kigoma Urban (11 ha, 13.3%) and Kasulu district which did not plant cabbages in that particular year, (Chart 3.29).



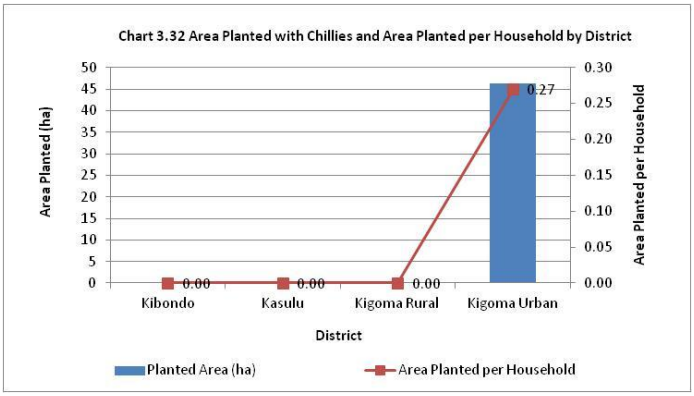
The largest area planted per cabbage growing household was found in Kigoma Rural district (0.15 ha) followed by Kigoma Urban (0.09 ha) and Kibondo (0.07 ha), (Chart 3.30). The total area planted with cabbages accounted for 0.03 percent of the total area planted with annual crops and vegetables in 2008

Chillies

The number of households growing chillies in the region during both the long and short rainy season was 174.This represented 0.07 percent of the total crop growing households in the region. Kigoma Urban was the only district which planted chillies to an area of 46.4 hectares. Other districts were not reported to grow chillies in 2008, (Chart 3.31).

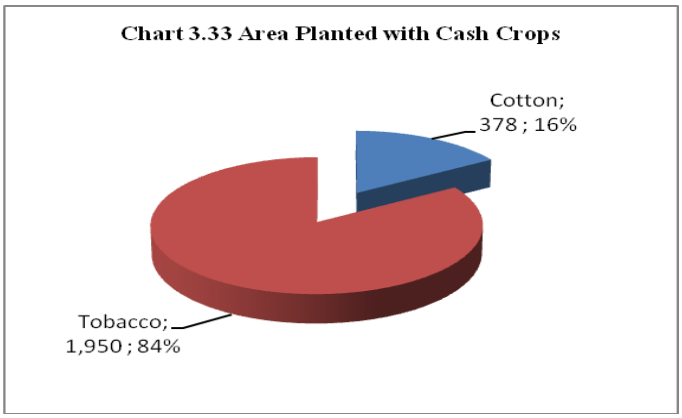


The area planted with chillies accounted for 0.02 percent of the total area planted with annual crops and vegetables during the short and long rainy seasons The area planted with chillies per growing household in Kigoma urban was 0.27 ha, (Chart 3.32).



3.3.3.6 Other Annual Crop Production

Most of the other annual crops are cash crops. An area of 2,328 hectares was planted with other annual crops. Tobacco was the most prominent followed by cotton. The area planted with tobacco was 1,950 ha which represented 84 percent of the total area planted with annual cash crops in short and long rainy season (Chart 3.33). The area planted for tobacco has increased by 11.1 percent compared to 2003 agriculture census.



Cotton

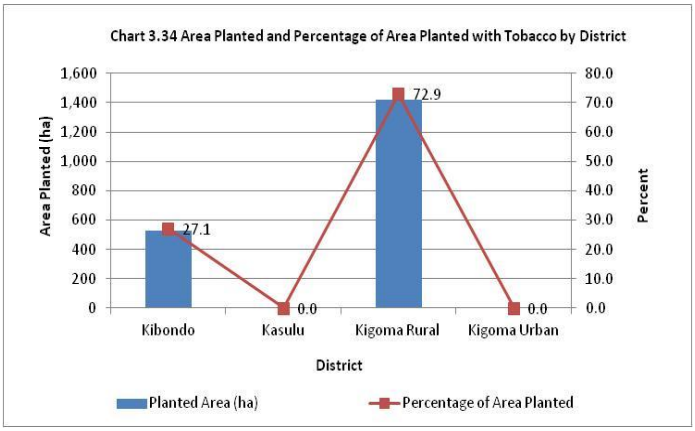
Only 149 tonnes of cotton were produced in Kigoma Region on a planted area of 378 hectares. All of it was produced during the short rainy season, (Table 3.7). The crop was only grown in Kibondo district and the production of cotton has increased by 67.8 percent.

Table 3.7: Area Production and Yield of Other crops (Cash crops) by Season

Crop	Short Rainy Season			Long Rainy Season			Total		
	Area Planted(ha)	Quantity Harvested (tons)	Yield (tons/ha)	Area Planted(ha)	Quantity Harvested (tons)	Yield (tons/ha)	Area Planted (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Cotton	378	149	0.4	.	.	.	378	149	0.4
Tobacco	1,950	1,988	1.0				1,950	1,988	1.0
Total	**2,328**	**2,137**	0.9				**2,328**	**2,137**	0.9

Tobacco

The quantity of tobacco produced was 1,988 tonnes. This production has increased by 315 percent. Tobacco had a planted area of 1,950 hectares, most of which was planted in the short rainy season, (Table 3.7).



In Kigoma region, tobacco was produced in only two districts namely Kibondo and Kigoma Rural with Kigoma Rural having the largest planted area of 1420 hectares (72.9% of the total area planted with tobacco in the region). Kibondo district planted 529 hectares (27.1%), (Chart 3.34 and Table 3.7).

3.4 Permanent Crops

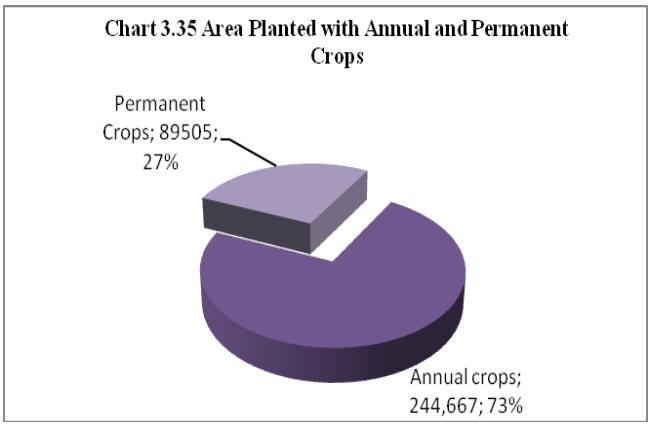
Permanent crops (perennial crops) are crops that normally take over a year to mature and once mature they can be harvested for a number of years. For most crops, it is easy to determine if they are annual or permanent. However, for crops like cassava and bananas the distinction is not so clear.

Cassava has varieties that mature within a year and produce only one harvest, whilst other varieties survive for more than one year and produce several harvests. In this census, cassava was treated as

an annual crop. Conversely, bananas normally take less than a year to mature, 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 planted area, production and yield. In Kigoma region, a total of 89,505 hectares of small holder farmers were planted with permanent crops. This has been increased by 108.7 percent compared to 2003 agriculture census.

However, the area planted with annual crops is not the actual physical land area as it doubles counts the area planted more than once during the year, whilst the planted area for permanent crops is the same as physical land area. So the percentage of physical area planted with permanent crops may be higher than indicated in Chart 3.35.

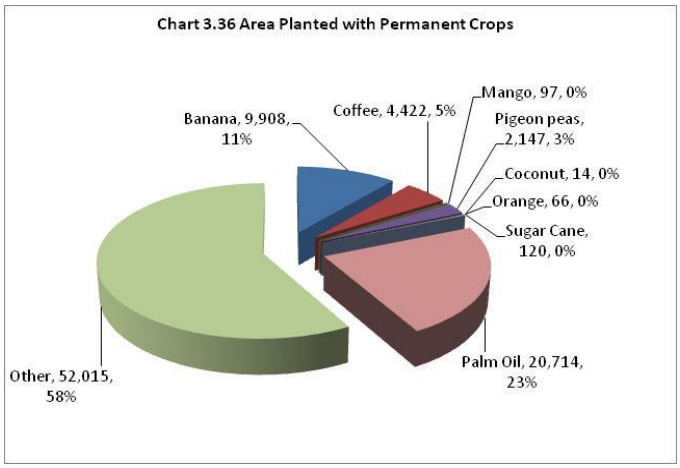


The permanent crops planted to this area were banana, coffee, mango, pigeon pea, coconuts, oranges, sugarcane, palm oil and others, (Table 3.8)

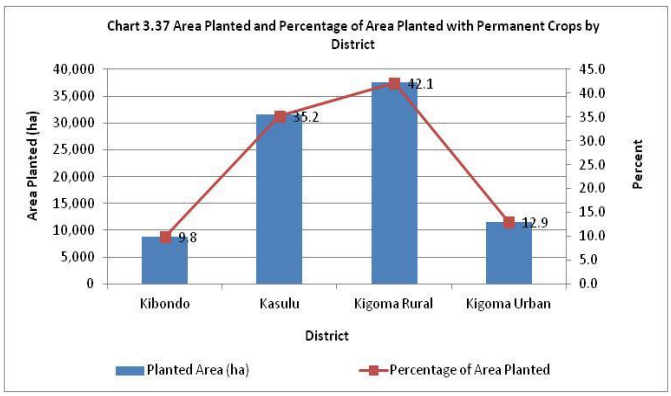
Table 3.8: Area Planted, Production and Yield of Permanent Crops (Mono and Mixed Crops)

Crop	Number of households	Area Planted (ha)	Area harvested (ha)	Quantity harvested (t)	Quantity Harvested (kgs)	Yield (t/ha)	Yield (Kg/ha)
Banana	41,608	9,908	7,063	46,779	4,677,879	6.6	662
Coffee	11,035	4,422	2,683	4,090	408,997	1.5	152
Mango	775	97	78	791	79,137	10.1	1,010
Pigeon peas	10,617	2,147	1,349	534	53,354	0.4	40
Coconut	146	14	14	0	0	0	0
Orange	262	66	26	68	6,803	2.6	260
Sugar Cane	571	120	120	22	2,193	0.2	18
Palm Oil	30,904	20,714	18,635	11,956	1,195,564	0.6	64
Other	113,919	52,015	40,705	91,596	9,159,583	2.3	225
Total	209,837	89,505	70,674	155,835	15,583,510	2.2	220

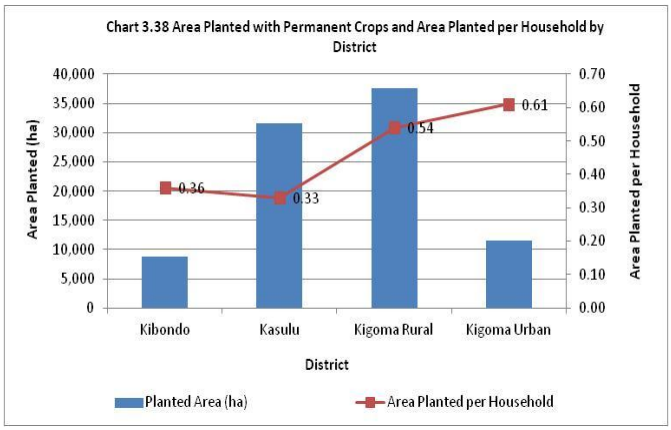
The most important permanent crop in the region was palm oil which had a planted area of 20,714 ha, (23.1% of the planted area of all permanent crops), followed by banana (9,908 ha, 11.1%), coffee (4,422 ha, 4.9%), pigeon pea (2,147 ha, 2.4%), sugar cane (120 ha, 0.1%), mango (97 ha, 0.1%) and orange (66 ha, 0.1%). The remaining permanent crops collectively had a planted area of 52,015 hectares, (Chart 3.36).



Kigoma Rural had the largest planted area of 37,643 hectares (42.1%) followed by Kasulu (31,545 hectares, 35.2%), Kigoma Urban (11,546 hectares, 12.9%) and lastly Kibondo district (8,770 hectares, 9.8%), Chart 3.37).



Kigoma Urban had the largest planted area per permanent crop growing household with 0.61 hectares followed by Kigoma Rural (0.54 ha), Kibondo (0.36 ha) and Kasulu (0.33 ha), (Chart 3.38).



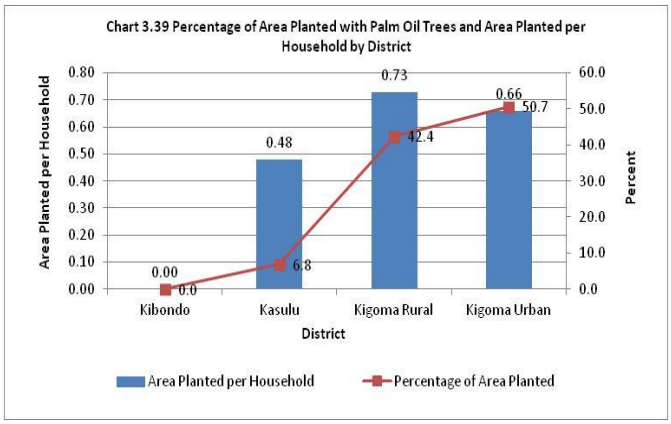
3.4.1 Palm Oil

The total production of palm oil by small holders was 11,956 tonnes. The crop was grown by 30,904 households equivalent to 14.7% of the total permanent crops growing households. The average area planted with palm oil per household was relatively big at 0.67 hectares per palm oil growing household.

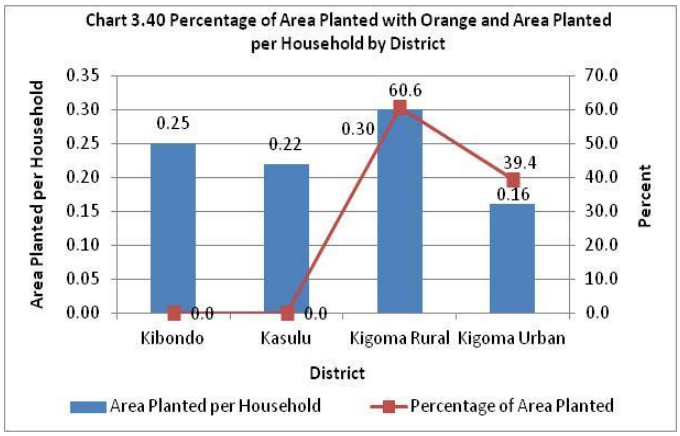
Kigoma Urban had the highest percentage of area planted with palm oil in the region with10, 512 ha, (50.7%), followed by Kigoma Rural (8,785 ha, 42.4%) and Kasulu district with 1,417 hectares

(6.8%). Nothing was planted in Kibondo district (Chart 3.39). Area planted with palm oil increased by 101.4 percent compared to 2003 agriculture census.

3.4.2 Oranges

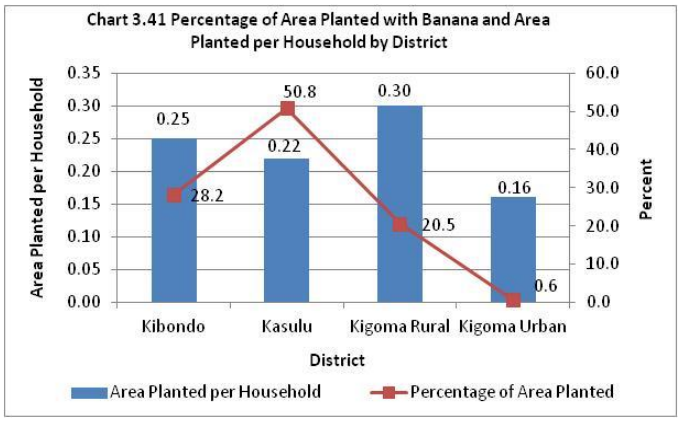


The total production of oranges by smallholders was 68 tonnes. The crop was grown by 262 households (0.12 % of the total permanent crops growing households) from a harvest area of 26 hectares. The average area planted with oranges per household was relatively small at around 0.25 ha per orange growing household and the average yield obtained by smallholders was 2.6 t/ha.



Kigoma rural had the largest area of oranges in the region with 40 hectares (60.6%) followed by Kigoma Urban (26 ha, 39.4%) and nothing was planted in other districts (Kasulu and Kibondo). The average area planted with oranges per orange planting household was highest in Kigoma Rural (0.28 ha) followed by Kigoma Urban (0.23 ha), (Chart 3.40).

3.4.3 Banana



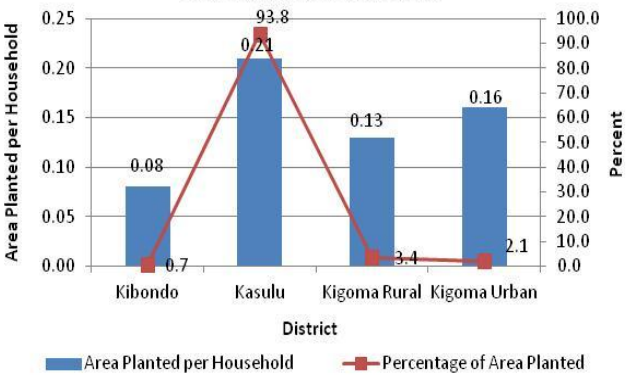
The total production of banana by small holders was 46,779 tonnes. In terms of area planted, banana was the first most important permanent crop grown by smallholders in the region. It was grown by 41,608 households (19.8% of the total permanent crops growing households). The average area planted with banana per household was relatively small at around 0.24 hectares per banana growing household and the average yield obtained by small holders was 6.6 t/ha from a harvested area of 7063 hectares.

Kasulu had the largest planted area of bananas in the region (5,028 ha, 50.8%) followed by Kibondo (2,792 ha, 28.2%), Kigoma Rural (2,031 ha, 20.5%), and Kigoma Urban (57 ha, 0.6%). However, the area planted with banana per banana growing household was highest in (Kigoma Rural (0.3ha), followed by Kibondo (0.25 ha), Kasulu (0.22), and Kigoma Urban (0.16 ha), (Chart 3.41).

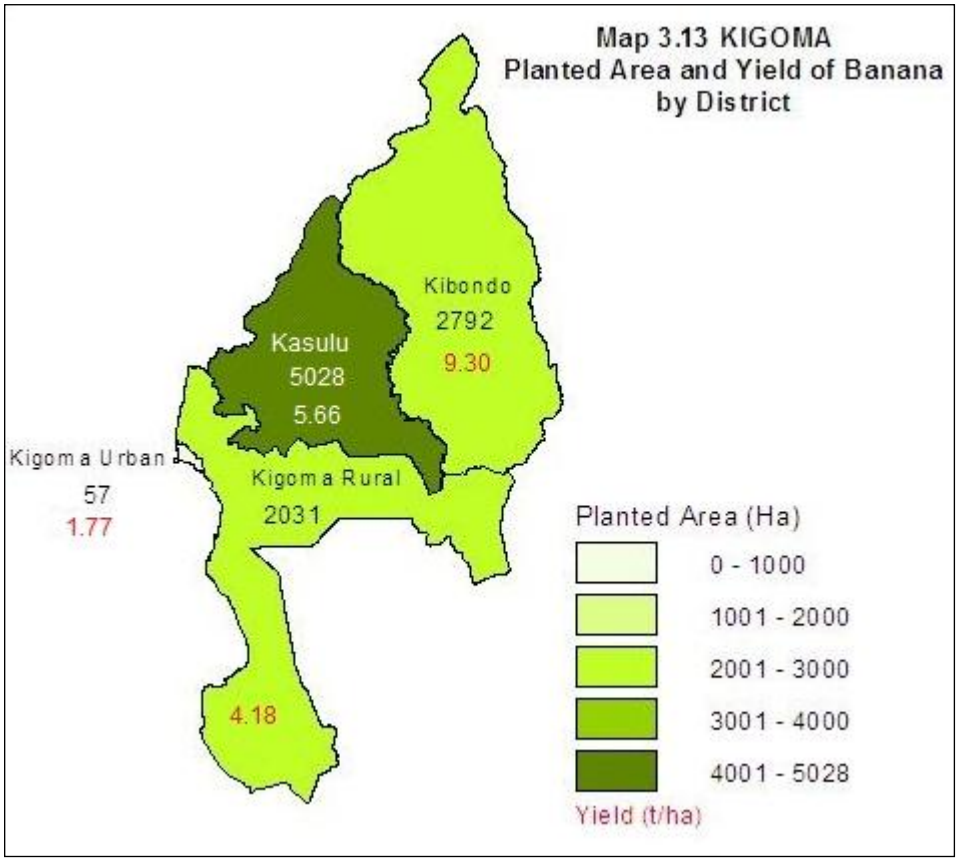
3.4.4 Pigeon Peas

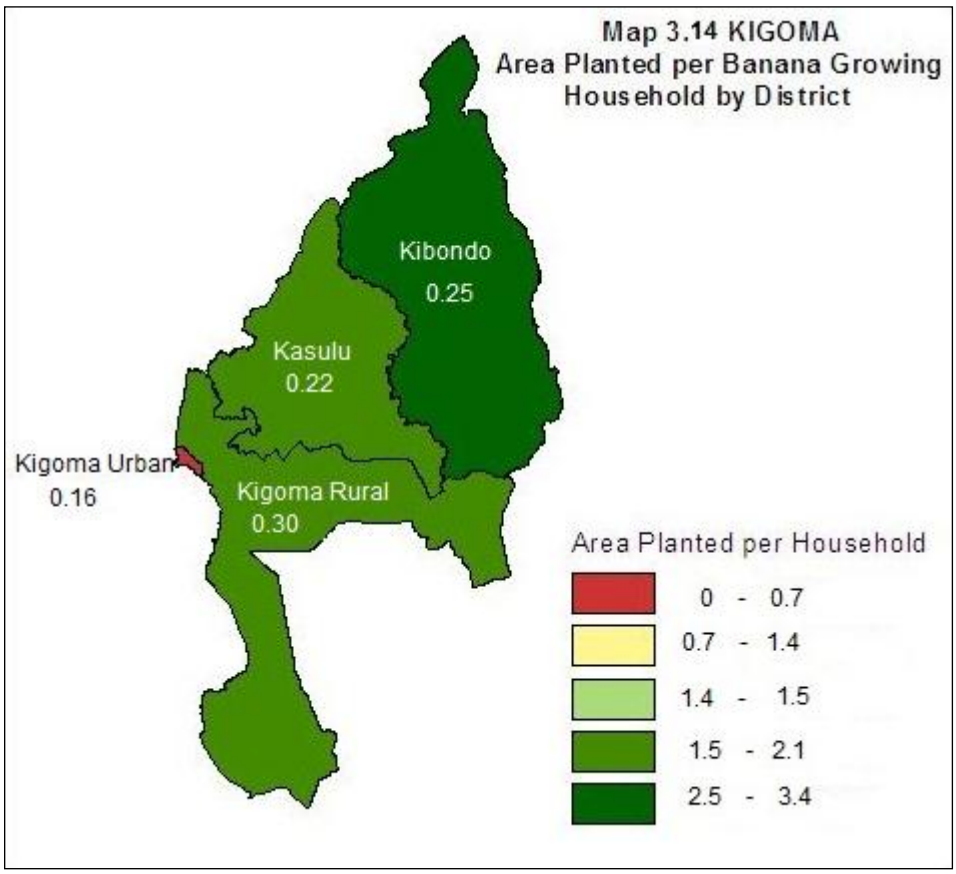
The total production of pigeon pea by smallholders was 534 tonnes. The crop was grown by 10,617 households (5.1% of the total crop growing households). The average area planted with pigeon pea per household was 0.2 ha per pigeon peas growing household.

Chart 3.42 Percentage of Area Planted with Pigeon Peas and Area Planted per Household by District



Kasulu had the largest planted area of pigeon pea (2,014 ha, 93.8%) followed by Kigoma Rural (74 ha, 3.4%), Kigoma Urban (45 ha, 2.1%) and Kibondo (15 ha, 0.7%). The area planted with pigeon peas per pigeon pea growing household was highest in Kasulu (0.21 ha) followed by Kigoma Urban (0.16 ha), Kigoma Rural (0.13 ha) and Kibondo (0.08 ha), (Chart 3.42).

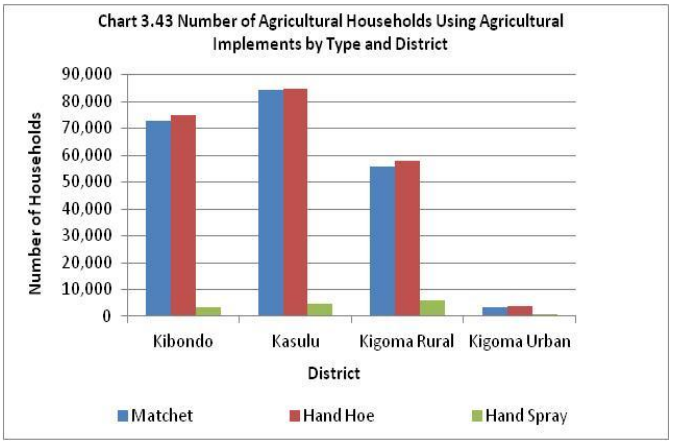

Map 3.13 KIGOMA
Planted Area and Yield of Banana by District
Kibondo
2792
9.30
Kasulu
5028
5.66
Kigoma Urban
57
1.77
Kigoma Rural
2031
4.18
Planted Area (Ha)
0 - 1000
1001 - 2000
2001 - 3000
3001 - 4000
4001 - 5028
Yield (t/ha)


Map 3.14 KIGOMA
Area Planted per Banana Growing Household by District
Kibondo
0.25
Kasulu
0.22
Kigoma Urban
0.16
Kigoma Rural
0.30
Area Planted per Household
0 - 0.7
0.7 - 1.4
1.4 - 1.5
1.5 - 2.1
2.5 - 3.4

3.5 Use of Inputs/Implements

3.5.1 Use of Agricultural Equipment

Matchet and handhoe are the most widely used farming tools and were used by 96.1 and 98.3 percent respectively of agricultural households. Other agricultural equipment used in order of importance include hand sprayer used by 6.6 percent of agriclutral households, and grater, chipper, oil press and oil mill (1.5%).



Kasulu district had the highest percentage of agricultural households using matchet and hand hoe in agriculture activities (39% of agricultural households using matchet and 38.3% using hand hoe for agriculture activities).

Kibondo and Kigoma Rural had the second and third highest percentage of agricultural households using matchet and hand hoe. Kibondo had 34 percent of agricultural households using matchet and hand hoe, and Kigoma Rural had 25.7 and 26.2 percents of agricultural households using matchet and hand hoe respectively (Table 3.8, Chart 3.43).

Table 3.9: Number and Percentage of Agricultural Households that used Agricultural Equipment/Asset by Type and District

	Matchet		Hand Hoe		Hand Sprayer	Grater, Chipper, Oil Press and Oil Mill
District	Number	%	Number	%	Number	Number
Kibondo	72,820	33.6	74,874	33.8	3,548	0
Kasulu	84,305	39	84,730	38.3	4,672	212
Kigoma Rural	55,696	25.7	57,889	26.2	5,847	2,924
Kigoma Urban	3,589	1.7	3,878	1.8	810	232
Total	216,410	100	221,371	100	14,877	3,368

Tractor was one of the farming tools used in Kigoma region for soil preparation and was used by 731 agricultural households representing 0.3 percent of the total agricultural households using equipment for soil preparation, followed by tractor plough (824 households, 0.4%). Draft animals were also used to prepare soil. The animals used by most animals include cow (2,362 households, 1.0%), followed by uncastrated bulls (1,701 households, 0.7%) and castrated bulls (1,196

households, 0.5%). Tractor harrow was used by only 505 households, representing 0.2 % of the total agricultural households using equipment for agricultural activities in the region.

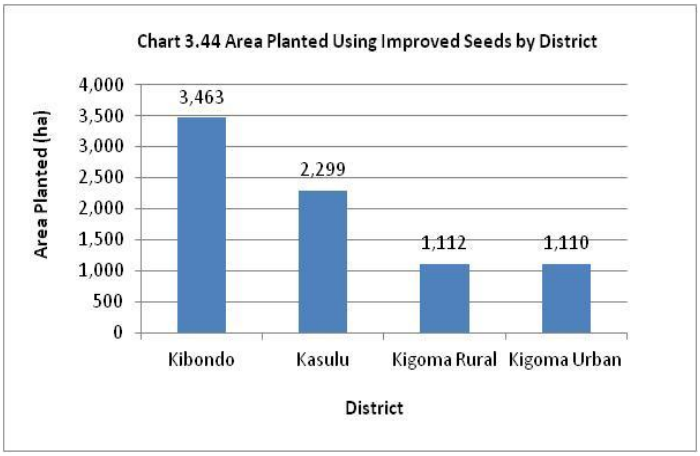
Kibondo district had the highest number (373, 0.5%) of households using tractor for land preparation followed by Kasulu (212, 0.2%) and Kigoma Rural (146, 0.2%). There was no tractor use for preparing soil in Kigoma urban. Tractor plough was widely used in Kasulu (637 households, 0.7%) and Kibondo (187 households, 0.2%). Uncastrated bulls were widely used in Kigoma Rural (877 households, 1.5%), Kasulu (637 households, 0.7%), and Kibondo (187 households, 0.2%) Castrated bulls were widely used in Kigoma Rural by 0.5 percent of the households, Kasulu (0.2 percent) and Kibondo by 0.1 percent of agricultural households (Table 3.10).

Table 3.10: Number of Households that Used Agricultural Equipment by Type and District

District	Equipment/Asset Name													
	Ox cart		Tractor		Tractor plough		Tractor Harrow		Castrated bulls		Uncastrated bulls		Cow	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
	187	0.2	373	0.5	187	0.2	0	0	187	0.1	187	0.2	373	0.5
Kasulu	212	0.2	212	0.2	637	0.7	212	0.2	637	0.2	637	0.7	849	1.0
Kigoma Rural	146	0.2	146	0.2	0	0	292	0.5	877	0.5	877	1.5	1,023	1.7
Kigoma Urban	0	0	0	0	0	0	0	0	0	0	0	0	116	2.7
Total	**545**	**0.2**	**732**	**0.3**	**824**	**0.4**	**505**	**0.2**	**1,196**	**0.3**	**1,701**	**0.8**	**2,362**	**1.0**

3.5.2 Inputs Use

3.5.2.1 Improved Seeds Use



Results show that the planted area using improved seeds was 7,984 hectares representing about 3.3 percent of the total area planted with the annual crops and vegetables. The planted area using improved seeds during the short rainy season was 6,161 hectares, representing 4.1% of the total area planted with annual crops and vegetables. Kigoma Rural district had the largest area (hectares) planted with improved seeds

(3,463, 43.4%), followed by Kibondo (2,299, 28.8%) and Kasulu (1,112, 13.9%) and Kigoma Urban (1,110, 13.9%), (Chart 3.44).

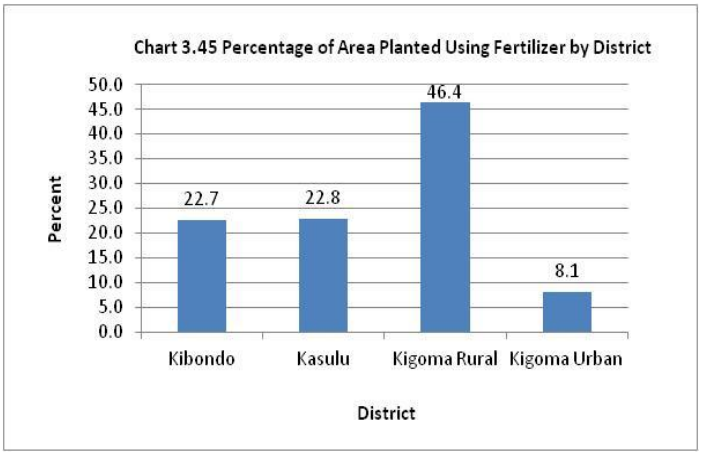
During the long rainy season only 1,823 ha (1.0%) of the total planted area were planted using improved seeds. Kigoma Rural had the highest planted area (40.9%) of the total area planted using improved seeds during the season, followed by Kasulu (38.8%).

3.5.3 Fertilizer Use

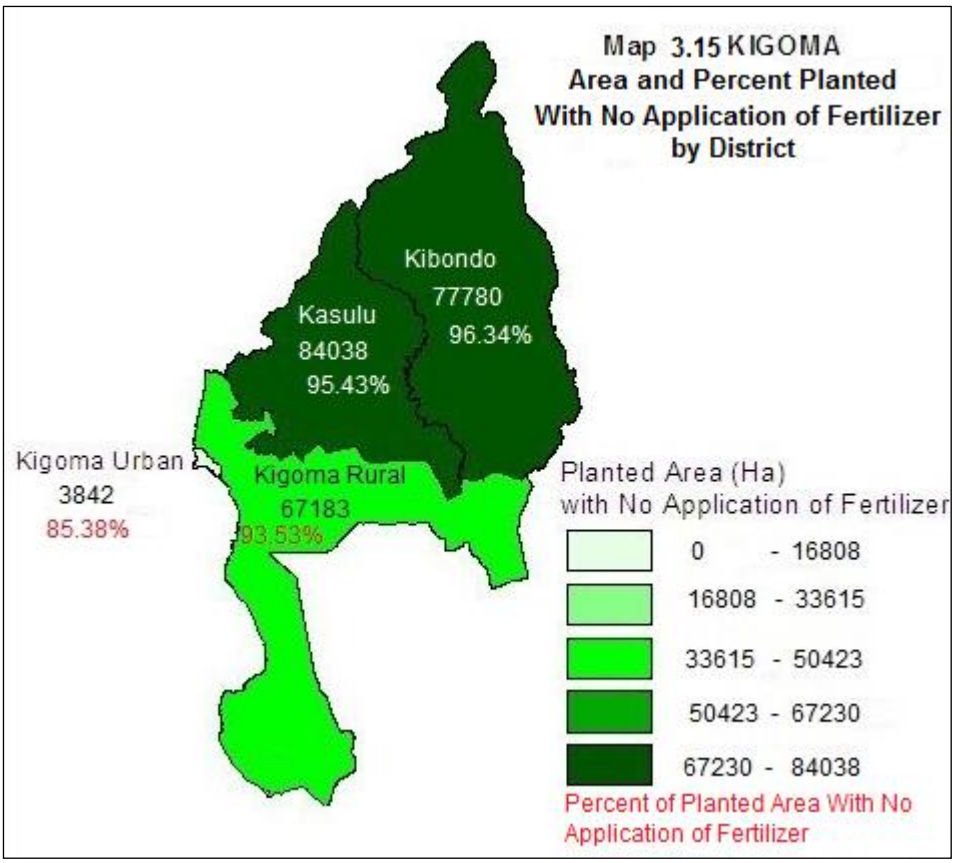
3.5.3.1 Organic Fertilizer Use

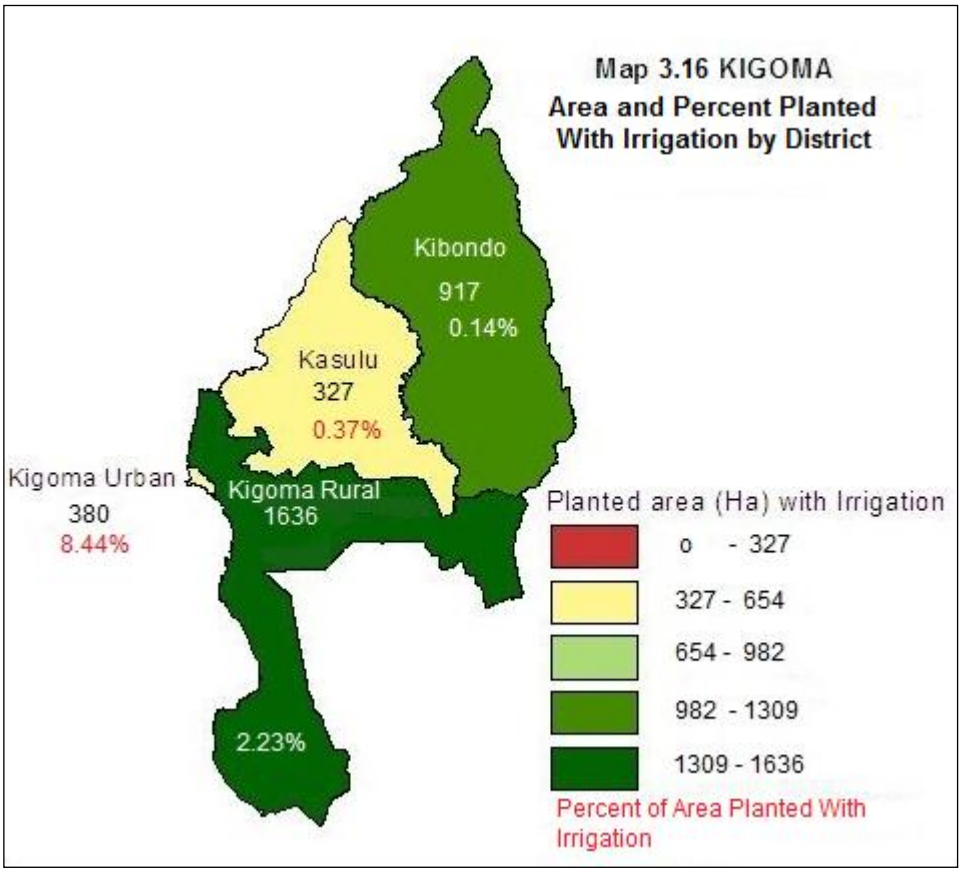
Organic fertilizer was applied to a total area of 3,776 hectares during both short and long rainy seasons. Kasulu region had the largest area (45.7% of the total area planted using organic fertilizer) followed by Kibondo (29.8%), Kigoma Rural (24.2%) and Kigoma Urban (0.2%). The number of households using organic fertilizer during both seasons was 9,819, representing 3.8% of the total households involved in the production of annual crops and vegetables

3.5.3.2 Inorganic Fertilizer Use



Inorganic fertilizer was applied to an area of 8,045 hectares during both short and long rainy seasons. It was mostly used in Kigoma Rural with 46.4% of the area planted using inorganic fertilizer followed by Kasulu (22.8%), Kibondo (22.7%) and Kigoma Urban (8.1). The number of households using inorganic fertilizer during the short rainy season was 14,828 representing 8.1% of the total households involved in the production of annual crops and vegetables during the season. Generally, in both seasons only a small area in Kigoma region (5%) of the total area planted with annual crops and vegetables was planted using fertilizer, (Chart 3.45).


Map 3.15 KIGOMA
Area and Percent Planted
With No Application of Fertilizer
by District
Kibondo
77780
96.34%
Kasulu
84038
95.43%
Kigoma Urban
3842
85.38%
Kigoma Rural
67183
93.53%
Planted Area (Ha)
with No Application of Fertilizer
0 - 16808
16808 - 33615
33615 - 50423
50423 - 67230
67230 - 84038
Percent of Planted Area With No
Application of Fertilizer


Map 3.16 KIGOMA
Area and Percent Planted
With Irrigation by District
Kibondo
917
0.14%
Kasulu
327
0.37%
Kigoma Urban
380
8.44%
Kigoma Rural
1636
2.23%
Planted area (Ha) with Irrigation
o - 327
327 - 654
654 - 982
982 - 1309
1309 - 1636
Percent of Area Planted With
Irrigation

3.5.4 Pesticide Use

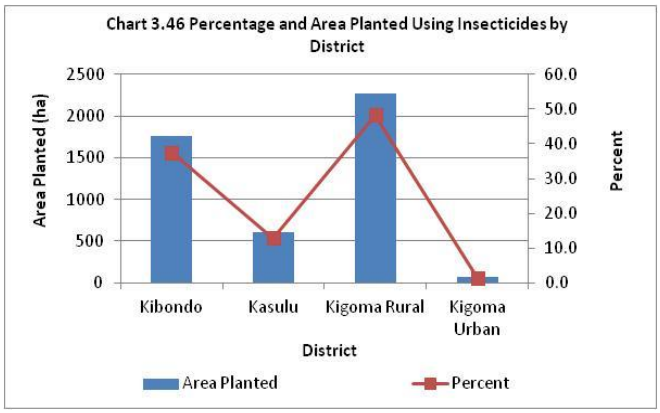
Pesticides are chemicals used for controlling insects, diseases and weeds. This section analyses the use of these chemicals by smallholders on both annual and permanent crops in the region. The pesticides discussed in this section include insecticides, herbicides and fungicides.

3.5.4.1 Insecticide Use

The planted area applied with insecticides in Kigoma region during short and long rainy seasons, was 4,700 hectares. The largest area (70.4%) was applied with insecticides during the short rainy season, while 29.6% of the area was applied with the insecticides during the long rainy season.

3.5.4.2 Herbicide Use

In Kigoma region, the number of households using herbicides during the short rainy season was 302, (0.2%) of the total households involved in the production of annual crops and vegetables. In the long rainy season, 146 households (0.2%) used the chemical on their crops. Chart 3.46 shows the percentage and area planted using insecticides by district.



The herbicides were used in a very small amount in the region. In both seasons, the planted area applied with herbicides in Kigoma region was only 45 hectares (0.02%) of the total area planted with annual crops and vegetables. The largest area (93.5% of the total area applied with the herbicides) was during the short rainy season while the remaining (6.5%) was during the long rainy season. Kigoma Urban had the highest proportion (51.1%) of the area planted with herbicides, followed by Kibondo (42.2%) and Kigoma Rural (6.7%) The herbicides were mainly used during the short rainy season. Herbicides were not used in Kasulu district

3.5.4.3 Fungicides Use

During short and long rainy seasons, the planted area applied with fungicides in Kigoma region was 1,155 hectares. An area of 995 hectares was applied with fungicides during the short rainy season, while 160 hectares were applied with fungicides during the long rainy season (all in Kigoma Rural district). Kigoma Rural had the highest proportion (75.7%) of the area planted with fungicides followed by Kibondo (16.4%), Kigoma Urban (6.1%) and Kasulu (1.8%). Fungicides were used in

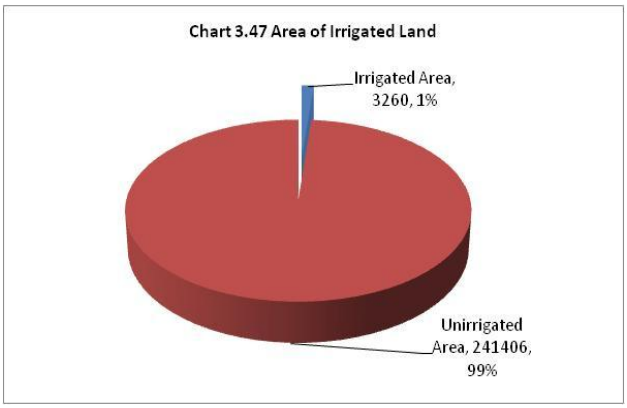
Kasulu on a very small area of 21 hectares during short rainy season. The number of households using fungicides during the short rainy season was 2,768 (1.5% of the total households involved in the production of annual crops and vegetables during the short rainy season. In the short rainy season, Kigoma Rural had the majority of households (1,462 h, 0.8 % of the total households growing crops during the short rainy season) using fungicides followed by Kibondo (747, 0.4%), Kigoma Urban (347, 0.2%) and Kasulu 212, 0.1) In the long rainy season, 1,023 households (1.3%) used fungicides on their crops.

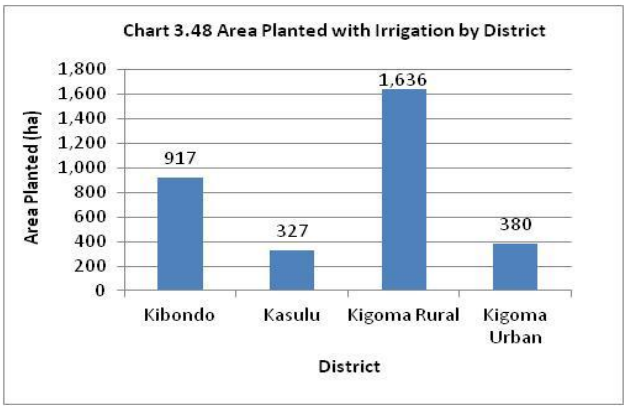
3.6 Irrigation

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 yield. 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

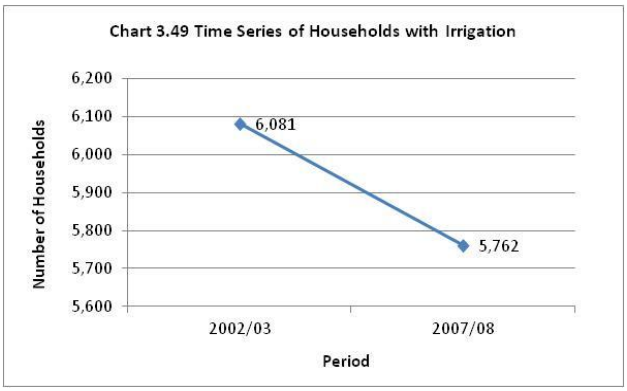
In Kigoma region, the area of annual crops under irrigation was 3,260 hectares, representing 1.3% of the total area planted with annual crops, (Chart 3.47). The irrigated area has decreased by 58 percent as compared to 2003 agriculture sample census. The area under irrigation during the short rainy season was 3,065 hectares accounting for 94.0 percent of the total area under irrigation. In the long rainy season, 0.2 percent of the total area planted with crops was irrigated.





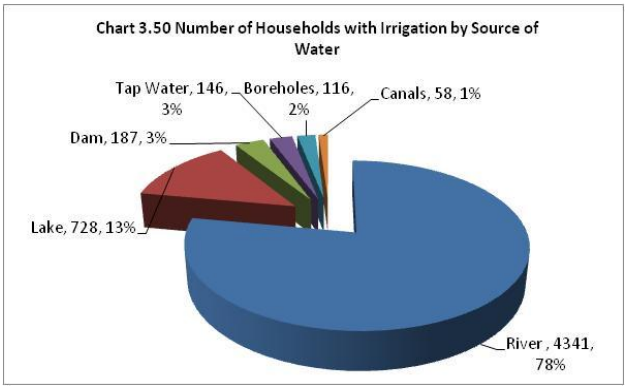
The district with the largest planted area under irrigation for annual crops was Kigoma Rural (1,636 hectares, 50% of the total irrigated planted area with annual crops in the region). This was followed by Kibondo with (917 hectares, 28%), Kigoma Urban (380 hectares, 12%) and Kasulu (327 hectares, 10%), (Chart 3.48).

The number of households with planted area under irrigation has decreased over the five year period from 6,081 households in 2002/03 to 5,762 households in 2007/08, (Chart 3.49).



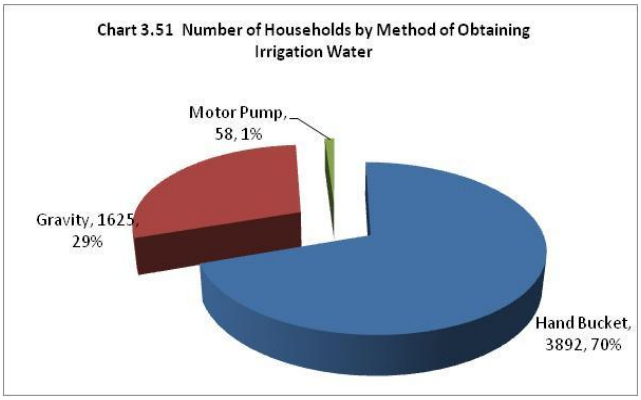
3.6.2 Sources of Water Used for Irrigation

The main source of water used for irrigation was the river (4,341 households, 78% of households with irrigation). This was followed by lake (728 households, 13%), dam (187 households, 3%), tap water (146 households, 3%), boreholes (116 households 2%) and canals (58 households, 1%), (Chart 3.50).

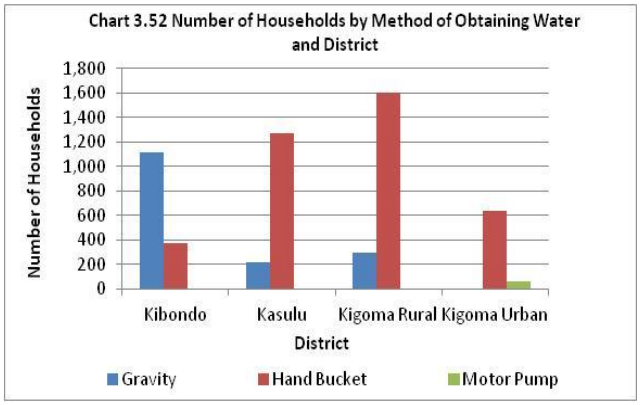


3.6.3 Methods of Obtaining Water for Irrigation

The most common method of getting water for irrigation was the hand bucket with 70 percent of households using this method. This was followed by gravity with 29 percent of households, and motor pump had 1 percent. The remaining methods (hand pump and others) were not used, (Chart 3.51).



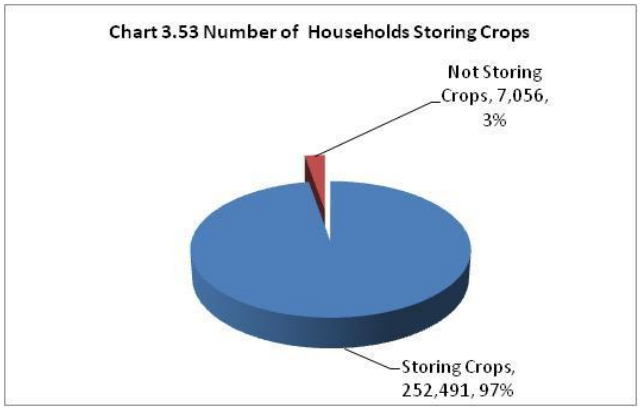
The hand bucket was used most in Kigoma Rural (1,608, 41.3% of the households practicing irrigation) followed by Kasulu (1,274, 32.7%), Kigoma Urban (637, 16.4%) and Kibondo (373, 9.6%). Gravity was more common in Kibondo with 68.9 percent of households using the method to obtain water for irrigation, followed by Kigoma Rural (18.0%) and Kasulu (13.1%). The method was not practiced in Kigoma Urban, (Chart 3.52).



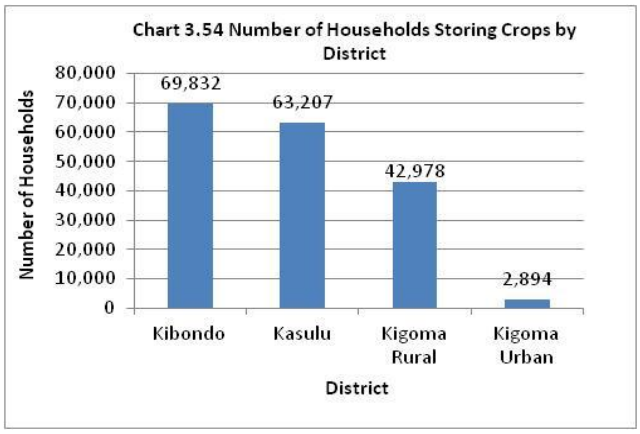
3.7 Crop Storage, Processing and Marketing

3.7.1 Crop Storage

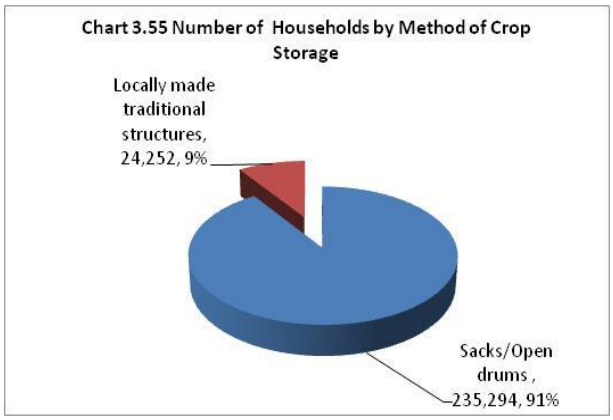
Crop storage means keeping a crop for a certain period of time as food for the household, in order to sell at higher prices or as seed for planting in the following season. The results for Kigoma region show that during the short and long rainy seasons, about 97% of the households stored their crops, (Chart 3.53).



During the short rainy season, Kibondo was leading with 69,832 (39%) of the households storing crops followed by Kasulu 63,207 (35%), and Kigoma Rural 42,978 (24%). Kigoma Urban had the least number 2,894 (2%) of the households storing crops (Chart 3.54). The number of households that stored their crops in 2008 has increased by 35 percent compared to agriculture census results of 2003.

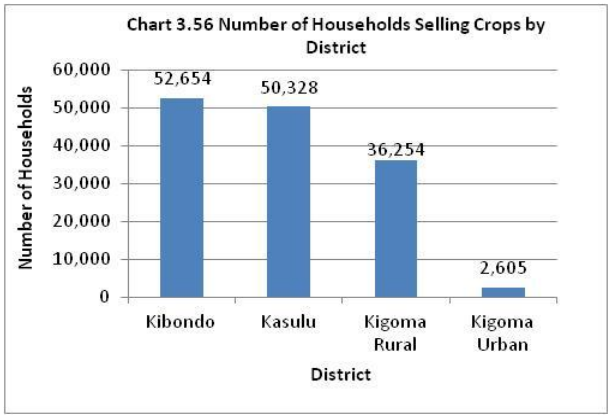


3.7.1.1 Methods of Storage



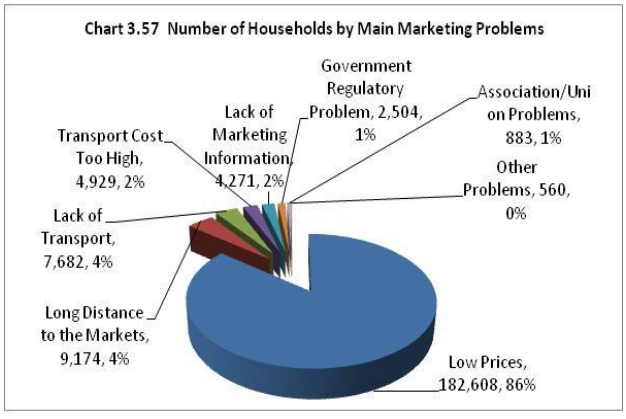
In terms of methods of crop storage, the region had two major methods of crop storage. The first method was sacks /open drums (235,294 households, 91% of the total agricultural households). The second method was locally made traditional structures (24,252 households, 9%), (Chart 3.55). Other methods of crop storage like airtight drums, unprotected pile and modern stores were insignificantly used accounting for less than one percent all together.

3.7.2 Crop Marketing



The number of households that reported selling crops was 141,841 which represented 63% of the total number of agricultural households in the region. The percent of crop growing households selling crops was highest in Kibondo 52,654 (37%) followed by Kasulu 50,328 (35%), Kigoma Rural 36,254 (26%) and Kigoma Urban 2,605 (2%), (Chart 3.56).

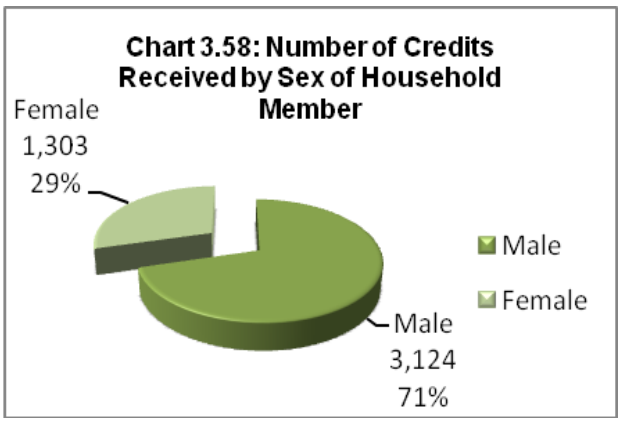
3.7.2.1 Main Marketing Problems



In the region, most households (182,608, 85.6%) reported low prices for agricultural produce in the open market as the main marketing problem. Apart from low market prices, other problems reported include long distances to the markets (9,174, 4.3%), lack of transport (7,682, 3.6%), transport costs too high (4,929, 2.3%), lack of marketing information (4,271, 2.0%), government regulatory problems (2,504, 1.2%), association or union problems (883, 0.3%) and other problems (560, 0.3%). (Chart 3.57). The problem of low market prices in the open market ranked highly across all the districts in the region. High transport costs ranked high in Kigoma Rural followed by Kasulu.

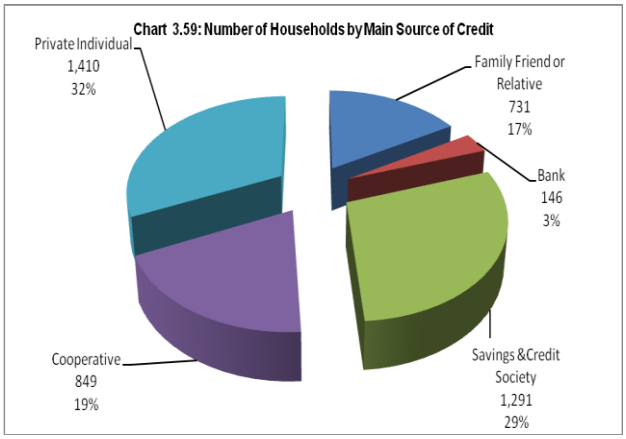
3.8 Access to Agricultural Credit

The census results show that in Kigoma region, a total number of 4,427 agricultural household members accessed credit, out of which 3,124 (71%) were males and 1,303 (29%) were females (Chart 3.58). The district with the highest number of households that accessed credit was Kasulu (38.4%), followed by Kigoma Rural (36.3%) and Kibondo (25.3%).



3.8.1 Source of Agricultural Credit

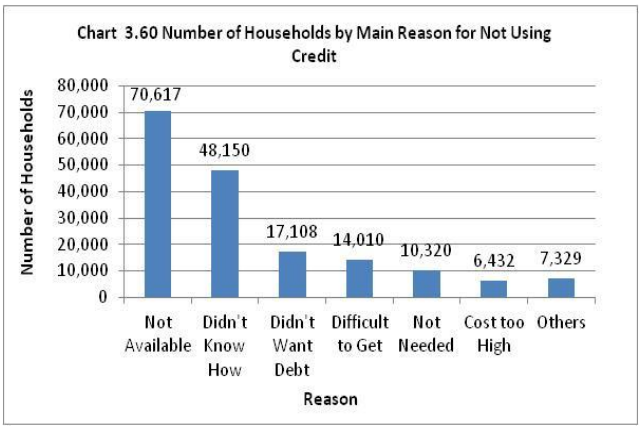
The major agricultural credit provider in Kigoma region was private individuals which provided credit to (32% of the total number of households that accessed credit), followed by savings and credit society (29%), cooperatives (19%), family friends or relatives (17%) and bank (3%), (Chart3.59).



3.8.2 Reasons for Not Using Agricultural Credit

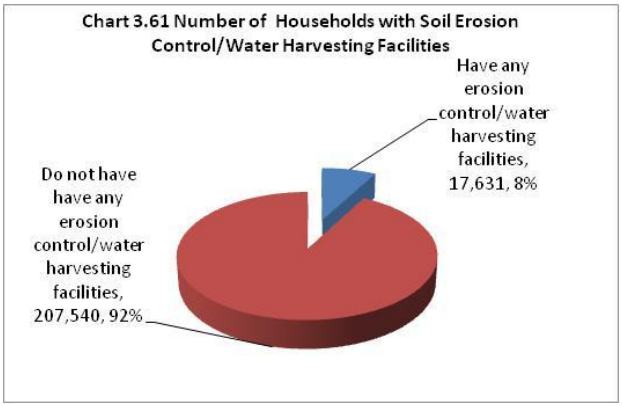
The main reason for not using agricultural credit was its non availability accounting for 32 percent of the households that didi not access credit, 70,617 households, (Chart 3.60).

Kibondo district had the largest number (7,095 households, 50.6%) of households reporting bureaucratic procedures as the major reasons for obtaining agricultural credits followed by Kigoma Rural (4,386, 31.3%), Kasulu (2,124, 15.2%) and Kigoma Urban (405, 2.0%).

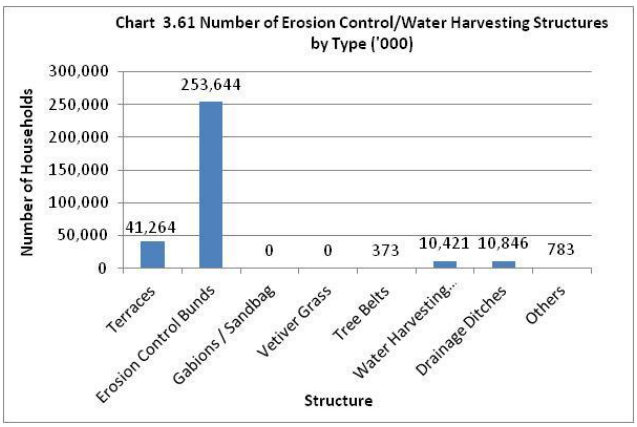


3.9 Irrigation and Erosion Control Facilities

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.



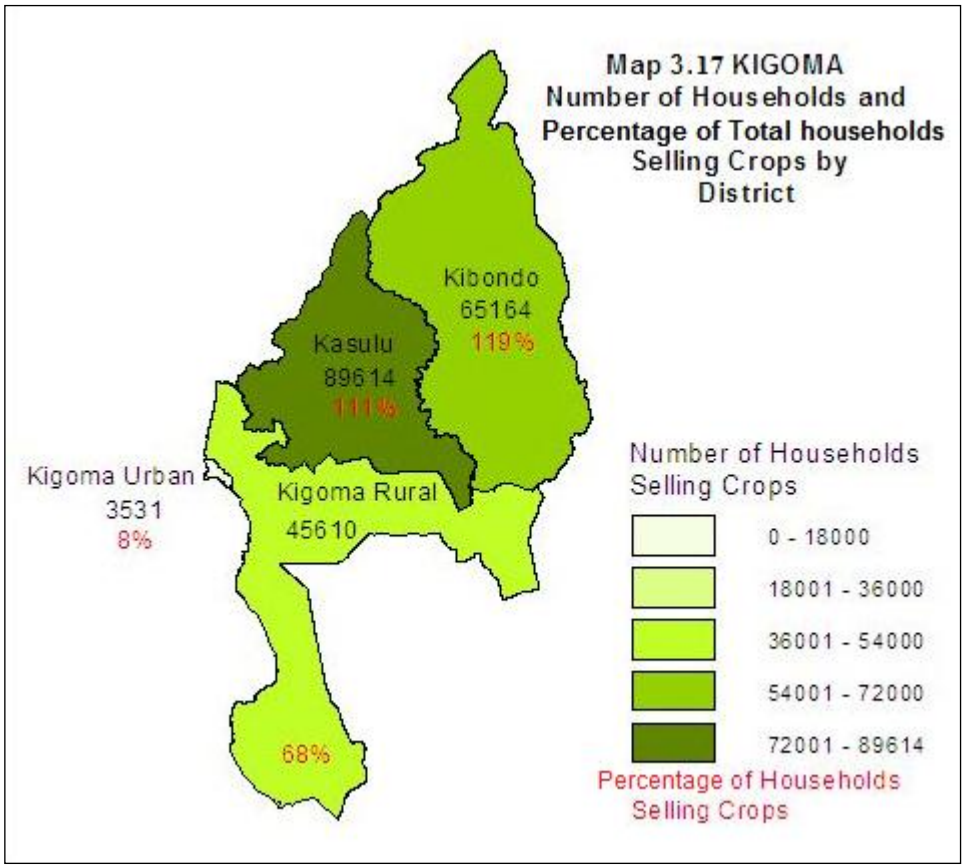
The number of agricultural households that had soil erosion and water harvesting facilities on their farms was 17,631 which represent 8 percent of the total number of agricultural households in the region. On the other hand, those without erosion control and water harvesting facilities were 207,540, accounting for 92 percent of the total agricultural households in the region. This percent was more than eleven times the agricultural households with the facilities, which increases the chances of high waterwastage, (Chart 3.61).

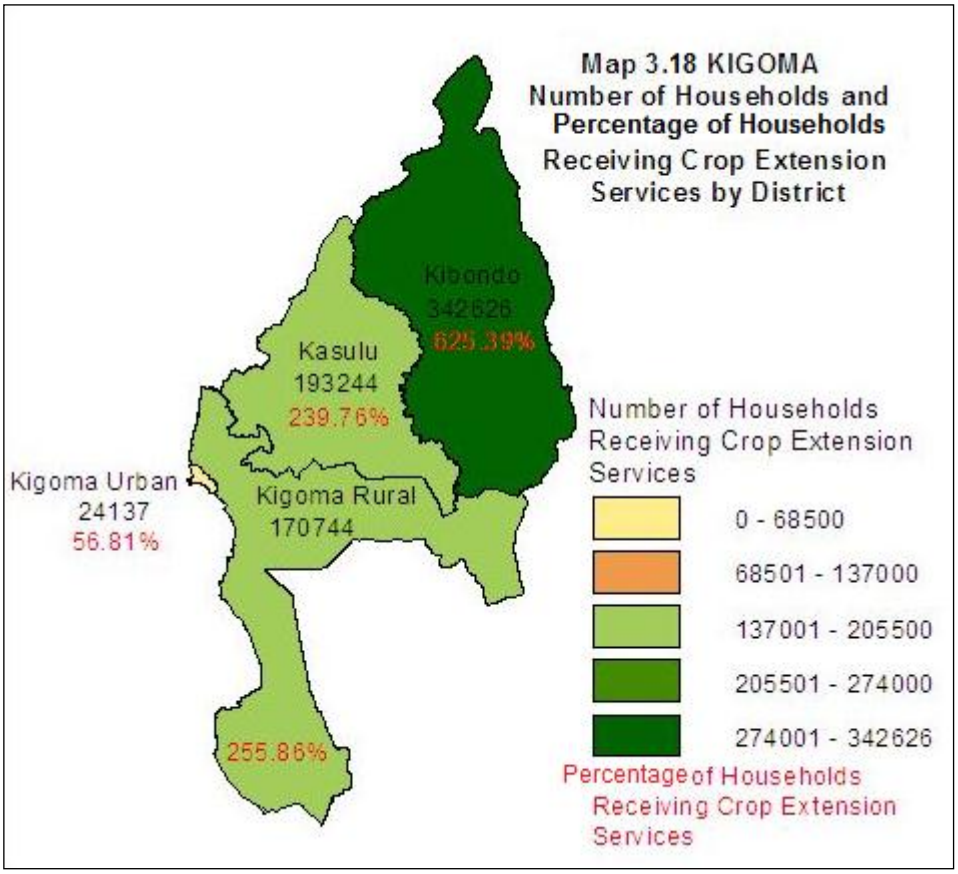


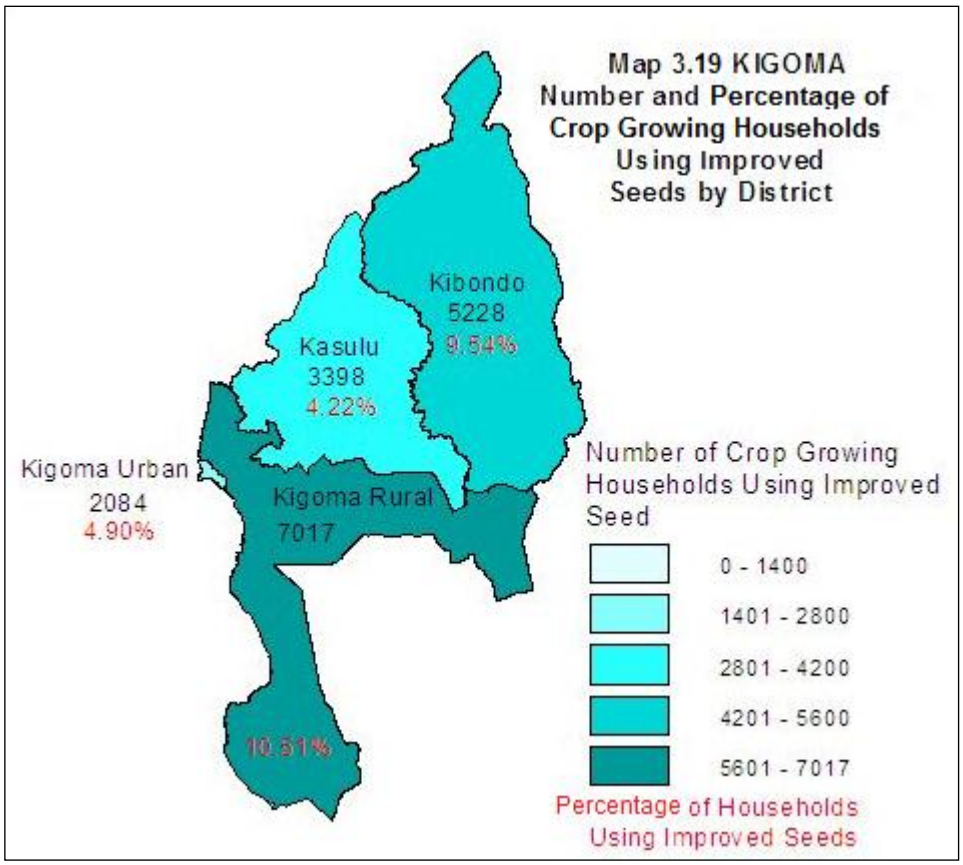
The number of households that reported to have the facilities has decreased by 9 percent to that of agriculture census results of 2003, implying an annual growth rate of -1.8% on average. The proportion of farmers with soil erosion control and water harvesting facilities was highest in Kibondo (10.1%) followed by Kigoma Urban (8.0%), Kigoma Rural (7.7%) and Kasulu (5.9%).

Erosion control bunds accounted for 79.9 percent of the total number of structures, followed by terraces (13.0%), drainage ditches (3.4%) andwater harvesting bunds (3.3%), (Chart 3.62). Other water harvesting facilities accounted for 0.4 percent of the total number of structures.

Erosion control bunds, terraces, drainage ditches and water harvesting bunds together had 316,174 structures. This represented 99.6% percent of the total structures in the region. Kigoma Rural districts had 160,511 erosion control structures (51 percent of the total number of erosion control and water harvesting structures in the district) followed by Kibondo with 125,847, representing 40% of the structures in the district.


Map 3.17 KIGOMA
Number of Households and
Percentage of Total households
Selling Crops by
District
Kibondo
65164
119%
Kasulu
89614
111%
Kigoma Urban
3531
8%
Kigoma Rural
45610
68%
Number of Households
Selling Crops
0 - 18000
18001 - 36000
36001 - 54000
54001 - 72000
72001 - 89614
Percentage of Households
Selling Crops


Map 3.18 KIGOMA
Number of Households and
Percentage of Households
Receiving Crop Extension
Services by District
Kibondo
342626
625.39%
Kasulu
193244
239.76%
Kigoma Urban
24137
56.81%
Kigoma Rural
170744
255.86%
Number of Households
Receiving Crop Extension
Services
0 - 68500
68501 - 137000
137001 - 205500
205501 - 274000
274001 - 342626
Percentage of Households
Receiving Crop Extension
Services


Map 3.19 KIGOMA
Number and Percentage of
Crop Growing Households
Using Improved
Seeds by District
Kibondo
5228
9.54%
Kasulu
3398
4.22%
Kigoma Urban
2084
4.90%
Kigoma Rural
7017
10.51%
Number of Crop Growing
Households Using Improved
Seed
0 - 1400
1401 - 2800
2801 - 4200
4201 - 5600
5601 - 7017
Percentage of Households
Using Improved Seeds

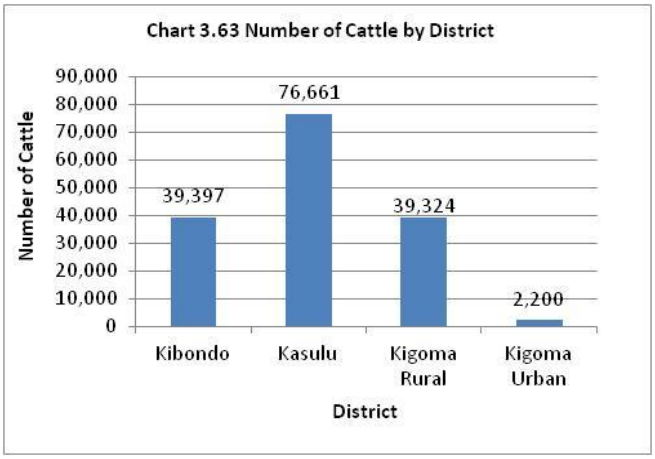
3.10 Livestock Results

3.10.1 Cattle Production

The total number of cattle in the region was 157,581. Cattle were the dominant livestock type in the region followed by goats, sheep and pigs. The region had 2.5 percent of the total cattle population on Tanzania Mainland. Number of cattle in the region has decreased by 62.7percent.

Cattle Population

The number of indigenous cattle in Kigoma region was 154,000 (97.7 % of the total number of cattle in the region). The census results show that there were 19,552 indigenous cattle rearing households in the region (94.2% of the total households keeping cattle). On the average there were 8 heads of indigenous cattle per cattle keeping-household. The district with the largest number of cattle was Kasulu (76,661 cattle, 49% of the total cattle in the region). This was followed by Kibondo 39,397 (25%), Kigoma Rural 39,324 (25%) and Kigoma Urban 2,200 (1%), (Chart 3.63).



Cattle Herd Size

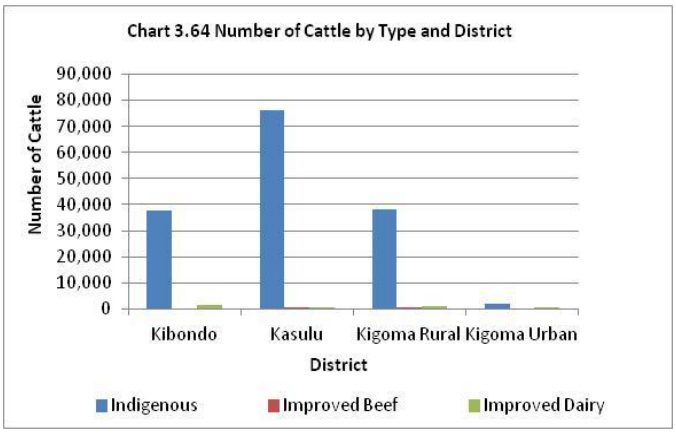
Seventy one percent of the cattle-rearing households had herds of size 1-5 cattle with an average of three cattle per household. Households with herds of size of 6-30 accounted for about 24.5 percent of all cattle rearing households in the region. Those with the herds size of 51- 60 accounted for 2.7 percent of households while those with herds of size 61-100 constituted about 0.7 percent with an average of 85 cattle per household. The remaing households with herds of size above 100 heads of cattle accounted for 1.1 percent of cattle rearing households, (Table 3.11).

Table 3.11: Number of Households rearing cattle, Number of Cattle and Average Herd per Household by Herd size

Herd size	Cattle Rearing Households	%	Herd of Cattle	Average Per Houseold
1 - 5	14,413	71.06	43,613	3.03
6 - 10	3,544	17.47	26,528	7.49
11 - 15	1,091	5.38	14,404	13.21
16 - 20	146	0.72	2,631	18
21 - 30	187	0.92	4,855	26
51 - 60	545	2.69	30,614	56.15
61 -100	146	0.72	12,426	85
101 -150	212	1.05	22,510	106
Total	**20,284**	**100**	**157,581**	**8**

Cattle Breeds

In Kigoma region, improved cattle were 3,582 which constitute 2.3% of total cattle in Kigoma region, out of which 505 were for beef breed and 3,077 were for dairy breed. The dairy cattle constituted 85.9 percent and the beef cattle 14.1 percent of the improved cattle in the region. Chart 3.64 shows the number of cattle by type and district of which indigenous type found to be the dominant breed kept in the region.



Cattle Population Trend

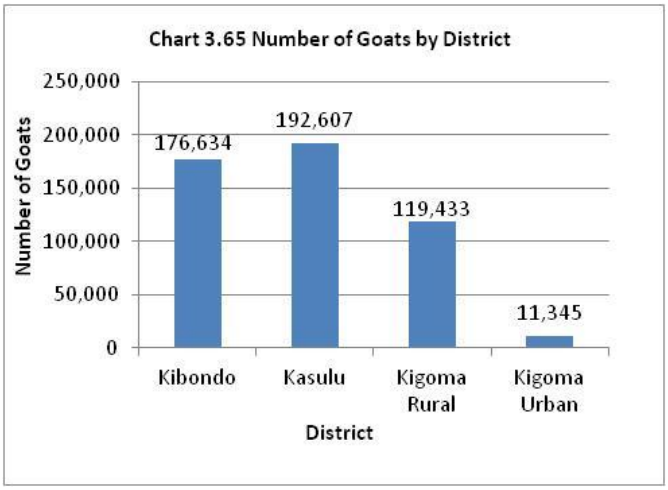
Cattle population in Kigoma region decreased sharply during the period of five years from 422,361 cattle in 2003 to 157,581 cattle in 2008. This trend depicts an overall annual negative growth rate of 13 percent.

3.10.2 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, Kigoma region ranked 9 out of the 21 regions with 3.3 percent of all total goats on the Mainland.

Goat Population

Goat-rearing-households in Kigoma was 101,578 (45%) of all agricultural households in the region) with a total of 500,019 goats giving an average of 5 head of goats per goat-rearing-household. Kasulu had the largest number of goats (38.5% of all goats in the region), followed by Kibondo (35.3%), Kigoma Rural (23.9%) and KigomaUrban (2.3%) of total goat population in the region, (Chart 3.65)



Goat Flock Size

Seventy nine percent of the goat-rearing households had flocks of 1-4 goats with an average of 2 goats per goat rearing household. Ninety nine percent of total goat-rearing households had flocks of 1-14 goats and owned 93 percent of the total goats in the region and had an average of 4 goats per goat-rearing households. Flocks size 15-40+ were owned by 0.6 percent of goat rearing households, (Table 3.12)

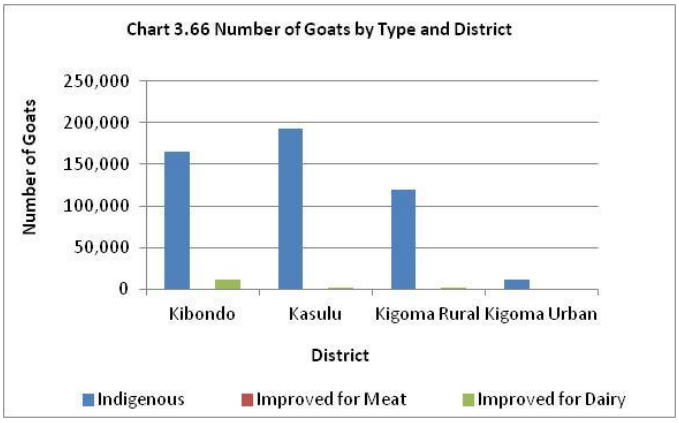
Table 3.12: Number of Households Rearing Goats, Number of Goats and Average Flock per Household by Flock Size

Flock Size	Goat Rearing Households	%	Herd of Goat	Average Per Household
1 - 4	192,475	91	351,664	2
5 - 9	15,034	7	91,968	6
10 - 14	2,170	1	23,742	11
15 - 19	571	0	9,148	16
25 - 29	520	0	10,766	21
40+	245	0	12,730	52
Total	**211,013**	**100**	**500,019**	**2**

Goat Breeds

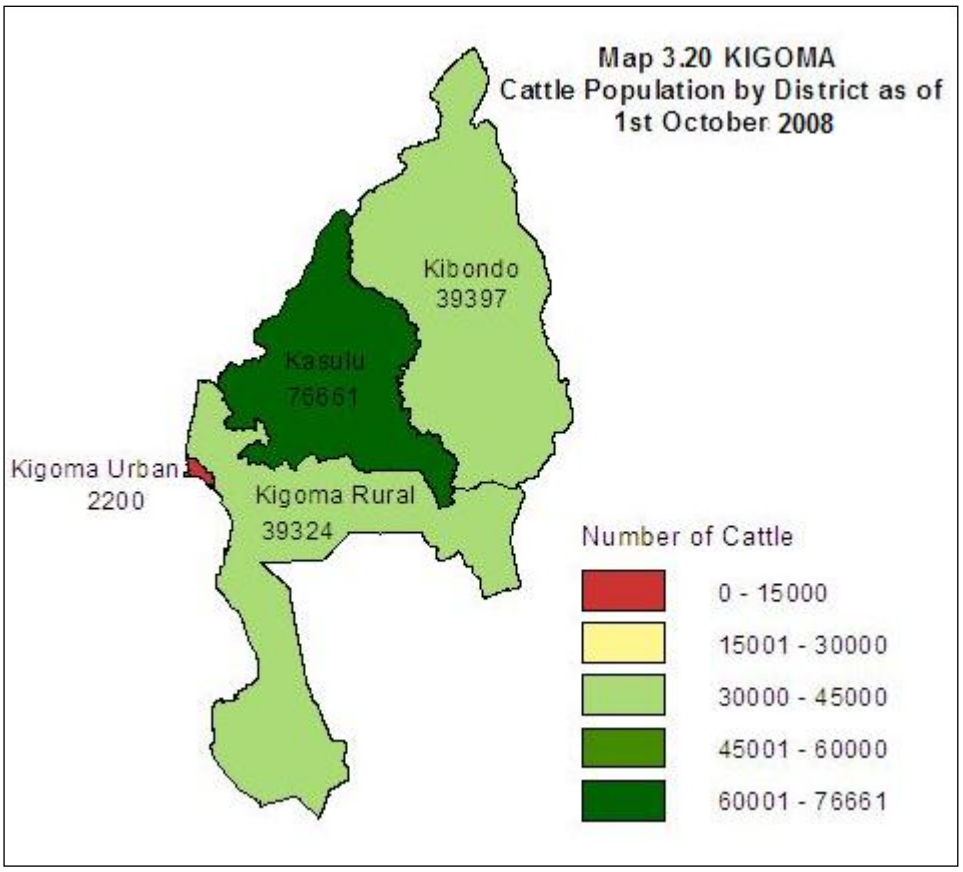
The region was dominated by the indigenous breeds that constituted about 97.6 percent of the total goats in Kigoma region (500,019 goats). Improved goats for beef and diary constituted of 0.0 and 2.4 percent of total goats respectively. Census results indicate that Kasulu is the leading district with 192,395 indigenous goats, followed by Kibondo (165,431) and Kigoma Rural (118,994) and

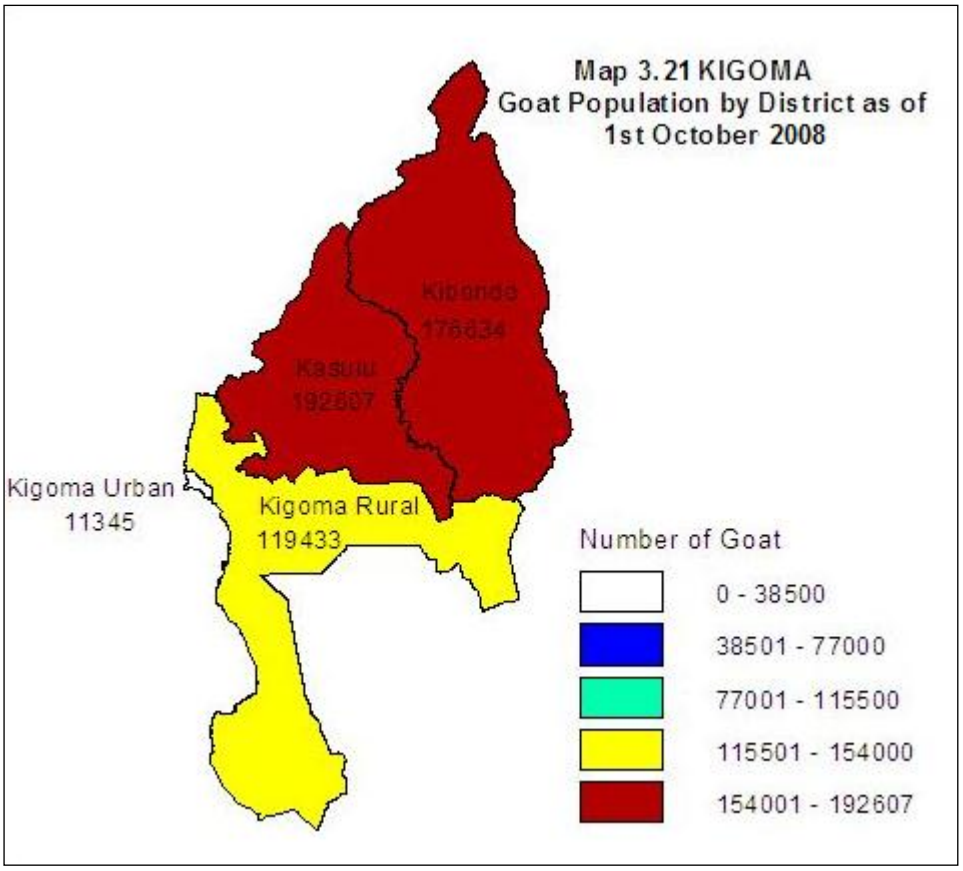
Kigoma Urban (11,345). All districts reported no improved meat goats, while Kibondo was leading with 11,203 improved diary goats, (Chart 3.66).



Goat Population Trend

The overall annual growth rate of goat population from 2003 to 2008 was 3.5 percent. This positive trend implies five years of population increased from 425,604 in 2003 to 500,019 in 2008.


Map 3.20 KIGOMA
Cattle Population by District as of
1st October 2008
Kibondo
39397
Kasulu
76661
Kigoma Urban
2200
Kigoma Rural
39324
Number of Cattle
0 - 15000
15001 - 30000
30000 - 45000
45001 - 60000
60001 - 76661

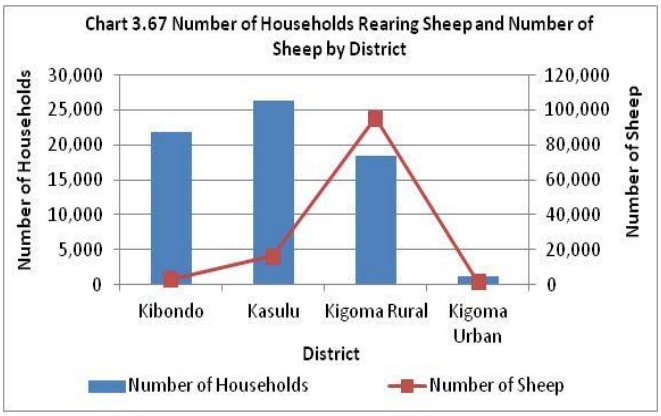

Map 3.21 KIGOMA
Goat Population by District as of
1st October 2008
Kibondo
176634
Kasulu
192607
Kigoma Urban
11345
Kigoma Rural
119433
Number of Goat
0 - 38500
38501 - 77000
77001 - 115500
115501 - 154000
154001 - 192607

3.10.3 Sheep Production

Sheep rearing was the third important livestock keeping activity in Kigoma region after cattle and goats. The region ranked 11th out of 21 Mainland regions and had 2.0 percent of all sheep on Tanzania Mainland.

Sheep Population

The number of sheep-rearing households was 67,755 (30% of all agricultural households in Kigoma region) rearing 116,534 sheep, giving an average of 2 heads of sheep per sheep-rearing household. The district with the largest number of sheep was Kigoma Rural with 95,459 sheep (81.9% of total sheep in Kigoma region), followed by Kasulu (16,351 sheep, 14.0%), Kibondo (2,987 sheep, 2.6%), and Kigoma Urban (1,736 sheep, 1.5%). Sheep rearing was dominated by indigenous breeds that constituted 100 percent of all sheep kept in the region. No improved breeds were reported, (Chart 3.67).



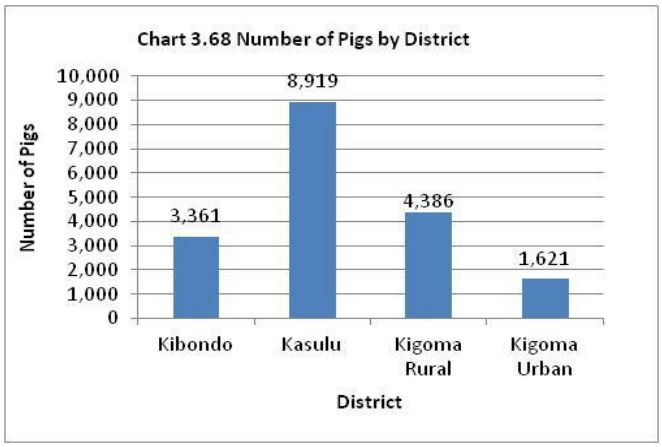
Sheep Population Trend

The overall annual growth rate of the sheep population for the five year period from 2003 to 2008 is estimated at 25 percent. During that period, sheep population increased from 51,805 sheep in 2003 to 116,534 in 2008.

3.10.4 Pig Production

Pig Population

The number of pig-rearing agricultural households in Kigoma region was 6,022 (3% of the total agricultural households in the region) rearing 18,286 pigs. This gives an average of 3 pigs per pig-rearing household. The district with the largest number of pigs was Kasulu with 8,919 pigs (48.8% of the total pig population in the



region) followed by Kigoma Rural (4,386 pigs, 24.0%), Kibondo (3,361 pigs, 18.4%), and Kigoma Urban (1,621 pigs, 8.9%), (Chart 3.68).

Pig Population Trend

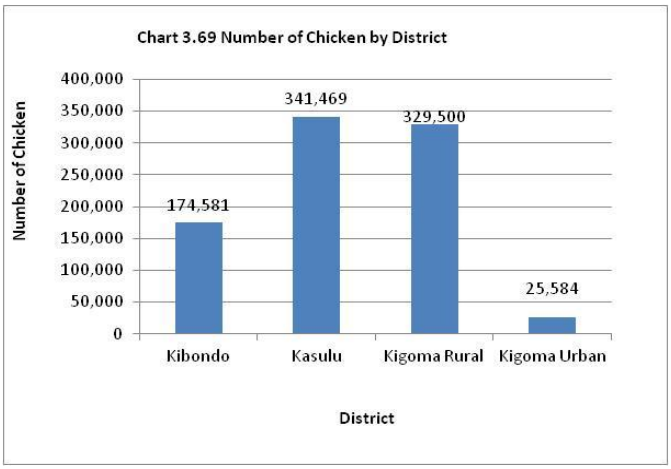
The overall annual growth rate of the pig population for the five year period from 2003 to 2008 was -4.6 percent. During this period the population decreased from 23,698 pigs in 2003 to 18,286 in 2008.

3.10.5 Chicken Production

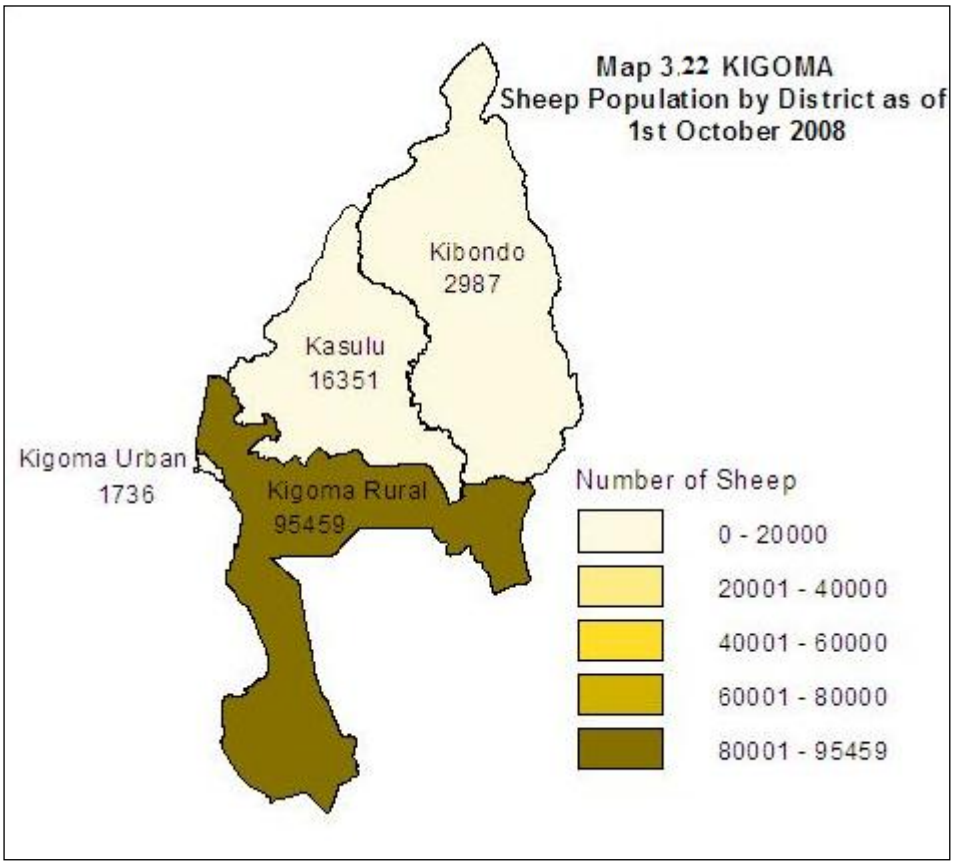
The poultry sector in Kigoma region was dominated by chicken production. The region contributed 2.04 percent to the total chicken population of Tanzania Mainland.

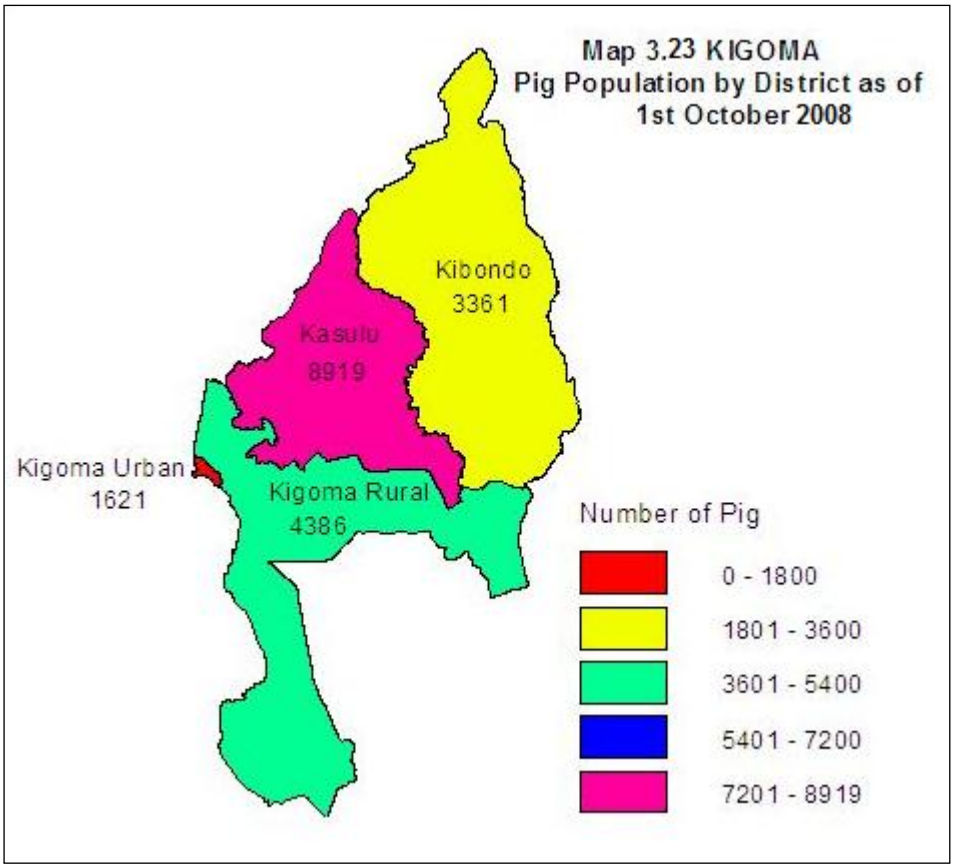
Chicken Population

The number of households keeping chicken was 98,487 raising about 871,134 chickens. This gives an average of 9 chickens per chicken-rearing household. In terms of total number of chickens in the country, Out of the total chicken raised in the region 794,116 were indigenous chicken, accounting for 91.2% and 77,018 were improved chicken accounting for 8.8%.



Kasulu district had the largest number of chicken raised in the region (341,469 chicken, 39.2%), followed by Kigoma Rural (329,500 chicken, 37.8%) and Kibondo (174,581 chicken, 20.0%). Kigoma Urban reported the smallest number of chicken raised in the region (25,584) accounting only 2.9 percent of all the chicken raised in the region, (Chart 3.69).


Map 3.22 KIGOMA
Sheep Population by District as of
1st October 2008
Kibondo
2987
Kasulu
16351
Kigoma Urban
1736
Kigoma Rural
95459
Number of Sheep
0 - 20000
20001 - 40000
40001 - 60000
60001 - 80000
80001 - 95459

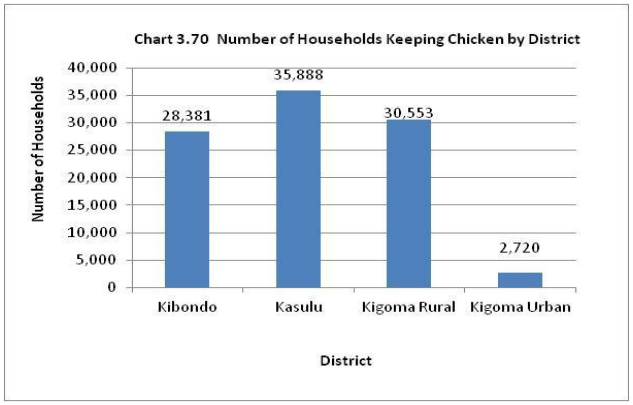

Map 3.23 KIGOMA
Pig Population by District as of
1st October 2008
Kibondo
3361
Kasulu
8919
Kigoma Urban
1621
Kigoma Rural
4386
Number of Pig
0 - 1800
1801 - 3600
3601 - 5400
5401 - 7200
7201 - 8919

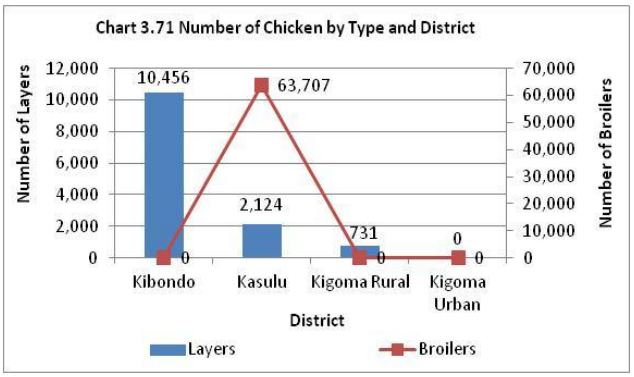
Chicken Population Trend

The overall annual growth rate during the five-year period from 2003 to 2008 was 1.8 percent. Ninety one percent of all chicken in Kigoma region were of indigenous breed.

Chicken Flock Size

Indigenous chicken were the dominant type of chicken in Kigoma region. The census results indicate that about 97.7 percent of all the chicken-rearing households were keeping 1-49 indigenous chicken with an average of 8 chicken per household. About 1.4 percent of households were reported to keep the flock size of 50-99 indigenous chicken with an average of 52 chicken per household, (Chart 3.70).





On the other hand, improved chicken of flock sizes 1-49 chickens were kept by 732 households. The chicken kept were layers 13,311 (2% of all chickens in the region) giving an average of 18 layers per household.

Table 3.13: Number of Households Keeping Improved Chicken and Average Number of Chicken per Household by Flock Size as of 1st October 2008

	Layers				Broilers	
Heard Size	Number of Households	Number of Layers	%	Number of Layers Per Household	Number of Households	%
1-49	732	13,311	2	18	0	0
50-99	0	0	0	0	0	0
100-299	0	0	0	0	0	0
300-499	0	0	0	0	212	100
Total	**732**	**13,311**	**2**	**18**	**212**	**7**

Improved Chicken (Layers and Broilers)

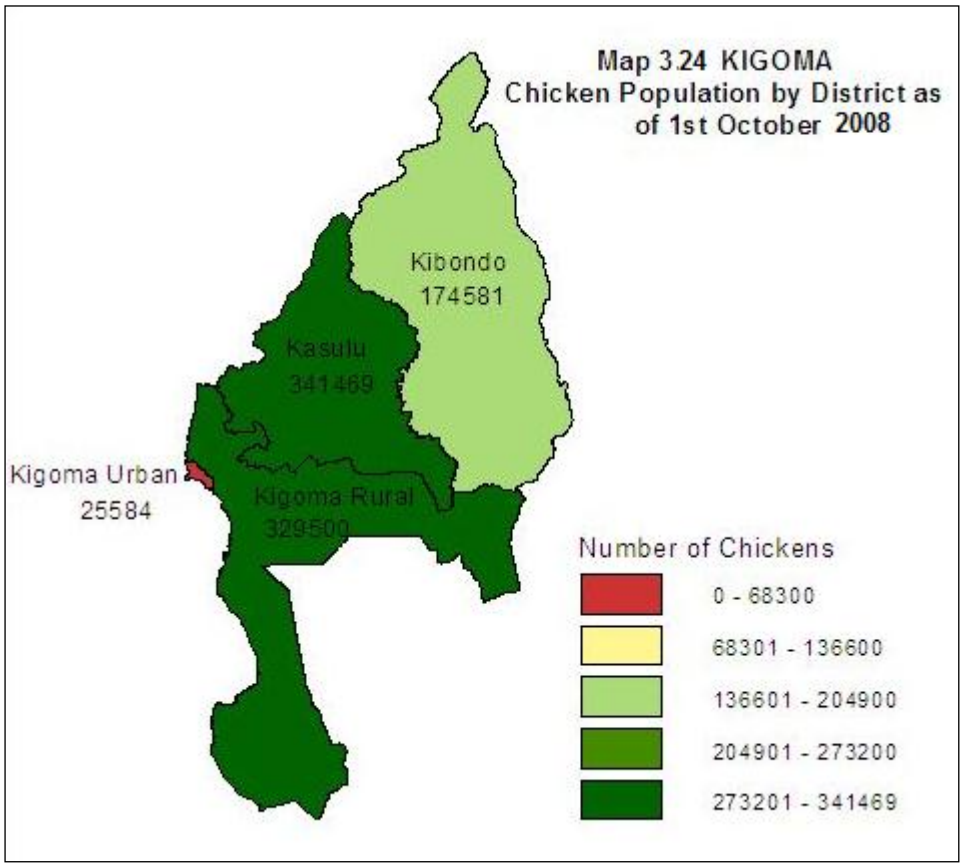
Layers and Broilers were mostly kept in Kibondo and Kasulu districts. Kibondo had the largest number of layers(14% of total number of improved chicken in the region) while Kasulu had the largest number of broilers (83% of the total number of improved chicken in the region). Broilers were reported only in Kasulu district, while layers were reported in Kibondo (13.6%), Kasulu (2.8%) and Kigoma Rural (0.9% of the total improved chicken kept inthe region). There were no improved chicken reported in Kigoma Urban.

3.10.6 Other livestock

The census results indicate that there were 59,786 ducks, 292 Guinea pigs, 637 rabbits and 3,573 dogs raised by rural agricultural households in Kigoma region. Horses, Turkeys and Donkeys were not reported in Kigoma during the period. The biggest number of ducks in the region were in Kigoma Rural district (45,171), followed by Kibondo (13,630), Kasulu (637), and Kigoma Urban (347). Guinea pigs were only reported in Kigoma Rural, while Rabbits were reported only in Kasulu (Table 3.14).

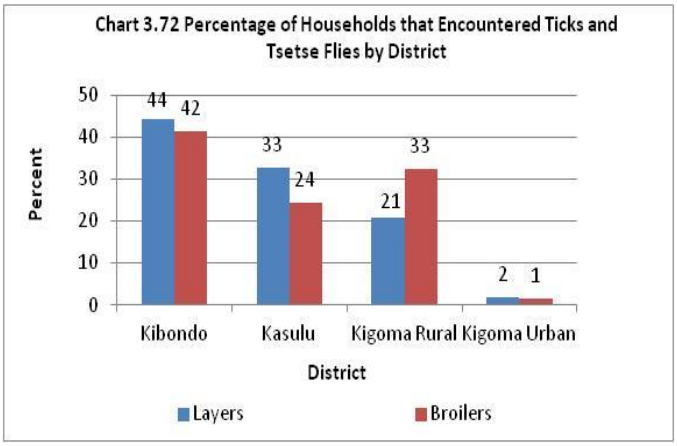
Table 3.14: Number of Other Livestock by Type of Livestock and District as on 1st October 2008

District	Ducks	Guinea pigs	Turkeys	Rabbits	Donkeys	Horses	Dogs
Kibondo	13,630	0	0	0	0	0	373
Kasulu	637	0	0	637	0	0	2,761
Kigoma Rural	45,171	292	0	0	0	0	439
Kigoma Urban	347	0	0	0	0	0	0
Total	59,786	292	0	637	0	0	3,573


Map 3.24 KIGOMA
Chicken Population by District as of 1st October 2008
Kibondo
174581
Kasulu
341469
Kigoma Urban
25584
Kigoma Rural
329500
Number of Chickens
0 - 68300
68301 - 136600
136601 - 204900
204901 - 273200
273201 - 341469

3.10.7 Pests and Parasites Incidences and Control

The results indicate that 26.5 percent and 5.4 percent of the total livestock-keeping households reported to have encountered ticks and tsetse fly problems respectively. Chart 3.72 shows that there is a predominance of tick related diseases over tsetse related diseases. Incidences of both problems were highest in Kibondo and Kasulu districts but lowest in Kigoma Urban distric.

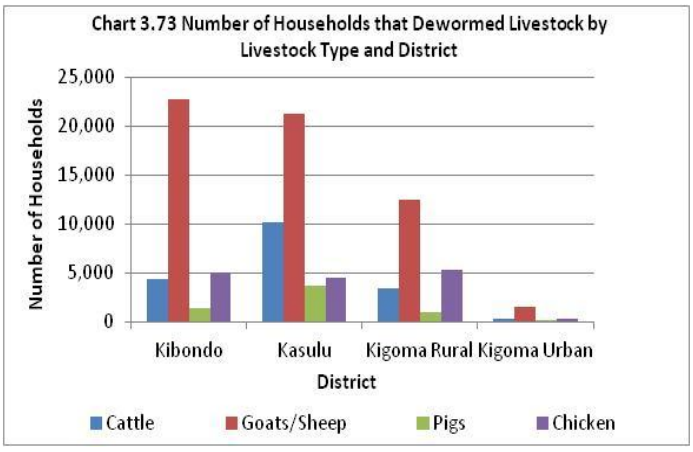


The most practiced method of controlling ticks was spraying with 26 percent of all livestock-rearing households in the region. Other methods used were dipping (9%), smearing (6%) and other traditional methods like hand picking (1%). However, 58 percent of livestock-keeping households did not use any of the tick control methods.

The most common method used to control tsetse flies was spraying which was practiced by 9 percent of livestock-rearing households trapping (6%) and dipping (4%). However, 82 percent of the livestock rearing households did not use any of the aforementioned methods.

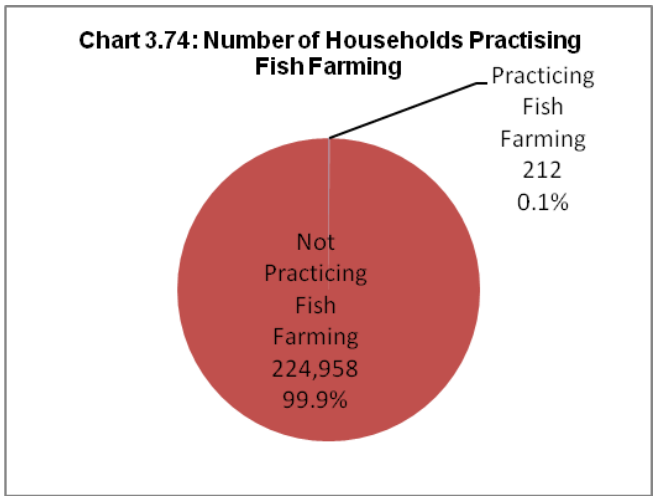
3.10.7.1 Deworming

About 62 percent of the total livestock rearing households in Kigoma dewormed all the types of their animals in the region. The number and percent of the households that dewormed cattle was 18,139 (11,6%), sheep/goats 57,888 (37.0%), pigs 6,056 (3.9%), and chicken15,111 (9.6%). Kasulu district had the highest number of households that dewormed pigs (59.6%) and cattle (56.2%). Kibondo had the highest number of households that dewormed goats and sheep (39.4%), followed by Kasulu. However, a moderate number of chicken were dewormed in the three districts of Kibondo, Kasulu and Kigoma Rural. Kigoma Urban was reported to deworm the smallest numbers of all types of livestock, (Chart 3.73).



3.11 Fish Farming

The number of households involved in fish farming in Kigoma region was 212, representing 0.1 percent of the total agricultural households in the region (Chart 3.74). Kasulu was the only district with fish farming household). Number of households engaged in fish farming has increased by 10 percent from 193 households in 2003 to 212 households in 2008.

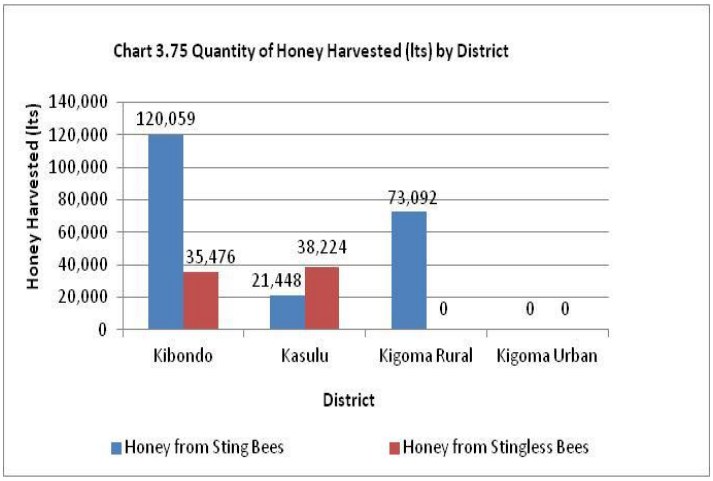


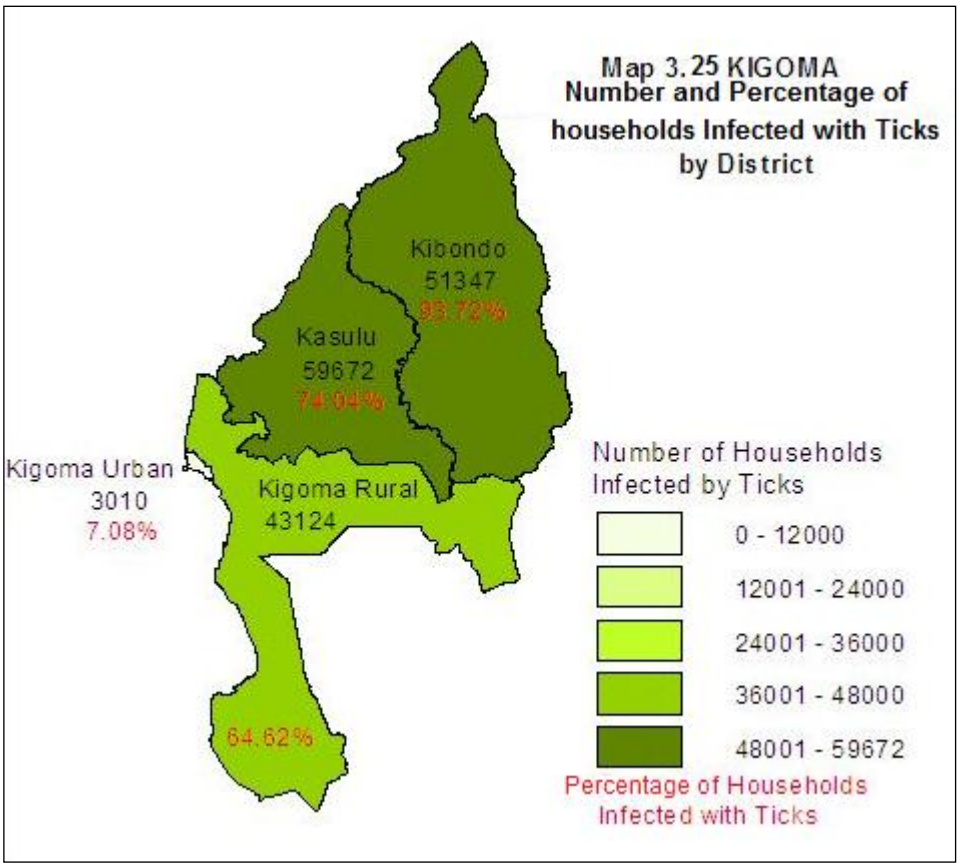
The only source of fingelings was Non-government Organization/Project. The system of fish farming used in the region was the dug-out pond and the main fish species planted was Tilapia. The number of fish harvested in Kigoma region during the period was 21,236 all of them were Tilapia.

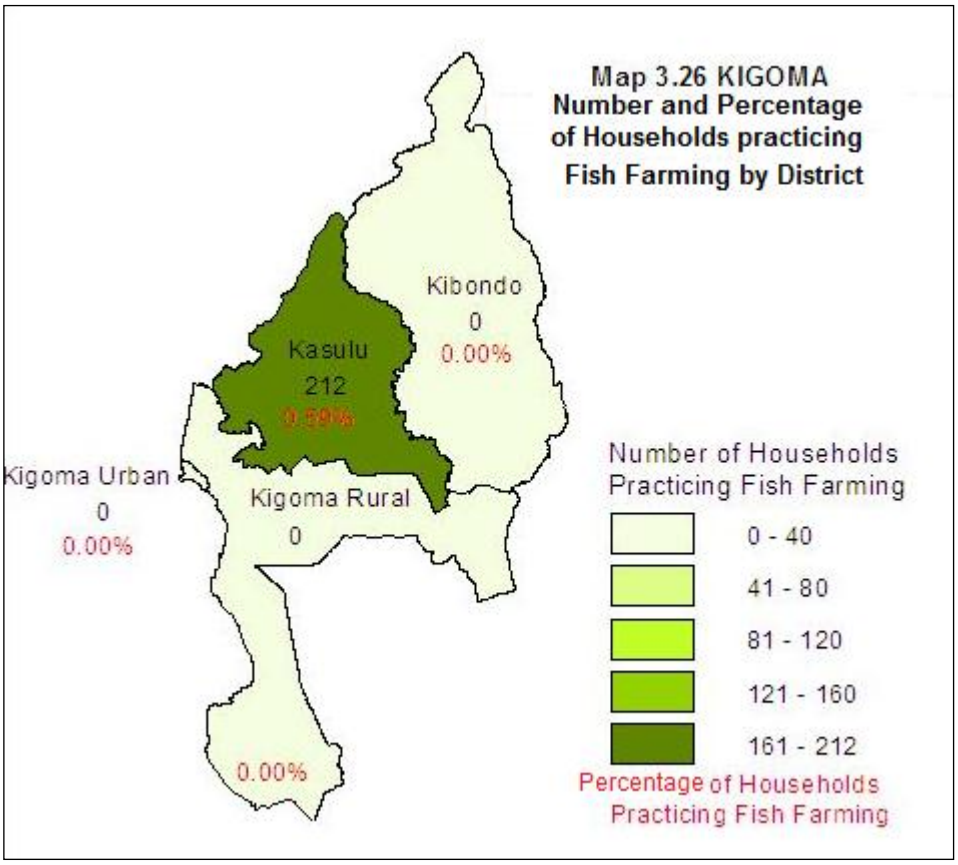
3.12 Bee Keeping

Out of the total agricultural households in the region, only 4,247 (1.9% of agricultural households in the region) households practiced bee keeping, keeping sting and stingless types of bees. The number of households producing honey was highest in Kibondo (2,614), followed by Kasulu (1,486 households) and Kigoma Rural (146 households)

Two types of bee hives were used for keeping bees. About 32% of the households that practiced bee keeping used local bee hives, while 2.2% of the households used improved bee hives. The largest quantity of honey harvested was from sting bees, with Kibondo producing 120,059 litres, followed by Kigoma Rural 73,092 litres and Kasulu, 21,448 litres. Kigoma Urban was not reported to keep any bees (Chart 3.75).




Map 3.25 KIGOMA
Number and Percentage of households Infected with Ticks by District
Kibondo
51347
85.72%
Kasulu
59672
74.04%
Kigoma Urban
3010
7.08%
Kigoma Rural
43124
64.62%
Number of Households Infected by Ticks
0 - 12000
12001 - 24000
24001 - 36000
36001 - 48000
48001 - 59672
Percentage of Households Infected with Ticks

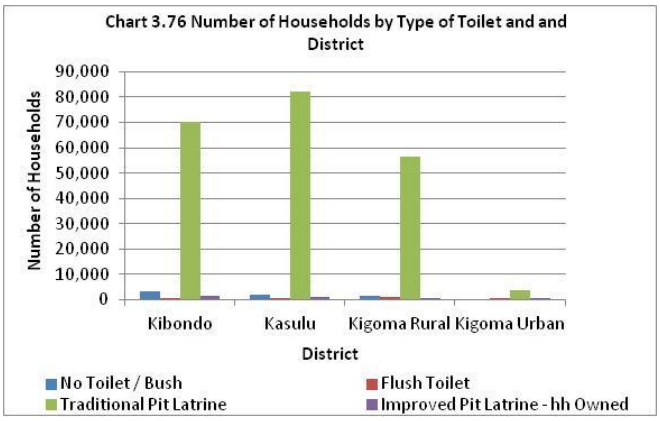

Map 3.26 KIGOMA
Number and Percentage of Households practicing Fish Farming by District
Kibondo
0
0.00%
Kasulu
212
0.59%
Kigoma Urban
0
0.00%
Kigoma Rural
0
0.00%
Number of Households Practicing Fish Farming
0 - 40
41 - 80
81 - 120
121 - 160
161 - 212
Percentage of Households Practicing Fish Farming

3.13 Poverty Indicators

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

3.13.1 Type of Toilets

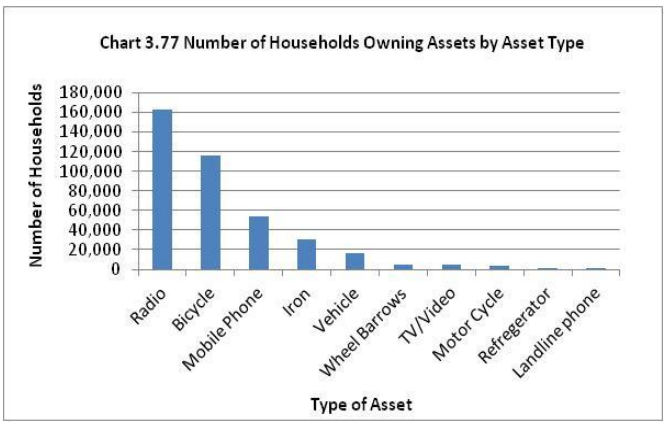
The census results indicate that in Kigoma region, about 94% of rural agricultural households(212,302) use traditional pit latrines, followed by those who used improved pit latrine (3,878, 2%) and flush toilets (2,377,1.1%). The results revealed however that 6,613, (2.9%) of the households had no toilet facilities, (Chart 3.76).



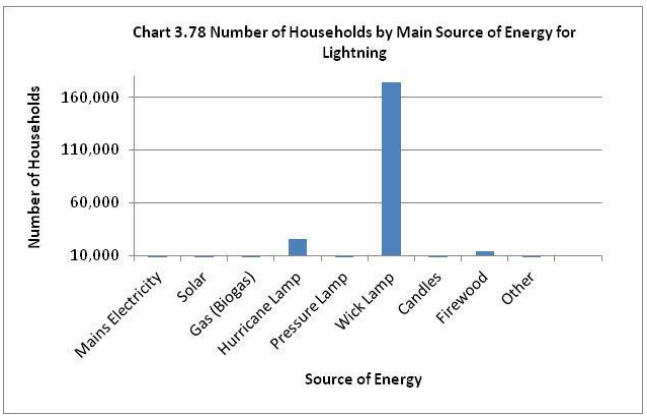
The distribution of the households without toilets within the region shows that about 48.0 percent of households were in Kibondo district, 32.1 percent were in Kasulu and 19.9 percent were in Kigoma Rural.

3.13.2 Household's Assets

The type of assets reported to be owned by the majority of the rural agricultural households in Kigoma region include Radio, with the largest number of households (163,420, 75.5% of agricultural households in the region). Other assets possessed by large numbers of households were bicycles (116,362, 51.7%), mobile phones (53,392, 23.7%) and iron (30,456, 13.5%). The other assets owned by a small number of households were vehicles (16,808, 7.5%), wheel barrows (4,831, 2.1%), TV/video (4,351, 1.9%), motor cycle (3,190, 1.4%), refregerators (1,471, 0.7%) and landline phones (1,254, 0.6%), (Chart 3.77).

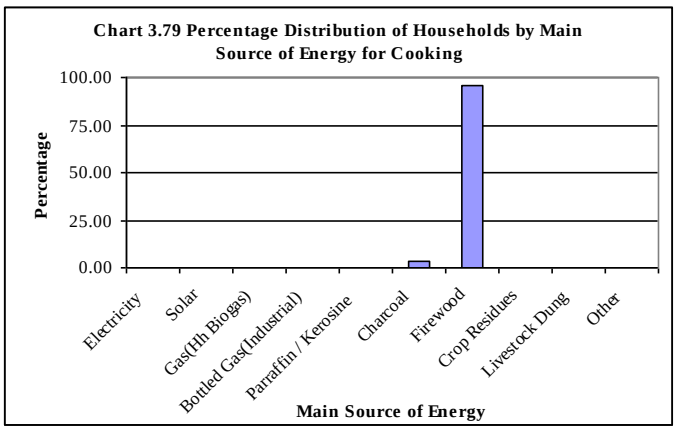


3.13.3 Sources of Lighting Energy



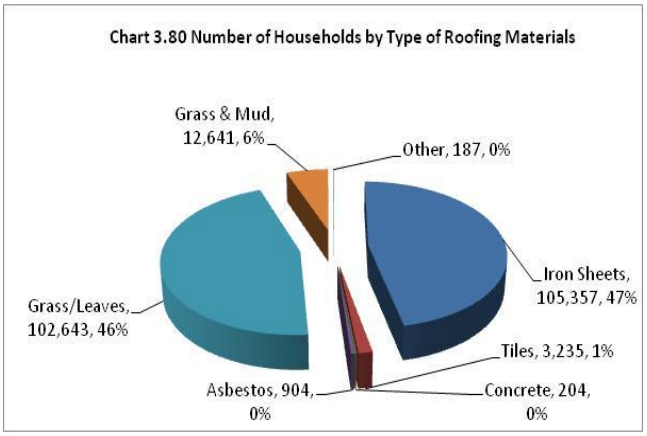
Wick lamp was the most common source of lighting energy in the region with about 77 percent (174,225 households) of the total rural households using this source of energy. This was followed by hurricane lamp (25,764 households, 11.4%), firewood (13,985 households, 6.2%), pressure lamp (6,943 households, 3.1%) and solar (2,806 households, 1.2%). The remaining sources of lighting were of little importance, (Chart 3.78).

3.13.4 Sources of Energy for Cooking



The most prevalent source of energy for cooking was firewood, which was used by 214,797 households (95% of all rural agricultural households in the region) Followed by charcoal (8,465, 4%). The remaining sources of energy accounted for less than 1 percent of the households, (Chart 3.79).

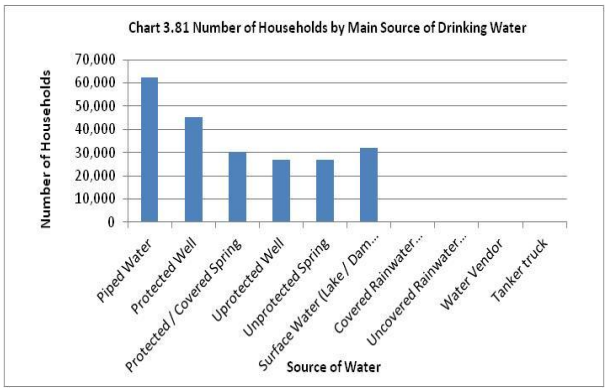
3.13.5 Roofing Materials



The most common material used for roofing the main dwelling was iron sheets and it was used by 47% of the rural agricultural households. It was followed by grass/leaves (46%), grass and mud (6%) and tiles (1%). Asbestos, concrete and other roofing materials were used by a small number of households, (Chart 3.80). The largest number of households using both iron sheets and grass/leaves were in Kasulu (19% and 16% respectively), followed by Kibondo and Kigoma Rural districts.

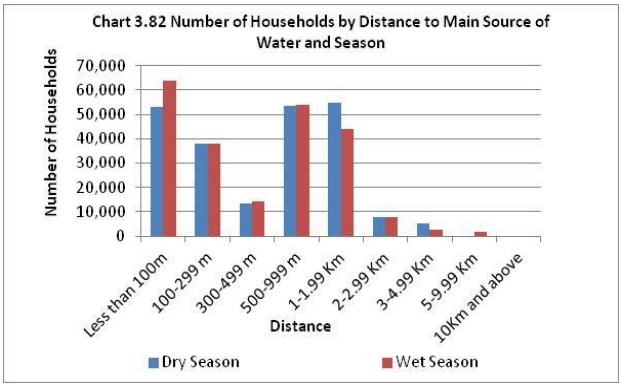
3.13.6 Access to Drinking Water

The main source of drinking water for agricultural households in Kigoma region during the dry season was piped water and protected wells (27.8% and 20.1% of households respectively. Others were surface water 14.2% (32,045 households), protected covered spring 13.4% (30,272 households), unprotected spring 12% (27,018 households) and unprotected 11.9% (26,720 households), (Chart 3.81).



About 75.7 percent of the rural agricultural households in Kigoma region obtain drinking water within a distance of less than one kilometer during wet season compared to 70.0 percent of the households during the dry season.

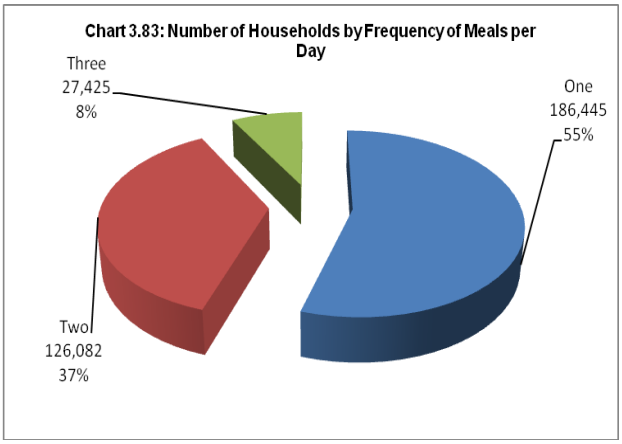
The number of households that obtain water up to a distance of 100-999 meters in both seasons is more or less the same. During dry season, 24.3% of the households obtain water between 1–1.99 kilometers, while 19.5% obtain water from the same distance during the wet season, (Chart 3.82).



3.13.7 Food Consumption Pattern

3.13.7.1 Number of Meals per Day

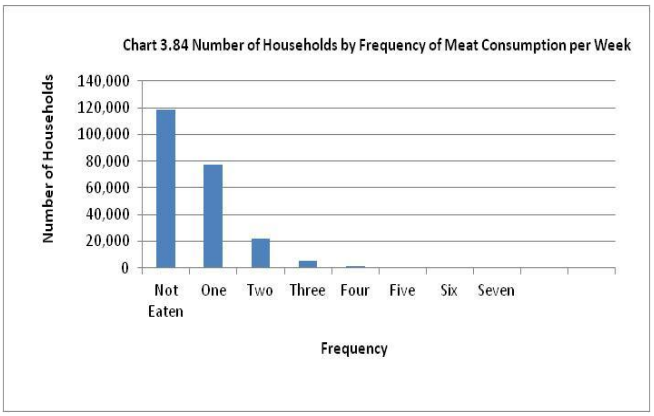
The census results indicate that the majority (55%) of rural agricultural households in Kigoma region had one meal per day, followed by two meals per day (37%), and only 8% of the households had three meals per day, (Chart 3.83).



Kigoma Rural district had the largest percentage of households eating three meals per day, followed by Kasulu and Kibondo. Kigoma Urban had the lowest percentage of households having three meals per day.

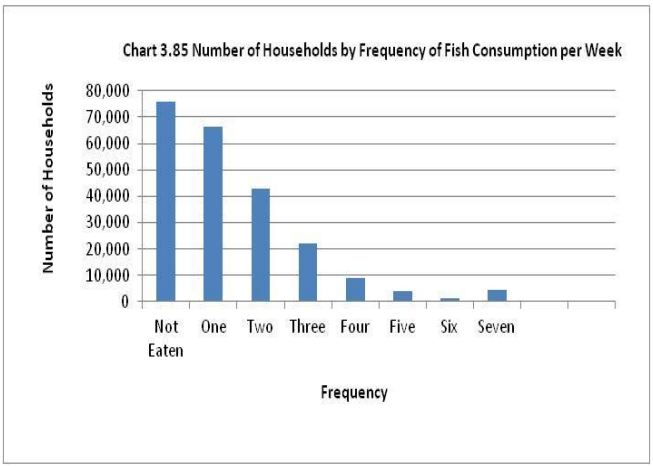
3.13.7.2 Meat Consumption Frequencies

The census results indicate that 52.8 percent of the rural agricultural households in Kigoma region did not consume meat in the preceding week of the census. The households that consumed meat once in the week were 34.4% and 9.9% consumed meat twice during the week while 2.4% consumed meat three times. Very few households (0.5%) had eaten meat four or more times during the respective week. (Chart 3.84) Kasulu district had the highest number of households that consumed meat four times in the week.



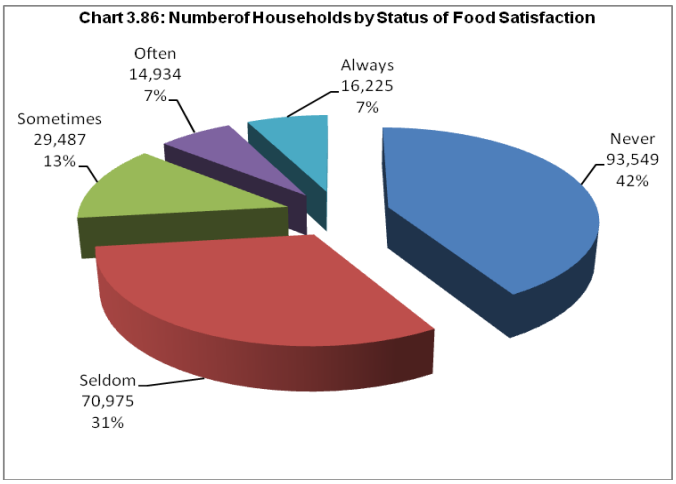
3.13.7.3 Fish Consumption Frequencies

Fish consumption was more important in Kigoma region compared to meat consumption. Distribution by fish consumption shows that, unlike meat consumption, some of the rural agricultural households consumed fish up to seven days in the week preceding agricultural census. About 29% of the households consumed fish once a week, while 19% consumed fish twice a week. The households that consumed fish three times were about 10% and about 2% of the households consumed fish seven times in the week. The households that did not consume fish during the week were 34%, (Chart 3.85).



3.13.8 Food Security

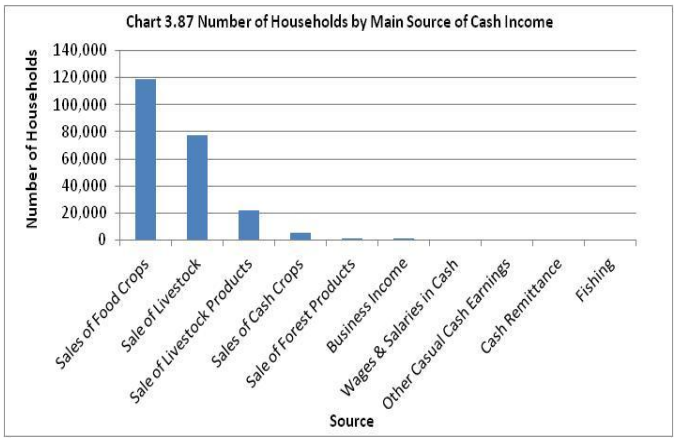
In Kigoma region, about 93,549 households (42% of the total agricultural households in the region) never experienced problems with food satisfaction. However, about 32% reported to have rarely experienced food



requirement problems and13% reported to have sometimes experienced food problems within their households. About 7 percent reported to often experience problems while another 7 percent reported to always have problems with satisfying the household food requirements respectively, (Chart 3.86 and Map 3.30).

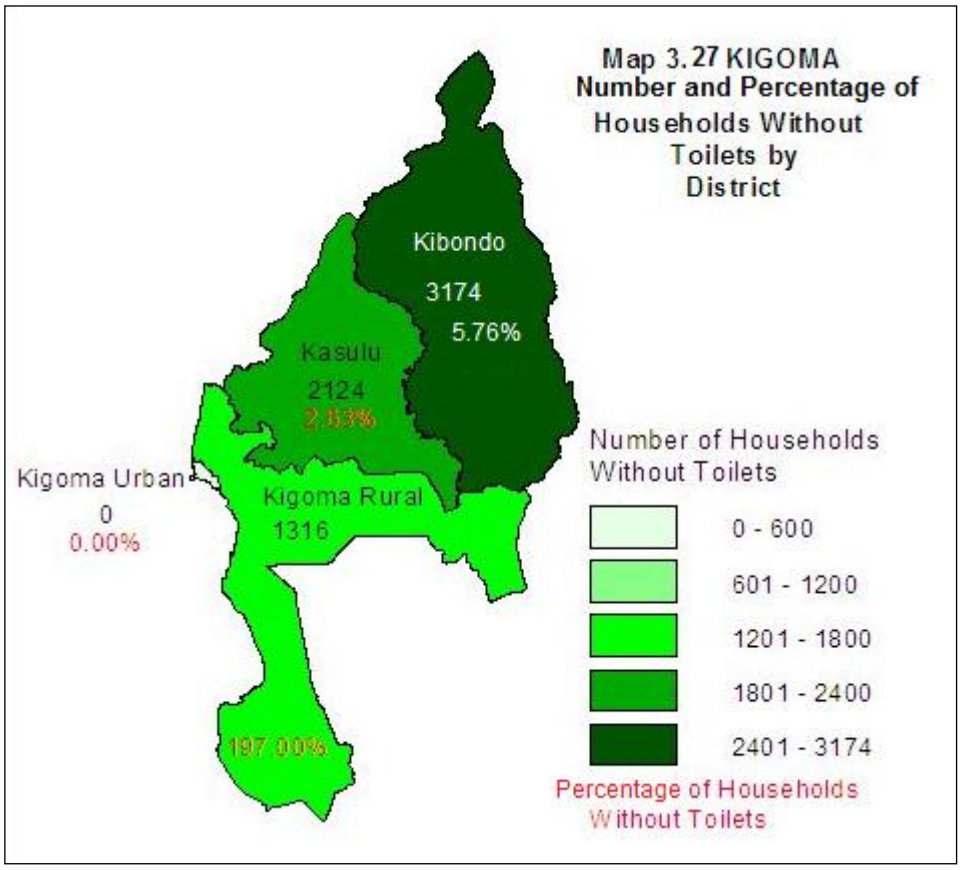
3.13.9 Main Sources of Cash Income

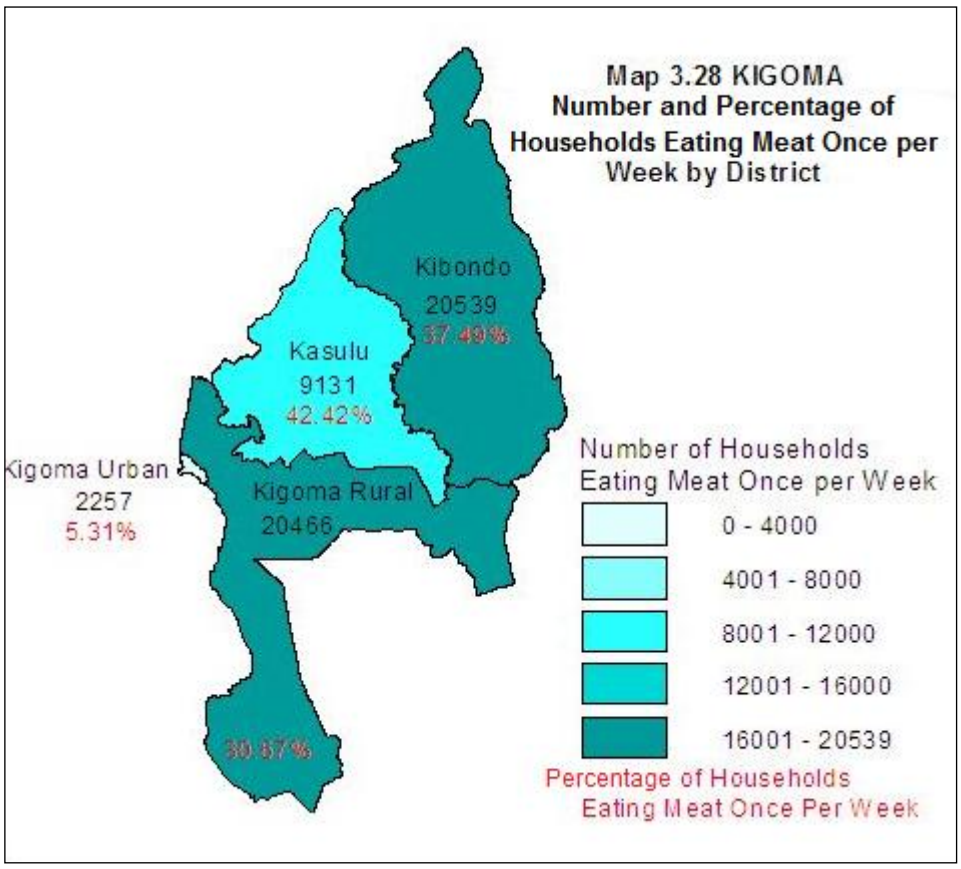
The main cash income of the households in Kigoma region was from the selling of food crops (68.7 percent of the smallholder households) followed by other casual cash earnings (11.3%), and business income (6.0%).

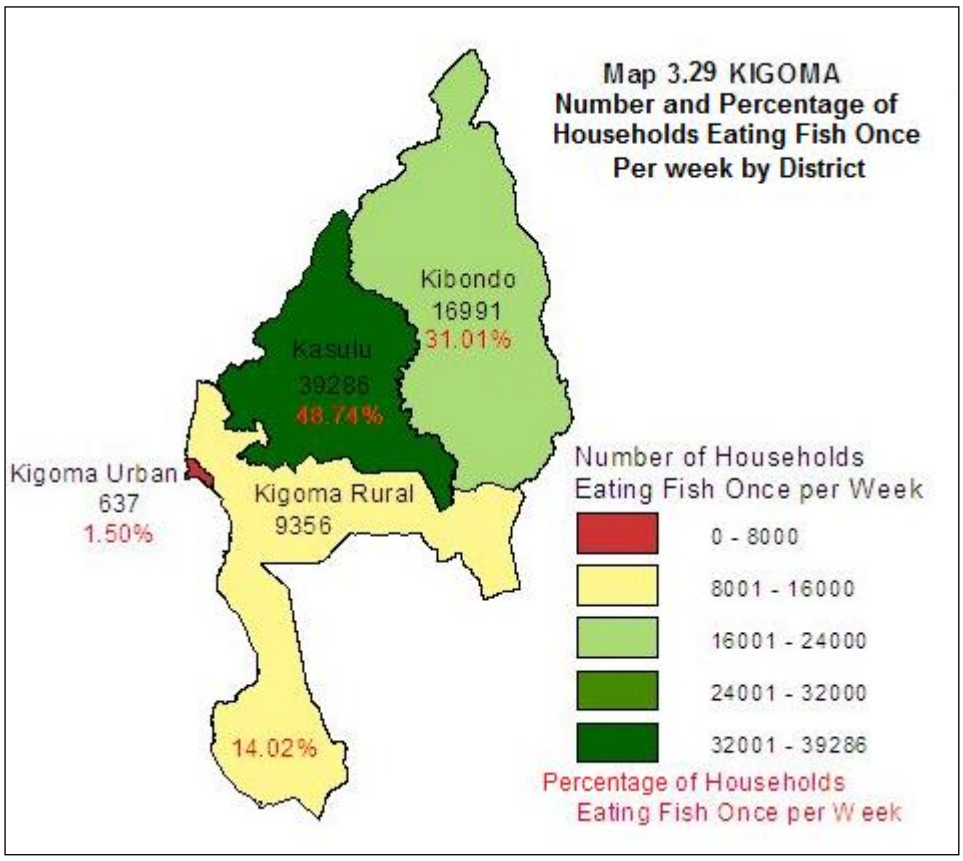


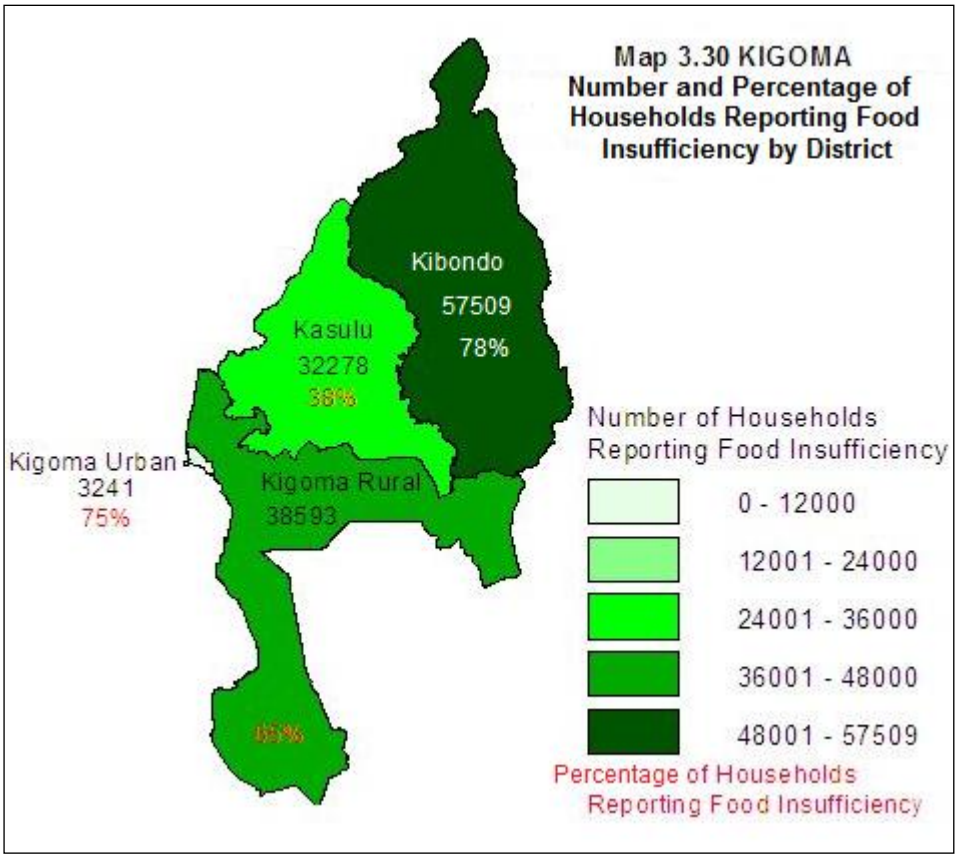
Other main income generating activities for a small number of households were sale of cash crops (2.9%), wages and salaries (2.5%) and sale of livestock (2.2%). Fishing, cash remittances, sale of livestock products and sale of forest products were the main source of income each of about 1.3% of the rural agricultural households respectively, (Chart 3.87).

Kasulu district had the highest number (29%) of the households with sale of crops as their main source of income, followed by Kibondo (20.3%) and Kigoma Rural (18.2%).


Map 3.27 KIGOMA
Number and Percentage of Households Without Toilets by District
Kibondo
3174
5.76%
Kasulu
2124
2.83%
Kigoma Urban
0
0.00%
Kigoma Rural
1316
197.00%
Number of Households Without Toilets
0 - 600
601 - 1200
1201 - 1800
1801 - 2400
2401 - 3174
Percentage of Households Without Toilets


Map 3.28 KIGOMA
Number and Percentage of Households Eating Meat Once per Week by District
Kibondo
20539
37.49%
Kasulu
9131
42.42%
Kigoma Urban
2257
5.31%
Kigoma Rural
20466
30.87%
Number of Households Eating Meat Once per Week
0 - 4000
4001 - 8000
8001 - 12000
12001 - 16000
16001 - 20539
Percentage of Households Eating Meat Once Per Week


Map 3.29 KIGOMA
Number and Percentage of Households Eating Fish Once Per week by District
Kibondo
16991
31.01%
Kasulu
39286
48.74%
Kigoma Urban
637
1.50%
Kigoma Rural
9356
14.02%
Number of Households Eating Fish Once per Week
0 - 8000
8001 - 16000
16001 - 24000
24001 - 32000
32001 - 39286
Percentage of Households Eating Fish Once per Week


Map 3.30 KIGOMA
Number and Percentage of Households Reporting Food Insufficiency by District
Kibondo
57509
78%
Kasulu
32278
38%
Kigoma Urban
3241
75%
Kigoma Rural
38593
Number of Households Reporting Food Insufficiency
0 - 12000
12001 - 24000
24001 - 36000
36001 - 48000
48001 - 57509
Percentage of Households Reporting Food Insufficiency

4 KIGOMA 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.

4.1 Kigoma Region Profile

The regional profile describes the status of agriculture sector in the region and compares it with other region in the country.

Kigoma has the 14th largest number of agricultural households in the country and a population density of 0.6 household/sq.km. The region has a total usable land area of 403,580 hectares under crop production with an average land utilization rate of 83.7%. About 70% of the households are crop growing households. However, about 63% of the households reported land insufficiency. The land area under crop production is mostly under temporary mono crops with an average planted area per household of 0.8 ha in the short rain season and 0.6 ha in the long rain season.

Kigoma is one of the least important regions for cereals production accounting for only 1.9% of the cereal planted area in the country and maize was the most important cereal planted. Very small areas of paddy and sorghum are grown. Kigoma has the fourth largest planted area with beans which occupy about 21.7% of the total planted area of the region and has the 10th largest area planted with groundnut. The production of vegetables and cash crop is relatively unimportant compared to other regions but the dominant crop in this category is tomato.

The major permanent crop in Kigoma is oil palm and the region is leading with 80% of the total planted area of the crop in Tanzania. The region also has the 7th largest planted area in banana and 5th in coffee with very small planted areas of the other permanent crops such as mango, coconut and orange. The use of fertilizer is minimal as the region is among the five regions having the smallest areas applied with organic fertilizer and is also ranked low in the use of inorganic fertilizer. Pesticide use is limited to mostly fungicides.

Relative to other regions, Kigoma has a small planted area with irrigation for which the main source of water is from rivers and the method of obtaining water is predominantly using buckets/watering cans followed by gravity. In the region, about 60.5% of the households reported having received crop extension services. All households store crops particularly maize and about 40% of the households report selling crops.

Land preparation and other farm operations are mostly by hand with minimal use of farm animals or mechanized equipment.

4.2 District Profiles

The following district profiles highlight the characteristics of each district and compare them in relation to population. Main crops, livestock, production, productivity, access to services, resources and levels of poverty.

4.2.1 Kibondo

Kibondo district had the second lowest number of households in the region and it has also the third largest percentage of households involved in smallholder agriculture. Most smallholders are involved in crop farming only, followed by crop and livestock farming. It had 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 Kibondo district was annual crop farming, followed by permanent crop farming. The district had the second highest percent of households with no off farm income activities, as well as the lowest percent of households with more than one member with off farm income.

Kibondo had a relatively high percent of female headed households (19%) and it had one of the lowest average age of the household heads in the region, with a household size of five members per households and it is average for region.

Kibondo had a moderate literacy rate among smallholder households. The literacy rate for the heads of households was slightly higher than most districts in the region. The district has the second lowest planted area in the region and among the largest planted area per households (0.3 ha in the long rainy season and 0.4 ha in the short rainy season), the district was important for maize production in the region with a planted area of over 27,195 ha, and the planted area per maize growing household was the highest in the region. The district had the moderate planted area of paddy in the region with 954 hectares. The planted area for sorghum was the largest in the region. Cassava production was moderate, accounting for 7 percent of the quantity harvested in the region. The district had no planted area of Irish potatoes. The production of beans in Kibondo was smaller than in other districts. Kibondo district had the second largest groundnut planted area in Kigoma region with a planted area per groundnut growing household of 0.34 ha. Vegetables production was moderate. Traditional cash crops (e.g. tobacco and cotton) were grown in small quantities.

Compared to other districts, Kibondo has the second lowest planted area for permanent crops which were dominated by banana (7,586 ha), coffee (426 ha) mango (326 ha) and avocado (202 ha). Other permanent crops were either not grown or grown in very small quantities.
The use of farm inputs in the region is very small, however district differences exist. Kibondo had the lowest planted area with improved seed in the region as well as the highest proportion of households not using improved seeds. Though small, the district had the second highest planted area with fertilizers (farm yard manure, compost and inorganic fertilizer), and most of this was with farm yard manure. Compared to other districts, Kibondo districts had moderate level of insecticides use; the use of herbicides was not reported. It had lower percent area with irrigation compared to other districts with 409 ha of irrigated land.

The most common source of water for irrigation was from rivers using hand gravity, flood and bucket are the most common means of irrigation water application, no amount of sprinkler irrigation is used.

The most common method of crop storage in Kibondo district was in locally made traditional cribs; however the proportion of households not storing crops was average for the region. Kibondo had lower number of households selling crops. Very small access to credit in the district was to male-headed households only and main sources were the commercial bank and religious organization/NGO/ Project.

Moderate number of households received extension services in Kibondo district and most of this was from the government.
The second lowest percentage of households with erosion control and water harvesting structures was found in Kibondo district mostly erosion control bunds and drainage ditches, however it also had some vertices grass and tree belts.

The district had the third largest number of cattle in the region and they were almost all indigenous. Goat production was the highest in the region; however it had the second lowest population of sheep in the region and a moderate number of pigs and chickens. Some ducks and donkeys were also found in the district. A number of households reported tsetse and tick problems and it had the second lowest number of households deworming livestock. No household reported to use draft animals, also no household reported to practice fish farming.

The percentage of households without toilet facility in Kibondo district was comparatively high 6.3 percent. Also it was amongst the districts with the lowest percent of households owning wheel barrows, vehicles, bicycles tv/video and mobile phones.

The most common source of energy for lighting was the wick lamp and practically all households used firewood for cooking. The roofing material for most of the households in the districts was grass/leaves (61%) and iron sheets (28%).

The most common source of drinking water was the unprotected well. It is one of the districts with the highest percent of households having two meals per day. The district had third low highest percent of households that did not eat meat and the lowest percent of households that did not eat fish during the week prior to enumeration and most households seldom had problems with food satisfaction.

4.2.2 Kasulu

Kasulu district had the largest number of households in the region and it had one of the highest percent of households involved in smallholder agriculture in the region. Most smallholders were involved in crop farming only followed by crop and livestock farming. Neither livestock only nor pastoralists were found in the district. The most important livelihood activity for smallholder households in Kasulu district was annual crop farming, followed by permanent crop farming.

However, the district had the highest percent of households with no farm income activities (43%), and also the second lowest percent of households with two or more members with off-farm income. Compared to other districts in the region Kasulu had relatively low percent of female headed households (11%) Its average household size of 5 members per households was equal to the average household size for the region. Kasulu had a comparatively high literacy among smallholder households' members (69%), and the literacy rate for the heads of households was also the highest in the region.

The land area utilized per household (2.0 ha) was slightly higher than the regional average of (1.9 ha). The district had the largest planted area in the region and among the largest planted area per household (0.4 ha) in the long rainy season but among the lowest planted area per household (0.3 ha) in the short rainy season. The district was very important for maize production in the region with a planted area of over 36,958 ha and the planted area per households was 0.5 ha which was more than average for region is 0.4 ha. Paddy production was also important with a planted area of 1,959hectares. Sorghum planted area was the second highest in the region. The district had larger

planted area of cassava accounting 44 percent of the cassava planted area of 75,675. Oilseeds and vegetables are important in Kasulu with 31.6percent of the groundnuts planted area being in the district.

Permanent crops are important in Kasulu district 47% of the total permanent crop planted area in Kigoma region. The permanent crops in the district include palm oil (8,747 ha), orange (543 ha) and bananas (2,762 ha). Other permanent crops were either not grown or were grown in very small quantities. As with other districts in the region, most land clearing is done by hand slashing, and a relatively small area of bare ground before planting. Practically all land preparation was done by hand, however a very small amount of land preparation was done by burning.

The use of inputs in the region was very small, however district differences existed, Kasulu had a small area planted with improved seeds. The district also had a small planted area applied with fertilizers (farm yard manure, compost and inorganic fertilizer) but practically all of it was farm yard manure. Compared to other districts in the region, Kasulu district had the larger area of insecticide and fungicide use also the use of herbicides was relatively large. It had the largest area of irrigation in the region with 2,186 ha of irrigated land. The most source of water for irrigation was mostly the river and almost all water application was done by gravity and the hand bucket.

The most common method of crop storage in Kasulu was locally made traditional cribs. The proportion of households not storing crops in the district was moderate to low when compared to other districts in the region. The district had the highest percent of households selling crops. Very few households had access to credit.

A moderate number of households received extension services in Kasulu district and almost all of these were from the government and NGO/Development/ Project.
The second highest proportion of households with water harvesting bunds was found in Kasulu district and it also had the largest number of erosion control bunds. The district had a large number of cattle in the region and they were almost all indigenous. Goats and sheep production was high compared to other districts. The district had the largest number of pigs in the region and second largest number of chickens, all of which were indigenous. Virtually no improved chickens were found in the district. The district had a moderate number of ducks, and a small number of donkeys and turkeys were found in the district. A small number of households reported tsetse and tick problems in Kasulu district. A largest amount of de-worming of livestock was practiced in the

district; also it had a very small number of households using draft animals and a few households' practiced fish farming.

The percentage of households without toilet facility in Kasulu district was lowest in the region and it had the highest percent of households owing radios, and bicycles. The most common source of energy for lighting was the wick lamp and practically all households used firewood for cooking. The district had a high percent of households with grass roofs 55 percent and 27 percent of households had iron sheet roofing. The most common source of drinking water was from protected wells. Eighty three percent of the households in the district reported having two meals per day. The district had a high percent of households that did not eat meat or fish during the week prior to enumeration and most households never had problems with food satisfaction.

4.2.3 Kigoma Rural

Kigoma rural district had second largest number of households in the region and it had the large percent of households involved in smallholder agriculture in the region. Most smallholders were involved in crop farming only, followed by crop and livestock farming. It had a very small number of livestock only households and few pastoralists were found in the district.

The most important livelihood activity for smallholder households in Kigoma rural district was annual crop farming, followed by permanent crop farming. It had the second highest percent of households with no off-farm income activities and the second high percent of households with more than one member involved in off-farm income activities. Compared to other districts in the region, Kigoma rural district had a relatively low percent of female headed households (15%) and it had one of the high average ages of the households' heads. Its average household size of 6members per households was more than the average household size for the region. Kigoma rural district had a comparatively moderate literacy rate among smallholders. It had the highest utilized area per household (2.2 ha) which was more than the regional average of 2.0 ha.

The district was important for maize production in the region with a planted area of 16,958 ha and the planted area per households was among the highest in the region. Paddy production was moderately important with a planted area of 1,859 hectares and the production of sorghum was very small. Cassava and beans production in Kigoma rural district was a bit higher than in other districts, Irish potatoes and wheat were not grown. Oilseeds crops and vegetables were moderately important in the district, however, whilst the district had one of the largest areas planted with groundnuts;

other crop seeds were not grown of the traditional crops (e.g. tobacco and cotton), cotton production was not very much important crop, whilst tobacco production was high.

Compared to other district in the region, Kigoma rural district had a large area planted with permanent crops (30 % of total permanent area planted in the region) mostly palm oil (382 ha) and mango (28 ha). Other permanent crop were either not grown or were grown in very small quantities. The use of inputs in the region was small, however districts differences exist. Kigoma rural district had small area planted with improved seeds; the district also had the average percent of planted area applied with fertilizers (farm yard manure, compost and inorganic fertilizer), but most of this was farm yard manure. Compared to other districts, Kigoma rural district had the second lowest area applied with insecticides in the region. The percent of planted area with fungicides and herbicides were amongst the lowest in the region. It had one of the largest areas under irrigation (1,520 ha.). The most common source of water for irrigation was the rivers using land buckets/bucket.

Watering cans were the most common means of irrigation water application. The most common method of crop storage was the locally made traditional; however the proportion of households not storing crops in Kigoma rural district was one of the highest in the region. The number of households selling crops in the district was among the largest in the region. Most households that sell crops to local market/trade store. Access to credit in the district is very small. A very large number of households receive extension services in Kigoma rural district and almost all of these were from the government.

The largest proportion of households in Kigoma rural district used erosion control bunds. Kigoma rural district had the largest number of cattle in the region and most of them were indigenous. It was one the districts with the large number of goats in the region. Kigoma rural was also the districts with the largest number of sheep, chickens and improved chickens. Small numbers of ducks and rabbits were found in the district. Moderate number of households reported tsetse and tick problems in Kigoma rural districts and it had one of the smallest numbers of households deworming livestock. The use draft animal in the district was very small in the region and no households practiced fish farming.

Kigoma rural district had a small number of households with no toilet (1.7 percent). The district has the higher percent of households owning radio, iron and television/video. The common source of energy for lighting was the wick lamp and practically all households used firewood for cooking.

The district had a high percent of households with grass roofs, and only 27 percent of households having iron sheet. The most common source of drinking water was surface water (Lake/dam/river/stream). It had the third highest percent of households having two meal per day compared to other districts and the highest percent with three meals per day. The district had the lowest percent of households that did note at meat or fish during the week prior to enumeration. Most households never had problems with food satisfaction.

4.2.4 Kigoma Urban

Kigoma Urban district had the smallest number of households in the region and one of the lowest percent of households involved in smallholder agriculture in the region. Most smallholders were involved in crop farming only, followed by crop and livestock farming. It had a very small number of livestock only households and no pastoralists were found in the district

The most important livelihood activity for smallholder in Kigoma Urban district was off-farm income followed by annual crop farming, permanent crop farming, livestock keeping/herding and remittances. The district had the lowest percent of households with no off farm income activities and the highest percent of households with more than one member involved off-farm income activities. Compared to other districts in the region, Kigoma Urban had moderate percent of female headed households (27%) and it had the second highest average age of the household heads. Its average household size of 6 members per household was more than the regional average household size. Kigoma Urban had the second largest literacy rates among smallholders' members in the region (66%). It had one of the smallest utilized land area per household (0.9 ha) which was much lower than the regional average of 1.9 ha per household. The district had the second largest planted area in the region, per household (0.4 ha) in the long rainy season.

Maize production was not important in the district, it had a planted area of only 760 ha, however the planted area per household was moderate compared to other districts in the region. Paddy production was also not important with a planted area of 83 hectares and the production of sorghum was not important and Irish potatoes were not grown in the district. The district had the lowest percent of cassava planted area in the region. The production of beans in Kigoma Urban district was relatively small in the region with planted area of 628 ha. Oil seed crops were not important and small amounts of groundnuts were grown in the district Vegetable production was also not important in the district, however the district had largest planted area per tomato growing household in the region. Kigoma Urban had a small area planted with permanent crops (446 ha)

dominated by palm oils (382 ha) and mango (28 ha). Other permanent crops were either not grown or were grown in very small quantities.

The use of inputs in the region was very small, however district differences exist. Kigoma Urban had the highest percent of area planted with improved seeds in Kigoma region and it had the highest planted area applied with fertilizers most of this used farm yard manure.

Compared to other districts in the region, Kigoma Urban district had a low percent of its planted area applied within pesticides in the region and the use of fungicides was one of the lowest in the region and virtually no herbicides were used. It had the smallest area planted under irrigation in the region with only 42 ha of irrigated land rivers and wells were used as the sources of irrigation water and buckets/water cans were the most common means of irrigation water application.

The most common method of crop storage was in sacks/open drum; however the proportion of households not storing crops in the districts was one of the highest in the region. The district had the second highest number of households selling crops. Access to credit was very small in the district and the main reason for not using credit was did not know how to get credit

The district had the smallest number of cattle in the region and they were mostly indigenous. Goats and sheep production were also the smallest in the region and some pigs were found in the district. It had a comparatively large number of chickens; but a small number of ducks.. A moderate number of households reported tsetse flies and ticks problems and the district had the highest number of households de-worming livestock. The use of draft animals in the district was non existent and no fish farming was practiced in the district.

Kigoma Urban had high percent of households with no toilets facilities (2.3%). The district had the largest percent of households owning radios iron, and bicycles. A very small number of households reported owning vehicles and television/ videos. It had the largest number of households using electricity in the region the most common source of energy for lighting was the wick lamp and practically all households used firewood for cooking. The district had a large percent of households with grass roofs (35%) and only (61%) of households had iron sheet roofs.
The most common source of drinking water was the pipe and the protected well. It had 74 percent of households having two meals per and 26 percent of households with 3 meals per day. The district had the second highest percent of households that did not eat meat during the week prior to

enumeration; however it had low percent of households that did not eat fish during the preceding week. Most households in the districts never had problems with food satisfaction

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TYPE OF AGRICULTURE HOUSEHOLD

Appendix II: Tables

2.1 Number of Agriculture Households by Type of Holding by District During 2007/08 Agricultural 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	%			
Kibondo	53,775	71	0	0	0	0	21,846	28.9	75,620	75,620	21,846
Kasulu	59,672	69	0	0	0	0	26,332	30.6	86,044	86,004	26,332
Kigoma Rural	40,786	69	0	0	0	0	18,419	31.1	59,205	59,205	18,419
Kigoma Urban	3,184	73	463	10.7	0	0	695	16.0	4,341	3,878	1,158
Total	**157,416**	**70**	**463**	**0.2**	**0**	**0**	**67,292**	**29.9**	**245,171**	**224,708**	**67,755**

2.2 Number of Agriculture Households by Type and Size of 2007/08 Agricultural Year

Size of Holding (ha)	Crops only		Livestock only		Crops and Livestock		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0.01 - 0.50	24,474	84	463	2	4,332	15	29,269	100
0.51 - 1.00	37,217	77	0	0	10,847	23	48,064	100
1.01 - 1.50	32,570	74	0	0	11,587	26	44,157	100
1.51 - 2.00	20,155	66	0	0	10,387	34	30,542	100
2.01 - 2.50	23,669	68	0	0	11,037	32	34,707	100
2.51 - 3.00	5,143	50	0	0	5,068	50	10,211	100
3.01 - 3.50	3,762	55	0	0	3,050	45	6,812	100
3.51 - 4.00	1,196	39	0	0	1,888	61	3,084	100
4.01 -4.50	3,419	50	0	0	3,391	50	6,810	100
4.51 -5.00	1,130	62	0	0	691	38	1,821	100
Above 5	4,680	48	0	0	5,014	52	9,694	100
Total	**157,416**	**70**	**463**	**0**	**67,292**	**30**	**225,171**	**100**

2.3 Number of Agriculture Households by Type and Size of Holding, 2007/08 Agricultural Year - Kigoma Region

Size of Holding (ha)	Type of Agriculture Household									
	Crops only		Livestock only		Pastoralist		Crops and Livestock		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0.01 - 0.50	70,075	24	1,544	73	2,197	100	6,005	5	79,821	20
0.51 - 1.00	78,839	27	58	3	0	0	21,164	19	100,060	25
1.01 - 1.50	66,681	23	0	0	0	0	23,911	21	90,593	22
1.51 - 2.00	25,370	9	0	0	0	0	14,448	13	39,819	10
2.01 - 2.50	26,414	9	0	0	0	0	15,222	14	41,635	10
2.51 - 3.00	7,518	3	0	0	0	0	6,775	6	14,293	4
3.01 - 3.50	5,521	2	0	0	0	0	3,869	3	9,390	2
3.51 - 4.00	2,114	1	0	0	0	0	2,802	2	4,916	1
4.01 -4.50	2,322	1	0	0	0	0	5,580	5	7,902	2
4.51 -5.00	633	0	0	0	0	0	3,040	3	3,673	1
Above 5	3,750	1	509	24	0	0	9,549	8	13,808	3
Total	**289,238**	**100**	**2,110**	**100**	**2,197**	**100**	**112,365**	**100**	**405,910**	**100**

HOUSEHOLD 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	
Kibondo	62,364	51	13,257	49	75,620
Kasulu	74,112	50	11,892	50	86,004
Kigoma Rural	51,311	49	7,894	51	59,205
Kigoma Urban	3,473	48	868	52	4,341
Total	**191,260**	**50**	**33,911**	**50**	**225,171**

3 .2 Number of Household Members by District and Sex

District	Male		Female		Total
	Number	Percent	Number	Percent	
Kibondo	190,265	51	185,223	49	375,488
Kasulu	243,785	50	246,758	50	490,543
Kigoma Rural	194,718	49	200,712	51	395,429
Kigoma Urban	12,561	48	13,545	52	26,105
Total	**641,328**	**50**	**646,237**	**50**	**1,287,566**

3.3 Number of Agricultural Household Members by Sex and Age Group, 2007/08 Agricultural Year, Kigoma Region

Age Group	Sex					
	Male		Female		Total	
	Number	%	Number	%	Number	%
Less than 4	99,049	49	101,341	51	200,390	100
5 - 9	103,867	51	99,923	49	203,790	100
10 - 14	103,099	52	94,238	48	197,337	100
15 - 19	87,310	53	78,146	47	165,456	100
20 - 24	47,435	46	56,395	54	103,831	100
25 - 29	38,206	46	44,225	54	82,430	100
30 - 34	28,662	44	36,811	56	65,473	100
35 - 39	29,256	41	41,275	59	70,531	100
40 - 44	25,685	51	24,897	49	50,582	100
45 - 49	25,351	56	20,032	44	45,383	100
50 - 54	16,069	50	16,186	50	32,254	100
55 - 59	7,911	48	8,405	52	16,316	100
60 - 64	8,908	53	7,955	47	16,864	100
65 - 69	6,995	58	5,082	42	12,076	100
70 - 74	5,703	55	4,585	45	10,288	100
75 - 79	3,428	53	3,022	47	6,450	100
80 - 84	2,465	53	2,222	47	4,687	100
Above 85	1,930	56	1,499	44	3,429	100
Total	**641,328**	**50**	**646,237**	**50**	**1,287,566**	**100**

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

District	Married						Not Married					
	Male		Female		Total		Male		Female		Total	
Kibondo	59,750	91	5,602	9	65,351	100	1,120	67	560	33	1,680	100
Kasulu	68,166	96	2,761	4	70,927	100	637	50	637	50	1,274	100
Kigoma Rural	48,826	97	1,462	3	50,288	100	877	50	877	50	1,754	100
Kigoma Urban	2,894	98	58	2	2,952	100	347	100	0	0	347	100
Total	**179,636**	**95**	**9,882**	**5**	**189,518**	**100**	**2,982**	**59**	**2,074**	**41**	**5,056**	**100**

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

District	Living together						Separated					
	Male		Female		Total		Male		Female		Total	
Kibondo	0	0	187	100	187	100	560	25	1,680	75	2,241	100
Kasulu	3,398	89	425	11	3,822	100	637	17	3,185	83	3,822	100
Kigoma Rural	585	67	292	33	877	100	292	11	2,339	89	2,631	100
Kigoma Urban	116	100	0	0	116	100	58	14	347	86	405	100
Total	**4,098**	**82**	**904**	**18**	**5,002**	**100**	**1,547**	**17**	**7,552**	**83**	**9,100**	**100**

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

District	Widowed						Total					
	Male		Female		Total		Male		Female		Total	
Kibondo	934	15	5,228	85	6,162	100	62,364	82	13,257	18	75,620	100
Kasulu	1,274	21	4,884	79	6,158	100	74,112	86	11,892	14	86,004	100
Kigoma Rural	731	20	2,924	80	3,655	100	51,311	87	7,894	13	59,205	100
Kigoma Urban	58	11	463	89	521	100	3,473	80	868	20	4,341	100
Total	**2,997**	**18**	**13,499**	**82**	**16,496**	**100**	**191,260**	**85**	**33,911**	**15**	**225,171**	**100**

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

District	Yes						No					
	Male		Female		Total		Male		Female		Total	
Kibondo	304,349	47.74	333,104	52.3	637,453	100	69,646	62.9	41,078	37.1	110,723	100
Kasulu	387,762	48.03	419,616	52.0	807,378	100	102,356	59.2	70,502	40.8	172,858	100
Kigoma Rural	304,649	48.14	328,185	51.9	632,833	100	90,781	57.5	67,099	42.5	157,879	100
Kigoma Urban	21,822	48.21	23,443	51.8	45,264	100	4,225	61.9	2,605	38.1	6,830	100
Total	**1,018,582**	**47.98**	**1,104,346**	**52.0**	**2,122,928**	**100**	**267,007**	**59.6**	**181,283**	**40.4**	**448,291**	**100**

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

District	Yes						No					
	Male		Female		Total		Male		Female		Total	
Kibondo	42,945	87	6,535	13	49,480	100	18,858	74	6,535	26	25,394	100
Kasulu	46,931	91	4,459	9	51,390	100	26,969	78	7,432	22	34,402	100
Kigoma Rural	30,260	89	3,801	11	34,061	100	20,904	84	4,093	16	24,998	100
Kigoma Urban	2,373	79	637	21	3,010	100	1,100	83	232	17	1,331	100
Total	**122,509**	**89**	**15,432**	**11**	**137,941**	**100**	**67,832**	**79**	**18,292**	**21**	**86,124**	**100**

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

District	Don't know						Total					
	Male		Female		Total		Male		Female		Total	
Kibondo	560	75	187	25	747	100	62,364	82	13,257	18	75,620	100
Kasulu	212	100	0	0	212	100	74,112	86	11,892	14	86,004	100
Kigoma Rural	146	100	0	0	146	100	51,311	87	7,894	13	59,205	100
Kigoma Urban	0	0	0	0	0	0	3,473	80	868	20	4,341	100
Total	**919**	**83**	**187**	**17**	**1,105**	**100**	**191,260**	**85**	**33,911**	**15**	**225,171**	**100**

3.7 Number of Household Members Who can Read and Write Languages by Type of Language and District

District	Swahili		English		Swahili & English		Any Other Language		Don't Read / Write		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%		%
Kibondo	210,617	67	5,788	2	11,763	4	0	0	87,384	28	315,552	100
Kasulu	282,221	69	4,247	1	21,660	5	212	0	101,931	25	410,272	100
Kigoma Rural	225,855	67	2,778	1	24,120	7	146	0	83,910	25	336,809	100
Kigoma Urban	18,407	75	232	1	2,547	10	0	0	3,357	14	24,542	100
Total	**737,100**	**68**	**13,044**	**1**	**60,091**	**6**	**359**	**0**	**276,582**	**25**	**1,087,176**	**100**

3.8 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	%
Kibondo	49,667	90	5,415	10	55,082	100	1,120	100	0	0	1,120	100
Kasulu	55,850	92	4,884	8	60,734	100	1,911	82	425	18	2,336	100
Kigoma Rural	38,447	92	3,508	8	41,955	100	2,193	88	292	12	2,485	100
Kigoma Urban	2,547	88	347	12	2,894	100	174	100	0	0	174	100
Total	**146,510**	**91**	**14,155**	**9**	**160,665**	**100**	**5,398**	**88**	**717**	**12**	**6,115**	**100**

Cont. 3.8 Number of Heads of Agricultural Households By Status of writing and reading Languages, sex of head and District, 2007/08 Agricultural Year

Region	Any Other Language						Total					
	Male	%	Female	%	Total	%	Male	%	Female	%	Total	%
Kibondo	9,709	56	7,655	44	17,365	100	62,364	82	13,257	18	75,620	100
Kasulu	15,077	70	6,583	30	21,660	100	74,112	86	11,892	14	86,004	100
Kigoma Rural	10,233	73	3,801	27	14,034	100	51,311	87	7,894	13	59,205	100
Kigoma Urban	637	55	521	45	1,158	100	3,473	80	868	20	4,341	100
Total	**35,656**	**66**	**18,560**	**34**	**54,216**	**100**	**191,260**	**85**	**33,911**	**15**	**225,171**	**100**

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

District	Male						Female					
	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	%
Kibondo	52,654	84	9,709	16	62,364	100	5,602	42	7,655	58	13,257	100
Kasulu	59,035	80	15,077	20	74,112	100	5,309	45	6,583	55	11,892	100
Kigoma Rural	41,078	80	10,233	20	51,311	100	4,093	52	3,801	48	7,894	100
Kigoma Urban	2,836	82	637	18	3,473	100	347	40	521	60	868	100
Total	**155,603**	**81**	**35,656**	**19**	**191,260**	**100**	**15,351**	**45**	**18,560**	**55**	**33,911**	**100**

Cont. 3.9 Number of Heads of Agricultural Households Reporting Literacy Levels by Sex of Head and District, 2007/08 Agricultural Year

District	Total					
	Can Read and Write		Can not Read and Write		Total	
	Number	%	Number	%	Number	%
Kibondo	58,256	77	17,365	23	75,620	100
Kasulu	64,344	75	21,660	25	86,004	100
Kigoma Rural	45,171	76	14,034	*24*	59,205	100
Kigoma Urban	3,184	73	1,158	27	4,341	100
Total	**170,954**	**76**	**54,216**	**24**	**225,171**	**100**

3.10 Number of Household Members by Education Status and District

District	Attending School	%	Completed	%	Never Attended to School	%	Total
Kibondo	1,120	39	56,389	40	18,112	21	75,620
Kasulu	849	38	62,857	48	22,297	15	86,004
Kigoma Rural	731	38	44,586	40	13,888	22	59,205
Kigoma Urban	58	34	3,126	39	1,158	27	4,341
Total	2,759	35	166,958	38	55,454	27	225,171

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

District	Attending School				Completed					
	Male		Total		Male		Female		Total	
Kibondo	1,120	100	1,120	100	50,787	90	5,602	10	56,389	100
Kasulu	849	100	849	100	57,973	92	4,884	8	62,857	100
Kigoma Rural	731	100	731	100	40,493	91	4,093	9	44,586	100
Kigoma Urban	58	100	58	100	2,778	89	347	11	3,126	100
Total	2,759	100	2,759	100	152,032	91	14,926	9	166,958	100

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

District	Never Attended to School						Total					
	Male		Female		Total		Male		Female		Total	
Kibondo	1,120	58	7,655	42	18,112	100	62,364	82	13,257	18	75,620	100
Kasulu	849	69	7,008	31	22,297	100	74,112	86	11,892	14	86,004	100
Kigoma Rural	731	73	3,801	27	13,888	100	51,311	87	7,894	13	59,205	100
Kigoma Urban	58	55	521	45	1,158	100	3,473	80	868	20	4,341	100
Total	2,759	66	18,985	34	55,454	100	191,260	85	33,911	15	225,171	100

3.13 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		Cannot Read and Write		Total		Can Read and Write		Cannot Read and Write		Total		Can Read and Write		Cannot Read and Write		Total	
	Males	%	Number	%	Number	%	Females	%	Number	%	Number	%	Number	%	Number	%	Number	%
Kibondo	52,654	84	9,709	16	62,364	100	5,602	42	7,655	58	13,257	100	58,256	77	17,365	23	75,620	100
Kasulu	59,035	80	15,077	20	74,112	100	5,309	45	6,583	55	11,892	100	64,344	75	21,660	25	86,004	100
Kigoma Rural	41,078	80	10,233	20	51,311	100	4,093	52	3,801	48	7,894	100	45,171	76	14,034	24	59,205	100
Kigoma Urban	2,836	82	637	18	3,473	100	347	40	521	60	868	100	3,184	73	1,158	27	4,341	100
Total	**155,603**	**81.4**	**35,656**	**19**	**191,260**	**100**	**15,351**	**45.3**	**18,560**	**55**	**33,911**	**100**	**170,954**	**76**	**54,216**	**24**	**225,171**	**100**

3.14 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		Cannot Read and Write		Total		Can Read and Write		Can not Read and Write		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Kibondo	52,654	84	9,709	16	62,364	100	5,602	42	7,655	58	13,257	100	58,256	77	17,365	23	75,620	100
Kasulu	59,035	80	15,077	20	74,112	100	5,309	45	6,583	55	11,892	100	64,344	75	21,660	25	86,004	100
Kigoma Rural	41,078	80	10,233	20	51,311	100	4,093	52	3,801	48	7,894	100	45,171	76	14,034	24	59,205	100
Kigoma Urban	2,836	82	637	18	3,473	100	347	40	521	60	868	100	3,184	73	1,158	27	4,341	100
Total	**155,603**	**81**	**35,656**	**19**	**191,260**	**100**	**15,351**	**45**	**18,560**	**55**	**33,911**	**100**	**170,954**	**76**	**54,216**	**24**	**225,171**	**100**

3.15 Number of Agricultural Household Members reporting Literacy Levels by Sex of Member and District, 2007/08 Agricultural Year

District	Total					
	Can Read and Write		Can not Read and Write		Total	
	Number	%	Number	%	Number	%
Kibondo	58,256	77	17,365	23	75,620	100
Kasulu	64,344	75	21,660	25	86,004	100
Kigoma Rural	45,171	76	14,034	24	59,205	100
Kigoma Urban	3,184	73	1,158	27	4,341	100
Total	**170,954**	**76**	**54,216**	**24**	**225,171**	**100**

3.16 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	%
Kibondo	0	0	1,494	1	1,494	1	2,614	2	6,348	5	1,867	1
Kasulu	212	0	425	0	2,336	1	4,672	3	14,865	9	2,336	1
Kigoma Rural	146	0	1,316	1	1,608	1	2,631	2	9,210	7	5,701	4
Kigoma Urban	0	0	116	1	0	0	0	0	174	1	0	0
Total	**359**	**0**	3,350	1	5,438	1	9,917	2	30,597	7	9,904	2

cont 3.16 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	%
Kibondo	1,867	1	116,698	85	187	0	373	0	187	0	187	0
Kasulu	3,398	2	129,537	78	0	0	637	0	0	0	637	0
Kigoma Rural	2,631	2	95,459	74	1,023	1	731	1	439	0	292	0
Kigoma Urban	174	1	11,171	91	0	0	0	0	0	0	0	0
Total	**8,070**	**2**	**352,865**	**80**	**1,210**	**0**	**1,741**	**0**	**625**	**0**	**1,116**	**0**

cont 3.16 Number of Agricultural Household Members By Level of Formal Education Completion and District, 2007/08 Agricultural Year

District	Education Level											
	Form Two		Form Three		Form Four		Form Five		Form Six		Training After Secondary Education	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Kibondo	373	0	187	0	1,680	1	0	0	187	0	0	0
Kasulu	849	1	212	0	2,124	1	0	0	0	0	637	0
Kigoma Rural	1,462	1	292	0	4,239	3	146	0	0	0	146	0
Kigoma Urban	58	0	58	0	289	2	0	0	0	0	0	0
Total	**2,743**	**1**	**749**	**0**	**8,333**	**2**	**146**	**0**	**187**	**0**	**783**	**0**

3.17 Number of Agricultural Household Members 5 Years and above By School Attendancy and District, 2007/08 Agricultural Year

District	School Attendance							
	Attending School		Completed		Never Attended to School		Total	
	Number	%	Number	%	Number	%	Number	%
Kibondo	104,375	26	136,864	31	74,313	30	315,552	29
Kasulu	151,622	38	165,638	37	93,012	38	410,272	38
Kigoma Rural	134,636	34	128,935	29	73,239	30	336,809	31
Kigoma Urban	9,088	2	12,213	3	3,241	1	24,542	2
Total	**399,721**	**100**	**443,650**	**100**	**243,805**	**100**	**1,087,176**	**100**

3.18 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	%
Kibondo	163,938	52	5,975	2	37,157	12	108,483	34	315,552	100
Kasulu	200,464	49	11,467	3	59,035	14	139,306	34	410,272	100
Kigoma Rural	139,899	42	12,280	4	61,251	18	123,380	37	336,809	100
Kigoma Urban	12,908	53	868	4	5,209	21	5,557	23	24,542	100
Total	**517,208**	**48**	**30,590**	**3**	**162,653**	**15**	**376,725**	**35**	**1087176**	**100**

3.19 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		Government / Parastatal		Private - NGO / Mission / etc	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Kibondo	164,124	52	934	0	0	0	187	0	1,867	1	3,548	1
Kasulu	207,897	51	2,761	1	0	0	0	0	1,486	0	3,398	1
Kigoma Rural	144,284	43	1,754	1	146	0	5,116	2	1,900	1	7,163	2
Kigoma Urban	13,024	53	695	3	0	0	174	1	174	1	0	0
Total	**529,329**	**49**	**6,143**	**1**	**146**	**0**	**5,477**	**1**	**5,428**	**0**	**14,108**	**1**

Cont. 3.19 Number of Agricultural Household Members By Main Activity and District, 2007/08 Agricultural Year

District	Main Activity											
	Self Employed (Non Farmimg) with Employees		Self Employed (Non Farmimg) without Employees		Unpaid Family Helper (Non Agriculture)		Not Working & Available		Not Working & Unavailable		Housemaker / Housewife	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Kibondo	934	0	2,987	1	560	0	934	0	1,120	0	187	0
Kasulu	425	0	1,062	0	2,124	1	212	0	849	0	637	0
Kigoma Rural	1,754	1	1,754	1	1,023	0	731	0	1,023	0	2,193	1
Kigoma Urban	289	1	0	0	58	0	0	0	0	0	174	1
Total	**3,402**	**0**	**5,803**	**1**	**3,765**	**0**	**1,877**	**0**	**2,993**	**0**	**3,190**	**0**

Cont. 3.19 Number of Agricultural Household Members By Main Activity and District, 2007/08 Agricultural Year

District	Main Activity							
	Student		Unable to Work / Too Old / Retired / Sick / Disabled		Other		Total	
	Number	%	Number	%	Number	%	Number	%
Kibondo	100,641	32	37,343	12	187	0	315,552	100
Kasulu	147,375	36	41,834	10	212	0	410,272	100
Kigoma Rural	132,882	39	34,792	10	292	0	336,809	100
Kigoma Urban	8,625	35	1,331	5	0	0	24,542	100
Total	**389,522**	**36**	**115,301**	**11**	**691**	**0**	**1087176**	**100**

LAND ACCESS /OWNERSHIP

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	%	
Kibondo	4,294	4.6	69,459	74.5	13,070	14.0	1,494	1.6	3,734	4.0	373	0.4	747	0.8	93,172
Kasulu	4,884	4.0	77,510	62.8	21,236	17.2	2,336	1.9	12,741	10.3	0	0.0	4,672	3.8	123,379
Kigoma Rural	5,116	6.8	49,410	65.6	12,280	16.3	3,362	4.5	4,532	6.0	292	0.4	292	0.4	75,285
Kigoma Urban	1,910	28.2	2,605	38.5	984	14.5	579	8.5	579	8.5	116	1.7	0	0.0	6,772
Total	**16,205**	**5.4**	**198,984**	**66.6**	**47,569**	**15.9**	**7,771**	**2.6**	**21,586**	**7.2**	**782**	**0.3**	**5,711**	**1.9**	**298,608**

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
Kibondo	4,290	103,677	10,734	756	1,361	151	340	121,309
Kasulu	3,559	96,164	17,969	1,548	6,620	.	2,687	128,546
Kigoma Rural	8,019	112,520	27,802	1,953	3,344	148	266	154,052
Kigoma Urban	1,289	2,347	773	322	363	47	.	5,141
Total	17,158	314,707	57,278	4,579	11,688	346	3,293	409,049

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
Kibondo	44,999	60	30,622	40	75,620
Kasulu	50,541	59	35,463	41	86,004
Kigoma Rural	24,120	41	35,084	59	59,205
Kigoma Urban	3,241	75	1,100	25	4,341
Total	122,902	55	102,269	45	225,171

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
Kibondo	29,315	39	46,306	61	75,620
Kasulu	17,626	20	68,379	80	86,004
Kigoma Rural	17,250	29	41,955	71	59,205
Kigoma Urban	1,331	31	3,010	69	4,341
Total	65,521	29	159,649	71	225,171

4.5 Number of Agriculture Households By Whether Female Members of the Household Own or Have Cusomary 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
Kibondo	11,203	15	64,417	85	75,620
Kasulu	18,900	22	67,105	78	86,004
Kigoma Rural	12,426	21	46,779	79	59,205
Kigoma Urban	521	12	3,820	88	4,341
Total	**43,049**	**19**	**182,121**	**81**	**225,171**

4.6 Area of Land by type of Land Use and District during 2007/08 Agricultural Year

District	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)
Kibondo	55,376	21,499	3,939	208	2,222	438	22,735	378	76	756	2,268	11,415	121,309
Kasulu	39,727	31,573	11,585	3,074	6,586	752	19,391	.	1,070	1,032	258	13,498	128,546
Kigoma Rural	40,269	17,324	13,550	3,140	9,849	399	41,559	5,263	1,835	681	2,826	17,356	154,052
Kigoma Urban	2,702	978	856	1	159	47	152	.	.	35	117	94	5,141
Total	**138,073**	**71,375**	**29,930**	**6,423**	**18,816**	**1,637**	**83,838**	**5,641**	**2,981**	**2,503**	**5,469**	**42,362**	**409,049**

4.7 Number of Agricultural Households By Type of Land Use and District , 2007/08 Agricultural 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
Kibondo	60,683	29,501	11,203	560	2,427	1,120	21,846	560	373	747	3,174	11,016	143,212
Kasulu	54,788	47,568	25,058	6,795	14,653	637	24,421	0	2,973	1,486	425	13,591	192,395
Kigoma Rural	42,394	20,904	17,104	3,947	10,818	292	27,921	2,047	1,608	731	3,070	8,040	138,875
Kigoma Urban	2,836	1,331	1,273	58	405	174	347	0	0	116	463	289	7,293
Total	**160,701**	**99,305**	**54,638**	**11,360**	**28,303**	**2,223**	**74,535**	**2,607**	**4,954**	**3,080**	**7,132**	**32,937**	**481,775**

TOTAL ANNUAL CROP AND VEGETABLE PRODUCTION

5.1 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08

District	Maize				Paddy				Sorghum				Bulrush Millet			
	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Kibondo	69,459	36,868	49,583.69	1.34	2,987	1,134	1,490.56	1.31	17,178	6,059	5,715.23	0.94	0	.	.	.
Kasulu	60,521	24,009	27,166.93	1.13	2,336	666	1,046.49	1.57	2,336	645	604.37	0.94	0	.	.	.
Kigoma Rural	36,985	18,368	20,949.87	1.14	4,093	3,214	3,332.28	1.04	0	.	.	.	0	.	.	.
Kigoma Urban	2,663	1,178	681.63	0.58	116	52	46.31	0.90	0	.	.	.	0	.	.	.
Total	**169,628**	**80,424**	**98,382.12**	**1.22**	**9,532**	**5,065**	**5,915.64**	**1.17**	**19,514**	**6,704**	**6,319.59**	**0.94**	**0**	**.**	**.**	**.**

Cont Table 5.1 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08

District	Finger Millet				CEREALS				Mung Bean				PULSES			
	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Kibondo	1,307	472	370.45	0.78	90,931	44,533	57,159.93	1.28	0	.	.	.	0	.	.	.
Kasulu	637	129	50.97	0.40	65,830	25,449	28,868.75	1.13	212	34	14.86	0.43	212	34	14.86	0.43
Kigoma Rural	0	.	.	.	41,078	21,582	24,282.14	1.13	877	300	247.05	0.82	877	300	247.05	0.82
Kigoma Urban	0	.	.	.	2,778	1,230	727.94	0.59	0	.	.	.	0	.	.	.
Total	**1,944**	**601**	**421.41**	**0.70**	**200,618**	**92,794**	**111,038.76**	**1.20**	**1,089**	**334**	**261.92**	**0.78**	**1,089**	**334**	**261.92**	**0.78**

Cont 5.1 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08

District	Okra				Radish				Bitter Aubergine				Fruits & Vegetables			
	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Kibondo	0	.	.	.	187	76	47.61	0.63	0	.	.	.	187	76	47.61	0.63
Kasulu	0	.	.	.	0	.	.	.	0	.	.	.	0	.	.	.
Kigoma Rural	585	166	119.29	0.72	146	38	7.31	0.19	292	44	295.29	6.65	1,023	249	421.89	1.70
Kigoma Urban	58	2	1.16	0.55	0	.	.	.	116	26	8.10	0.31	174	28	9.26	0.33
Total	**643**	**168**	**120.44**	**0.72**	**333**	**114**	**54.92**	**0.48**	**408**	**70**	**303.40**	**4.32**	**1,384**	**352**	**478.76**	**1.36**

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

District	Maize				Paddy				Sorghum				Bulrush Millet			
	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Kibondo	5,975	3,557	4,271.90	1.20	0	.	.	.	3,734	1,527	1,501.58	0.98	1,120	643	515.34	0.80
Kasulu	20,174	7,975	5,821.11	0.73	212	146	25.48	0.17	212	86	95.56	1.11	0	.	.	.
Kigoma Rural	6,578	2,886	4,215.67	1.46	877	444	327.45	0.74	146	59	17.54	0.30	0	.	.	.
Kigoma Urban	868	328	360.61	1.10	463	123	101.87	0.83	0	.	.	.	0	.	.	.
Total	**33,595**	**14,746**	**14,669.29**	**0.99**	**1,553**	**713**	**454.81**	**0.64**	**4,093**	**1,672**	**1,614.68**	**0.97**	**1,120**	**643**	**515.34**	**0.80**

Cont Table 5.2 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Long Rainy SEASON Agricultural Year 2007/08

District	Finger Millet				Cereals				Mung Bean				Pulses			
	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Kibondo	0	.	.	.	10,830	5,726	6,288.82	1.10	0	.	.	.	0	.	.	.
Kasulu	0	.	.	.	20,599	8,207	5,942.15	0.72	4,884	2,020	885.53	0.44	4,884	2,020	885.53	0.44
Kigoma Rural	0	.	.	.	7,602	3,389	4,560.67	1.35	0	.	.	.	0	.	.	.
Kigoma Urban	0	.	.	.	1,331	451	462.48	1.03	0	.	.	.	0	.	.	.
Total	**0**	**.**	**.**	**.**	**40,361**	**17,774**	**17,254.12**	**0.97**	**4,884**	**2,020**	**885.53**	**0.44**	**4,884**	**2,020**	**885.53**	**0.44**

Cont Table 5.2 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Long Rainy SEASON Agricultural Year 2007/08

District	Okra				Radish				Bitter Aubergine				Fruits & Vegetables			
	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Kibondo	0	.	.	.	0	.	.	.	0	.	.	.	0	.	.	.
Kasulu	0	.	.	.	0	.	.	.	0	.	.	.	0	.	.	.
Kigoma Rural	0	.	.	.	0	.	.	.	292	74	114.02	1.54	292	74	114.02	1.54
Kigoma Urban	0	.	.	.	0	.	.	.	0	.	.	.	0	.	.	.
Total	**0**	**.**	**.**	**.**	**0**	**.**	**.**	**.**	**292**	**74**	**114.02**	**1.54**	**292**	**74**	**114.02**	**1.54**

5.3 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short and Long Rainy SEASON Agricultural Year 2007/08

District	Maize				Paddy				Sorghum				Bulrush Millet			
	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Kibondo	75,434	40,425	53,855.59	1.33	2,987	1,134	1,490.56	1.31	20,912	7,586	7,216.81	0.95	1,120	643	515.34	0.80
Kasulu	80,695	31,984	32,988.04	1.03	2,548	812	1,071.97	1.32	2,548	731	699.93	0.96	0	.	.	.
Kigoma Rural	43,563	21,255	25,165.54	1.18	4,970	3,658	3,659.73	1.00	146	59	17.54	0.30	0	.	.	.
Kigoma Urban	3,531	1,506	1,042.24	0.69	579	175	148.18	0.85	0	.	.	.	0	.	.	.
Total	**203,223**	**95,170**	**113,051.41**	**1.19**	**11,085**	**5,779**	**6,370.45**	**1.10**	**23,607**	**8,376**	**7,934.28**	**0.95**	**1,120**	**643**	**515.34**	**0.80**

Cont Table 5.3 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short and Long Rainy SEASON Agricultural Year 2007/08

District	Finger Millet				CEREALS				Mung Bean				PULSES			
	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Kibondo	1,307	472	370.45	0.78	101,761	50,259	63,448.75	1.26	0	.	.	.	0	.	.	.
Kasulu	637	129	50.97	0.40	86,429	33,656	34,810.90	1.03	5,097	2,054	900.39	0.44	5,097	2,054	900.39	0.44
Kigoma Rural	0	.	.	.	48,679	24,972	28,842.81	1.16	877	300	247.05	0.82	877	300	247.05	0.82
Kigoma Urban	0	.	.	.	4,110	1,681	1,190.42	0.71	0	.	.	.	0	.	.	.
Total	**1,944**	**601**	**421.41**	**0.70**	**240,979**	**110,568**	**128,292.89**	**1.16**	**5,974**	**2,354**	**1,147.44**	**0.49**	**5,974**	**2,354**	**1,147.44**	**0.49**

Cont Table 5.3 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short and Long Rainy SEASON Agricultural Year 2007/08

District	Okra				Radish				Bitter Aubergine				FRUITS & VEGETABLES			
	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Kibondo	0	.	.	.	187	76	47.61	0.63	0	.	.	.	187	76	47.61	0.63
Kasulu	0	.	.	.	0	.	.	.	0	.	.	.	0	.	.	.
Kigoma Rural	585	166	119.29	0.72	146	38	7.31	0.19	585	118	409.32	3.46	1,316	323	535.91	1.66
Kigoma Urban	58	2	1.16	0.55	0	.	.	.	116	26	8.10	0.31	174	28	9.26	0.33
Total	**643**	**168**	**120.44**	**0.72**	**333**	**114**	**54.92**	**0.48**	**701**	**144**	**417.42**	**2.90**	**1,676**	**426**	**592.79**	**1.39**

5.4 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tones) during Short and long Rainy SEASON Agricultural Year 2007/08

District	Cassava			
	Number of household	Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Kibondo	12,697	5,767	9,241	1.6
Kasulu	52,452	19,916	36,013	1.8
Kigoma Rural	44,148	24,862	43,512	1.8
Kigoma Urban	1,968	889	2,488	2.8
Total	111,265	51,434	91,253	1.8

5.5 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 Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)		
Kibondo	70,766	65,261	17,738	9,933	75,194	38.8
Kasulu	63,070	43,236	44,807	24,485	67,721	35.0
Kigoma Rural	45,756	39,066	13,010	8,044	47,110	24.3
Kigoma Urban	3,415	2,819	984	797	3,616	1.9
Total	**183,006**	**150,382**	**76,540**	**43,259**	**193,641**	**100.0**

5.6 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	
Kibondo	70,766	4,855	17,738	57,882	88,504
Kasulu	63,070	22,934	44,807	41,197	107,877
Kigoma Rural	45,756	13,449	13,010	46,194	58,766
Kigoma Urban	3,415	926	984	3,357	4,399
Total	**183,006**	**42,164**	**76,540**	**148,631**	259,546

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

Crop	SHORT RAINY SEASON		LONG RAINY SEASON		SHORT & LONG SEASON	
	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)
Maize	69,459	36,868	5,975	3,557	75,434	40,425
Paddy	2,987	1,134	0	.	2,987	1,134
Sorghum	17,178	6,059	3,734	1,527	20,912	7,586
Bulrush Millet	0	.	1,120	643	1,120	643
Finger Millet	1,307	472	0	.	1,307	472
Wheat	0	.	0	.	0	.
CEREALS		**44,533**		**5,726**		**50,259**
Cassava	0	.	13,070	5,994	13,070	5,994
Sweet Potato	187	38	0	.	187	38
Irish potatoes	0	.	0	.	0	.
Yams	0	.	0	.	0	.
Coco Yam	0	.	0	.	0	.
ROOTS & TUBERS		**38**		5,767		**5,805**
Mung Bean	0	.	0	.	0	.
Beans	47,426	14,049	6,722	1,943	54,148	15,992
Cowpeas	747	219	187	30	934	249
Green gram	187	23	0	.	187	23
Bambaranuts	0	.	187	57	187	57
Field Peas	0	.	0	.	0	.
PULSES		**14,291**		**2,030**		**16,321**
Sunflower	373	125	0	.	373	125
Groundnut	14,377	5,171	5,788	1,928	20,165	7,098
OIL SEEDS & OIL NUTS		**5,295**		**1,928**		**7,223**
Okra	0	.	0	.	0	.
Radish	187	76	0	.	187	76
Bitteer Aubergine	0	.	0	.	0	.
Onion	0	.	187	8	187	8
Cabbage	187	19	187	8	373	26
Tomatoes	934	83	187	8	1,120	91
Chillies	0	.	0	.	0	.
Amaranths	187	19	0	.	187	19
Pumpkins	0	.	0	.	0	.
Cucumber	0	.	0	.	0	.
Water Mellon	0	.	0	.	0	.
FRUITS & VEGETABLES		**197**		**23**		**219**
Cotton	373	378	0	.	373	378
Tobacco	1,120	529	0	.	1,120	529
CASH CROPS		**907**		**.**		**907**
Total		**65,261**		**15,474**		**80,743**

5.8 Number of Agriculture Households by Area Planted (ha) and crop for the agriculture year 2007/08 Short and Long Season - Kasulu

Crop	SHORT RAINY SEASON		LONG RAINY SEASON		SHORT & LONG SEASON	
	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)
Maize	60,521	24,009	20,174	7,975	80,695	31,984
Paddy	2,336	666	212	146	2,548	812
Sorghum	2,336	645	212	86	2,548	731
Bulrush Millet	0	.	0	.	0	.
Finger Millet	637	129	0	.	637	129
Wheat	425	86	0	.	425	86
CEREALS		**25,535**		**8,207**		**33,742**
Cassava	0	.	52,664	19,951	52,664	19,951
Sweet Potato	4,884	480	2,336	315	7,220	794
Irish potatoes	212	21	0	.	212	21
Yams	212	7	0	.	212	7
Coco Yam	212	21	212	21	425	43
ROOTS & TUBERS		**530**		20,252		20,781
Mung Bean	212	34	4,884	2,020	5,097	2,054
Beans	53,726	15,299	35,251	12,925	88,977	28,224
Cowpeas	0	.	0	.	0	.
Green gram	0	.	212	86	212	86
Bambaranuts	0	.	0	.	0	.
Field Peas	0	.	0	.	0	.
PULSES		**15,333**		**15,031**		**30,364**
Sunflower	0	.	425	86	425	86
Groundnut	9,344	1,709	4,035	763	13,378	2,473
OIL SEEDS & OIL NUTS		**1,709**		**849**		**2,559**
Okra	0	.	0	.	0	.
Radish	0	.	0	.	0	.
Bitteer Aubergine	0	.	0	.	0	.
Onion	0	.	0	.	0	.
Cabbage	0	.	0	.	0	.
Tomatoes	637	116	0	.	637	116
Chillies	0	.	0	.	0	.
Amaranths	212	13	0	.	212	13
Pumpkins	0	.	212	26	212	26
Cucumber	0	.	0	.	0	.
Water Mellon	0	.	0	.	0	.
FRUITS & VEGETABLES		**129**		**26**		**155**
Cotton	0	.	0	.	0	.
Tobacco	0	.	0	.	0	.
CASH CROPS		**.**		**.**		**.**
Total		**43,236**		**44,365**		**87,601**

5.9 Number of Agriculture Households by Area Planted (ha) and crop for the Agriculture Year 2007/08 Short and Long Season - Kigoma Rural

Crop	SHORT RAINY SEASON		LONG RAINY SEASON		SHORT & LONG SEASON	
	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)
Maize	36,985	18,368	6,578	2,886	43,563	21,255
Paddy	4,093	3,214	877	444	4,970	3,658
Sorghum	0	.	146	59	146	59
Bulrush Millet	0	.	0	.	0	.
Finger Millet	0	.	0	.	0	.
Wheat	0	.	0	.	0	.
CEREALS		**21,582**		**3,389**		**24,972**
Cassava			44,440	25,004	44,440	25,004
Sweet Potato	3,508	793	1,754	666	5,263	1,459
Irish potatoes	146	18	0	.	146	18
Yams	0	.	0	.	0	.
Coco Yam	439	104	0	.	439	104
ROOTS & TUBERS		**915**		**25,528**		**26,443**
Mung Bean	877	300	0	.	877	300
Beans	26,898	9,871	9,063	3,637	35,961	13,508
Cowpeas	731	57	0	.	731	57
Green gram	0	.	0	.	0	.
Bambaranuts	439	59	0	.	439	59
Field Peas	146	44	146	6	292	50
PULSES		**10,332**		**3,643**		**13,975**
Sunflower	0	.	0	.	0	.
Groundnut	9,210	3,784	146	89	9,356	3,872
OIL SEEDS & OIL NUTS		**3,784**		**89**		**3,872**
Okra	585	166	0	.	585	166
Radish	146	38	0	.	146	38
Bitteer Aubergine	292	44	292	74	585	118
Onion	0	.	146	3	146	3
Cabbage	146	15	146	30	292	44
Tomatoes	1,169	473	731	151	1,900	624
Chillies	0	.	0	.	0	.
Amaranths	292	96	0	.	292	96
Pumpkins	0	.	0	.	0	.
Cucumber	0	.	0	.	0	.
Water Mellon	146	59	0	.	146	59
FRUITS & VEGETABLES		**892**		**257**		**1,149**
Cotton	0	.	0	.	0	.
Tobacco	1,900	1,420	0	.	1,900	1,420
CASH CROPS		**1,420**		**.**		**1,420**
Total		**38,925**		**32,906**		**71,831**

5.10 Number of Agriculture Households by Area Planted (ha) and Crop for the Agriculture Year 2007/08 Short and Long Season - Kigoma Urban

Crop	SHORT RAINY SEASON		LONG RAINY SEASON		SHORT & LONG SEASON	
	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)
Maize	2,663	1,178	868	328	3,531	1,506
Paddy	116	52	463	123	579	175
Sorghum	0	.	0	.	0	.
Bulrush Millet	0	.	0	.	0	.
Finger Millet	0	.	0	.	0	.
Wheat	0	.	0	.	0	.
CEREALS		**1,230**		**451**		**1,681**
Cassava			2,026	893	2,026	893
Sweet Potato	926	148	463	88	1,389	236
Irish potatoes	0	.	0	.	0	.
Yams	58	1	0	.	58	1
Coco Yam	58	4	0	.	58	4
ROOTS & TUBERS		**153**		977		1130
Mung Bean	0	.	0	.	0	.
Beans	2,952	829	810	223	3,762	1,052
Cowpeas	695	165	58	12	752	177
Green gram	0	.	0	.	0	.
Bambaranuts	0	.	0	.	0	.
Field Peas	58	5	0	.	58	5
PULSES		**999**		**234**		**1,233**
Sunflower	0	.	0	.	0	.
Groundnut	232	81	0	.	232	81
OIL SEEDS & OIL NUTS		**81**		**.**		**81**
Okra	58	2	0	.	58	2
Radish	0	.	0	.	0	.
Bitteer Aubergine	116	26	0	.	116	26
Onion	0	.	0	.	0	.
Cabbage	116	11	0	.	116	11
Tomatoes	752	192	58	23	810	216
Chillies	174	46	0	.	174	46
Amaranths	58	3	0	.	58	3
Pumpkins	0	.	0	.	0	.
Cucumber	116	18	0	.	116	18
Water Mellon	289	54	0	.	289	54
FRUITS & VEGETABLES		**352**		**23**		**375**
Cotton	0	.	0	.	0	.
Tobacco	0	.	0	.	0	.
CASH CROPS		**.**		**.**		**.**
Total		**2,815**		**1,685**		**4,500**

5.11 Area planted (ha) and Quantity Harvested by Season and Crop for the 2007/08 Agriculture Year - Kibondo District

	SHORT RAINY SEASON			LONG RAINY SEASON			SHORT & LONG RAINY SEASON		
Crop	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	36,868	49,584	1.34	3,557	4,272	1.20	40,425	53,856	1.33
Paddy	1,134	1,491	1.31	.	.	.	1,134	1,491	1.31
Sorghum	6,059	5,715	0.94	1,527	1,502	0.98	7,586	7,217	0.95
Bulrush Millet	.	.	.	643	515	0.80	643	515	0.80
Finger Millet	472	370	0.78	.	.	.	472	370	0.78
Wheat	.	.	.	.	.	.	.	.	.
CEREALS	**44,533**	**57,160**	**1.28**	**5,726**	**6,289**	**1.10**	**50,259**	**63,449**	**1.26**
Cassava	.	.	.	5,994	9,493	1.6	5,767	9,241	1.6
Sweet Potato	38	19	0.49	.	.	.	38	19	0.49
Irish potatoes	.	.	.	.	.	.	.	.	.
Yams	.	.	.	.	.	.	.	.	.
Coco Yam	.	.	.	.	.	.	.	.	.
ROOTS & TUBERS	**38**	**19**	**0.49**	**227**	**252**	**1.11**	**265**	**271**	**1.02**
Mung Bean	.	.	.	.	.	.	.	.	.
Beans	14,049	8,777	0.62	1,943	1,425	0.73	15,992	10,202	0.64
Cowpeas	219	111	0.51	30	9	0.31	249	120	0.48
Green gram	23	56	2.47	.	.	.	23	56	2.47
Bambaranuts	.	.	.	57	60	1.07	57	60	1.07
Field Peas	.	.	.	.	.	.	.	.	.
PULSES	**14,291**	**8,945**	**0.63**	**2,030**	**1,494**	**0.74**	**16,321**	**10,439**	**0.64**
Sunflower	125	203	1.63	.	.	.	125	203	1.63
Groundnut	5,171	4,572	0.88	1,928	1,237	0.64	7,098	5,809	0.82
OIL SEEDS & OIL NUTS	**5,295**	**4,775**	**0.90**	**1,928**	**1,237**	**0.64**	**7,223**	**6,012**	**0.83**
Okra	.	.	.	.	.	.	.	.	.
Radish	76	48	0.63	.	.	.	76	48	0.63
Bitteer Aubergine	.	.	.	.	.	.	.	.	.
Onion	.	.	.	8	52	6.92	8	52	6.92
Cabbage	19	11	0.59	8	224	29.64	26	235	8.89
Tomatoes	83	1,123	13.50	8	336	44.46	91	1,459	16.08
Chillies	.	.	.	.	.	.	.	.	.
Amaranths	19	37	1.98	.	.	.	19	37	1.98
Pumpkins	.	.	.	.	.	.	.	.	.
Cucumber	.	.	.	.	.	.	.	.	.
Water Mellon	.	.	.	.	.	.	.	.	.
FRUITS & VEGETABLES	**197**	**1,219**	**6.20**	**23**	**612**	**27.01**	**219**	**1,832**	**8.35**
Cotton	378	149	0.40	.	.	.	378	149	0.40
Tobacco	529	313	0.59	.	.	.	529	313	0.59
CASH CROPS	**907**	**463**	**0.51**	**.**	**.**	**.**	**907**	**463**	**0.51**
Total	**65,261**	**72,580**	**1.11**	**9,933**	**9,885**	**1.00**	**75,194**	**82,465**	**1.10**

5.12 Area planted (ha) and Quantity Harvested by Season and Crop for the 2007/08 Agriculture Year - Kasulu District

	SHORT RAINY SEASON			LONG RAINY SEASON			SHORT & LONG RAINY SEASON		
Crop	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	24,009	27,167	1.13	7,975	5,821	0.73	31,984	32,988	1.03
Paddy	666	1,046	1.57	146	25	0.17	812	1,072	1.32
Sorghum	645	604	0.94	86	96	1.11	731	700	0.96
Bulrush Millet	.	.	.	.	.	.	.	.	.
Finger Millet	129	51	0.40	.	.	.	129	51	0.40
Wheat	86	66	0.77	.	.	.	86	66	0.77
CEREALS	**25,535**	**28,935**	**1.13**	**8,207**	**5,942**	**0.72**	**33,742**	**34,877**	**1.03**
Cassava	.	.	.	19,951	35,954	1.8	19,951	35,954	1.8
Sweet Potato	480	821	1.71	315	1,494	4.75	794	2,314	2.91
Irish potatoes	21	183	8.50	.	.	.	21	183	8.50
Yams	7	19	2.78	.	.	.	7	19	2.78
Coco Yam	21	25	1.19	21	6	0.30	43	32	0.74
ROOTS & TUBERS	**530**	**1,048**	**1.98**	**371**	**1,510**	**4.07**	**901**	**2,558**	**2.84**
Mung Bean	34	15	0.43	2,020	886	0.44	2,054	900	0.44
Beans	15,299	9,158	0.60	12,925	9,356	0.72	28,224	18,514	0.66
Cowpeas	.	.	.	.	.	.	.	.	.
Green gram	.	.	.	86	51	0.59	86	51	0.59
Bambaranuts	.	.	.	.	.	.	.	.	.
Field Peas	.	.	.	.	.	.	.	.	.
PULSES	**15,333**	**9,173**	**0.60**	**15,031**	**10,292**	**0.68**	**30,364**	**19,465**	**0.64**
Sunflower	.	.	.	86	62	0.72	86	62	0.72
Groundnut	1,709	1,105	0.65	763	707	0.93	2,473	1,812	0.73
OIL SEEDS & OIL NUTS	**1,709**	**1,105**	**0.65**	**849**	**768**	**0.90**	**2,559**	**1,874**	**0.73**
Okra	.	.	.	.	.	.	.	.	.
Radish	.	.	.	.	.	.	.	.	.
Bitteer Aubergine	.	.	.	.	.	.	.	.	.
Onion	.	.	.	.	.	.	.	.	.
Cabbage	.	.	.	.	.	.	.	.	.
Tomatoes	116	1,253	10.79	.	.	.	116	1,253	10.79
Chillies	.	.	.	.	.	.	.	.	.
Amaranths	13	11	0.82	.	.	.	13	11	0.82
Pumpkins	.	.	.	26	42	1.65	26	42	1.65
Cucumber	.	.	.	.	.	.	.	.	.
Water Mellon	.	.	.	.	.	.	.	.	.
FRUITS & VEGETABLES	**129**	**1,264**	**9.80**	**26**	**42**	**1.65**	**155**	**1,306**	**8.44**
Cotton	.	.	.	.	.	.	.	.	.
Tobacco	.	.	.	.	.	.	.	.	.
CASH CROPS	**.**	**.**	**.**	**.**	**.**	**.**	**.**	**.**	**.**
Total	**43,236**	**41,525**	**0.96**	**24,485**	**18,555**	**0.76**	**67,721**	**60,080**	**0.89**

5.13 Area planted (ha) and Quantity Harvested by Season and Crop for the 2007/08 agriculture year - Kigoma Rural

	SHORT RAINY SEASON			LONG RAINY SEASON			SHORT & LONG RAINY SEASON		
Crop	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	18,368	20,950	1.14	2,886	4,216	1.46	21,255	25,166	1.18
Paddy	3,214	3,332	1.04	444	327	0.74	3,658	3,660	1.00
Sorghum	.	.	.	59	18	0.30	59	18	0.30
Bulrush Millet	.	.	.	.	.	.	.	.	.
Finger Millet	.	.	.	.	.	.	.	.	.
Wheat	.	.	.	.	.	.	.	.	.
CEREALS	**21,582**	**24,282**	**1.13**	**3,389**	**4,561**	**1.35**	**24,972**	**28,843**	**1.16**
Cassava	793	940	1.19	25,004	43,466	1.7	25,004	43,466	1.7
Sweet Potato				666	1,103	1.66	1,459	2,043	1.40
Irish potatoes	18	9	0.53	.	.	.	18	9	0.53
Yams	.	.	.	.	.	.	.	.	.
Coco Yam	104	91	0.88	.	.	.	104	91	0.88
ROOTS & TUBERS	**1,056**	**1,095**	**1.04**	**666**	**1,103**	**1.66**	**1,722**	**2,198**	**1.28**
Mung Bean	300	247	0.82	.	.	.	300	247	0.82
Beans	9,871	7,208	0.73	3,637	2,112	0.58	13,508	9,320	0.69
Cowpeas	57	34	0.60	.	.	.	57	34	0.60
Green gram	.	.	.	.	.	.	.	.	.
Bambaranuts	59	58	0.99	.	.	.	59	58	0.99
Field Peas	44	1	0.03	6	9	1.48	50	10	0.20
PULSES	**10,332**	**7,549**	**0.73**	**3,643**	**2,121**	**0.58**	**13,975**	**9,670**	**0.69**
Sunflower	.	.	.	.	.	.	.	.	.
Groundnut	3,784	2,140	0.57	89	37	0.41	3,872	2,176	0.56
OIL SEEDS & OIL NUTS	**3,784**	**2,140**	**0.57**	**89**	**37**	**0.41**	**3,872**	**2,176**	**0.56**
Okra	166	119	0.72	.	.	.	166	119	0.72
Radish	38	7	0.19	.	.	.	38	7	0.19
Bitteer Aubergine	44	295	6.65	74	114	1.54	118	409	3.46
Onion	.	.	.	3	21	6.97	3	21	6.97
Cabbage	15	146	9.88	30	1,476	49.89	44	1,623	36.56
Tomatoes	473	6,550	13.83	151	5,817	38.54	624	12,367	19.81
Chillies	.	.	.	.	.	.	.	.	.
Amaranths	96	553	5.76	.	.	.	96	553	5.76
Pumpkins	.	.	.	.	.	.	.	.	.
Cucumber	.	.	.	.	.	.	.	.	.
Water Mellon	59	994	16.80	.	.	.	59	994	16.80
FRUITS & VEGETABLES	**892**	**8,665**	**9.71**	**257**	**7,428**	**28.85**	**1,149**	**16,092**	**14.00**
Cotton	.	.	.	.	.	.	.	.	.
Tobacco	1,420	1,674	1.18	.	.	.	1,420	1,674	1.18
CASH CROPS	**1,420**	**1,674**	**1.18**	**.**	**.**	**.**	**1,420**	**1,674**	**1.18**
Total	**39,066**	**45,405**	**1.16**	**8,044**	**15,249**	**1.90**	**47,111**	**60,653**	**1.29**

5.14 Area planted (ha) and Quantity Harvested by Season and Crop for the 2007/08 Agriculture Year - Kigoma Urban

	SHORT RAINY SEASON			LONG RAINY SEASON			SHORT & LONG RAINY SEASON		
Crop	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	1,178	682	0.58	328	361	1.10	1,506	1,042	0.69
Paddy	52	46	0.90	123	102	0.83	175	148	0.85
Sorghum	.	.	.	.	.	.	.	.	.
Bulrush Millet	.	.	.	.	.	.	.	.	.
Finger Millet	.	.	.	.	.	.	.	.	.
Wheat	.	.	.	.	.	.	.	.	.
CEREALS	**1,230**	**728**	**0.59**	**451**	**462**	**1.03**	**1,681**	**1,190**	**0.71**
Cassava				893	2,500	2.8	893	2,500	2.8
Sweet Potato	148	140	0.94	88	125	1.43	236	265	1.12
Irish potatoes	.	.	.	.	.	.	.	.	.
Yams	1	3	3.71	.	.	.	1	3	3.71
Coco Yam	5	8	1.79	.	.	.	5	8	1.79
ROOTS & TUBERS	**158**	**163**	**1.03**	**88**	**125**	**1.43**	**246**	**289**	**1.17**
Mung Bean	.	.	.	.	.	.	.	.	.
Beans	829	500	0.60	223	142	0.64	1,052	642	0.61
Cowpeas	165	69	0.42	12	20	1.75	177	90	0.51
Green gram	.	.	.	.	.	.	.	.	.
Bambaranuts	.	.	.	.	.	.	.	.	.
Field Peas	5	7	1.49	.	.	.	5	7	1.49
PULSES	**999**	**576**	**0.58**	**234**	**162**	**0.69**	**1,233**	**738**	**0.60**
Sunflower	.	.	.	.	.	.	.	.	.
Groundnut	81	35	0.43	.	.	.	81	35	0.43
OIL SEEDS & OIL NUTS	**81**	**35**	**0.43**	**.**	**.**	**.**	**81**	**35**	**0.43**
Okra	2	1	0.55	.	.	.	2	1	0.55
Radish	.	.	.	.	.	.	.	.	.
Bitteer Aubergine	26	8	0.31	.	.	.	26	8	0.31
Onion	.	.	.	.	.	.	.	.	.
Cabbage	11	243	23.05	.	.	.	11	243	23.05
Tomatoes	192	2,553	13.28	23	318	13.59	216	2,871	13.32
Chillies	46	97	2.10	.	.	.	46	97	2.10
Amaranths	3	12	3.80	.	.	.	3	12	3.80
Pumpkins	.	.	.	.	.	.	.	.	.
Cucumber	18	75	4.28	.	.	.	18	75	4.28
Water Mellon	54	411	7.63	.	.	.	54	411	7.63
FRUITS & VEGETABLES	**352**	**3,400**	**9.67**	**23**	**318**	**13.59**	**375**	**3,719**	**9.92**
Cotton	.	.	.	.	.	.	.	.	.
Tobacco	.	.	.	.	.	.	.	.	.
CASH CROPS	**.**	**.**	**.**	**.**	**.**	**.**	**.**	**.**	**.**
Total	**2,819**	**4,902**	**1.74**	**797**	**1,068**	**1.34**	**3,615**	**5,970**	**1.65**

PERMANENT CROPS

6.1 Number of Households Planting Permanent Crops by District, 2007/08 Agriculture Year

District	Have Crops/Fruit Trees		Does Not Have Crops/Fruit Trees		Total	
	Number	%	Number	%	Number	%
Kibondo	21,846	28.9	53,775	71.1	75,620	100
Kasulu	60,309	70.1	25,695	29.9	86,004	100
Kigoma Rural	47,949	81.0	11,256	19.0	59,205	100
Kigoma Urban	2,720	62.7	1,621	37.3	4,341	100
Total	**132,824**	**59.0**	**92,347**	**41.0**	**225,171**	**100**

6.2 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	
Kibondo	17,738	6,729	6,909	2,041	21,846	8,770	7,396
Kasulu	48,630	19,606	23,572	11,939	60,309	31,545	22,643
Kigoma Rural	36,985	26,154	15,934	11,489	47,949	37,643	30,193
Kigoma Urban	1,273	854	1,505	490	2,720	1,343	1,239
Total	**104,626**	**53,343**	**47,919**	**25,959**	**132,824**	**79,302**	**61,470**

6.3 Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop - KIBONDO

Crop	Number of Households	Area Planted (ha)	Area Harvested (ha)	Quantity hH(tonnes)	Quantity Harvested (kgs)	Yield (tonnes/ha)	Yield (Kg/ha)
Banana	11,390	2,792	2,408	22,398	2,239,841	9	930.29
Coffee	.	.	.	.	.	.	.
Mango	.	.	.	.	.	.	.
Pigeon pea	187	15	15	8	840	1	57.15
Coconut	.	.	.	.	.	.	.
Orange	.	.	.	.	.	.	.
Sugar Cane	.	.	.	.	.	.	.
Palm Oil	.	.	.	.	.	.	.
Other	13,070	5,963	4,973	9,241	924,082	2	185.81
Total		**8,770**	**7,396**	**31,648**	**3,164,764**		

6.4 Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop - KASULU

Crop	Number of Households	Area Planted	Area Harvested (ha)	Quantity Harvested (tonnes)	Quantity Harvested (kgs)	Yield (tonnes/ha)	Yield (Kg/ha)
Banana	23,147	5,028	3,410	19,314	1,931,421	5.7	566
Coffee	6,795	2,946	1,484	1,729	172,879	1.2	116
Mango	425	34	21	228	22,828	10.9	1,092
Pigeon pea	9,556	2,014	1,255	502	50,159	.4	40
Coconut	.	.	.	.	.	.	.
Orange	.	.	.	.	.	.	.
Sugar Cane	425	63	63	0	0	.0	
Palm Oil	2,973	1,417	1,333	643	64,344	.5	48
Other	53,301	20,044	15,077	36,134	3,613,409	2.4	240
Total		**31,545**	**22,643**	**58,550**	**5,855,041**		

6.5 Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop- KIGOMA RURAL

Crop	Number of Households	Area	Area Harvested (ha)	Quantity Harvested (tonnes)	Quantity Harvested (kgs)	Yield (tonnes/ha)	Yield (Kg/ha)
Banana	6,724	2,031	1,188	4,965	496,516	4.2	418
Coffee	4,239	1,476	1,199	2,361	236,117	2.0	197
Mango	292	52	46	447	44,732	9.7	972
Pigeon pea	585	74	52	11	1,082	.2	21
Coconut	146	14	14	0	0	.0	
Orange	146	40	0	45	4,488	.0	O
Sugar Cane	146	58	58	22	2,193	.4	38
Palm Oil	11,987	8,785	7,870	5,173	517,260	.7	66
Other	45,463	25,114	19,764	43,686	4,368,640	2.2	221
Total		**37,643**	**30,193**	**56,710**	**5,671,028**		

6.6 Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop- KIGOMA URBAN

Crop	Number of Households	Area	Area Harvested (ha)	Quantity Harvested (tonnes)	Quantity Harvested (kgs)	Yield (tonnes/ha)	Yield (Kg/ha)
Banana	347	57	57	101	10,101	1.8	177
Coffee	.	.	.	.	.	.	.
Mango	58	11	11	116	11,577	10.2	1,016
Pigeon pea	289	45	26	13	1,273	.5	48
Coconut	.	.	.	.	.	.	.
Orange	116	26	26	23	2,315	.9	88
Sugar Cane	.	.	.	.	.	.	.
Palm Oil	15,944	10,512	9,432	6,140	613,960	.7	65
Other	2,084	895	891	2,535	253,452	2.8	285
Total		**11,546**	**10,443**	**8,927**	**892,678**		

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

District	Banana								Pigeon pea							
	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 (tonnes)	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 (tonnes)
	Number of households	Area	Number of households	Area	Number of households	Area			Number of households	Area	Number of households	Area	Number of households	Area		
Kibondo	9,149	2,249	3,734	543	11,390	2,792	2,408	22,398	187	15	0	.	187	15	15	8
Kasulu	7,645	1,707	16,139	3,321	23,147	5,028	3,410	19,314	7,008	1,012	2,973	1,002	9,556	2,014	1,255	502
Kigoma Rural	3,070	1,159	3,801	871	6,724	2,031	1,188	4,965	0	.	585	74	585	74	52	11
Kigoma Urban	116	23	232	34	347	57	57	101	0	.	289	45	289	45	26	13
Total	**19,980**	**5,138**	**23,906**	**4,770**	**41,608**	**9,908**	**7,063**	**46,779**	**7,194**	**1,026**	**3,847**	**1,121**	**10,617**	**2,147**	**1,349**	**534**

Cont 6.7 Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District - Kigoma

District	Mango								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 (tonnes)	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 (tonnes)
	Number of households	Area	Number of households	Area	Number of households	Area			Number of households	Area	Number of households	Area	Number of households	Area		
Kasulu	.	.	425	34	425	34	21	228	425	125	6,371	2,820	6,795	2,946	1,484	1,729
Kigoma Rural	.	.	292	52	292	52	46	447	1,462	659	2,778	817	4,239	1,476	1,199	2,361
Kigoma Urban	.	.	58	11	58	11	**11**	**116**	**.**	**.**	**.**	**.**	**.**		**.**	**.**
Total	**425**	**63**							**1,887**	**784**	**9,148**	**3,637**	**11,035**	**4,422**	**2,683**	**4,090**

Cont 6.7 Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District - Kigoma

District	Palm Oil								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 (tonnes)	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 (tonnes)
	Number of households	Area	Number of households	Area	Number of households	Area			Number of households	Area	Number of households	Area	Number of households	Area		
Kibondo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kasulu	2,761	1,250	212	167	2,973	1,417	1,333	643	0	0	0	0	0	0	0	0
Kigoma Rural	7,017	5,891	5,263	2,895	11,987	8,785	7,870	5,173	146	14	0	.	146	14	14	0
Kigoma Urban	521	115	521	194	984	309	228	324	0	0	0	0	0	0	0	0
Total	**10,298**	**7,255**	**5,996**	**3,256**	**15,944**	**10,512**	**9,432**	**6,140**	146	14	0	.	146	14	14	0

Cont 6.7 Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District - Kigoma

District	Sugar cane								Orange							
	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 (tonnes)	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 (tonnes)
	Number of households	Area	Number of households	Area	Number of households	Area			Number of households	Area	Number of households	Area	Number of households	Area		
Kibondo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kasulu	425	63	0	.	425	63	63	0	0	0	0	0	0	0	0	0
Kigoma Rural	0	.	146	58	146	58	58	22	0	.	146	40	146	40	.	45
Kigoma Urban	0	0	0	0	0	0	0	0	0	.	116	26	116	26	26	23
Total	**425**	**63**	**146**	**58**	**571**	**120**	**120**	**22**	0	.	262	66	262	66	26	68

Cont 6.7 Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District - Kigoma

District	Others							
	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 (tonnes)
	Number of households	Area	Number of households	Area	Number of households	Area		
Kibondo	9,709	4,466	4,481	1,498	13,070	5,963	4,973	9,241
Kasulu	43,321	15,428	12,104	4615.2	53,301	20,044	15,077	36,134
Kigoma Rural	32,745	18431.35	13,595	6,682	45,463	25,114	19,764	43,686
Kigoma Urban	984	705	1,100	190	2,084	895	891	2,535
Total	**86,759**	**39,030**	**31,280**	**12,985**	**113,919**	**52,015**	**40,705**	**91,596**

CROP STORAGE

7.1 Number of Households Storing Crops Season and District

	Short Rainy Season					Long Rainy Season					Short & Long Season				
District	Storing crop	%	Not storing crop	%	Total	Storing crop	%	Not storing crop	%	Total	Storing crop	%	Not storing crop	%	Total
Kibondo	69,832	99	934	1	70,766	16,991	96	747	4	17,738	86,824	98	1,680	2	88,504
Kasulu	63,070	100	0	0	63,070	43,958	98	849	2	44,807	107,027	99	849	1	107,877
Kigoma Rural	42,978	94	2,778	6	45,756	11,841	91	1,169	9	13,010	54,819	93	3,947	7	58,766
Kigoma Urban	2,894	85	521	15	3,415	926	94	58	6	984	3,820	87	579	13	4,399
Total	**178,774**	**98**	**4,232**	**2**	**183,006**	**73,716**	**96**	**2,824**	**4**	**76,540**	**252,491**	**97**	**7,056**	**3**	**259,546**

7.2 Number of households Storing Crops by Method of Storage and Crop Type Short Rainy Season - Kibondo

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Maize	16,058	23.1	373	.5	0	.0	51,721	74.5	187	.3	187	.3	934	1.3	0	.0	69,459	100.0
Paddy	747	25.0	0	.0	0	.0	2,241	75.0	0	.0	0	.0	0	.0	0	.0	2,987	100.0
Sorghum	3,921	22.8	560	3.3	0	.0	9,896	57.6	0	.0	0	.0	2,801	16.3	0	.0	17,178	100.0
Bulrush Millet	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Finger Millet	373	28.6	0	.0	0	.0	560	42.9	0	.0	0	.0	373	28.6	0	.0	1,307	100.0
Wheat	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
CEREALS	**21,099**	**23.2**	**934**	**1.0**	**0**	**.0**	**64,417**	**70.8**	**187**	**.2**	**187**	**.2**	**4,108**	**4.5**	**0**	**.0**	**90,931**	**100.0**
Cassava	0	.0	0	.0	0	.0	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	187	100.0	0	.0	187	100.0
Irish potatoes	0	.0	0	.0	0	.0	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	0	.0	0	.0	0	.0
Coco Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
ROOTS & TUBERS	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**187**	**100.0**	**0**	**.0**	**187**	**100.0**
Mung Bean	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Beans	9,336	19.7	373	.8	0	.0	36,597	77.2	187	.4	0	.0	934	2.0	0	.0	47,426	100.0
Cowpeas	187	25.0	0	.0	0	.0	560	75.0	0	.0	0	.0	0	.0	0	.0	747	100.0
Green gram	0	.0	0	.0	0	.0	187	100.0	0	.0	0	.0	0	.0	0	.0	187	100.0
Bambaranuts	0	.0	0	.0	0	.0	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	0	.0	0	.0	0	.0
PULSES	**9,523**	**19.7**	**373**	**.8**	**0**	**.0**	**37,343**	**77.2**	**187**	**.4**	**0**	**.0**	**934**	**1.9**	**0**	**.0**	**48,360**	**100.0**
Sunflower	0	.0	0	.0	0	.0	373	100.0	0	.0	0	.0	0	.0	0	.0	373	100.0
Groundnut	3,921	27.3	373	2.6	0	.0	8,962	62.3	0	.0	0	.0	1,120	7.8	0	.0	14,377	100.0
OIL SEEDS & OIL NUTS	**3,921**	**26.6**	**373**	**2.5**	**0**	**.0**	**9,336**	**63.3**	**0**	**.0**	**0**	**.0**	**1,120**	**7.6**	**0**	**.0**	**14,751**	**100.0**

Cont'd 7.2 Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season - Kibondo

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Radish	187	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	187	100.0
Bitteer Aubergine	0	.0	0	.0	0	.0	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	0	.0	0	.0	0	.0
Cabbage	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	187	100.0	0	.0	187	100.0
Tomatoes	0	.0	0	.0	0	.0	373	40.0	0	.0	0	.0	373	40.0	187	20.0	934	100.0
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Amaranths	187	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	187	100.0
Pumpkins	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cucumber	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
FRUITS & VEGETABLES	**373**	**25.0**	**0**	**.0**	**0**	**.0**	**373**	**25.0**	**0**	**.0**	**0**	**.0**	**560**	**37.5**	**187**	**12.5**	**1,494**	**100.0**
Cotton	0	.0	187	50.0	0	.0	187	50.0	0	.0	0	.0	0	.0	0	.0	373	100.0
Tobacco	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	1,120	100.0	0	.0	1,120	100.0
CASH CROPS	**0**	**.0**	**187**	**12.5**	**0**	**.0**	**187**	**12.5**	**0**	**.0**	**0**	**.0**	**1,120**	**75.0**	**0**	**.0**	**1,494**	**100.0**
Total	**34,916**	**22.2**	**1,867**	**1.2**	**0**	**.0**	**111,657**	**71.0**	**373**	**.2**	**187**	**.1**	**8,029**	**5.1**	**187**	**.1**	**157,216**	**100.0**

7.3 Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season – Kibondo

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Maize	187	3.1	0	.0	0	.0	5,041	84.4	0	.0	0	.0	747	12.5	0	.0	5,975	100.0
Paddy	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Sorghum	373	10.0	0	.0	0	.0	2,614	70.0	0	.0	0	.0	747	20.0	0	.0	3,734	100.0
Bulrush Millet	373	33.3	0	.0	0	.0	560	50.0	0	.0	0	.0	187	16.7	0	.0	1,120	100.0
Finger Millet	0	.0	0	.0	0	.0	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	0	.0	0	.0	0	.0
CEREALS	**934**	**8.6**	**0**	**.0**	**0**	**.0**	**8,216**	**75.9**	**0**	**.0**	**0**	**.0**	**1,680**	**15.5**	**0**	**.0**	**10,830**	**100.0**
Cassava	0	.0	0	.0	0	.0	373	100.0	0	.0	0	.0	0	.0	0	.0	373	100.0
Sweet Potato	0	.0	0	.0	0	.0	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	0	.0	0	.0	0	.0
Yams	0	.0	0	.0	0	.0	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	0	.0	0	.0	0	.0
ROOTS & TUBERS	**0**	**.0**	**0**	**.0**	**0**	**.0**	**373**	**100.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**373**	**100.0**
Mung Bean	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Beans	560	8.3	0	.0	0	.0	5,975	88.9	0	.0	187	2.8	0	.0	0	.0	6,722	100.0
Cowpeas	0	.0	0	.0	0	.0	187	100.0	0	.0	0	.0	0	.0	0	.0	187	100.0
Green gram	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bambaranuts	0	.0	0	.0	0	.0	187	100.0	0	.0	0	.0	0	.0	0	.0	187	100.0
Field Peas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
PULSES	**560**	**7.9**	**0**	**.0**	**0**	**.0**	**6,348**	**89.5**	**0**	**.0**	**187**	**2.6**	**0**	**.0**	**0**	**.0**	**7,095**	**100.0**
Sunflower	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Groundnut	187	3.2	560	9.7	0	.0	4,481	77.4	0	.0	0	.0	560	9.7	0	.0	5,788	100.0
OIL SEEDS & OIL NUTS	**187**	**3.2**	**560**	**9.7**	**0**	**.0**	**4,481**	**77.4**	**0**	**.0**	**0**	**.0**	**560**	**9.7**	**0**	**.0**	**5,788**	**100.0**

Cont'd 7.3 Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season - Kibondo

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Radish	0	.0	0	.0	0	.0	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	0	.0	0	.0	0	.0
Onion	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	187	100.0	0	.0	187	100.0
Cabbage	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	187	100.0	0	.0	187	100.0
Tomatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	187	100.0	0	.0	187	100.0
Chillies	0	.0	0	.0	0	.0	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	0	.0	0	.0	0	.0
Pumpkins	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cucumber	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
FRUITS & VEGETABLES	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**560**	**100.0**	**0**	**.0**	**560**	**100.0**
Cotton	0	.0	0	.0	0	.0	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	0	.0	0	.0	0	.0
CASH CROPS	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**
Total	**1,680**	**6.8**	**560**	**2.3**	**0**	**.0**	**19,419**	**78.8**	**0**	**.0**	**187**	**.8**	**2,801**	**11.4**	**0**	**.0**	**24,647**	**100.0**

7.4 Number of households Storing Crops by Method of Storage and Crop Type Short Rainy Season – Kasulu

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Maize	26,545	43.9	425	.7	0	.0	32,490	53.7	0	.0	0	.0	1,062	1.8	0	.0	60,521	100.0
Paddy	425	18.2	0	.0	0	.0	1,911	81.8	0	.0	0	.0	0	.0	0	.0	2,336	100.0
Sorghum	1,274	54.5	212	9.1	0	.0	425	18.2	0	.0	0	.0	425	18.2	0	.0	2,336	100.0
Bulrush Millet	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Finger Millet	425	66.7	212	33.3	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	637	100.0
Wheat	0	.0	0	.0	0	.0	425	100.0	0	.0	0	.0	0	.0	0	.0	425	100.0
CEREALS	**28,668**	**43.3**	**849**	**1.3**	**0**	**.0**	**35,251**	**53.2**	**0**	**.0**	**0**	**.0**	**1,486**	**2.2**	**0**	**.0**	**66,255**	**100.0**
Cassava	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Sweet Potato	425	8.7	0	.0	0	.0	425	8.7	0	.0	1,062	21.7	2,973	60.9	0	.0	4,884	100.0
Irish potatoes	212	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	212	100.0
Yams	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	212	100.0	0	.0	212	100.0
Coco Yam	0	.0	0	.0	0	.0	212	100.0	0	.0	0	.0	0	.0	0	.0	212	100.0
ROOTS & TUBERS	**637**	**11.5**	**.**	**.**	**.**	**.**	**637**	**11.5**	**.**	**.**	**1,062**	**19.2**	**3,185**	**57.7**	**.**	**.**	**5,521**	**100.0**
Mung Bean	212	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	212	100.0
Beans	22,722	42.3	212	.4	0	.0	29,730	55.3	0	.0	0	.0	1,062	2.0	0	.0	53,726	100.0
Cowpeas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Green gram	0	.0	0	.0	0	.0	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	0	.0	0	.0	0	.0
Field Peas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
PULSES	**22,934**	**42.5**	**212**	**.4**	**.**	**.**	**29,730**	**55.1**	**.**	**.**	**.**	**.**	**1,062**	**2.0**	**.**	**.**	**53,938**	**100.0**
Sunflower	.	.	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Groundnut	2,124	22.7	0	.0	0	.0	6,795	72.7	0	.0	0	.0	425	4.5	0	.0	9,344	100.0
OIL SEEDS & OIL NUTS	**2,124**	**22.7**	**0**	**.0**	**0**	**.0**	**6,795**	**72.7**	**0**	**.0**	**0**	**.0**	**425**	**4.5**	**0**	**.0**	**9,344**	**100.0**

Cont'd 7.4 Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season - Kasulu

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Radish	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Bitteer Aubergine	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Onion	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Cabbage	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Tomatoes	212	33.3	.	.	.	.	.	.	.	.	.	.	425	66.7	.	.	637	100.0
Chillies	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Amaranths	212	100.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	212	100.0
Pumpkins	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Cucumber	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Water Mellon	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
FRUITS & VEGETABLES	**425**	**50.0**	.	.	.	.	.	.	.	.	.	.	**425**	**50.0**	.	.	**849**	**100.0**
Cotton	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Tobacco	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
CASH CROPS	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Total	**54,788**	**40.3**	**1,062**	**.8**	**0**	**.0**	**72,413**	**53.3**	**0**	**.0**	**1,062**	**.8**	**6,583**	**4.8**	**0**	**.0**	**135,908**	**100.0**

7.5 Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season – Kasulu

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Maize	10,405	51.6	0	.0	0	.0	8,282	41.1	0	.0	425	2.1	1,062	5.3	0	.0	20,174	100.0
Paddy	212	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	212	100.0
Sorghum	0	.0	0	.0	0	.0	212	100.0	0	.0	0	.0	0	.0	0	.0	212	100.0
Bulrush Millet	0	.0	0	.0	0	.0	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	0	.0	0	.0	0	.0
Wheat	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
CEREALS	**10,618**	**51.5**	**0**	**.0**	**0**	**.0**	**8,494**	**41.2**	**0**	**.0**	**425**	**2.1**	**1,062**	**5.2**	**0**	**.0**	**20,599**	**100.0**
Cassava	0	.0	0	.0	0	.0	212	100.0	0	.0	0	.0	0	.0	0	.0	212	100.0
Sweet Potato	849	36.4	.	.	.	.	425	18.2	.	.	.	.	1,062	45.5	.	.	2,336	100.0
Irish potatoes	0	.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Yams	0	.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Coco Yam	212	100.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	212	100.0
ROOTS & TUBERS	**1,062**	**38.5**	**0**	**.0**	**0**	**.0**	**637**	**23.1**	**0**	**.0**	**0**	**.0**	**1,062**	**38.5**	**0**	**.0**	**2,761**	**100.0**
Mung Bean	4,247	87.0	.	.	.	.	.	.	.	.	.	.	637	13.0	.	.	4,884	100.0
Beans	14,653	41.6	.	.	.	.	19,537	55.4	.	.	.	.	1,062	3.0	.	.	35,251	100.0
Cowpeas	0	.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Green gram	0	.0	.	.	.	.	212	100.0	.	.	.	.	.	.	.	.	212	100.0
Bambaranuts	0	.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Field Peas	0	.0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PULSES	**18,900**	**46.8**	**0**	**.0**	**0**	**.0**	**19,749**	**48.9**	**0**	**.0**	**0**	**.0**	**1,699**	**4.2**	**0**	**.0**	**40,348**	**100.0**
Sunflower	212	50.0	.	.	.	.	.	.	.	.	.	.	212	50.0	..	.	425	100.0
Groundnut	2,124	52.6	.	.	.	.	1,911	47.4	.	.	.	.	.	.	.	.	4,035	100.0
OIL SEEDS & OIL NUTS	**2,336**	**52.4**	**0**	**.0**	**0**	**.0**	**1,911**	**42.9**	**0**	**.0**	**0**	**.0**	**212**	**4.8**	**0**	**.0**	**4,459**	**100.0**

Cont'd 7.5 Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season - Kasulu

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Radish	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Bitteer Aubergine	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Onion	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Cabbage	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Tomatoes	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Chillies	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Amaranths	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Pumpkins	.	.	.	.	.	.	212	100.0	.	.	.	.	.	.	.	.	212	100.0
Cucumber	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Water Mellon	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
FRUITS & VEGETABLES	**0**	**.0**	**0**	**.0**	**0**	**.0**	**212**	**100.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**212**	**100.0**
Cotton	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Tobacco	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
CASH CROPS	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**
Total	**32,915**	**48.1**	**0**	**.0**	**0**	**.0**	**31,004**	**45.3**	**0**	**.0**	**425**	**.6**	**4,035**	**5.9**	**0**	**.0**	**68,379**	**100.0**

7.6 Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season - Kigoma Rural

	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
Crop	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Maize	12,426	33.6	585	1.6	292	.8	21,197	57.3	146	.4	146	.4	2,193	5.9	0	.0	36,985	100.0
Paddy	439	10.7	146	3.6	0	.0	3,070	75.0	0	.0	0	.0	439	10.7	0	.0	4,093	100.0
Sorghum	0	.0	0	.0	0	.0	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	0	.0	0	.0	0	.0
Finger Millet	0	.0	0	.0	0	.0	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	0	.0	0	.0	0	.0
CEREALS	**12,864**	**31.3**	**731**	**1.8**	**292**	**.7**	**24,267**	**59.1**	**146**	**.4**	**146**	**.4**	**2,631**	**6.4**	**0**	**.0**	**41,078**	**100.0**
Cassava	146	50.0	0	.0	0	.0	146	50.0	0	.0	0	.0	0	.0	0	.0	292	100.0
Sweet Potato	585	16.7	0	.0	0	.0	731	20.8	0	.0	0	.0	2,193	62.5	0	.0	3,508	100.0
Irish potatoes	0	.0	0	.0	0	.0	146	100.0	0	.0	0	.0	0	.0	0	.0	146	100.0
Yams	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Coco Yam	292	66.7	0	.0	0	.0	0	.0	0	.0	0	.0	146	33.3	0	.0	439	100.0
ROOTS & TUBERS	**1,023**	**23.3**	**0**	**.0**	**0**	**.0**	**1,023**	**23.3**	**0**	**.0**	**0**	**.0**	**2,339**	**53.3**	**0**	**.0**	**4,386**	**100.0**
Mung Bean	146	16.7	0	.0	0	.0	585	66.7	0	.0	0	.0	146	16.7	0	.0	877	100.0
Beans	9,648	35.9	585	2.2	0	.0	15,203	56.5	0	.0	0	.0	1,316	4.9	146	.5	26,898	100.0
Cowpeas	0	.0	0	.0	0	.0	439	60.0	0	.0	0	.0	292	40.0	0	.0	731	100.0
Green gram	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bambaranuts	0	.0	0	.0	0	.0	439	100.0	0	.0	0	.0	0	.0	0	.0	439	100.0
Field Peas	146	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	146	100.0
PULSES	**9,941**	**34.2**	**585**	**2.0**	**0**	**.0**	**16,665**	**57.3**	**0**	**.0**	**0**	**.0**	**1,754**	**6.0**	**146**	**.5**	**29,091**	**100.0**
Sunflower	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Groundnut	2,778	30.2	0	.0	0	.0	5,263	57.1	146	1.6	0	.0	1,023	11.1	0	.0	9,210	100.0
OIL SEEDS & OIL NUTS	**2,778**	**30.2**	**0**	**.0**	**0**	**.0**	**5,263**	**57.1**	**146**	**1.6**	**0**	**.0**	**1,023**	**11.1**	**0**	**.0**	**9,210**	**100.0**

Cont'd 7.6 Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season - Kigoma Rural

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	0	.0	0	.0	0	.0	585	100.0	0	.0	0	.0	0	.0	0	.0	585	100.0
Radish	0	.0	0	.0	0	.0	146	100.0	0	.0	0	.0	0	.0	0	.0	146	100.0
Bitteer Aubergine	146	50.0	0	.0	0	.0	0	.0	0	.0	0	.0	146	50.0	0	.0	292	100.0
Onion	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cabbage	0	.0	0	.0	0	.0	146	100.0	0	.0	0	.0	0	.0	0	.0	146	100.0
Tomatoes	146	12.5	0	.0	0	.0	0	.0	0	.0	0	.0	1,023	87.5	0	.0	1,169	100.0
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Amaranths	146	50.0	0	.0	0	.0	0	.0	0	.0	0	.0	146	50.0	0	.0	292	100.0
Pumpkins	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cucumber	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	146	100.0	0	.0	146	100.0
FRUITS & VEGETABLES	**439**	**15.8**	**0**	**.0**	**0**	**.0**	**877**	**31.6**	**0**	**.0**	**0**	**.0**	**1,462**	**52.6**	**0**	**.0**	**2,778**	**100.0**
Cotton	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Tobacco	0	.0	0	.0	0	.0	292	15.4	0	.0	0	.0	1,608	84.6	0	.0	1,900	100.0
CASH CROPS	**0**	**.0**	**0**	**.0**	**0**	**.0**	**292**	**15.4**	**0**	**.0**	**0**	**.0**	**1,608**	**84.6**	**0**	**.0**	**1,900**	**100.0**
Total	**27,044**	**30.6**	**1,316**	**1.5**	**292**	**.3**	**48,387**	**54.7**	**292**	**.3**	**146**	**.2**	**10,818**	**12.2**	**146**	**.2**	**88,442**	**100.0**

7.7 Number of households Storing Crops by Method of Storage and Crop Type Long Rainy Season - Kigoma Rural

	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
Crop	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Maize	877	13.3	146	2.2	0	.0	5,555	84.4	0	.0	0	.0	0	.0	0	.0	6,578	100.0
Paddy	0	.0	0	.0	0	.0	877	100.0	0	.0	0	.0	0	.0	0	.0	877	100.0
Sorghum	0	.0	0	.0	0	.0	146	100.0	0	.0	0	.0	0	.0	0	.0	146	100.0
Bulrush Millet	0	.0	0	.0	0	.0	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	0	.0	0	.0	0	.0
Wheat	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
CEREALS	**877**	**11.5**	**146**	**1.9**	**0**	**.0**	**6,578**	**86.5**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**7,602**	**100.0**
Cassava	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Sweet Potato	439	25.0	0	.0	0	.0	439	25.0	0	.0	146	8.3	731	41.7	0	.0	1,754	100.0
Irish potatoes	0	.0	0	.0	0	.0	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	0	.0	0	.0	0	.0
Coco Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
ROOTS & TUBERS	**439**	**25.0**	**0**	**.0**	**0**	**.0**	**439**	**25.0**	**0**	**.0**	**146**	**8.3**	**731**	**41.7**	**0**	**.0**	**1,754**	**100.0**
Mung Bean	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Beans	1,462	16.1	0	.0	0	.0	7,017	77.4	0	.0	0	.0	585	6.5	0	.0	9,063	100.0
Cowpeas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Green gram	0	.0	0	.0	0	.0	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	0	.0	0	.0	0	.0
Field Peas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	146	100.0	0	.0	146	100.0
PULSES	**1,462**	**15.9**	**0**	**.0**	**0**	**.0**	**7,017**	**76.2**	**0**	**.0**	**0**	**.0**	**731**	**7.9**	**0**	**.0**	**9,210**	**100.0**
Sunflower	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Groundnut	0	.0	0	.0	0	.0	146	100.0	0	.0	0	.0	0	.0	0	.0	146	100.0
OIL SEEDS & OIL NUTS	**0**	**.0**	**0**	**.0**	**0**	**.0**	**146**	**100.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**146**	**100.0**

Cont'd 7.7 Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season - Kigoma Rural

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Radish	0	.0	0	.0	0	.0	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	292	100.0	0	.0	292	100.0
Onion	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	146	100.0	0	.0	146	100.0
Cabbage	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	146	100.0	0	.0	146	100.0
Tomatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	731	100.0	0	.0	731	100.0
Chillies	0	.0	0	.0	0	.0	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	0	.0	0	.0	0	.0
Pumpkins	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cucumber	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
FRUITS & VEGETABLES	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**1,316**	**100.0**	**0**	**.0**	**1,316**	**100.0**
Cotton	0	.0	0	.0	0	.0	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	0	.0	0	.0	0	.0
CASH CROPS	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**
Total	**2,778**	**13.9**	**146**	**.7**	**0**	**.0**	**14,180**	**70.8**	**0**	**.0**	**146**	**.7**	**2,778**	**13.9**	**0**	**.0**	**20,027**	**100.0**

7.8 Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season - Kigoma Urban

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Maize	232	8.7	463	17.4	58	2.2	752	28.3	0	.0	58	2.2	1,100	41.3	0	.0	2,663	100.0
Paddy	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	116	100.0	0	.0	116	100.0
Sorghum	0	.0	0	.0	0	.0	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	0	.0	0	.0	0	.0
Finger Millet	0	.0	0	.0	0	.0	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	0	.0	0	.0	0	.0
CEREALS	**232**	**8.3**	**463**	**16.7**	**58**	**2.1**	**752**	**27.1**	**0**	**.0**	**58**	**2.1**	**1,216**	**43.8**	**0**	**.0**	**2,778**	**100.0**
Cassava	0	.0	58	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	58	100.0
Sweet Potato	0	.0	0	.0	0	.0	116	12.5	0	.0	58	6.3	752	81.3	0	.0	926	100.0
Irish potatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Yams	0	.0	58	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	58	100.0
Coco Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	58	100.0	0	.0	58	100.0
ROOTS & TUBERS	**0**	**.0**	**116**	**10.5**	**0**	**.0**	**116**	**10.5**	**0**	**.0**	**58**	**5.3**	**810**	**73.7**	**0**	**.0**	**1,100**	**100.0**
Mung Bean	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Beans	232	7.8	405	13.7	58	2.0	1,563	52.9	0	.0	0	.0	695	23.5	0	.0	2,952	100.0
Cowpeas	116	16.7	116	16.7	0	.0	58	8.3	58	8.3	0	.0	347	50.0	0	.0	695	100.0
Green gram	0	.0	0	.0	0	.0	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	0	.0	0	.0	0	.0
Field Peas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	58	100.0	0	.0	58	100.0
PULSES	**347**	**9.4**	**521**	**14.1**	**58**	**1.6**	**1,621**	**43.8**	**58**	**1.6**	**0**	**.0**	**1,100**	**29.7**	**0**	**.0**	**3,705**	**100.0**
Sunflower	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Groundnut	58	25.0	0	.0	0	.0	116	50.0	0	.0	0	.0	58	25.0	0	.0	232	100.0
OIL SEEDS & OIL NUTS	**58**	**25.0**	**0**	**.0**	**0**	**.0**	**116**	**50.0**	**0**	**.0**	**0**	**.0**	**58**	**25.0**	**0**	**.0**	**232**	**100.0**

Cont'd 7.8 Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season - Kigoma Urban

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	58	100.0	0	.0	58	100.0
Radish	0	.0	0	.0	0	.0	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	116	100.0	0	.0	116	100.0
Onion	0	.0	0	.0	0	.0	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	116	100.0	0	.0	116	100.0
Tomatoes	0	.0	0	.0	0	.0	58	7.7	0	.0	0	.0	695	92.3	0	.0	752	100.0
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	174	100.0	0	.0	174	100.0
Amaranths	0	.0	0	.0	0	.0	58	100.0	0	.0	0	.0	0	.0	0	.0	58	100.0
Pumpkins	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cucumber	0	.0	0	.0	0	.0	58	50.0	0	.0	0	.0	58	50.0	0	.0	116	100.0
Water Mellon	0	.0	0	.0	0	.0	58	20.0	0	.0	0	.0	232	80.0	0	.0	289	100.0
FRUITS & VEGETABLES	**0**	**.0**	**0**	**.0**	**0**	**.0**	**232**	**13.8**	**0**	**.0**	**0**	**.0**	**1,447**	**86.2**	**0**	**.0**	**1,679**	**100.0**
Cotton	0	.0	0	.0	0	.0	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	0	.0	0	.0	0	.0
CASH CROPS	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**
Total	**637**	**6.7**	**1,100**	**11.6**	**116**	**1.2**	**2,836**	**29.9**	**58**	**.6**	**116**	**1.2**	**4,631**	**48.8**	**0**	**.0**	**9,493**	**100.0**

7.9 Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season - Kigoma Urban

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Maize	0	.0	0	.0	0	.0	868	100.0	0	.0	0	.0	0	.0	0	.0	868	100.0
Paddy	0	.0	0	.0	0	.0	463	100.0	0	.0	0	.0	0	.0	0	.0	463	100.0
Sorghum	0	.0	0	.0	0	.0	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	0	.0	0	.0	0	.0
Finger Millet	0	.0	0	.0	0	.0	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	0	.0	0	.0	0	.0
CEREALS	**0**	**.0**	**0**	**.0**	**0**	**.0**	**1,331**	**100.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**1,331**	**100.0**
Cassava	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Sweet Potato	0	.0	0	.0	0	.0	58	12.5	0	.0	0	.0	405	87.5	0	.0	463	100.0
Irish potatoes	0	.0	0	.0	0	.0	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	0	.0	0	.0	0	.0
Coco Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
ROOTS & TUBERS	**0**	**.0**	**0**	**.0**	**0**	**.0**	**58**	**12.5**	**0**	**.0**	**0**	**.0**	**405**	**87.5**	**0**	**.0**	**463**	**100.0**
Mung Bean	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Beans	0	.0	0	.0	0	.0	810	100.0	0	.0	0	.0	0	.0	0	.0	810	100.0
Cowpeas	0	.0	0	.0	0	.0	58	100.0	0	.0	0	.0	0	.0	0	.0	58	100.0
Green gram	0	.0	0	.0	0	.0	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	0	.0	0	.0	0	.0
Field Peas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
PULSES	**0**	**.0**	**0**	**.0**	**0**	**.0**	**868**	**100.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**868**	**100.0**
Sunflower	0	.0	0	.0	0	.0	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	0	.0	0	.0	0	.0
OIL SEEDS & OIL NUTS	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**

Cont'd 7.9 Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season - Kigoma Urban

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Radish	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Bitteer Aubergine	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Onion	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Cabbage	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Tomatoes	.	.	.	.	.	.	.	.	.	.	.	.	58	100.0	0	.0	58	100.0
Chillies	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Amaranths	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Pumpkins	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Cucumber	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Water Mellon	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
FRUITS & VEGETABLES	**.**	**.**	**.**	**.**	**.**	**.**	**.**	**.**	**.**	**.**	**.**	**.**	**58**	**100.0**	**.**	**.**	**58**	**100.0**
Cotton	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Tobacco	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
CASH CROPS	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**
Total	**0**	**.0**	**0**	**.0**	**0**	**.0**	**2,257**	**83.0**	**0**	**.0**	**0**	**.0**	**463**	**17.0**	**0**	**.0**	**2,720**	**100.0**

INPUT USE

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

District	Number of Households using Organic Fertilizer	Planted Area with Organic Fertilizer	Number of Households NOT using Improved Fertilizer	Planted Area with no Organic Fertilizer	Total Number of Households	Total Planted Area (ha)
Kibondo	2,427	1,127	68,339	64,134	70,766	65,261
Kasulu	4,884	1,655	58,186	41,582	63,070	43,236
Kigoma Rural	1,316	765	44,440	38,301	45,756	39,066
Kigoma Urban	116	9	3,299	2,810	3,415	2,819
Total	**8,743**	**3,556**	**174,264**	**146,826**	**183,006**	**150,382**

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

District	Number of Households using Organic Fertilizer	Planted Area with Organic Fertilizer	Number of Households NOT using Improved Fertilizer	Planted Area with no Organic Fertilizer	Total Number of Households	Total Planted Area (ha)
Kibondo	0	.	17,738	9,933	17,738	9,933
Kasulu	637	72	44,170	24,413	44,807	24,485
Kigoma Rural	439	148	12,572	7,896	13,010	8,044
Kigoma Urban	0	.	984	797	984	797
Total	**1,076**	**220**	**75,464**	**43,039**	**76,540**	**43,259**

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

District	Number of Households using Inorganic Fertilizer	Planted Area with Inorganic Fertilizer	Number of Households NOT using Improved Fertilizer	Planted Area with no Inorganic Fertilizer	Total Number of Households	Total Planted Area (ha)
Kibondo	70,766	1,827	0	63,435	70,766	65,261
Kasulu	63,070	1,750	0	41,487	63,070	43,236
Kigoma Rural	45,756	2,856	0	36,211	45,756	39,066
Kigoma Urban	3,415	602	0	2,217	3,415	2,819
Total	**183,006**	**7,034**	**0**	**143,349**	**183,006**	**150,382**

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

District	Number of Households using Inorganic Fertilizer	Planted Area with Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area with no Inorganic Fertilizer	Total Number of Households	Total Planted Area (ha)
Kibondo	17,738	0	0	9,933	17,738	9,933
Kasulu	44,807	86	0	24,399	44,807	24,485
Kigoma Rural	13,010	879	0	7,165	13,010	8,044
Kigoma Urban	984	47	0	750	984	797
Total	**76,540**	**1,012**	**0**	**42,247**	**76,540**	**43,259**

8.5 Number of Households and Planted Area by Fungicide Use and District - SHORT RAINY SEASON

District	Number of Households using Fungicide	Planted Area with Fungicide	Number of Households NOT using Fungicide	Planted Area with no Fungicide	Total Number of Households	Total Planted Area (ha)
Kibondo	747	189	70,019	65,072	70,766	65,261
Kasulu	212	21	62,857	43,215	63,070	43,236
Kigoma Rural	1,462	715	44,294	38,352	45,756	39,066
Kigoma Urban	347	70	3,068	2,749	3,415	2,819
Total	**2,768**	**995**	**180,238**	**149,388**	**183,006**	**150,382**

8.6 Number of Households and Planted Area by Fungicide Use and District - LONG RAINY SEASON

District	Number of Households using Fungicide	Planted Area with Fungicide	Number of Households NOT using Fungicide	Planted Area with no Fungicide	Total Number of Households	Total Planted Area (ha)
Kibondo	0	.	17,738	9,933	17,738	9,933
Kasulu	0	.	44,807	24,485	44,807	24,485
Kigoma Rural	1,023	160	11,987	7,885	13,010	8,044
Kigoma Urban	0	.	984	797	984	797
Total	**1,023**	**160**	**75,516**	**43,099**	**76,540**	**43,259**

8.7 Number of Households and Planted Area by Herbicide Use and District - SHORT RAINY SEASON

District	Number of Households using Herbicide	Planted Area with Herbicide	Number of Households NOT using Herbicide	Planted Area with no Herbicide	Total Number of Households	Total Planted Area (ha)
Kibondo	187	19	70,579	65,242	70,766	65,261
Kasulu	0	.	63,070	43,236	63,070	43,236
Kigoma Rural	0	.	45,756	39,066	45,756	39,066
Kigoma Urban	116	23	3,299	2,795	3,415	2,819
Total	**302**	**42**	**182,704**	**150,340**	**183,006**	**150,382**

8.8 Number of Households and Planted Area by Herbicide Use and District - LONG RAINY SEASON

District	Number of Households using Herbicide	Planted Area with Herbicide	Number of Households NOT using Herbicide	Planted Area with no Herbicide	Total Number of Households	Total Planted Area (ha)
Kibondo	0	.	17,738	9,933	17,738	9,933
Kasulu	0	.	44,807	24,485	44,807	24,485
Kigoma Rural	146	3	12,864	8,041	13,010	8,044
Kigoma Urban	0	.	984	797	984	797
Total	**146**	**3**	**76,394**	**43,256**	**76,540**	**43,259**

8.9 Number of Households and Planted Area by Improved Seed Use and District - SHORT RAINY SEASON

District	Number of Households using Improved seed	Planted Area with Improved Seed	Number of Households NOT using Local seed	Planted Area with no Improved seed	Total Number of Households	Total Planted Area (ha)
Kibondo	4,855	2,163	65,911	63,098	70,766	65,261
Kasulu	1,486	406	61,583	42,831	63,070	43,236
Kigoma Rural	4,970	2,717	40,786	36,349	45,756	39,066
Kigoma Urban	1,563	875	1,852	1,943	3,415	2,819
Total	**12,874**	**6,161**	**170,132**	**144,221**	**183,006**	**150,382**

8.10 Number of Households and Planted Area by Improved Seed Use and District - LONG RAINY SEASON

District	Number of Households using Improved Seed	Planted Area with Improved Seed	Number of Households NOT using Local Seed	Planted Area with no Improved Seed	Total Number of Households	Total Planted Area (ha)
Kibondo	373	136	17,365	9,797	17,738	9,933
Kasulu	1,911	707	42,896	23,778	44,807	24,485
Kigoma Rural	2,047	746	10,964	7,299	13,010	8,044
Kigoma Urban	521	234	463	562	984	797
Total	**4,852**	**1,823**	**71,688**	**41,436**	**76,540**	**43,259**

8.11 Number of crop Growing Households and Planted Area (hectare) by Local Seed Use and District, 2007/08 Agriculture Year - SHORT Rainy Season

District	Number of Households using Local seed	Planted Area with Local seed	Number of Households NOT using Local seed	Planted Area with no Local seed	Total Number of Households	Total Planted Area (ha)
Kibondo	70,019	61,838	747	3,423	70,766	65,261
Kasulu	63,070	42,764	0	472	63,070	43,236
Kigoma Rural	44,440	35,490	1,316	3,576	45,756	39,066
Kigoma Urban	3,126	1,943	289	875	3,415	2,819
Total	**180,655**	**142,035**	**2,352**	**8,347**	**183,006**	**150,382**

8.12 Number of crop Growing Households and Planted Area (hectare) by Local Seed Use and District, 2007/08 Agriculture Year - LONG Rainy Season

District	Number of Households using Local seed	Planted Area with Local seed	Number of Households NOT using Local seed	Planted Area with no Local seed	Total Number of Households	Total Planted Area (ha)
Kibondo	17,551	9,335	187	598	17,738	9,933
Kasulu	44,807	23,096	0	1,389	44,807	24,485
Kigoma Rural	12,426	7,260	585	785	13,010	8,044
Kigoma Urban	984	562	0	234	984	797
Total	**75,768**	**40,253**	**771**	**3,006**	**76,540**	**43,259**

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

District	Number of Households using Insecticide	Planted Area with Insecticide	Number of Households NOT using Insecticide	Planted Area with no Insecticide	Total Number of Households	Total Planted Area (ha)
Kibondo	2,614	1,762	68,152	63,499	70,766	65,261
Kasulu	0	.	63,070	43,236	63,070	43,236
Kigoma Rural	2,485	1,481	43,271	37,585	45,756	39,066
Kigoma Urban	347	65	3,068	2,754	3,415	2,819
Total	**5,446**	**3,308**	**177,560**	**147,074**	**183,006**	**150,382**

8.14 Number of Households and Planted Area by Insecticide Use and District - LONG RAINY SEASON

District	Number of Households using Insecticide	Planted Area with Insecticide	Number of Households NOT using Insecticide	Planted Area with no Insecticide	Total Number of Households	Total Planted Area (ha)
Kibondo	0	.	17,738	9,933	17,738	9,933
Kasulu	425	602	44,382	23,883	44,807	24,485
Kigoma Rural	2,193	790	10,818	7,254	13,010	8,044
Kigoma Urban	0	.	984	797	984	797
Total	**2,617**	**1,392**	**73,922**	**41,867**	**76,540**	**43,259**

8.15 Number of Households and Planted Area by Irrigation Use and District - SHORT RAINY SEASON

District	Number of Households using Irrigation	Planted Area with Irrigation	Number of Households NOT using Irrigation	Planted Area with no Irrigation	Total Number of Households	Total Planted Area (ha)	% of area planted under irrigation in Short rainy season
Kibondo	1,680	879	69,085	64,382	70,766	65,261	0.01
Kasulu	1,486	301	61,583	42,935	63,070	43,236	0.01
Kigoma Rural	2,047	1,506	43,709	37,560	45,756	39,066	0.04
Kigoma Urban	810	380	2,605	2,439	3,415	2,819	0.13
Total	**6,024**	**3,065**	**176,983**	**147,317**	**183,006**	**150,382**	**0.02**

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

District	Number of Households using Irrigation	Planted Area with Irrigation	Number of Households NOT using Irrigation	Planted Area with no Irrigation	Total Number of Households	Total Planted Area (ha)	% of area planted under irrigation in long rainy season
Kibondo	187	38	17,551	9,895	17,738	9,933	0.00
Kasulu	212	26	44,595	24,458	44,807	24,485	0.00
Kigoma Rural	877	130	12,133	7,914	13,010	8,044	0.02
Kigoma Urban	0	0	984	797	984	797	0.0
Total	**1,276**	**194**	**75,264**	**43,064**	**76,540**	**43,259**	**0.0045**

8.17 Planted Area & Number of Households by Insecticide Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - Kibondo

	Insecticide							
Crop	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	% of area planted Insecticide
Maize	934	761	9,242,502	68,899	36,107	69,459	36,868	2.1
Paddy	0	0	.	2,987	1,134	2,987	1,134	0.0
Sorghum	187	38	7,468,689	16,991	6,021	17,178	6,059	0.6
Bulrush Millet	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	0	1,307	472	1,307	472	0.0
Wheat	0	0	0	0	0	0	0	0.0
CEREALS		**798**	**16,711,191**		**43,735**		**44,533**	**1.8**
Cassava	0	0	0	0	0	0	0	0.0
Sweet Potato	0	0	0	187	38	187	38	0.0
Irish potatoes	0	0	0	0	0	0	0	0.0
Yams	0	0	0	0	0	0	0	0.0
Coco Yam	0	0	0	0	0	0	0	0.0
ROOTS & TUBERS		**0**	**0**		**38**		**38**	**0.0**
Mung Bean	0	0	0	0	0	0	0	0.0
Beans	187	57	7,468,689	47,426	13,992	47,426	14,049	0.4
Cowpeas	0	0	0	747	219	747	219	0.0
Green gram	0	0	0	187	23	187	23	0.0
Bambaranuts	0	0	0	0	0	0	0	0.0
Field Peas	0	0	0	0	0	0	0	0.0
PULSES		**57**	**7,468,689**		**14,234**		**14,291**	**0.4**
Sunflower	0	0	0	373	125	373	125	0.0
Groundnut	0	0	0	14,377	5,171	14,377	5,171	0.0
OIL SEEDS & OIL NUTS		**0**	**0**		**5,295**		**5,295**	**0.0**
Okra	0	0	0	0	0	0	0	0.0
Radish	0	0	0	187	76	187	76	0.0
Bitteer Aubergine	0	0	0	0	0	0	0	0.0
Onion	0	0	0	0	0	0	0	0.0
Cabbage	187	19	1,680,455	0	0	187	19	100.0
Tomatoes	373	38	3,547,627	560	45	934	83	45.5
Chillies	0	0	0	0	0	0	0	0.0
Amaranths	0	0	0	187	19	187	19	0.0
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	0	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		57	5,228,082		140		197	28.8
Cotton	373	378	2,599,104	0	0	373	378	100.0
Tobacco	747	472	5,228,082	373	57	1,120	529	89.3
CASH CROPS		**850**	**7,827,186**		**57**		**907**	**93.8**
Total		**1,762**	**37,235,148**		**63,499**		**65,261**	**2.7**

8.18 Planted Area & Number of Households by Insecticide Use by Crop during 2007/08 Agriculture Year - SHORT RAINY SEASON - Kasulu

	Insecticide							
Crop	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	% of area planted Insecticide
Maize	0	0	0	60,521	24,009	60,521	24,009	0.0
Paddy	0	0	0	2,336	666	2,336	666	0.0
Sorghum	0	0	0	2,336	645	2,336	645	0.0
Bulrush Millet	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	0	637	129	637	129	0.0
Wheat	0	0	0	425	86	425	86	0.0
CEREALS		**0**	**0**		**25,535**		**25,535**	**0.0**
Cassava	0	0	0	0	0	0	0	0.0
Sweet Potato	0	0	0	4,884	480	4,884	480	0.0
Irish potatoes	0	0	0	212	21	212	21	0.0
Yams	0	0	0	212	7	212	7	0.0
Coco Yam	0	0	0	212	21	212	21	0.0
ROOTS & TUBERS		**0**	**0**		**530**		**530**	**0.0**
Mung Bean	0	0	0	212	34	212	34	0.0
Beans	0	0	0	53,726	15,299	53,726	15,299	0.0
Cowpeas	0	0	0	0	0	0	0	0.0
Green gram	0	0	0	0	0	0	0	0.0
Bambaranuts	0	0	0	0	0	0	0	0.0
Field Peas	0	0	0	0	0	0	0	0.0
PULSES		**0**	**0**		**15,333**		**15,333**	**0.0**
Sunflower	0	0	0	0	0	0	0	0.0
Groundnut	0	0	0	9,344	1,709	9,344	1,709	0.0
OIL SEEDS & OIL NUTS		**0**	**0**		**1,709**		**1,709**	**0.0**
Okra	0	0	0	0	0	0	0	0.0
Radish	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	637	116	637	116	0.0
Chillies	0	0	0	0	0	0	0	0.0
Amaranths	0	0	0	212	13	212	13	0.0
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	0	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0	0.0
FRUITS &VEGETABLES		**0**	**0**		**129**		**129**	**0.0**
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	0	0	0	0	0.0
CASH CROPS		**0**	**0**		**0**		**0**	**0.0**
Total		**0**	**0**		**43,236**		**43,236**	**0.0**

8.19 Planted Area & Number of Households by Insecticide Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - Kigoma Rural

Crop	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	% of area planted Insecticide
Maize	1,023	616	4,853,330	36,108	17,753	36,985	18,368	3.4
Paddy	0	0	0	4,093	3,214	4,093	3,214	0.0
Sorghum	0	0	0	0	0	0	0	0.0
Bulrush Millet	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	0	0	0	0	0	0.0
Wheat	0	0	0	0	0	0	0	0.0
CEREALS		**616**	**4,853,330**		**20,967**		**21,582**	**2.9**
Cassava	0	0	0	292	142	292	142	0.0
Sweet Potato	0	0	0	3,508	793	3,508	793	0.0
Irish potatoes	0	0	0	146	18	146	18	0.0
Yams	0	0	0	0	0	0	0	0.0
Coco Yam	0	0	0	439	104	439	104	0.0
ROOTS & TUBERS		**0**	**0**		**1,056**		**1,056**	**0.0**
Mung Bean	0	0	0	877	300	877	300	0.0
Beans	585	133	4,239,354	26,313	9,738	26,898	9,871	1.3
Cowpeas	0	0	0	731	57	731	57	0.0
Green gram	0	0	0	0	0	0	0	0.0
Bambaranuts	0	0	0	439	59	439	59	0.0
Field Peas	146	44	730,923	0	0	146	44	100.0
PULSES		**178**	**4,970,278**		**10,154**		**10,332**	**1.7**
Sunflower	0	0	0	0	0	0	0	0.0
Groundnut	0	0	0	9,210	3,784	9,210	3,784	0.0
OIL SEEDS & OIL NUTS		**0**	**0**		**3,784**		**3,784**	**0.0**
Okra	0	0	0	585	166	585	166	0.0
Radish	0	0	0	146	38	146	38	0.0
Bitteer Aubergine	292	44	3,946,985	0	0	292	44	100.0
Onion	0	0	0	0	0	0	0	0.0
Cabbage	146	15	1,169,477	0	0	146	15	100.0
Tomatoes	1,169	451	18,163,441	146	22	1,169	473	95.3
Chillies	0	0	0	0	0	0	0	0.0
Amaranths	0	0	0	292	96	292	96	0.0
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	0	0	0	0	0	0	0	0.0
Water Mellon	146	59	4,239,354	0	0	146	59	100.0
FRUITS & VEGETABLES		**570**	**27,519,257**		**322**		**892**	**63.9**
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	146	118	1,754,216	1,754	1,302	1,900	1,420	8.3
CASH CROPS		**118**	**1,754,216**		**1,302**		**1,420**	**8.3**
Total		**1,481**	**39,097,080**		**37,585**		**39,066**	**3.8**

8.20 Planted Area & Number of Households by Insecticide Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - Kigoma Urban

	Insecticide							
Crop	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	% of area planted Insecticide
Maize	0	0	0	2,663	1,178	2,663	1,178	0.0
Paddy	0	0	0	116	52	116	52	0.0
Sorghum	0	0	0	0	0	0	0	0.0
Bulrush Millet	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	0	0	0	0	0	0.0
Wheat	0	0	0	0	0	0	0	0.0
CEREALS		**0**	**0**		**1,230**		**1,230**	**0.0**
Cassava	0	0	0	58	4	58	4	0.0
Sweet Potato	0	0	0	926	148	926	148	0.0
Irish potatoes	0	0	0	0	0	0	0	0.0
Yams	0	0	0	58	1	58	1	0.0
Coco Yam	0	0	0	58	5	58	5	0.0
ROOTS & TUBERS		**0**	**0**		**158**		**158**	**0.0**
Mung Bean	0	0	0	0	0	0	0	0.0
Beans	0	0	0	2,952	829	2,952	829	0.0
Cowpeas	0	0	0	695	165	695	165	0.0
Green gram	0	0	0	0	0	0	0	0.0
Bambaranuts	0	0	0	0	0	0	0	0.0
Field Peas	58	5	5,556,757	0	0	58	5	100.0
PULSES		**5**	**5,556,757**		**994**		**999**	**0.5**
Sunflower	0	0	0	0	0	0	0	0.0
Groundnut	0	0	0	232	81	232	81	0.0
OIL SEEDS & OIL NUTS		**0**	**0**		**81**		**81**	**0.0**
Okra	58	2	926,126	0	0	58	2	100.0
Radish	0	0	0	0	0	0	0	0.0
Bitteer Aubergine	0	0	0	116	26	116	26	0.0
Onion	0	0	0	0	0	0	0	0.0
Cabbage	58	5	3,704,504	58	6	116	11	44.4
Tomatoes	174	28	1,736,486	579	164	752	192	14.6
Chillies	116	18	5,614,639	116	28	174	46	39.6
Amaranths	0	0	0	58	3	58	3	0.0
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	0	0	0	116	18	116	18	0.0
Water Mellon	58	7	578,829	232	47	289	54	13.0
FRUITS & VEGETABLES		**60**	**12,560,585**		**291**		**352**	**17.2**
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	0	0	0	0	0.0
CASH CROPS		**0**	**0**		**0**		**0**	**0.0**
Total		**65**	**18,117,342**		**2,754**		**2,819**	**2.3**

8.21 Planted Area & Number of Households by Fungicide Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON – Kibondo

Crop	Fungicide							
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Cost of Fungicide	Number of Households NOT using Fungicide	Planted Area Without Fungicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Fungicide
Maize	187	57	3,080,834	69,459	36,811	69,459	36,868	0.2
Paddy	0	0	0	2,987	1,134	2,987	1,134	0.0
Sorghum	187	38	14,937,378	16,991	6,021	17,178	6,059	0.6
Bulrush Millet	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	0	1,307	472	1,307	472	0.0
Wheat	0	0	0	0	0	0	0	0.0
CEREALS		**94**	**18,018,212**		**44,439**		**44,533**	**0.2**
Cassava	0	0	0	0	0	0	0	0.0
Sweet Potato	0	0	0	187	38	187	38	0.0
Irish potatoes	0	0	0	0	0	0	0	0.0
Yams	0	0	0	0	0	0	0	0.0
Coco Yam	0	0	0	0	0	0	0	0.0
ROOTS & TUBERS		**0**	**0**		**0**		**0**	**0.0**
Mung Bean	0	0	0	0	0	0	0	0.0
Beans	187	57	7,468,689	47,426	13,992	47,426	14,049	0.4
Cowpeas	0	0	0	747	219	747	219	0.0
Green gram	0	0	0	187	23	187	23	0.0
Bambaranuts	0	0	0	0	0	0	0	0.0
Field Peas	0	0	0	0	0	0	0	0.0
PULSES		**57**	**7,468,689**		**14,234**		**14,291**	**0.4**
Sunflower	0	0	0	373	125	373	125	0.0
Groundnut	0	0	0	14,377	5,171	14,377	5,171	0.0
OIL SEEDS & OIL NUTS		**0**	**0**		**5,295**		**5,295**	**0.0**
Okra	0	0	0	0	0	0	0	0.0
Radish	0	0	0	187	76	187	76	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	187	19	187	19	0.0
Tomatoes	373	38	10,082,730	560	45	934	83	45.5
Chillies	0	0	0	0	0	0	0	0.0
Amaranths	0	0	0	187	19	187	19	0.0
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	0	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		**38**	**10,082,730**		**159**		**197**	**19.2**
Cotton	0	0	0	373	378	373	378	0.0
Tobacco	0	0	0	1,120	529	1,120	529	0.0
CASH CROPS		**0**	**0**		**907**		**907**	**0.0**
Total		**189**	**35,569,630**		**65,072**		**65,261**	**0.3**

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

Crop	Fungicide							
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Cost of Fungicide	Number of Households NOT using Fungicide	Planted Area Without Fungicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Fungicide
Maize	0	0	0	60,521	24,009	60,521	24,009	0
Paddy	0	0	0	2,336	666	2,336	666	0
Sorghum	0	0	0	2,336	645	2,336	645	0
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	637	129	637	129	0
Wheat	0	0	0	425	86	425	86	0
CEREALS		**0**	**0**		**25,535**		**25,535**	**0**
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	4,884	480	4,884	480	0
Irish potatoes	0	0	0	212	21	212	21	0
Yams	0	0	0	212	7	212	7	0
Coco Yam	0	0	0	212	21	212	21	0
ROOTS & TUBERS		**0**	**0**		**530**		**530**	**0**
Mung Bean	0	0	0	212	34	212	34	0
Beans	0	0	0	53,726	15,299	53,726	15,299	0
Cowpeas	0	0	0	0	0	0	0	0
Green gram	0	0	0	0	0	0	0	0
Bambaranuts	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0
PULSES		**0**	**0**		**15,333**		**15,333**	**0**
Sunflower	0	0	0	0	0	0	0	0
Groundnut	0	0	0	9,344	1,709	9,344	1,709	0
OIL SEEDS & OIL NUTS		**0**	**0**		**1,709**		**1,709**	**0**
Okra	0	0	0	0	0	0	0	0
Radish	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	212	21	425	425	95	637	116	19
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	212	13	212	13	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**21**	**425**		**107**		**129**	**17**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		**0**	**0**		**0**		**0**	**0**
Total		**21**	**425**		**43,215**		**43,236**	**0**

8.23 Planted Area & Number of Households by Fungicide Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - Kigoma Rural

Crop	Fungicide							
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Cost of Fungicide	Number of Households NOT using Fungicide	Planted Area Without Fungicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Fungicide
Maize	146	44	0	36,985	18,324	36,985	18,368	0.2
Paddy	0	0	0	4,093	3,214	4,093	3,214	0.0
Sorghum	0	0	0	0	0	0	0	0.0
Bulrush Millet	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	0	0	0	0	0	0.0
Wheat	0	0	0	0	0	0	0	0.0
CEREALS		**44**	**0**		**21,538**		**21,582**	**0.2**
Cassava	0	0	0	292	142	292	142	0.0
Sweet Potato	0	0	0	3,508	793	3,508	793	0.0
Irish potatoes	0	0	0	146	18	146	18	0.0
Yams	0	0	0	0	0	0	0	0.0
Coco Yam	0	0	0	439	104	439	104	0.0
ROOTS & TUBERS		**0**	**0**		**1,056**		**1,056**	**0.0**
Mung Bean	0	0	0	877	300	877	300	0.0
Beans	292	49	0	26,898	9,822	26,898	9,871	0.5
Cowpeas	0	0	0	731	57	731	57	0.0
Green gram	0	0	0	0	0	0	0	0.0
Bambaranuts	0	0	0	439	59	439	59	0.0
Field Peas	0	0	0	146	44	146	44	0.0
PULSES		**49**	**0**		**10,283**		**10,332**	**0.5**
Sunflower	0	0	0	0	0	0	0	0.0
Groundnut	0	0	0	9,210	3,784	9,210	3,784	0.0
OIL SEEDS &OIL NUTS		**0**	**0**		**3,784**		**3,784**	**0.0**
Okra	0	0	0	585	166	585	166	0.0
Radish	0	0	0	146	38	146	38	0.0
Bitteer Aubergine	0	0	0	292	44	292	44	0.0
Onion	0	0	0	0	0	0	0	0.0
Cabbage	0	0	0	146	15	146	15	0.0
Tomatoes	1,023	444	9,867,463	146	30	1,169	473	93.8
Chillies	0	0	0	0	0	0	0	0.0
Amaranths	0	0	0	292	96	292	96	0.0
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	0	0	0	0	0	0	0	0.0
Water Mellon	146	59	3,946,985	0	0	146	59	100.0
FRUITS & VEGETABLES		**503**	**13,814,448**		**389**		**892**	**56.4**
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	146	118	2,631,323	1,754	1,302	1,900	1,420	8.3
CASH CROPS		**118**	**2,631,323**		**1,302**		**1,420**	**8.3**
Total		**715**	**16,445,771**		**38,352**		**39,066**	**1.8**

8.24 Planted Area & Number of Households by Fungicide Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - Kigoma Urban

	Fungicide							
Crop	Number of Households using Fungicide	Planted Area Applied with Fungicide	Cost of Fungicide	Number of Households NOT using Fungicide	Planted Area Without Fungicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Fungicide
Maize	0	0	0	2,663	1,178	2,663	1,178	0
Paddy	0	0	0	116	52	116	52	0
Sorghum	0	0	0	0	0	0	0	0
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**0**	**0**		**1,230**		**1,230**	**0**
Cassava	0	0	0	58	4	58	4	0
Sweet Potato	0	0	0	926	148	926	148	0
Irish potatoes	0	0	0	0	0	0	0	0
Yams	0	0	0	58	1	58	1	0
Coco Yam	0	0	0	58	5	58	5	0
ROOTS & TUBERS		**0**	**0**		**158**		**158**	**0**
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	2,952	829	2,952	829	0
Cowpeas	0	0	0	695	165	695	165	0
Green gram	0	0	0	0	0	0	0	0
Bambaranuts	0	0	0	0	0	0	0	0
Field Peas	58	5	16,207,207	0	0	58	5	100
PULSES	58	5	16,207,207	3,647	994	3,705	999	0.5
Sunflower	0	0	0	0	0	0	0	0
Groundnut	0	0	0	232	81	232	81	0
OIL SEEDS & OIL NUTS		**0**	**0**		**81**		**81**	**0**
Okra	58	2	926,126	0	0	58	2	100
Radish	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	116	26	116	26	0
Onion	0	0	0	0	0	0	0	0
Cabbage	58	5	4,630,631	58	6	116	11	44
Tomatoes	174	28	5,209,459	579	164	752	192	15
Chillies	116	23	4,630,631	58	23	174	46	49
Amaranths	0	0	0	58	3	58	3	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	116	18	116	18	0
Water Mellon	58	7	694,595	232	47	289	54	13
FRUITS & VEGETABLES		**65**	**16,091,441**		**287**		**352**	**18**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		**0**	**0**		**0**		**0**	**0**
Total		**70**	**32,298,648**		**2,749**		**2,819**	**2**

8.25 Planted Area & Number of Households by Irrigation Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - Kibondo District

Crop	IRRIGATION						
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of Planted area using Irrigation
Maize	373	529	69,085	36,339	69,459	36,868	0.8
Paddy	373	151	2,614	983	2,987	1,134	5.1
Sorghum	0	0	17,178	6,059	17,178	6,059	0.0
Bulrush Millet	0	0	0	0	0	0	0.0
Finger Millet	0	0	1,307	472	1,307	472	0.0
Wheat	0	0	0	0	0	0	0.0
CEREALS		**680**		**43,853**		**44,533**	**0.7**
Cassava	0	0	0	0	0	0	0.0
Sweet Potato	0	0	187	38	187	38	0.0
Irish potatoes	0	0	0	0	0	0	0.0
Yams	0	0	0	0	0	0	0.0
Coco Yam	0	0	0	0	0	0	0.0
ROOTS & TUBERS		**0**		**38**		**38**	**0.0**
Mung Bean	0	0	0	0	0	0	0.0
Beans	373	94	47,053	13,955	47,426	14,049	0.2
Cowpeas	0	0	747	219	747	219	0.0
Green gram	0	0	187	23	187	23	0.0
Bambaranuts	0	0	0	0	0	0	0.0
Field Peas	0	0	0	0	0	0	0.0
PULSES		**94**		**14,197**		**14,291**	**0.2**
Sunflower	0	0	373	125	373	125	0.0
Groundnut	187	38	14,191	5,133	14,377	5,171	0.3
OIL SEEDS & OIL NUTS		**38**		**5,258**		**5,295**	**0.3**
Okra	0	0	0	0	0	0	0.0
Radish	0	0	187	76	187	76	0.0
Bitteer Aubergine	0	0	0	0	0	0	0.0
Onion	0	0	0	0	0	0	0.0
Cabbage	187	19	0	0	187	19	10.1
Tomatoes	560	47	373	36	934	83	5.1
Chillies	0	0	0	0	0	0	0.0
Amaranths	0	0	187	19	187	19	0.0
Pumpkins	0	0	0	0	0	0	0.0
Cucumber	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		**66**		**130**		**197**	**4.4**
Cotton	0	0	373	378	373	378	0.0
Tobacco	0	0	1,120	529	1,120	529	0.0
CASH CROPS		**0**		**907**		**907**	**0.0**
Total		**879**		**64,382**		**65,261**	**0.6**

8.26 Planted Area & Number of Households by Irrigation Use by Crop during 2007/08 Agriculture Year - SHORT RAINY SEASON - Kasulu District

Crop	IRRIGATION						
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of Planted area using Irrigation
Maize	637	150	59,884	23,859	60,521	24,009	1
Paddy	212	21	2,124	645	2,336	666	3
Sorghum	0	0	2,336	645	2,336	645	0
Bulrush Millet	0	0	0	0	0	0	0
Finger Millet	0	0	637	129	637	129	0
Wheat	0	0	425	86	425	86	0
CEREALS		**172**		**25,363**		**25,535**	**1**
Cassava	0	0	0	.	0	0	0
Sweet Potato	0	0	4,884	480	4,884	480	0
Irish potatoes	0	0	212	21	212	21	0
Yams	0	0	212	7	212	7	0
Coco Yam	0	0	212	21	212	21	0
ROOTS & TUBERS		**0**		**530**		**530**	**0**
Mung Bean	0	0	212	34	212	34	0
Beans	0	0	53,726	15,299	53,726	15,299	0
Cowpeas	0	0	0	0	0	0	0
Green gram	0	0	0	0	0	0	0
Bambaranuts	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0
PULSES		**0**		**15,333**		**15,333**	**0**
Sunflower	0	0	0	0	0	0	0
Groundnut	0	0	9,344	1,709	9,344	1,709	0
OIL SEEDS & OIL NUTS		**0**		**1,709**		**1,709**	**0**
Okra	0	0	0	0	0	0	0
Radish	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	637	116	0	0	637	116	100
Chillies	0	0	0	0	0	0	0
Amaranths	212	13	0	0	212	13	100
Pumpkins	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**129**		**0**		**129**	**100**
Cotton	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0
CASH CROPS		**0**		**0**		**0**	**0**
Total		**301**		**42,935**		**43,236**	**1**

8.27 Planted Area & Number of Households by Irrigation Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - Kigoma rural District

Crop	IRRIGATION						
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of Planted area using Irrigation
Maize	439	376	36,546	17,993	36,985	18,368	2
Paddy	0	0	4,093	3,214	4,093	3,214	0
Sorghum	0	0	0	0	0	0	0
Bulrush Millet	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0
CEREALS		**376**		**21,206**		**21,582**	**2**
Cassava	0	0	292	142	292	142	0
Sweet Potato	0	0	3,508	793	3,508	793	0
Irish potatoes	0	0	146	18	146	18	0
Yams	0	0	0	0	0	0	0
Coco Yam	0	0	439	104	439	104	0
ROOTS & TUBERS		**0**		**1,056**		**1,056**	**0**
Mung Bean	0	0	877	300	877	300	0
Beans	292	80	26,606	9,791	26,898	9,871	1
Cowpeas	0	0	731	57	731	57	0
Green gram	0	0	0	0	0	0	0
Bambaranuts	0	0	439	59	439	59	0
Field Peas	0	0	146	44	146	44	0
PULSES		**80**		**10,252**		**10,332**	**1**
Sunflower	0	0	0	0	0	0	0
Groundnut	0	0	9,210	3,784	9,210	3,784	0
OIL SEEDS & OIL NUTS		**0**		**3,784**		**3,784**	**0**
Okra	0	0	585	166	585	166	0
Radish	0	0	146	38	146	38	0
Bitteer Aubergine	146	30	146	15	292	44	67
Onion	0	0	0	0	0	0	0
Cabbage	0	0	146	15	146	15	0
Tomatoes	877	429	292	44	1,169	473	91
Chillies	0	0	0	0	0	0	0
Amaranths	146	89	146	7	292	96	93
Pumpkins	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0
Water Mellon	146	59	0	0	146	59	100
FRUITS & VEGETABLES		**607**		**285**		**892**	**68**
Cotton	0	0	0	0	0	0	0
Tobacco	731	444	1,169	977	1,900	1,420	31
CASH CROPS		**444**		**977**		**1,420**	**31**
Total		**1,506**		**37,560**		**39,066**	**4**

8.28 Planted Area & Number of Households by Irrigation Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - Kigoma urban District

	IRRIGATION						
Crop	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of Planted area using Irrigation
Maize	232	117	2,431	1,061	2,663	1,178	10
Paddy	0	0	116	52	116	52	0
Sorghum	0	0	0	0	0	0	0
Bulrush Millet	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0
CEREALS		**117**		**1,112**		**1,230**	**10**
Cassava	0	0	58	4	58	4	0
Sweet Potato	0	0	926	148	926	148	0
Irish potatoes	0	0	0	0	0	0	0
Yams	0	0	58	1	58	1	0
Coco Yam	0	0	58	5	58	5	0
ROOTS & TUBERS		**0**		**158**		**158**	**0**
Mung Bean	0	0	0	0	0	0	0
Beans	0	0	2,952	829	2,952	829	0
Cowpeas	0	0	695	165	695	165	0
Green gram	0	0	0	0	0	0	0
Bambaranuts	0	0	0	0	0	0	0
Field Peas	0	0	58	5	58	5	0
PULSES		**0**		**999**		**999**	**0**
Sunflower	0	0	0	0	0	0	0
Groundnut	0	0	232	81	232	81	0
OIL SEEDS & OIL NUTS		**0**		**81**		**81**	**0**
Okra	0	0	58	2	58	2	0
Radish	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	116	26	116	26	0
Onion	0	0	0	0	0	0	0
Cabbage	116	11	0	0	116	11	100
Tomatoes	579	157	174	35	752	192	82
Chillies	174	46	0	0	174	46	100
Amaranths	58	0	0	3	58	3	13
Pumpkins	0	0	0	0	0	0	0
Cucumber	116	18	0	0	116	18	100
Water Mellon	174	30	116	23	289	54	57
FRUITS & VEGETABLES		**262**		**89**		**352**	**75**
Cotton	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0
CASH CROPS		**0**		**0**		**0**	**0**
Total		**380**		**2,439**		**2,819**	**13**

8.29 Planted Area & Number of Households by Inproved Seeds Use by Crop during 2007/08 Agriculture Year - SHORT RAINY SEASON - Kibondo District

Crop	IMPROVED SEED							
	Number of Households using Improved seed	Planted Area Applied with Improved seed	Number of Households not using Improved seed	Planted Area Applied with no Improved seed	Cost (Tshs) of Improved seed	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area Planted using improved seed
Maize	1,307	790	68,152	36,078	22,499,425	69,459	36,868	2
Paddy	373	302	2,614	832	9,989,371	2,987	1,134	27
Sorghum	0	0	17,178	6,059	0	17,178	6,059	0
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	0	0	1,307	472	.	1,307	472	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**1,092**		**43,441**	**32,488,796**		**44,533**	**2**
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	187	38	0	187	38	0
Irish potatoes	0	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
ROOTS & TUBERS		**0**		**38**	**0**		**38**	**0**
Mung Bean	0	0	0	0	0	0	0	0
Beans	1,307	306	46,119	13,743	6,955,216	47,426	14,049	2
Cowpeas	0	0	747	219	0	747	219	0
Green gram	0	0	187	23	0	187	23	0
Bambaranuts	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0
PULSES		**306**		**13,985**	**6,955,216**		**14,291**	**2**
Sunflower	0	0	373	125	0	373	125	0
Groundnut	560	185	13,817	4,985	2,147,248	14,377	5,171	4
OIL SEEDS & OIL NUTS		**185**		**5,110**	**2,147,248**		**5,295**	**3**
Okra	0	0	0	0	0	0	0	0
Radish	0	0	187	76	0	187	76	0
Bitteer Aubergine	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0
Cabbage	187	5	0	14	2,053,889	187	19	25
Tomatoes	934	83	0	0	4,201,137	934	83	100
Chillies	0	0	0	0	0	0	0	0
Amaranths	187	19	0	0	373,434	187	19	100
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**107**		**90**	**6,628,461**		**197**	**54**
Cotton	0	0	373	378	0	373	378	0
Tobacco	747	472	373	57	7,188,613	1,120	529	89
CASH CROPS		**472**		**435**	**7,188,613**		**907**	**52**
Total		**2,163**		**63,098**	**55,408,335**		**65,261**	**3**

8.30 Planted Area & Number of Households by Inproved Seeds Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - Kasulu District

Crop	IMPROVED SEED							
	Number of Households using Improved seed	Planted Area Applied with Improved seed	Number of Households not using Improved seed	Planted Area Applied with no Improved seed	Cost (Tshs) of Improved seed	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted using improved seed
Maize	637	268	59,884	23,741	7,804,088	60,521	24,009	1.1
Paddy	0	0	2,336	666	0	2,336	666	0.0
Sorghum	0	0	2,336	645	0	2,336	645	0.0
Bulrush Millet	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	637	129	0	637	129	0.0
Wheat	0	0	425	86	0	425	86	0.0
CEREALS		**268**		**25,267**	**7,804,088**		**25,535**	**1.0**
Cassava	0	0	0	0	0	0	0	0.0
Sweet Potato	0	0	4,884	480	0	4,884	480	0.0
Irish potatoes	0	0	212	21	0	212	21	0.0
Yams	0	0	212	7	0	212	7	0.0
Coco Yam	0	0	212	21	0	212	21	0.0
ROOTS & TUBERS		**0**		**530**	**0**		**530**	**0.0**
Mung Bean	0	0	212	34	0	212	34	0.0
Beans	0	0	53,726	15,299	0	53,726	15,299	0.0
Cowpeas	0	0	0	0	0	0	0	0.0
Green gram	0	0	0	0	0	0	0	0.0
Bambaranuts	0	0	0	0	0	0	0	0.0
Field Peas	0	0	0	0	0	0	0	0.0
PULSES		**0**		**15,333**	**0**		**15,333**	**0.0**
Sunflower	0	0	0	0	0	0	0	0.0
Groundnut	212	21	9,131	1,688	743,246	9,344	1,709	1.3
OIL SEEDS & OIL NUTS		**21**		**1,688**	**743,246**		**1,709**	**1.3**
Okra	0	0	0	0	0	0	0	0.0
Radish	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	637	116	0	0	2,527,038	637	116	100.0
Chillies	0	0	0	0	0	0	0	0.0
Amaranths	0	0	212	13	0	212	13	0.0
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	0	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		**116**		**13**	**2,527,038**		**129**	**90.0**
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	0	0	0	0	0.0
CASH CROPS		**0**		**0**	**0**		**0**	**0.0**
Total		**406**		**42,831**	**11,074,372**		**43,236**	**0.9**

8.31 Planted Area & Number of Households by Inproved Seeds Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON -Kigoma rural

Crop	IMPROVED SEED							
	Number of Households using Improved seed	Planted Area Applied with Improved seed	Number of Households not using Improved seed	Planted Area Applied with no Improved seed	Cost (Tshs) of Improved seed	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted using improved seed
Maize	3,070	1,475	33,915	16,894	41,719,633	36,985	18,368	8
Paddy	0	0	4,093	3,214	0	4,093	3,214	0
Sorghum	0	0	0	0	0	0	0	0
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**1,475**		**20,107**	**41,719,633**		**21,582**	**7**
Cassava	0	0	292	142	0	292	142	0
Sweet Potato	0	0	3,508	793	0	3,508	793	0
Irish potatoes	0	0	146	18	0	146	18	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	439	104	0	439	104	0
ROOTS & TUBERS		**0**		**1,056**	**0**		**1,056**	**0**
Mung Bean	0	0	877	300	0	877	300	0
Beans	0	0	26,898	9,871	0	26,898	9,871	0
Cowpeas	0	0	731	57	0	731	57	0
Green gram	0	0	0	0	0	0	0	0
Bambaranuts	0	0	439	59	0	439	59	0
Field Peas	0	0	146	44	0	146	44	0
PULSES		**0**		**10,332**	**0**		**10,332**	**0**
Sunflower	0	0	0	0	0	0	0	0
Groundnut	0	0	9,210	3,784	0	9,210	3,784	0
OIL SEEDS & OIL NUTS		**0**		**3,784**	**0**		**3,784**	**0**
Okra	0	0	585	166	0	585	166	0
Radish	0	0	146	38	0	146	38	0
Bitteer Aubergine	0	0	292	44	0	292	44	0
Onion	0	0	0	0	0	0	0	0
Cabbage	146	15	0	0	365,462	146	15	100
Tomatoes	731	399	439	74	4,487,868	1,169	473	84
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	292	96	0	292	96	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	146	59	0	0	877,108	146	59	100
FRUITS & VEGETABLES		**473**		**418**	**5,730,438**		**892**	**53**
Cotton	0	0	0	0	0	0	0	0
Tobacco	1,023	769	877	651	7,747,786	1,900	1,420	54
CASH CROPS		**769**		**651**	**7,747,786**		**1,420**	**54**
Total		**2,717**		**36,349**	**55,197,856**		**39,066**	**7**

8.32 Planted Area & Number of Households by Inproved Seeds Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - Kigoma Urban District

	IMPROVED SEED							
Crop	Number of Households using Improved seed	Planted Area Applied with Improved seed	Number of Households not using Improved seed	Planted Area Applied with no Improved seed	Cost (Tshs) of Improved seed	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted using improved seed
Maize	1,042	534	1,621	644	20,120,090	2,663	1,178	45
Paddy	0	0	116	52	0	116	52	0
Sorghum	0	0	0	0	0	0	0	0
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**534**		**696**	**20,120,090**		**1,230**	**43**
Cassava	0	0	58	4	0	58	4	0
Sweet Potato	116	19	810	130	118,660	926	148	13
Irish potatoes	0	0	0	0	0	0	0	0
Yams	0	0	58	1	0	58	1	0
Coco Yam	0	0	58	5	0	58	5	0
ROOTS & TUBERS		**19**		**139**	**118,660**		**158**	**12**
Mung Bean	0	0	0	0	0	0	0	0
Beans	174	56	2,778	773	3,067,793	2,952	829	7
Cowpeas	0	0	695	165	0	695	165	0
Green gram	0	0	0	0	0	0	0	0
Bambaranuts	0	0	0	0	0	0	0	0
Field Peas	58	5	0	0	1,504,955	58	5	100
PULSES		**61**		**938**	**4,572,748**		**999**	**6**
Sunflower	0	0	0	0	0	0	0	0
Groundnut	0	0	232	81	0	232	81	0
OIL SEEDS & OIL NUTS		**0**		**81**	**0**		**81**	**0**
Okra	0	0	58	2	0	58	2	0
Radish	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	116	26	0	116	26	0
Onion	0	0	0	0	0	0	0	0
Cabbage	116	11	0	0	405,180	116	11	100
Tomatoes	579	145	174	47	6,031,396	752	192	76
Chillies	174	46	0	0	1,134,504	174	46	100
Amaranths	0	0	58	3	0	58	3	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	116	18	0	0	914,550	116	18	100
Water Mellon	232	42	58	12	989,797	289	54	78
FRUITS & VEGETABLES		**262**		**90**	**9,475,428**		**352**	**75**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		**0**		**0**	**0**		**0**	**0**
Total		**875**		**1,943**	**34,286,925**		**2,819**	**31**

8.33 Planted Area & Number of Households by Local Seeds Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON – Kibondo

	LOCAL SEED							
Crop	Number of Households using Local seed	Planted Area Applied with Local seed	Number of Households not using Local seed	Planted Area Applied with no Local seed	Cost of Local seed	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted using Local seed
Maize	68,152	35,341	1,307	1,527	503,552,629	69,459	36,868	96
Paddy	2,614	832	373	302	22,589,049	2,987	1,134	73
Sorghum	17,178	6,049	0	9	70,040,430	17,178	6,059	100
Bulrush Millet	0	.	0	0	0	0	0	0
Finger Millet	1,307	472	0	0	8,458,290	1,307	472	100
Wheat	0	.	0	0	0	0	0	0
CEREALS		**42,694**		**1,839**	**604,640,398**		**44,533**	**96**
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	187	38	0	0	93,359	187	38	100
Irish potatoes	0	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
ROOTS & TUBERS		**38**		**0**	**93,359**		**38**	**100**
Mung Bean	0	0	0	0	0	0	0	0
Beans	46,119	13,316	1,307	733	673,002,800	47,426	14,049	95
Cowpeas	747	219	0	0	15,217,453	747	219	100
Green gram	187	23	0	0	392,106	187	23	100
Bambaranuts	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0
PULSES		**13,558**		**733**	**688,612,360**		**14,291**	**95**
Sunflower	373	125	0	0	934,333	373	125	100
Groundnut	13,817	4,929	560	242	397,586,499	14,377	5,171	95
OIL SEEDS & OIL NUTS		**5,053**		**242**	**398,520,832**		**5,295**	**95**
Okra	0	0	0	0	0	0	0	0
Radish	187	76	0	0	6,721,820	187	76	100
Bitteer Aubergine	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0
Cabbage	0	0	187	19	0	187	19	0
Tomatoes	0	0	934	83	0	934	83	0
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	187	19	0	187	19	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**76**		**121**	**6,721,820**		**197**	**38**
Cotton	373	378	0	0	93,359	373	378	0
Tobacco	373	40	747	489	3,921,062	1,120	529	8
CASH CROPS		**418**		**489**	**4,014,420**		**907**	**46**
Total		**61,838**		**3,423**	**1,702,603,189**		**65,261**	**95**

8.34 Planted Area & Number of Households by Local Seeds Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON – Kasulu

	LOCAL SEED							
Crop	Number of Households using Local seed	Planted Area Applied with Local seed	Number of Households not using Local seed	Planted Area Applied with no Local seed	Cost of Local seed	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted using Local seed
Maize	59,884	23,675	637	334	376,150,231	60,521	24,009	99
Paddy	2,336	666	0	0	30,577,159	2,336	666	100
Sorghum	2,336	645	0	0	6,052,150	2,336	645	100
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	637	129	0	0	1,231,666	637	129	100
Wheat	425	86	0	0	2,166,033	425	86	100
CEREALS		**25,201**		**334**	**416,177,238**		**25,535**	**99**
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	4,884	480	0	0	53,366,369	4,884	480	100
Irish potatoes	212	21	0	0	8,918,957	212	21	100
Yams	212	7	0	0	63,707	212	7	100
Coco Yam	212	21	0	0	637,068	212	21	100
ROOTS & TUBERS		530		0	62,986,102		530	100
Mung Bean	212	34	0	0	2,038,619	212	34	100
Beans	53,726	15,299	0	0	854,179,589	53,726	15,299	100
Cowpeas	0	0	0	0	0	0	0	0
Green gram	0	0	0	0	0	0	0	0
Bambaranuts	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0
PULSES		**15,333**		**0**	**856,218,208**		**15,333**	**100**
Sunflower	0	0	0	0	0	0	0	0
Groundnut	9,131	1,688	212	21	59,105,081	9,344	1,709	99
OIL SEEDS & OIL NUTS		**1,688**		**21**	**59,105,081**		**1,709**	**99**
Okra	0	0	0	0	0	0	0	0
Radish	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	637	116	0	637	116	0
Chillies	0	0	0	0	0	0	0	0
Amaranths	212	13	0	0	849,425	212	13	100
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**13**		**116**	**849,425**		**129**	**10**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		**0**		**0**	**0**		**0**	**0**
Total		**42,764**		**472**	**1,395,336,053**		**43,236**	**99**

8.35 Planted Area & Number of Households by Local Seeds Use by Crop during 2007/08 Agriculture Year - SHORT RAINY SEASON - Kigoma Rural

	LOCAL SEED							
Crop	Number of Households using Local seed	Planted Area Applied with Local seed	Number of Households not using Local seed	Planted Area Applied with no Local seed	Cost of Local seed	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted using Local seed
Maize	33,915	16,523	3,070	1,846	215,515,913	36,985	18,368	90
Paddy	4,093	3,214	0	0	71,498,904	4,093	3,214	100
Sorghum	0	0	0	0	0	0	0	0
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**19,737**		**1,846**	**287,014,817**		**21,582**	**91**
Cassava	292	124	0	18	2,338,954	292	142	88
Sweet Potato	3,508	749	0	44	13,202,373	3,508	793	94
Irish potatoes	146	18	0	0	146,185	146	18	100
Yams	0	0	0	0	0	0	0	0
Coco Yam	439	104	0	0	613,975	439	104	100
ROOTS & TUBERS		**994**		**62**	**16,301,487**		**1,056**	**94**
Mung Bean	877	300	0	0	4,498,832	877	300	0
Beans	26,898	9,584	0	287	373,604,069	26,898	9,871	97
Cowpeas	731	56	0	1	2,441,283	731	57	99
Green gram	0	0	0	0	0	0	0	0
Bambaranuts	439	59	0	0	1,754,216	439	59	100
Field Peas	146	44	0	0	877,108	146	44	100
PULSES		**10,044**		**288**	**383,175,508**		**10,332**	**97**
Sunflower	0	0	0	0	0	0	0	0
Groundnut	9,210	3,653	0	131	103,984,054	9,210	3,784	97
OIL SEEDS & OIL NUTS		**3,653**		**131**	**103,984,054**		**3,784**	**97**
Okra	585	166	0	0	4,283,210	585	166	100
Radish	146	38	0	0	657,831	146	38	100
Bitteer Aubergine	292	44	0	0	657,831	292	44	100
Onion	0	0	0	0	0	0	0	0
Cabbage	0	0	146	15	0	146	15	0
Tomatoes	439	67	731	407	3,873,893	1,169	473	14
Chillies	0	0	0	0	0	0	0	0
Amaranths	292	96	0	0	219,277	292	96	100
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	146	59	0	146	59	0
FRUITS & VEGETABLES		**411**		**481**	**9,692,041**		**892**	**46**
Cotton	0	0	0	0	0	0	0	0
Tobacco	877	651	1,023	769	100,832,459	1,900	1,420	46
CASH CROPS		**651**		**769**	**100,832,459**		**1,420**	**46**
Total		**35,490**		**3,576**	**901,000,366**		**39,066**	**91**

8.36 Planted Area & Number of Households by Local Seeds Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON -Kigoma Urban

	LOCAL SEED							
Crop	Number of Households using Local seed	Planted Area Applied with Local seed	Number of Households not using Local seed	Planted Area Applied with no Local seed	Cost of Local seed	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted using Local seed
Maize	1,621	644	1,042	534	21,868,153	2,663	1,178	55
Paddy	116	52	0	0	1,591,779	116	52	100
Sorghum	0	0	0	0	0	0	0	0
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**696**		**534**	**23,459,932**		**1,230**	**57**
Cassava	58	4	0	0	1,157,658	58	4	100
Sweet Potato	810	130	116	19	5,950,360	926	148	88
Irish potatoes	0	0	0	0	0	0	0	0
Yams	58	1	0	0	28,941	58	1	100
Coco Yam	58	5	0	0	69,459	58	5	100
ROOTS & TUBERS		**139**		**19**	**7,206,419**		**158**	**88**
Mung Bean	0	0	0	0	0	0	0	0
Beans	2,778	773	174	56	34,663,164	2,952	829	93
Cowpeas	695	165	0	0	3,415,090	695	165	100
Green gram	0	0	0	0	0	0	0	0
Bambaranuts	0	0	0	0	0	0	0	0
Field Peas	0	0	58	5	0	58	5	0
PULSES		**938**		**61**	**38,078,254**		**999**	**94**
Sunflower	0	0	0	0	0	0	0	0
Groundnut	232	81	0	0	3,125,676	232	81	100
OIL SEEDS & OIL NUTS		**81**		**0**	**3,125,676**		**81**	**100**
Okra	58	2	0	0	463,063	58	2	100
Radish	0	0	0	0	0	0	0	0
Bitteer Aubergine	116	26	0	0	428,333	116	26	100
Onion	0	0	0	0	0	0	0	0
Cabbage	0	0	116	11	0	116	11	0
Tomatoes	174	47	579	145	1,157,658	752	192	24
Chillies	0	0	174	46	.	174	46	0
Amaranths	58	3	0	0	463,063	58	3	100
Pumpkins	0	0	0	0	.	0	0	0
Cucumber	0	0	116	18	.	116	18	0
Water Mellon	58	12	232	0	57,883	289	12	100
FRUITS & VEGETABLES		**90**		**262**	**2,570,000**		**352**	**25**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		**0**		**0**	**0**		**0**	**0**
Total		**1,943**		**875**	**74,440,280**		**2,819**	**69**

8.37 Planted Area & Number of Households by Organic Fertilizer Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - Kibondo District

	ORGANIC FERTILIZER							
Crop	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Cost (Tshs) of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Without Organic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Organic Fertilizer
Maize	2,054	1,014	13,079,541	67,405	35,854	69,459	36,868	3
Paddy	0	0	0	2,987	1,134	2,987	1,134	0
Sorghum	0	0	0	17,178	6,059	17,178	6,059	0
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	1,307	472	1,307	472	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**1,014**	**13,079,541**		**43,519**		**44,533**	**2**
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	187	38	187	38	0
Irish potatoes	0	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
ROOTS & TUBERS		**0**	**0**		**38**		**38**	**0**
Mung Bean	0	0	0	0	0	0	0	0
Beans	187	76	233,397	47,239	13,974	47,426	14,049	1
Cowpeas	0	0	0	747	219	747	219	0
Green gram	0	0	0	187	23	187	23	0
Bambaranuts	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0
PULSES		**76**	**233,397**		**14,215**		**14,291**	**1**
Sunflower	0	0	0	373	125	373	125	0
Groundnut	0	0	0	14,377	5,171	14,377	5,171	0
OIL SEEDS & OIL NUTS		**0**	**0**		**5,295**		**5,295**	**0**
Okra	0	0	0	0	0	0	0	0
Radish	0	0	0	187	76	187	76	0
Bitteer Aubergine	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0
Cabbage	187	19	8,402,275	0	0	187	19	100
Tomatoes	187	19	37,343	747	64	934	83	23
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	187	19	187	19	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**38**	**8,439,618**		**159**		**197**	**19**
Cotton	0	0	0	373	378	373	378	0
Tobacco	0	0	0	1,120	529	1,120	529	0
CASH CROPS		**0**	**0**		**907**		**907**	**0**
Total		**1,127**	**21,752,556**		**64,134**		**65,261**	**2**

8.38 Planted Area & Number of Households by Organic Fertilizer Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - Kasulu District

	ORGANIC FERTILIZER							
Crop	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Cost (Tshs) of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Without Organic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Organic Fertilizer
Maize	4,035	1,030	61,181,924	57,761	22,979	60,521	24,009	4
Paddy	0	0	0	2,336	666	2,336	666	0
Sorghum	0	0	0	2,336	645	2,336	645	0
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	637	129	637	129	0
Wheat	0	0	0	425	86	425	86	0
CEREALS		**1,030**	**61,181,924**		**24,505**		**25,535**	**4**
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	4,884	480	4,884	480	0
Irish potatoes	0	0	0	212	21	212	21	0
Yams	0	0	0	212	7	212	7	0
Coco Yam	0	0	0	212	21	212	21	0
ROOTS & TUBERS		**0**	**0**		**530**		**530**	**0**
Mung Bean	0	0	0	212	34	212	34	0
Beans	3,185	582	54,172,048	52,452	14,717	53,726	15,299	4
Cowpeas	0	0	0	0	0	0	0	0
Green gram	0	0	0	0	0	0	0	0
Bambaranuts	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0
PULSES		**582**	**54,172,048**		**14,752**		**15,333**	**4**
Sunflower	0	0	0	0	0	0	0	0
Groundnut	0	0	0	9,344	1,709	9,344	1,709	0
OIL SEEDS & OIL NUTS		**0**	**0**		**1,709**		**1,709**	**0**
Okra	0	0	0	0	0	0	0	0
Radish	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	212	30	849,425	425	86	637	116	26
Chillies	0	0	0	0	0	0	0	0
Amaranths	212	13	637,068	0	0	212	13	100
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon		0	0	0	0	0	0	0
FRUITS & VEGETABLES		**43**	**1,486,493**		**86**		**129**	**33**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		**0**	**0**		**0**		**0**	**0**
Total		**1,655**	**116,840,465**		**41,582**		**43,236**	**4**

8.39 Planted Area & Number of Households by Organic Fertilizer Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - Kigoma Rural

Crop	ORGANIC FERTILIZER							
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Cost (Tshs) of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Without Organic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Organic Fertilizer
Maize	1,023	374	46,340,529	36,108	17,995	36,985	18,368	2.0
Paddy	0	0	0	4,093	3,214	4,093	3,214	0
Sorghum	0	0	0	0	0	0	0	0
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**374**	**46,340,529**		**21,208**		**21,582**	**1.7**
Cassava	0	0	0	292	142	292	142	0
Sweet Potato	0	0	0	3,508	793	3,508	793	0
Irish potatoes	0	0	0	146	18	146	18	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	439	104	439	104	0
ROOTS & TUBERS		**0**	**0**		**1,056**		**1,056**	**0**
Mung Bean	0	0	0	877	300	877	300	0
Beans	146	15	131,566	26,752	9,857	26,898	9,871	0.1
Cowpeas	0	0	0	731	57	731	57	0
Green gram	0	0	0	0	0	0	0	0
Bambaranuts	0	0	0	439	59	439	59	0
Field Peas	0	0	0	146	44	146	44	0
PULSES		**15**	**131,566**		**10,317**		**10,332**	**0.1**
Sunflower	0	0	0	0	0	0	0	0
Groundnut	0	0	0	9,210	3,784	9,210	3,784	0
OIL SEEDS & OIL NUTS		**0**	**0**		**3,784**		**3,784**	**0**
Okra	0	0	0	585	166	585	166	0
Radish	0	0	0	146	38	146	38	0
Bitteer Aubergine	146	15	365,462	146	30	292	44	33
Onion	0	0	0	0	0	0	0	0
Cabbage	146	15	4,385,539	0	0	146	15	100
Tomatoes	292	252	6,256,702	877	222	1,169	473	53
Chillies	0	0	0	0	0	0	0	0
Amaranths	292	96	701,686	0	0	292	96	100
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	146	59	146	59	0
FRUITS & VEGETABLES		**377**	**11,709,389**		**515**		**892**	**42**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	1,900	1,420	1,900	1,420	0
CASH CROPS		**0**	**0**		**1,420**		**1,420**	**0**
Total		**765**	**58,181,484**		**38,301**		**39,066**	**2**

8.40 Planted Area & Number of Households by Organic Fertilizer Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - Kigoma Urban

	ORGANIC FERTILIZER							
Crop	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Cost (Tshs) of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Without Organic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Organic Fertilizer
Maize	58	7	1,736,486	2,605	1,171	2,663	1,178	0.596777
Paddy	0	0	0	116	52	116	52	0
Sorghum	0	0	0	0	0	0	0	0
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**7**	**1,736,486**		**1,223**		**1,230**	**0.571755**
Cassava	0	0	0	58	4	58	4	0
Sweet Potato	0	0	0	926	148	926	148	0
Irish potatoes	0	0	0	0	0	0	0	0
Yams	0	0	0	58	1	58	1	0
Coco Yam	0	0	0	58	5	58	5	0
ROOTS & TUBERS		**0**	**0**		**158**		**158**	**0**
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	2,952	829	2,952	829	0
Cowpeas	0	0	0	695	165	695	165	0
Green gram	0	0	0	0	0	0	0	0
Bambaranuts	0	0	0	0	0	0	0	0
Field Peas	0	0	0	58	5	58	5	0
PULSES		**0**	**0**		**999**		**999**	**0**
Sunflower	0	0	0	0	0	0	0	0
Groundnut	0	0	0	232	81	232	81	0
OIL SEEDS & OIL NUTS		**0**	**0**		**81**		**81**	**0**
Okra	58	2	173,649	0	0	58	2	100
Radish	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	116	26	116	26	0
Onion	0	0	0	0	0	0	0	0
Cabbage	0	0	0	116	11	116	11	0
Tomatoes	0	0	0	752	192	752	192	0
Chillies	0	0	0	174	46	174	46	0
Amaranths	0	0	0	58	3	58	3	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	116	18	116	18	0
Water Mellon	0	0	0	289	54	289	54	0
FRUITS & VEGETABLES		**2**	**173,649**		**349**		**352**	**0.6**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		**0**	**0**		**0**		**0**	**0**
Total		**9**	**1,910,135**		**2,810**		**2,819**	**0.324243**

8.41 Planted Area & Number of Households by Inorganic Fertilizer Use by Crop during 2007/08 Agriculture Year - SHORT RAINY SEASON - Kibondo District

Crop	INORGANIC FERTILIZER							
	Number of Households using Inorganic Fertilizer	Planted Area Applied with Inorganic Fertilizer	Cost (Tshs) of Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area Without Inorganic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Inorganic Fertilizer
Maize	2,241	1,173	146,012,866	68,152	35,695	69,459	36,868	3
Paddy	0	0	0	2,987	1,134	2,987	1,134	0
Sorghum	0	0	0	17,178	6,059	17,178	6,059	0
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	1,307	472	1,307	472	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**1,173**	**146,012,866**		**43,361**		**44,533**	**3**
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	187	38	187	38	0
Irish potatoes	0	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
ROOTS & TUBERS		**0**	**0**		**38**		**38**	**0**
Mung Bean	0	0	0	0	0	0	0	0
Beans	373	79	8,402,275	47,053	13,970	47,426	14,049	1
Cowpeas	0	0	0	747	219	747	219	0
Green gram	0	0	0	187	23	187	23	0
Bambaranuts	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0
PULSES		**79**	**8,402,275**		**14,212**		**14,291**	**1**
Sunflower	0	0	0	373	125	373	125	0
Groundnut	187	38	0	14,191	5,133	14,377	5,171	1
OIL SEEDS & OIL NUTS	**187**	**38**	**0**	**14,564**	**5,258**	**14,751**	**5,295**	**1**
Okra	0	0	0	0	0	0	0	0
Radish	0	0	0	187	76	187	76	0
Bitteer Aubergine	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0
Cabbage	0	0	0	187	19	187	19	0
Tomatoes	560	45	5,228,082	373	38	934	83	55
Chillies	0	0	0	0	0	0	0	0
Amaranths	187	19	56,015	0	0	187	19	100
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**64**	**5,284,097**		**132**		**197**	**33**
Cotton	0	0	0	373	378	373	378	0
Tobacco	747	472	230,540,125	373	57	1,120	529	89
CASH CROPS		**472**	**230,540,125**		**435**		**907**	**52**
Total		**1,827**	**390,239,363**		**63,435**		**65,261**	**3**

8.42 Planted Area & Number of Households by Inorganic Fertilizer Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - Kasulu District

Crop	INORGANIC FERTILIZER							
	Number of Households using Inorganic Fertilizer	Planted Area Applied with Inorganic Fertilizer	Cost (Tshs) of Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area Without Inorganic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Inorganic Fertilizer
Maize	4,247	1,255	166,201,585	56,911	22,754	60,521	24,009	5
Paddy	0	0	0	2,336	666	2,336	666	0
Sorghum	0	0	0	2,336	645	2,336	645	0
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	637	129	637	129	0
Wheat	0	0	0	425	86	425	86	0
CEREALS		**1,255**	**166,201,585**		**24,280**		**25,535**	**5**
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	4,884	480	4,884	480	0
Irish potatoes	212	21	12,316,655	0	0	212	21	100
Yams	0	0	0	212	7	212	7	0
Coco Yam	0	0	0	212	21	212	21	0
ROOTS & TUBERS		**21**	**12,316,655**		**508**		**530**	**4**
Mung Bean	0	0	0	212	34	212	34	0
Beans	1,911	451	78,677,945	51,815	14,848	53,726	15,299	3
Cowpeas	0	0	0	0	0	0	0	0
Green gram	0	0	0	0	0	0	0	0
Bambaranuts	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0
PULSES		**451**	**78,677,945**		**14,882**		**15,333**	**3**
Sunflower	0	0	0	0	0	0	0	0
Groundnut	0	0	0	9,344	1,709	9,344	1,709	0
OIL SEEDS & OIL NUTS		**0**	**0**		**1,709**		**1,709**	**0**
Okra	0	0	0	0	0	0	0	0
Radish	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	212	21	3,716,232	425	95	637	116	19
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	212	13	212	13	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**21**	**3,716,232**		**107**		**129**	**17**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		**0**	**0**		**0**		**0**	**0**
Total		**1,750**	**260,912,418**		**41,487**		**43,236**	**4**

8.43 Planted Area & Number of Households by Inorganic Fertilizer Use by Crop during 2007/08 Agriculture Year - SHORT RAINY SEASON - Kigoma Rural District

Crop	INORGANIC FERTILIZER							
	Number of Households using Inorganic Fertilizer	Planted Area Applied with Inorganic Fertilizer	Cost (Tshs) of Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area Without Inorganic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Inorganic Fertilizer
Maize	3,508	2,005	247,731,790	34,500	16,364	36,985	18,368	11
Paddy	146	59	10,963,848	3,947	3,155	4,093	3,214	2
Sorghum	0	0	0	0	0	0	0	0
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**2,064**	**258,695,637**		**19,518**		**21,582**	**10**
Cassava	0	0	0	292	142	292	142	0
Sweet Potato	0	0	0	3,508	793	3,508	793	0
Irish potatoes	0	0	0	146	18	146	18	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	439	104	439	104	0
ROOTS & TUBERS		**0**	**0**		**1,056**		**1,056**	**0**
Mung Bean	0	0	0	877	300	877	300	0
Beans	0	0	0	26,898	9,871	26,898	9,871	0
Cowpeas	0	0	0	731	57	731	57	0
Green gram	0	0	0	0	0	0	0	0
Bambaranuts	0	0	0	439	59	439	59	0
Field Peas	0	0	0	146	44	146	44	0
PULSES		**0**	**0**		**10,332**		**10,332**	**0**
Sunflower	0	0	0	0	0	0	0	0
Groundnut	0	0	0	9,210	3,784	9,210	3,784	0
OIL SEEDS & OIL NUTS		**0**	**0**		**3,784**		**3,784**	**0**
Okra	0	0	0	585	166	585	166	0
Radish	0	0	0	146	38	146	38	0
Bitteer Aubergine	146	30	2,923,693	146	15	292	44	67
Onion	0	0	0	0	0	0	0	0
Cabbage	0	0	0	146	15	146	15	0
Tomatoes	731	170	28,506,004	585	303	1,169	473	36
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	292	96	292	96	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	146	59	3,216,062	0	0	146	59	100
FRUITS & VEGETABLES		**259**	**34,645,758**		**633**		**892**	**29**
Cotton	0	0	0	0	0	0	0	0
Tobacco	731	533	267,700,611	1,169	888	1,900	1,420	38
CASH CROPS		**533**	**267,700,611**		**888**		**1,420**	**38**
Total		**2,856**	**561,042,007**		**36,211**		**39,066**	**7**

8.44 Planted Area & Number of Households by Inorganic Fertilizer Use by Crop during 2007/08 Agriculture Year - SHORT RAINY SEASON - Kigoma Urban District

Crop	INORGANIC FERTILIZER							
	Number of Households using Inorganic Fertilizer	Planted Area Applied with Inorganic Fertilizer	Cost (Tshs) of Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area Without Inorganic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Inorganic Fertilizer
Maize	695	329	53,240,674	1,968	849	2,663	1,178	28
Paddy	0	0	0	116	52	116	52	0
Sorghum	0	0	0	0	0	0	0	0
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**329**	**53,240,674**		**900**		**1,230**	**27**
Cassava	0	0	0	58	4	58	4	0
Sweet Potato	0	0	0	926	148	926	148	0
Irish potatoes	0	0	0	0	0	0	0	0
Yams	0	0	0	58	1	58	1	0
Coco Yam	0	0	0	58	5	58	5	0
ROOTS & TUBERS		**0**	**0**		**158**		**158**	**0**
Mung Bean	0	0	0	0	0	0	0	0
Beans	58	6	4,630,631	2,952	823	2,952	829	1
Cowpeas	0	0	0	695	165	695	165	0
Green gram	0	0	0	0	0	0	0	0
Bambaranuts	0	0	0	0	0	0	0	0
Field Peas	58	5	11,576,576	0	0	58	5	100
PULSES		**11**	**16,207,207**		**988**		**999**	**1**
Sunflower	0	0	0	0	0	0	0	0
Groundnut	0	0	0	232	81	232	81	0
OIL SEEDS & OIL NUTS		**0**	**0**		**81**		**81**	**0**
Okra	0	0	0	58	2	58	2	0
Radish	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	116	26	116	26	0
Onion	0	0	0	0	0	0	0	0
Cabbage	116	11	5,834,594	0	0	116	11	100
Tomatoes	579	154	14,062,646	232	38	752	192	80
Chillies	174	46	9,521,734	0	0	174	46	100
Amaranths	58	3	173,649	0	0	58	3	100
Pumpkins	0	0	.	0	0	0	0	0
Cucumber	116	18	787,207	0	0	116	18	100
Water Mellon	174	30	6,106,644	116	23	289	54	57
FRUITS & VEGETABLES		**262**	**36,486,474**		**89**		**352**	**75**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		**0**	**0**		**0**		**0**	**0**
Total		**602**	**105,934,355**		**2,217**		**2,819**	**21**

8.45 Planted Area & Number of Households by Herbicide Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON – Kibondo

Crop	HERBICIDE							
	Number of Households using Herbicide	Planted Area Applied with Herbicide	Cost of Herbicide	Number of Households NOT using Herbicide	Planted Area Without Herbicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area Planted Herbicide
Maize	0	0	0	69,459	36,868	69,459	69,459	0
Paddy	0	0	0	2,987	1,134	2,987	2,987	0
Sorghum	0	0	0	17,178	6,059	17,178	17,178	0
Bulrush Millet	0	0	0	0	.	0	0	0
Finger Millet	0	0	0	1,307	472	1,307	1,307	0
Wheat	0	0	0	0	.	0	0	0
CEREALS		**0**	**0**		**44,533**		**90,931**	**0**
Cassava	0	0	0	0	.	0	0	0
Sweet Potato	0	0	0	187	38	187	187	0
Irish potatoes	0	0	0	0	.	0	0	0
Yams	0	0	0	0	.	0	0	0
Coco Yam	0	0	0	0	.	0	0	0
ROOTS & TUBERS		**0**	**0**		**38**		**187**	**0**
Mung Bean	0	0	0	0	.	0	0	0
Beans	0	0	0	47,426	14,049	47,426	47,426	0
Cowpeas	0	0	0	747	219	747	747	0
Green gram	0	0	0	187	23	187	187	0
Bambaranuts	0	0	0	0	.	0	0	0
Field Peas	0	0	0	0	.	0	0	0
PULSES		**0**	**0**		**14,291**		**48,360**	**0**
Sunflower	0	0	0	373	125	373	373	0
Groundnut	0	0	0	14,377	5,171	14,377	14,377	0
OIL SEEDS & OIL NUTS		**0**	**0**		**5,295**		**14,751**	**0**
Okra	0	0	0	0	0	0	0	0
Radish	0	0	0	187	76	187	187	0
Bitteer Aubergine	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0
Cabbage	187	19	1,493,738	0	0	187	19	100
Tomatoes	0	0	0	934	83	934	934	0
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	187	19	187	187	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**19**	**1,493,738**		**178**		**1,326**	**1**
Cotton	0	0	0	373	378	373	373	0
Tobacco	0	0	0	1,120	529	1,120	1,120	0
CASH CROPS		**0**	**0**		**907**		**1,494**	**0**
Total		**19**	**1,493,738**		**65,242**		**157,048**	**0**

8.46 Planted Area & Number of Households by Herbicide Use by Crop during 2007/08 Agriculture Year - SHORT RAINY SEASON – Kasulu

Crop	HERBICIDE							
	Number of Households using Herbicide	Planted Area Applied with Herbicide	Cost of Herbicide	Number of Households NOT using Herbicide	Planted Area Without Herbicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Herbicide
Maize	0	0	0	60,521	24,009	60,521	60,521	0
Paddy	0	0	0	2,336	666	2,336	2,336	0
Sorghum	0	0	0	2,336	645	2,336	2,336	0
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	637	129	637	637	0
Wheat	0	0	0	425	86	425	425	0
CEREALS		**0**	**0**		**25,535**		**66,255**	**0**
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	4,884	480	4,884	4,884	0
Irish potatoes	0	0	0	212	21	212	212	0
Yams	0	0	0	212	7	212	212	0
Coco Yam	0	0	0	212	21	212	212	0
ROOTS & TUBERS		**0**	**0**		**530**		**5,521**	**0**
Mung Bean	0	0	0	212	34	212	212	0
Beans	0	0	0	53,726	15,299	53,726	53,726	0
Cowpeas	0	0	0	0	0	0	0	0
Green gram	0	0	0	0	0	0	0	0
Bambaranuts	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0
PULSES		**0**	**0**		**15,333**		**53,938**	**0**
Sunflower	0	0	0	0	0	0	0	0
Groundnut	0	0	0	9,344	1,709	9,344	9,344	0
OIL SEEDS & OIL NUTS		**0**	**0**		**1,709**		**9,344**	**0**
Okra	0	0	0	0	0	0	0	0
Radish	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	637	116	637	637	0
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	212	13	212	212	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**0**	**0**		**129**		**849**	**0**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		**0**	**0**		**0**		**0**	**0**
Total		**0**	**0**		**43,236**		**135,908**	**0**

8.47 Planted Area & Number of Households by Herbicide Use by Crop during 2007/08 Agriculture Year - SHORT RAINY SEASON - Kigoma Rural

	HERBICIDE							
Crop	Number of Households using Herbicide	Planted Area Applied with Herbicide	Cost of Herbicide	Number of Households NOT using Herbicide	Planted Area Without Herbicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Herbicide
Maize	0	0	0	36,985	18,368	36,985	36,985	0
Paddy	0	0	0	4,093	3,214	4,093	4,093	0
Sorghum	0	0	0	0	0	0	0	0
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**0**	**0**		**21,582**		**41,078**	**0**
Cassava	0	0	0	292	142	292	292	0
Sweet Potato	0	0	0	3,508	793	3,508	3,508	0
Irish potatoes	0	0	0	146	18	146	146	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	439	104	439	439	0
ROOTS & TUBERS		**0**	**0**		**1,056**		**4,386**	**0**
Mung Bean	0	0	0	877	300	877	877	0
Beans	0	0	0	26,898	9,871	26,898	26,898	0
Cowpeas	0	0	0	731	57	731	731	0
Green gram	0	0	0	0	0	0	0	0
Bambaranuts	0	0	0	439	59	439	439	0
Field Peas	0	0	0	146	44	146	146	0
PULSES		**0**	**0**		**10,332**		**29,091**	**0**
Sunflower	0	0	0	0	0	0	0	0
Groundnut	0	0	0	9,210	3,784	9,210	9,210	0
OIL SEEDS & OIL NUTS		**0**	**0**		**3,784**		**9,210**	**0**
Okra	0	0	0	585	166	585	585	0
Radish	0	0	0	146	38	146	146	0
Bitteer Aubergine	0	0	0	292	44	292	292	0
Onion	0	0	0	0	0	0	0	0
Cabbage	0	0	0	146	15	146	146	0
Tomatoes	0	0	0	1,169	473	1,169	1,169	0
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	292	96	292	292	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	146	59	146	146	0
FRUITS & VEGETABLES		**0**	**0**		**892**		**2,778**	**0**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	1,900	1,420	1,900	1,900	0
CASH CROPS		**0**	**0**		**1,420**		**1,900**	**0**
Total		**0**	**0**		**39,066**		**88,442**	**0**

8.48 Planted Area & Number of Households by Herbicide Use by Crop during 2007/08 Agriculture Year - SHORT RAINY SEASON - Kigoma Urban

	HERBICIDE							
Crop	Number of Households using Herbicide	Planted Area Applied with Herbicide	Cost of Herbicide	Number of Households NOT using Herbicide	Planted Area Without Herbicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Herbicide
Maize	0	0	0	2,663	1,178	2,663	2,663	0
Paddy	0	0	0	116	52	116	116	0
Sorghum	0	0	0	0	0	0	0	0
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
CEREALS	**0**	**0**	**0**	**2,778**	**1,230**	**2,778**	**2,778**	**0**
Cassava	0	0	0	58	4	58	58	0
Sweet Potato	0	0	0	926	148	926	926	0
Irish potatoes	0	0	0	0	0	0	0	0
Yams	0	0	0	58	1	58	58	0
Coco Yam	0	0	0	58	5	58	58	0
ROOTS & TUBERS	**0**	**0**	**0**	**1,100**	**158**	**1,100**	**1,100**	**0**
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	2,952	829	2,952	2,952	0
Cowpeas	0	0	0	695	165	695	695	0
Green gram	0	0	0	0	0	0	0	0
Bambaranuts	0	0	0	0	0	0	0	0
Field Peas	0	0	0	58	0	58	58	0
PULSES	**0**	**0**	**0**	**3,705**	**999**	**3,705**	**3,705**	**0**
Sunflower	0	0	0	0	0	0	0	0
Groundnut	0	0	0	232	81	232	232	0
OIL SEEDS & OIL NUTS	**0**	**0**	**0**	**232**	**81**	**232**	**232**	**0**
Okra	0	0	0	58	2	58	58	0
Radish	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	116	26	116	116	0
Onion	0	0	0	0	0	0	0	0
Cabbage	0	0	0	116	11	116	116	0
Tomatoes	116	23	4,051,802	637	169	752	660	3.5499
Chillies	0	0	0	174	46	174	174	0
Amaranths	0	0	0	58	3	58	58	0
Pumpkins	0	0	0	0	.	0	0	0
Cucumber	0	0	0	116	18	116	116	0
Water Mellon	0	0	0	289	54	289	289	0
FRUITS &VEGETABLES	**116**	**23**	**4,051,802**	**1,563**	**328**	**1,679**	**1,586**	**1.4773**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Total	**116**	**23**	**4,051,802**	**9,377**	**2,795**	**9,493**	**9,400**	**0.2493**

8.49 Planted Area & Number of Households by Insecticide Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - Kibondo

Crop	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	% of area planted Insecticide
Maize	0	0	0	5,975	3,557	5,975	3,557	0
Paddy	0	0	0	0	0	0	0	0
Sorghum	0	0	0	3,734	1,527	3,734	1,527	0
Bulrush Millet	0	0	0	1,120	643	1,120	643	0
Finger Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**0**	**0**		**5,726**		**5,726**	**0**
Cassava	0	0	0	373	227	373	227	0
Sweet Potato	0	0	0	0	0	0	0	0
Irish potatoes	0	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
ROOTS & TUBERS		**0**	**0**		**227**		**227**	**0**
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	6,722	1,943	6,722	1,943	0
Cowpeas	0	0	0	187	30	187	30	0
Green gram	0	0	0	0	0	0	0	0
Bambaranuts	0	0	0	187	57	187	57	0
Field Peas	0	0	0	0	0	0	0	0
PULSES		**0**	**0**		**2,030**		**2,030**	**0**
Sunflower	0	0	0	0	0	0	0	0
Groundnut	0	0	0	5,788	1,928	5,788	1,928	0
OIL SEEDS & OIL NUTS		**0**	**0**		**1,928**		**1,928**	**0**
Okra	0	0	0	0	0	0	0	0
Radish	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	0	0	0	0	0
Onion	0	0	0	187	8	187	8	0
Cabbage	0	0	0	187	8	187	8	0
Tomatoes	0	0	0	187	8	187	8	0
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**0**	**0**		**23**		**23**	**0**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		**0**	**0**		**0**		**0**	**0**
Total		**0**	**0**		**9,933**		**9,933**	**0**

8.50 Planted Area & Number of Households by Insecticide Use by Crop during 2007/08 Agriculture Year - LONG RAINY SEASON - Kasulu

Crop	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	% of area planted Insecticide
Maize	212	69	424,712	19,961	7,906	20,174	7,975	1
Paddy	0	0	0	212	146	212	146	0
Sorghum	0	0	0	212	86	212	86	0
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**69**	**424,712**		**8,138**		**8,207**	**1**
Cassava	0	0	0	212	35	212	35	0
Sweet Potato	0	0	0	2,336	315	2,336	315	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	212	21	212	21	0
ROOTS & TUBERS		**0**	**0**		**371**		**371**	**0**
Mung Bean	0	0	0	4,884	2,020	4,884	2,020	0
Beans	425	533	998,074	34,826	12,392	35,251	12,925	4
Cowpeas	0	0	0	0	0	0	0	0
Green gram	0	0	0	212	86	212	86	0
Bambaranuts	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0
PULSES		**533**	**998,074**		**14,498**		**15,031**	**4**
Sunflower	0	0	0	425	86	425	86	0
Groundnut	0	0	0	4,035	763	4,035	763	0
OIL SEEDS & OIL NUTS		**0**	**0**		**849**		**849**	**0**
Okra	0	0	0	0	0	0	0	0
Radish	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
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	212	26	212	26	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**0**	**0**		**26**		**26**	**0**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		**0**	**0**		**0**		**0**	**0**
Total		**602**	**1,422,786**		**23,883**		**24,485**	**2**

8.51 Planted Area & Number of Households by Insecticide Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - Kigoma Rural

	Insecticide							
Crop	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	% of area planted Insecticide
Maize	731	408	9,502,001	5,847	2,478	6,578	2,886	14
Paddy	0	0	0	877	444	877	444	0
Sorghum	0	0	0	146	59	146	59	0
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**408**	**9,502,001**		**2,981**		**3,389**	**12**
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	1,754	666	1,754	666	0
Irish potatoes	0	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
ROOTS & TUBERS		**0**	**0**		**666**		**666**	**0**
Mung Bean	0	0	0	0	0	0	0	0
Beans	146	118	17,542,156	8,917	3,518	9,063	3,637	3
Cowpeas	0	0	0	0	0	0	0	0
Green gram	0	0	0	0	0	0	0	0
Bambaranuts	0	0	0	0	0	0	0	0
Field Peas	146	6	365,462	0	0	146	6	100
PULSES		**124**	**17,907,618**		**3,518**		**3,643**	**3**
Sunflower	0	0	0	0	0	0	0	0
Groundnut	0	0	0	146	89	146	89	0
OIL SEEDS & OIL NUTS		**0**	**0**		**89**		**89**	**0**
Okra	0	0	0	0	0	0	0	0
Radish	0	0	0	0	0	0	0	0
Bitteer Aubergine	292	74	4,751,001	0	0	292	74	100
Onion	146	3	2,923,693	0	0	146	3	100
Cabbage	146	30	1,461,846	0	0	146	30	100
Tomatoes	731	151	10,671,478	0	0	731	151	100
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**257**	**19,808,018**		**0**		**257**	**100**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		**0**	**0**		**0**		**0**	**0**
Total		**790**	**47,217,637**		**7,254**		**8,044**	**10**

8.52 Planted Area & Number of Households by Insecticide Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - Kigoma Urban

Crop	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	% of area planted Insecticide
Maize	0	0	0	868	328	868	328	0
Paddy	0	0	0	463	123	463	123	0
Sorghum	0	0	0	0	0	0	0	0
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**0**	**0**		**451**		**451**	**0**
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	463	88	463	88	0
Irish potatoes	0	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
ROOTS & TUBERS		**0**	**0**		**88**		**88**	**0**
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	810	223	810	223	0
Cowpeas	0	0	0	58	12	58	12	0
Green gram	0	0	0	0	0	0	0	0
Bambaranuts	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0
PULSES		**0**	**0**		**234**		**234**	**0**
Sunflower	0	0	0	0	0	0	0	0
Groundnut	0	0	0	0	0	0	0	0
OIL SEEDS & OIL NUTS		**0**	**0**		**0**		**0**	**0**
Okra	0	0	0	0	0	0	0	0
Radish	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	58	23	58	23	0
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**0**	**0**		**23**		**23**	**0**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		**0**	**0**		**0**		**0**	**0**
Total		**0**	**0**		**797**		**797**	**0**

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

Crop	Fungicide							
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Cost of Fungicide	Number of Households NOT using Fungicide	Planted Area Without Fungicide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of area planted Fungicide
Maize	0	0	0	5,975	3,557	5,975	3,557	0
Paddy	0	0	0	0	0	0	0	0
Sorghum	0	0	0	3,734	1,527	3,734	1,527	0
Bulrush Millet	0	0	0	1,120	643	1,120	643	0
Finger Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**0**	**0**		**5,726**		**5,726**	**0**
Cassava	0	0	0	373	227	373	227	0
Sweet Potato	0	0	0	0	0	0	0	0
Irish potatoes	0	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
ROOTS & TUBERS		**0**	**0**		**227**		**227**	**0**
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	6,722	1,943	6,722	1,943	0
Cowpeas	0	0	0	187	30	187	30	0
Green gram	0	0	0	0	0	0	0	0
Bambaranuts	0	0	0	187	57	187	57	0
Field Peas	0	0	0	0	0	0	0	0
PULSES		**0**	**0**		**2,030**		**2,030**	**0**
Sunflower	0	0	0	0	0	0	0	0
Groundnut	0	0	0	5,788	1,928	5,788	1,928	0
OIL SEEDS & OIL NUTS		**0**	**0**		**1,928**		**1,928**	**0**
Okra	0	0	0	0	0	0	0	0
Radish	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	0	0	0	0	0
Onion	0	0	0	187	8	187	8	0
Cabbage	0	0	0	187	8	187	8	0
Tomatoes	0	0	0	187	8	187	8	0
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**0**	**0**		**23**		**23**	**0**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		**0**	**0**		**0**		**0**	**0**
Total		**0**	**0**		**9,933**		**9,933**	**0**

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

	Fungicide							
Crop	Number of Households using Fungicide	Planted Area Applied with Fungicide	Cost of Fungicide	Number of Households NOT using Fungicide	Planted Area Without Fungicide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of area planted Fungicide
Maize	0	0	0	20,174	7,975	20,174	7,975	0
Paddy	0	0	0	212	146	212	146	0
Sorghum	0	0	0	212	86	212	86	0
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**0**	**0**		**8,207**		**8,207**	**0**
Cassava	0	0	0	212	35	212	35	0
Sweet Potato	0	0	0	2,336	315	2,336	315	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	212	21	212	21	0
ROOTS & TUBERS		**0**	**0**		**371**		**371**	**0**
Mung Bean	0	0	0	4,884	2,020	4,884	2,020	0
Beans	0	0	0	35,251	12,925	35,251	12,925	0
Cowpeas	0	0	0	0	0	0	0	0
Green gram	0	0	0	212	86	212	86	0
Bambaranuts	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0
PULSES		**0**	**0**		**15,031**		**15,031**	**0**
Sunflower	0	0	0	425	86	425	86	0
Groundnut	0	0	0	4,035	763	4,035	763	0
OIL SEEDS & OIL NUTS		**0**	**0**		**849**		**849**	**0**
Okra	0	0	0	0	0	0	0	0
Radish	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
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	212	26	212	26	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**0**	**0**		**26**		**26**	**0**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		**0**	**0**		**0**		**0**	**0**
Total		**0**	**0**		**24,485**		**24,485**	**0**

8.55 Planted Area & Number of Households by Fungicide Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - Kigoma Rural

Crop	Fungicide							
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Cost of Fungicide	Number of Households NOT using Fungicide	Planted Area Without Fungicide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of area planted Fungicide
Maize	0	0	0	6,578	2,886	6,578	2,886	0
Paddy	0	0	0	877	444	877	444	0
Sorghum	0	0	0	146	59	146	59	0
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**0**	**0**		**3,389**		**3,389**	**0**
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	1,754	666	1,754	666	0
Irish potatoes	0	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
ROOTS & TUBERS		**0**	**0**		**666**		**666**	**0**
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	9,063	3,637	9,063	3,637	0
Cowpeas	0	0	0	0	0	0	0	0
Green gram	0	0	0	0	0	0	0	0
Bambaranuts	0	0	0	0	0	0	0	0
Field Peas	146	6	555,502	0	0	146	6	100
PULSES		**6**	**555,502**		**3,637**		**3,643**	**0**
Sunflower	0	0	0	0	0	0	0	0
Groundnut	0	0	0	146	89	146	89	0
OIL SEEDS & OIL NUTS		**0**	**0**		**89**		**89**	**0**
Okra	0	0	0	0	0	0	0	0
Radish	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	292	74	292	74	0
Onion	146	3	3,654,616	0	0	146	3	100
Cabbage	0	0	0	146	30	146	30	0
Tomatoes	731	151	19,442,556	0	0	731	151	100
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**154**	**23,097,172**		**104**		**257**	**60**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		**0**	**0**		**0**		**0**	**0**
Total		**160**	**23,652,674**		**7,885**		**8,044**	**2**

8.56 Planted Area & Number of Households by Fungicide Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - Kigoma Ubarn

Crop	Fungicide							
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Cost of Fungicide	Number of Households NOT using Fungicide	Planted Area Without Fungicide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of area planted Fungicide
Maize	0	0	-	868	328	868	328	0
Paddy	0	0	-	463	123	463	123	0
Sorghum	0	0	-	0	0	0	0	-
Bulrush Millet	0	0	-	0	0	0	0	-
Finger Millet	0	0	-	0	0	0	0	-
Wheat	0	0	-	0	0	0	0	-
CEREALS		**0**	**0**		**451**		**451**	**0**
Cassava	0	0	-	0	0	0	0	-
Sweet Potato	0	0	-	463	88	463	88	0
Irish potatoes	0	0	-	0	0	0	0	-
Yams	0	0	-	0	0	0	0	-
Coco Yam	0	0	-	0	0	0	0	-
ROOTS & TUBERS		**0**	**0**		**88**		**88**	**0**
Mung Bean	0	0	-	0	0	0	0	-
Beans	0	0	-	810	223	810	223	0
Cowpeas	0	0	-	58	12	58	12	0
Green gram	0	0	-	0	0	0	0	-
Bambaranuts	0	0	-	0	0	0	0	-
Field Peas	0	0	-	0	0	0	0	-
PULSES		**0**	**0**		**234**		**234**	**0**
Sunflower	0	0	-	0	0	0	0	-
Groundnut	0	0	0	0	0	0	0	-
OIL SEEDS & OIL NUTS		**0**	**0**		**0**		**0**	**0**
Okra	0	0	-	0	0	0	0	-
Radish	0	0	-	0	0	0	0	-
Bitteer Aubergine	0	0	-	0	0	0	0	-
Onion	0	0	-	0	0	0	0	-
Cabbage	0	0	-	0	0	0	0	-
Tomatoes	0	0	-	58	23	58	23	0
Chillies	0	0	-	0	0	0	0	-
Amaranths	0	0	-	0	0	0	0	-
Pumpkins	0	0	-	0	0	0	0	-
Cucumber	0	0	-	0	0	0	0	-
Water Mellon	0	0	-	0	0	0	0	-
FRUITS & VEGETABLES		**0**	**0**		**23**		**23**	**0**
Cotton	0	0	-	0	0	0	0	-
Tobacco	0	0	-	0	0	0	0	-
CASH CROPS		**0**	**0**		**0**		**0**	**0**
Total		**0**	**0**		**797**		**797**	**0**

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

Crop	Irrigation						
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of Planted area using Irrigation
Maize	0	0	5,975	3,557	5,975	3,557	0
Paddy	0	0	0	0	0	0	0
Sorghum	0	0	3,734	1,527	3,734	1,527	0
Bulrush Millet	0	0	1,120	643	1,120	643	0
Finger Millet	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0
CEREALS		**0**		**5,726**		**5,726**	**0**
Cassava	0	0	373	227	373	227	0
Sweet Potato	0	0	0	0	0	0	0
Irish potatoes	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0
ROOTS & TUBERS		**0**		**227**		**227**	**0**
Mung Bean	0	0	0	0	0	0	0
Beans	0	0	6,722	1,943	6,722	1,943	0
Cowpeas	0	0	187	30	187	30	0
Green gram	0	0	0	0	0	0	0
Bambaranuts	0	0	187	57	187	57	0
Field Peas	0	0	0	0	0	0	0
PULSES		**0**		**2,030**		**2,030**	**0**
Sunflower	0	0	0	0	0	0	0
Groundnut	187	38	5,602	1,890	5,788	1,928	2.0
OIL SEEDS & OIL NUTS		**38**		**1,890**		**1,928**	**2.0**
Okra	0	0	0	0	0	0	0
Radish	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	0	0	0	0
Onion	0	0	187	8	187	8	0
Cabbage	0	0	187	8	187	8	0
Tomatoes	0	0	187	8	187	8	0
Chillies	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**0**		**23**		**23**	**0**
Cotton	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0
CASH CROPS		**0**		**0**		**0**	**0**
Total		**38**		**9,895**		**9,933**	**0.4**

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

Crop	Irrigation						
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of Planted area using Irrigation
Maize	0	0	20,174	7,975	20,174	7,975	0
Paddy	0	0	212	146	212	146	0
Sorghum	0	0	212	86	212	86	0
Bulrush Millet	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0
CEREALS		**0**		**8,207**		**8,207**	**0**
Cassava	212	26	0	9	212	35	75
Sweet Potato	0	0	2,336	315	2,336	315	0
Irish potatoes	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0
Coco Yam	0	0	212	21	212	21	0
ROOTS & TUBERS		**26**		**345**		**371**	**7.1**
Mung Bean	0	0	4,884	2,020	4,884	2,020	0
Beans	0	0	35,251	12,925	35,251	12,925	0
Cowpeas	0	0	0	0	0	0	0
Green gram	0	0	212	86	212	86	0
Bambaranuts	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0
PULSES		**0**		**15,031**		**15,031**	**0**
Sunflower	0	0	425	86	425	86	0
Groundnut	0	0	4,035	763	4,035	763	0
OIL SEEDS & OIL NUTS		**0**		**849**		**849**	**0**
Okra	0	0	0	0	0	0	0
Radish	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
Chillies	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0
Pumpkins	0	0	212	26	212	26	0
Cucumber	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**0**		**26**		**26**	**0**
Cotton	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0
CASH CROPS		**0**		**0**		**0**	**0**
Total		**26**		**24,458**		**24,485**	**0.1**

8.59 Planted Area & Number of Households by Irrigation Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - Kigoma Rural

Crop	Irrigation						
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of Planted area using Irrigation
Maize	0	0	6,578	2,886	6,578	2,886	0
Paddy	0	0	877	444	877	444	0
Sorghum	0	0	146	59	146	59	0
Bulrush Millet	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0
CEREALS		**0**		**3,389**		**3,389**	**0**
Cassava	0	0	0	0	0	0	0
Sweet Potato	0	0	1,754	666	1,754	666	0
Irish potatoes	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0
ROOTS & TUBERS		**0**		**666**		**666**	**0**
Mung Bean	0	0	0	0	0	0	0
Beans	0	0	9,063	3,637	9,063	3,637	0
Cowpeas	0	0	0	0	0	0	0
Green gram	0	0	0	0	0	0	0
Bambaranuts	0	0	0	0	0	0	0
Field Peas	146	6	0	0	146	6	100
PULSES		**6**		**3,637**		**3,643**	**0.2**
Sunflower	0	0	0	0	0	0	0
Groundnut	0	0	146	89	146	89	0
OIL SEEDS & OIL NUTS		**0**		**89**		**89**	**0**
Okra	0	0	0	0	0	0	0
Radish	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	292	74	292	74	0
Onion	146	3	0	0	146	3	100
Cabbage	0	0	146	30	146	30	0
Tomatoes	585	121	146	30	731	151	80
Chillies	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**124**		**133**		**257**	**48**
Cotton	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0
CASH CROPS		**0**		**0**		**0**	**0**
Total		**130**		**7,914**		**8,044**	**2**

8.60 Planted Area & Number of Households by Irrigation Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - Kigoma Urban

Crop	Irrigation						
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of Planted area using Irrigation
Maize	0	0	868	328	868	328	0
Paddy	0	0	463	123	463	123	0
Sorghum	0	0	0	0	0	0	0
Bulrush Millet	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0
CEREALS		**0**		**451**		**451**	**0**
Cassava	0	0	0	0	0	0	0
Sweet Potato	0	0	463	88	463	88	0
Irish potatoes	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0
ROOTS & TUBERS		**0**		**88**		**88**	**0**
Mung Bean	0	0	0	0	0	0	0
Beans	0	0	810	223	810	223	0
Cowpeas	0	0	58	12	58	12	0
Green gram	0	0	0	0	0	0	0
Bambaranuts	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0
PULSES		**0**		**234**		**234**	**0**
Sunflower	0	0	0	0	0	0	0
Groundnut	0	0	0	0	0	0	0
OIL SEEDS & OIL NUTS		**0**		**0**		**0**	**0**
Okra	0	0	0	0	0	0	0
Radish	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	58	23	58	23	0
Chillies	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**0**		**23**		**23**	**0**
Cotton	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0
CASH CROPS		**0**		**0**		**0**	**0**
Total		**0**		**797**		**797**	**0**

8.61 Planted Area & Number of Households by Inproved Seeds Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - Kibondo

Crop	Improved Seed							
	Number of Households using Improved seed	Planted Area Applied with Improved seed	Number of Households not using Improved seed	Planted Area Applied with no Improved seed	Cost (Tshs) of Improved seed	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of area planted using improved seed
Maize	187	113	5,788	3,443	392,106	5,975	3,557	3
Paddy	0	0	0	0	0	0	0	0
Sorghum	0	0	3,734	1,527	0	3,734	1,527	0
Bulrush Millet	0	0	1,120	643	0	1,120	643	0
Finger Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**113**		**5,613**	**392,106**		**5,726**	**2**
Cassava	0	0	373	227	0	373	227	0
Sweet Potato	0	0	0	0	0	0	0	0
Irish potatoes	0	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
ROOTS & TUBERS		**0**		**227**	**0**		**227**	**0**
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	6,722	1,943	0	6,722	1,943	0
Cowpeas	0	0	187	30	0	187	30	0
Green gram	0	0	0	0	0	0	0	0
Bambaranuts	0	0	187	57	0	187	57	0
Field Peas	0	0	0	0	0	0	0	0
PULSES		**0**		**2,030**	**0**		**2,030**	**0**
Sunflower	0	0	0	0	0	0	0	0
Groundnut	0	0	5,788	1,928	0	5,788	1,928	0
OIL SEEDS & OIL NUTS		**0**		**1,928**	**0**		**1,928**	**0**
Okra	0	0	0	0	0	0	0	0
Radish	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	0	0	0	0	0
Onion	187	8	0	0	2,800,758	187	8	100
Cabbage	187	8	0	0	2,800,758	187	8	100
Tomatoes	187	8	0	0	2,800,758	187	8	100
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**23**		**0**	**8,402,275**		**23**	**100**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		**0**		**0**	**0**		**0**	**0**
Total		**136**		**9,797**	**8,794,381**		**9,933**	**1**

8.62 Planted Area & Number of Households by Inproved Seeds Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON – Kasulu

Crop	Improved Seed							
	Number of Households using Improved seed	Planted Area Applied with Improved seed	Number of Households not using Improved seed	Planted Area Applied with no Improved seed	Cost (Tshs) of Improved seed	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of area planted using improved seed
Maize	1,911	707	18,263	7,268	9,662,204	20,174	7,975	9
Paddy	0	0	212	146	.	212	146	0
Sorghum	0	0	212	86	.	212	86	0
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**707**		**7,500**	**9,662,204**		**8,207**	**9**
Cassava	0	0	212	35	0	212	35	0
Sweet Potato	0	0	2,336	315	0	2,336	315	0
Irish potatoes	0	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	212	21	0	212	21	0
ROOTS & TUBERS		**0**		**371**	**0**		**371**	**0**
Mung Bean	0	0	4,884	2,020	0	4,884	2,020	0
Beans	0	0	35,251	12,925	0	35,251	12,925	0
Cowpeas	0	0	0	0	0	0	0	0
Green gram	0	0	212	86	0	212	86	0
Bambaranuts	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0
PULSES		**0**		**15,031**	**0**		**15,031**	**0**
Sunflower	0	0	425	86	0	425	86	0
Groundnut	0	0	4,035	763	0	4,035	763	0
OIL SEEDS & OIL NUTS		0		849	0		849	0
Okra	0	0	0	0	0	0	0	0
Radish	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
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	212	26	0	212	26	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**0**		**26**	**0**		**26**	**0**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		**0**		**0**	**0**		**0**	**0**
Total		**707**		**23,778**	**9,662,204**		**24,485**	**3**

8.63 Planted Area & Number of Households by Inproved Seeds Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - Kigoma Rural

Crop	Improved Seed							
	Number of Households using Improved seed	Planted Area Applied with Improved seed	Number of Households not using Improved seed	Planted Area Applied with no Improved seed	Cost (Tshs) of Improved seed	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of area planted using improved seed
Maize	1,169	586	5,409	2,300	19,734,926	6,578	2,886	20
Paddy	0	0	877	444	0	877	444	0
Sorghum	0	0	146	59	0	146	59	0
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**586**		**2,804**	**19,734,926**		**3,389**	**17**
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	1,754	666	0	1,754	666	0
Irish potatoes	0	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
ROOTS & TUBERS		**0**		**666**	**0**		**666**	**0**
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	9,063	3,637	0	9,063	3,637	0
Cowpeas	0	0	0	0	0	0	0	0
Green gram	0	0	0	0	0	0	0	0
Bambaranuts	0	0	0	0	0	0	0	0
Field Peas	146	6	0	0	877,108	146	6	100
PULSES		**6**		**3,637**	**877,108**		**3,643**	**0**
Sunflower	0	0	0	0	0	0	0	0
Groundnut	0	0	146	89	0	146	89	0
OIL SEEDS & OIL NUTS		**0**		**89**	**0**		**89**	**0**
Okra	0	0	0	0	0	0	0	0
Radish	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	292	74	0	292	74	0
Onion	146	3	0	0	584,739	146	3	100
Cabbage	146	30	0	0	730,923	146	30	100
Tomatoes	585	121	146	30	5,014,133	731	151	80
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**154**		**104**	**6,329,795**		**257**	**60**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		**0**		**0**	**0**		**0**	**0**
Total		**746**		**7,299**	**26,941,828**		**8,044**	**9**

8.64 Planted Area & Number of Households by Inproved Seeds Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - Kigoma Urban

Crop	Improved Seed							
	Number of Households using Improved seed	Planted Area Applied with Improved seed	Number of Households not using Improved seed	Planted Area Applied with no Improved seed	Cost (Tshs) of Improved seed	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of area planted using improved seed
Maize	521	211	347	117	13,805,067	868	328	64
Paddy	0	0	463	123	0	463	123	0
Sorghum	0	0	0	0	0	0	0	0
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**211**		**240**	**13,805,067**		**451**	**47**
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	463	88	.	463	88	0
Irish potatoes	0	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
ROOTS & TUBERS		**0**		**88**	**.**		**88**	**0**
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	810	223	0	810	223	0
Cowpeas	0	0	58	12	0	58	12	0
Green gram	0	0	0	0	0	0	0	0
Bambaranuts	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0
PULSES		**0**		**234**	**.**		**234**	**0**
Sunflower	0	0	0	0	0	0	0	0
Groundnut	0	0	0	0	0	0	0	0
OIL SEEDS & OIL NUTS		**0**		**0**	**0**		**0**	**0**
Okra	0	0	0	0	0	0	0	0
Radish	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	58	23	0	0	3,472,973	58	23	100
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**23**		**0**	**3,472,973**		**23**	**100**
Cotton	0	0	0	0	0	0	0	o
Tobacco	0	0	0	0	0	0	0	o
CASH CROPS		**0**		**0**	**0**		**0**	**o**
Total		**234**		**562**	**17,278,040**		**797**	**29**

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

	Local Seed							
Crop	Number of Households using Local seed	Planted Area Applied with Local seed	Number of Households not using Local seed	Planted Area Applied with no Local seed	Cost of Local seed	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of area planted using Local seed
Maize	5,788	3,130	187	427	29,742,186	5,975	3,557	88
Paddy	0	0	0	0	0	0	0	0
Sorghum	3,734	1,527	0	0	8,738,366	3,734	1,527	100
Bulrush Millet	1,120	643	0	0	2,707,400	1,120	643	100
Finger Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**5,299**		**427**	**41,187,952**		**5,726**	**93**
Cassava	373	227	0	0	6,535,103	373	227	100
Sweet Potato	0	0	0	0	0	0	0	0
Irish potatoes	0	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
ROOTS & TUBERS		**227**		**0**	**6,535,103**		**227**	**100**
Mung Bean	0	0	0	0	0	0	0	0
Beans	6,722	1,856	0	87	107,545,384	6,722	1,943	96
Cowpeas	187	30	0	0	93,359	187	30	100
Green gram	0	0	0	0	0	0	0	0
Bambaranuts	187	57	0	0	560,152	187	57	100
Field Peas	0	0	0	0	0	0	0	0
PULSES		**1,943**		**87**	**108,198,895**		**2,030**	**96**
Sunflower	0	0	0	0	0	0	0	0
Groundnut	5,788	1,866	0	61	150,105,334	5,788	1,928	97
OIL SEEDS & OIL NUTS		**1,866**		**61**	**150,105,334**		**1,928**	**97**
Okra	0	0	0	0	0	0	0	0
Radish	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	0	0	0	0	0
Onion	0	0	187	8	0	187	8	0
Cabbage	0	0	187	8	0	187	8	0
Tomatoes	0	0	187	8	0	187	8	0
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**0**		**23**	**.**		**23**	**0**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		**0**		**0**	**0**		**0**	**0**
Total		**9,335**		**598**	**306,027,283**		**9,933**	**94**

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

	Local Seed							
Crop	Number of Households using Local seed	Planted Area Applied with Local seed	Number of Households not using Local seed	Planted Area Applied with no Local seed	Cost of Local seed	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of area planted using Local seed
Maize	18,263	6,920	1,911	1,055	76,288,939	20,174	7,975	87
Paddy	212	146	0	0	7,644,821	212	146	100
Sorghum	212	86	0	0	1,698,849	212	86	100
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**7,152**		**1,055**	**85,632,609**		**8,207**	**87**
Cassava	212	35	0	0	3,397,698	212	35	100
Sweet Potato	2,336	315	0	0	10,872,634	2,336	315	100
Irish potatoes	0	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	212	21	0	0	1,274,137	212	21	100
ROOTS & TUBERS		**371**		**0**	**15,544,469**		**371**	**100**
Mung Bean	4,884	1,821	0	199	101,166,459	4,884	2,020	90
Beans	35,251	12,880	0	45	741,906,267	35,251	12,925	100
Cowpeas	0	0	0	0	0	0	0	0
Green gram	212	86	0	0	4,417,007	212	86	100
Bambaranuts	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0
PULSES		**14,787**		**244**	**847,489,734**		**15,031**	**98**
Sunflower	425	15	0	71	2,229,739	425	86	17.5
Groundnut	4,035	763	0	0	28,561,899	4,035	763	100
OIL SEEDS & OIL NUTS		**778**		**71**	**30,791,639**		**849**	**92**
Okra	0	0	0	0	0	0	0	0
Radish	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
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	212	6	0	19	212,356	212	26	25
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**6**		**19**	**212,356**		**26**	**25**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		**0**		**0**	**0**		**0**	**0**
Total		**23,096**		**1,389**	**979,670,806**		**24,485**	**94**

8.67 Planted Area & Number of Households by Local Seeds Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - Kigoma Rural

Crop	Local Seed							
	Number of Households using Local seed	Planted Area Applied with Local seed	Number of Households not using Local seed	Planted Area Applied with no Local seed	Cost of Local seed	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of area planted using Local seed
Maize	5,409	2,273	1,169	614	47,056,834	6,578	2,886	79
Paddy	877	444	0	0	7,484,653	877	444	100
Sorghum	146	59	0	0	4,093,170	146	59	100
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**2,776**		**614**	**58,634,657**		**3,389**	**82**
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	1,754	666	0	0	22,161,591	1,754	666	100
Irish potatoes	0	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
ROOTS & TUBERS		**666**		**0**	**22,161,591**		**666**	**100**
Mung Bean	0	0	0	0	0	0	0	0
Beans	9,063	3,626	0	11	149,649,210	9,063	3,637	100
Cowpeas	0	0	0	0	0	0	0	0
Green gram	0	0	0	0	0	0	0	0
Bambaranuts	0	0	0	0	0	0	0	0
Field Peas	0	0	146	6	0	146	6	0
PULSES		**3,626**		**17**	**149,649,210**		**3,643**	**100**
Sunflower	0	0	0	0	0	0	0	0
Groundnut	146	89	0	0	4,385,539	146	89	100
OIL SEEDS & OIL NUTS		**89**		**0**	**4,385,539**		**89**	**100**
Okra	0	0	0	0	0	0	0	0
Radish	0	0	0	0	0	0	0	0
Bitteer Aubergine	292	74	0	0	4,531,724	292	74	100
Onion	0	0	146	3	.	146	3	0
Cabbage	0	0	146	30	.	146	30	0
Tomatoes	146	30	585	121	116,948	731	151	20
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**104**		**154**	**4,648,671**		**257**	**40**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		**0**		**0**	**0**		**0**	**0**
Total		**7,260**		**785**	**239,479,667**		**8,044**	**90**

8.68 Planted Area & Number of Households by Local Seeds Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - Kigoma Urban

	Local Seed							
Crop	Number of Households using Local seed	Planted Area Applied with Local seed	Number of Households not using Local seed	Planted Area Applied with no Local seed	Cost of Local seed	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of area planted using Local seed
Maize	347	117	521	211	4,659,572	868	328	35.7143
Paddy	463	123	0	0	7,466,892	463	123	100
Sorghum	0	0	0	0	0	0	0	0
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**240**		**211**	**12,126,464**		**451**	**53.2468**
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	463	88	0	0	8,335,135	463	88	100
Irish potatoes	0	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
ROOTS & TUBERS		**88**		**0**	**8,335,135**		**88**	**100**
Mung Bean	0	0	0	0	0	0	0	0
Beans	810	223	0	0	18,580,405	810	223	100
Cowpeas	58	12	0	0	1,157,658	58	12	100
Green gram	0	0	0	0	0	0	0	0
Bambaranuts	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0
PULSES		**234**		**0**	**19,738,063**		**234**	**100**
Sunflower	0	0	0	0	0	0	0	0
Groundnut	0	0	0	0	0	0	0	0
OIL SEEDS & OIL NUTS		**0**		**0**	**0**		**0**	**0**
Okra	0	0	0	0	0	0	0	0
Radish	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	58	23	.	58	23	0
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**0**		**23**	**.**		**23**	**0**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		**0**		**0**	**0**		**0**	0
Total		**562**		**234**	**40,199,661**		**797**	**70.5882**

8.69 Planted Area & Number of Households by Organic Fertilizer Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - Kibondo

Crop	Organic Fertilizer							
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Cost (Tshs) of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Without Organic Fertilizer	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of area planted Organic Fertilizer
Maize	0	0	0	5,975	3,557	5,975	3,557	0
Paddy	0	0	0	0	0	0	0	0
Sorghum	0	0	0	3,734	1,527	3,734	1,527	0
Bulrush Millet	0	0	0	1,120	643	1,120	643	0
Finger Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**0**	**0**		**5,726**		**5,726**	**0**
Cassava	0	0	0	373	227	373	227	0
Sweet Potato	0	0	0	0	0	0	0	0
Irish potatoes	0	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
ROOTS & TUBERS		**0**	**0**		**227**		**227**	**0**
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	6,722	1,943	6,722	1,943	0
Cowpeas	0	0	0	187	30	187	30	0
Green gram	0	0	0	0	0	0	0	0
Bambaranuts	0	0	0	187	57	187	57	0
Field Peas	0	0	0	0	0	0	0	0
PULSES		**0**	**0**		**2,030**		**2,030**	**0**
Sunflower	0	0	0	0	0	0	0	0
Groundnut	0	0	0	5,788	1,928	5,788	1,928	0
OIL SEEDS & OIL NUTS		**0**	**0**		**1,928**		**1,928**	**0**
Okra	0	0	0	0	0	0	0	0
Radish	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	0	0	0	0	0
Onion	0	0	0	187	8	187	8	0
Cabbage	0	0	0	187	8	187	8	0
Tomatoes	0	0	0	187	8	187	8	0
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**0**	**0**		**23**		**23**	**0**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		**0**	**0**		**0**		**0**	**0**
Total		**0**	**0**		**9,933**		**9,933**	**0**

8.70 Planted Area & Number of Households by Organic Fertilizer Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - Kasulu

Crop	Organic Fertilizer							
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Cost (Tshs) of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Without Organic Fertilizer	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of area planted Organic Fertilizer
Maize	637	72	3,397,698	19,961	7,903	20,174	7,975	0.9
Paddy	0	0	0	212	146	212	146	0
Sorghum	0	0	0	212	86	212	86	0
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**72**	**3,397,698**		**8,135**		**8,207**	**0.9**
Cassava	0	0	0	212	35	212	35	0
Sweet Potato	0	0	0	2,336	315	2,336	315	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	212	21	212	21	0
ROOTS & TUBERS		**0**	**0**		**371**		**371**	**0**
Mung Bean	0	0	0	4,884	2,020	4,884	2,020	0
Beans	0	0	0	35,251	12,925	35,251	12,925	0
Cowpeas	0	0	0	0	0	0	0	0
Green gram	0	0	0	212	86	212	86	0
Bambaranuts	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0
PULSES		**0**	**0**		**15,031**		**15,031**	**0**
Sunflower	0	0	0	425	86	425	86	0
Groundnut	0	0	0	4,035	763	4,035	763	0
OIL SEEDS & OIL NUTS		**0**	**0**		**849**		**849**	**0**
Okra	0	0	0	0	0	0	0	0
Radish	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
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	212	26	212	26	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**0**	**0**		**26**		**26**	**0**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		**0**	**0**		**0**		**0**	**0**
Total		**72**	**3,397,698**		**24,413**		**24,485**	**0.3**

8.71 Planted Area & Number of Households by Organic Fertilizer Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - Kigoma Rural

Crop	Organic Fertilizer							
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Cost (Tshs) of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Without Organic Fertilizer	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of area planted Organic Fertilizer
Maize	146	44	1,315,662	6,578	2,842	6,578	2,886	2
Paddy	0	0	0	877	444	877	444	0
Sorghum	0	0	0	146	59	146	59	0
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**44**	**1,315,662**		**3,345**		**3,389**	**1**
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	1,754	666	1,754	666	0
Irish potatoes	0	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
ROOTS & TUBERS		**0**	**0**		**666**		**666**	**0**
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	9,063	3,637	9,063	3,637	0
Cowpeas	0	0	0	0	0	0	0	0
Green gram	0	0	0	0	0	0	0	0
Bambaranuts	0	0	0	0	0	0	0	0
Field Peas	0	0	0	146	6	146	6	0
PULSES		**0**	**0**		**3,643**		**3,643**	**0**
Sunflower	0	0	0	0	0	0	0	0
Groundnut	0	0	0	146	89	146	89	0
OIL SEEDS & OIL NUTS		**0**	**0**		**89**		**89**	**0**
Okra	0	0	0	0	0	0	0	0
Radish	0	0	0	0	0	0	0	0
Bitteer Aubergine	146	44	1,461,846	146	30	292	74	60
Onion	0	0	0	146	3	146	3	0
Cabbage	146	30	9,648,186	0	0	146	30	100
Tomatoes	146	30	365,462	585	121	731	151	20
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**104**	**11,475,494**		**154**		**257**	**40**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		**0**	**0**		**0**		**0**	**0**
Total		**148**	**12,791,155**		**7,896**		**8,044**	**2**

8.72 Planted Area & Number of Households by Organic Fertilizer Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - Kigoma Urban

Crop	Organic Fertilizer							
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Cost (Tshs) of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Without Organic Fertilizer	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of area planted Organic Fertilizer
Maize	0	0	0	868	328	868	328	0
Paddy	0	0	0	463	123	463	123	0
Sorghum	0	0	0	0	0	0	0	0
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**0**	**0**		**451**		**451**	**0**
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	463	88	463	88	0
Irish potatoes	0	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
ROOTS & TUBERS		**0**	**0**		**88**		**88**	**0**
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	810	223	810	223	0
Cowpeas	0	0	0	58	12	58	12	0
Green gram	0	0	0	0	0	0	0	0
Bambaranuts	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0
PULSES		**0**	**0**		**234**		**234**	**0**
Sunflower	0	0	0	0	0	0	0	0
Groundnut	0	0	0	0	0	0	0	0
OIL SEEDS & OIL NUTS		**0**	**0**		**0**		**0**	**0**
Okra	0	0	0	0	0	0	0	0
Radish	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	58	23	58	23	0
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**0**	**0**		**23**		**23**	**0**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		**0**	**0**		**0**		**0**	**0**
Total		**0**	**0**		**797**		**797**	**0**

8.73 Planted Area & Number of Households by Inorganic Fertilizer Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - Kibondo

Crop	Inorganic Fertilizer							
	Number of Households using Inorganic Fertilizer	Planted Area Applied with Inorganic Fertilizer	Cost (Tshs) of Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area Without Inorganic Fertilizer	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of area planted Inorganic Fertilizer
Maize	0	0	0	5,975	3,557	5,975	3,557	0
Paddy	0	0	0	0	0	0	0	0
Sorghum	0	0	0	3,734	1,527	3,734	1,527	0
Bulrush Millet	0	0	0	1,120	643	1,120	643	0
Finger Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**0**	**0**		**5,726**		**5,726**	**0**
Cassava	0	0	0	373	227	373	227	0
Sweet Potato	0	0	0	0	0	0	0	0
Irish potatoes	0	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
ROOTS & TUBERS		**0**	**0**		**227**		**227**	**0**
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	6,722	1,943	6,722	1,943	0
Cowpeas	0	0	0	187	30	187	30	0
Green gram	0	0	0	0	0	0	0	0
Bambaranuts	0	0	0	187	57	187	57	0
Field Peas	0	0	0	0	0	0	0	0
PULSES		**0**	**0**		**2,030**		**2,030**	**0**
Sunflower	0	0	0	0	0	0	0	0
Groundnut	0	0	0	5,788	1,928	5,788	1,928	0
OIL SEEDS & OIL NUTS		**0**	**0**		**1,928**		**1,928**	**0**
Okra	0	0	0	0	0	0	0	0
Radish	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	0	0	0	0	0
Onion	0	0	0	187	8	187	8	0
Cabbage	0	0	0	187	8	187	8	0
Tomatoes	0	0	0	187	8	187	8	0
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**0**	**0**		**23**		**23**	**0**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		**0**	**0**		**0**		**0**	**0**
Total		**0**	**0**		**9,933**		**9,933**	**0**

8.74 Planted Area & Number of Households by Inorganic Fertilizer Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - Kasulu

Crop	Inorganic Fertilizer							
	Number of Households using Inorganic Fertilizer	Planted Area Applied with Inorganic Fertilizer	Cost (Tshs) of Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area Without Inorganic Fertilizer	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of area planted Inorganic Fertilizer
Maize	0	0	0	20,174	7,975	20,174	7,975	0
Paddy	0	0	0	212	146	212	146	0
Sorghum	0	0	0	212	86	212	86	0
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**0**	**0**		**8,207**		**8,207**	**0**
Cassava	0	0	0	212	35	212	35	0
Sweet Potato	0	0	0	2,336	315	2,336	315	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	212	21	212	21	0
ROOTS & TUBERS		**0**	**0**		**371**		**371**	**0**
Mung Bean	0	0	0	4,884	2,020	4,884	2,020	0
Beans	212	86	13,803,148	35,039	12,839	35,251	12,925	0.7
Cowpeas	0	0	0	0	0	0	0	0
Green gram	0	0	0	212	86	212	86	0
Bambaranuts	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0
PULSES		**86**	**13,803,148**		**14,945**		**15,031**	**0.6**
Sunflower	0	0	0	425	86	425	86	0
Groundnut	0	0	0	4,035	763	4,035	763	0
OIL SEEDS & OIL NUTS		**0**	**0**		**849**		**849**	**0**
Okra	0	0	0	0	0	0	0	0
Radish	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
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	212	26	212	26	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**0**	**0**		**26**		**26**	**0**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		**0**	**0**		**0**		**0**	**0**
Total		**86**	**13,803,148**		**24,399**		**24,485**	**0.4**

8.75 Planted Area & Number of Households by Inorganic Fertilizer Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - Kigoma Rural

Crop	Inorganic Fertilizer							
	Number of Households using Inorganic Fertilizer	Planted Area Applied with Inorganic Fertilizer	Cost (Tshs) of Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area Without Inorganic Fertilizer	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of area planted Inorganic Fertilizer
Maize	1,608	734	104,054,222	4,970	2,153	6,578	2,886	25
Paddy	0	0	0	877	444	877	444	0
Sorghum	0	0	0	146	59	146	59	0
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**734**	**104,054,222**		**2,656**		**3,389**	**22**
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	1,754	666	1,754	666	0
Irish potatoes	0	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
ROOTS & TUBERS		**0**	**0**		**666**		**666**	**0**
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	9,063	3,637	9,063	3,637	0
Cowpeas	0	0	0	0	0	0	0	0
Green gram	0	0	0	0	0	0	0	0
Bambaranuts	0	0	0	0	0	0	0	0
Field Peas	146	6	1,461,846	0	0	146	6	100
PULSES		**6**	**1,461,846**		**3,637**		**3,643**	**0**
Sunflower	0	0	0	0	0	0	0	0
Groundnut	0	0	0	146	89	146	89	0
OIL SEEDS & OIL NUTS		**0**	**0**		**89**		**89**	**0**
Okra	0	0	0	0	0	0	0	0
Radish	0	0	0	0	0	0	0	0
Bitteer Aubergine	146	30	9,502,001	146	44	292	74	40
Onion	146	3	7,309,232	0	0	146	3	100
Cabbage	0	0	0	146	30	146	30	0
Tomatoes	439	107	31,429,696	292	44	731	151	71
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**139**	**48,240,929**		**118**		**257**	**54**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		**0**	**0**		**0**		**0**	**0**
Total		**879**	**153,756,998**		**7,165**		**8,044**	**11**

8.76 Planted Area & Number of Households by Inorganic Fertilizer Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - Kigoma Urban

	Inorganic Fertilizer							
Crop	Number of Households using Inorganic Fertilizer	Planted Area Applied with Inorganic Fertilizer	Cost (Tshs) of Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area Without Inorganic Fertilizer	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of area planted Inorganic Fertilizer
Maize	116	47	810,360	752	281	868	328	14
Paddy	0	0	0	463	123	463	123	0
Sorghum	0	0	0	0	0	0	0	0
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**47**	**810,360**		**404**		**451**	**10**
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	463	88	463	88	0
Irish potatoes	0	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
ROOTS & TUBERS		**0**	**0**		**88**		**88**	**0**
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	810	223	810	223	0
Cowpeas	0	0	0	58	12	58	12	0
Green gram	0	0	0	0	0	0	0	0
Bambaranuts	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0
PULSES		**0**	**0**		**234**		**234**	**0**
Sunflower	0	0	0	0	0	0	0	0
Groundnut	0	0	0	0	0	0	0	0
OIL SEEDS & OIL NUTS		**0**	**0**		**0**		**0**	**0**
Okra	0	0	0	0	0	0	0	0
Radish	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	58	23	58	23	0
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**0**	**0**		**23**		**23**	**0**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		**0**	**0**		**0**		**0**	**0**
Total		**47**	**810,360**		**750**		**797**	**6**

8.77 Planted Area & Number of Households by Herbicide Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON – Kibondo

Crop	Herbicide							
	Number of Households using Herbicide	Planted Area Applied with Herbicide	Cost of Herbicide	Number of Households NOT using Herbicide	Planted Area Without Herbicide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of area planted Herbicide
Maize	0	0	0	5,975	3,557	5,975	3,557	0
Paddy	0	0	0	0	0	0	0	0
Sorghum	0	0	0	3,734	1,527	3,734	1,527	0
Bulrush Millet	0	0	0	1,120	643	1,120	643	0
Finger Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**0**	**0**		**5,726**		**5,726**	**0**
Cassava	0	0	0	373	227	373	227	0
Sweet Potato	0	0	0	0	0	0	0	0
Irish potatoes	0	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
ROOTS & TUBERS		**0**	**0**		**227**		**227**	**0**
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	6,722	1,943	6,722	1,943	0
Cowpeas	0	0	0	187	30	187	30	0
Green gram	0	0	0	0	0	0	0	0
Bambaranuts	0	0	0	187	57	187	57	0
Field Peas	0	0	0	0	0	0	0	0
PULSES		**0**	**0**		**2,030**		**2,030**	**0**
Sunflower	0	0	0	0	0	0	0	0
Groundnut	0	0	0	5,788	1,928	5,788	1,928	0
OIL SEEDS & OIL NUTS		**0**	**0**		**1,928**		**1,928**	**0**
Okra	0	0	0	0	0	0	0	0
Radish	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	0	0	0	0	0
Onion	0	0	0	187	8	187	8	0
Cabbage	0	0	0	187	8	187	8	0
Tomatoes	0	0	0	187	8	187	8	0
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**0**	**0**		**23**		**23**	**0**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		**0**	**0**		**0**		**0**	**0**
Total		**0**	**0**		**9,933**		**9,933**	**0**

8.78 Planted Area & Number of Households by Herbicide Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON – Kasulu

Crop	Herbicide							
	Number of Households using Herbicide	Planted Area Applied with Herbicide	Cost of Herbicide	Number of Households NOT using Herbicide	Planted Area Without Herbicide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of area planted Herbicide
Maize	0	0	0	20,174	7,975	20,174	7,975	0
Paddy	0	0	0	212	146	212	146	0
Sorghum	0	0	0	212	86	212	86	0
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**0**	**0**		**8,207**		**8,207**	**0**
Cassava	0	0	0	212	35	212	35	0
Sweet Potato	0	0	0	2,336	315	2,336	315	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	212	21	212	21	0
ROOTS & TUBERS		**0**	**0**		**371**		**371**	**0**
Mung Bean	0	0	0	4,884	2,020	4,884	2,020	0
Beans	0	0	0	35,251	12,925	35,251	12,925	0
Cowpeas	0	0	0	0	0	0	0	0
Green gram	0	0	0	212	86	212	86	0
Bambaranuts	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0
PULSES		**0**	**0**		**15,031**		**15,031**	**0**
Sunflower	0	0	0	425	86	425	86	0
Groundnut	0	0	0	4,035	763	4,035	763	0
OIL SEEDS & OIL NUTS		**0**	**0**		**849**		**849**	**0**
Okra	0	0	0	0	0	0	0	0
Radish	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
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	212	26	212	26	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**0**	**0**		**26**		**26**	**0**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		**0**	**0**		**0**		**0**	**0**
Total		**0**	**0**		**24,485**		**24,485**	**0**

8.79 Planted Area & Number of Households by Herbicide Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - Kigoma Rural

	Herbicide							
Crop	Number of Households using Herbicide	Planted Area Applied with Herbicide	Cost of Herbicide	Number of Households NOT using Herbicide	Planted Area Without Herbicide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of area planted Herbicide
Maize	0	0	0	6,578	2,886	6,578	2,886	0
Paddy	0	0	0	877	444	877	444	0
Sorghum	0	0	0	146	59	146	59	0
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**0**	**0**		**3,389**		**3,389**	**0**
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	1,754	666	1,754	666	0
Irish potatoes	0	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
ROOTS & TUBERS		**0**	**0**		**666**		**666**	**0**
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	9,063	3,637	9,063	3,637	0
Cowpeas	0	0	0	0	0	0	0	0
Green gram	0	0	0	0	0	0	0	0
Bambaranuts	0	0	0	0	0	0	0	0
Field Peas	0	0	0	146	6	146	6	0
PULSES		**0**	**0**		**3,643**		**3,643**	**0**
Sunflower	0	0	0	0	0	0	0	0
Groundnut	0	0	0	146	89	146	89	0
OIL SEEDS & OIL NUTS		**0**	**0**		**89**		**89**	**0**
Okra	0	0	0	0	0	0	0	0
Radish	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	292	74	292	74	0
Onion	146	3	877,108	0	0	146	3	100
Cabbage	0	0	0	146	30	146	30	0
Tomatoes	0	0	0	731	151	731	151	0
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**3**	**877,108**		**254**		**257**	**1**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		**0**	**0**		**0**		**0**	**0**
Total		**3**	**877,108**		**8,041**		**8,044**	**0**

8.80 Planted Area & Number of Households by Herbicide Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - Kigoma Urban

	Herbicide							
Crop	Number of Households using Herbicide	Planted Area Applied with Herbicide	Cost of Herbicide	Number of Households NOT using Herbicide	Planted Area Without Herbicide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of area planted Herbicide
Maize	0	0	0	868	328	868	328	0
Paddy	0	0	0	463	123	463	123	0
Sorghum	0	0	0	0	0	0	0	0
Bulrush Millet	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
CEREALS		**0**	**0**		**451**		**451**	**0**
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	463	88	463	88	0
Irish potatoes	0	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
ROOTS & TUBERS		**0**	**0**		**88**		**88**	**0**
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	810	223	810	223	0
Cowpeas	0	0	0	58	12	58	12	0
Green gram	0	0	0	0	0	0	0	0
Bambaranuts	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0
PULSES		**0**	**0**		**234**		**234**	**0**
Sunflower	0	0	0	0	0	0	0	0
Groundnut	0	0	0	0	0	0	0	0
OIL SEEDS & OIL NUTS		**0**	**0**		**0**		**0**	**0**
Okra	0	0	0	0	0	0	0	0
Radish	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	58	23	58	23	0
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**0**	**0**		**23**		**23**	**0**
Cotton	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		**0**	**0**		**0**		**0**	**0**
Total		**0**	**0**		**797**		**797**	**0**

MARKETING

9.1 Number of Households Reporting Marketing Problems for agricultural products by Crop - KIBONDO, SHORT RAINY SEASON

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	GovernmentRegulatory Problems	Lack of Market Information	No problem	Other	Not Applicable
Maize	31,555	1,120	373	187	1,307	0	0	0	1,120	373	7,469	187	25,767
Paddy	560	0	0	0	373	0	0	0	0	0	1,120	0	934
Sorghum	7,095	187	0	0	187	0	0	0	0	0	2,614	0	7,095
Bulrush Millet	0	0	0	0	0	0	0	0	0	0	0	0	0
Finger Millet	560	0	0	0	0	0	0	0	0	0	187	0	560
Wheat	0	0	0	0	0	0	0	0	0	0	0	0	0
CEREALS	**39,771**	**1,307**	**373**	**187**	**1,867**	**0**	**0**	**0**	**1,120**	**373**	**11,390**	**187**	**34,356**
Cassava	0	0	0	0	0	0	0	0	0	0	0	0	0
Sweet Potato	187	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	0
Yams	0	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	0
ROOTS & TUBERS	**187**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Mung Bean	0	0	0	0	0	0	0	0	0	0	0	0	0
Beans	20,912	560	0	187	747	0	0	0	560	187	3,361	0	20,912
Cowpeas	373	0	0	0	0	0	0	0	0	0	0	0	373
Green gram	0	0	0	0	0	0	0	0	0	0	0	0	187
Bambaranuts	0	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	0
PULSES	**21,286**	**560**	**0**	**187**	**747**	**0**	**0**	**0**	**560**	**187**	**3,361**	**0**	**21,472**

Cont'd 9.1 Number of Households Reporting Marketing Problems for agricultural products by Crop - KIBONDO, SHORT RAINY SEASON

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	GovernmentRegulatory Problems	Lack of Market Information	No problem	Other	Not Applicable
Sunflower	0	0	0	0	0	0	0	0	0	0	187	0	187
Groundnut	6,535	187	0	187	373	0	0	0	187	187	3,921	187	2,614
OIL SEEDS & OIL NUTS	**6,535**	**187**	**0**	**187**	**373**	**0**	**0**	**0**	**187**	**187**	**4,108**	**187**	**2,801**
Okra	0	0	0	0	0	0	0	0	0	0	0	0	0
Radish	0	0	187	0	0	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	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	0
Cabbage	0	0	0	0	187	0	0	0	0	0	0	0	0
Tomatoes	560	187	0	0	0	0	0	0	0	0	0	0	187
Chillies	0	0	0	0	0	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0	0	0	187	0	0
Pumpkins	0	0	0	0	0	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES	**560**	**187**	**187**	**0**	**187**	**0**	**0**	**0**	**0**	**0**	**187**	**0**	**187**
Cotton	187	0	0	0	0	0	0	187	0	0	0	0	0
Tobacco	560	0	0	0	187	0	0	0	0	0	187	187	0
CASH CROPS	**747**	**0**	**0**	**0**	**187**	**0**	**0**	**187**	**0**	**0**	**187**	**187**	**0**
Total	**69,085**	**2,241**	**560**	**560**	**3,361**	**0**	**0**	**187**	**1,867**	**747**	**19,232**	**560**	**58,816**

9.2 Number of Households Reporting Marketing Problems for agricultural products by Crop - KIBONDO, LONG RAINY SEASON

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	Other	Not Applicable
Maize	3,921	0	0	0	0	0	0	0	187	0	1,120	0	747
Paddy	0	0	0	0	0	0	0	0	0	0	0	0	0
Sorghum	1,867	0	0	0	0	0	0	0	0	0	560	0	1,307
Bulrush Millet	560	0	0	0	0	0	0	0	0	0	0	0	560
Finger Millet	0	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	0
CEREALS	**6,348**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**187**	**0**	**1,680**	**0**	**2,614**
Cassava	187	0	0	0	187	0	0	0	0	0	0	0	0
Sweet Potato	0	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	0
Yams	0	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	0
ROOTS & TUBERS	**187**	**0**	**0**	**0**	**187**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Mung Bean	0	0	0	0	0	0	0	0	0	0	0	0	0
Beans	2,987	0	0	0	0	0	0	0	0	0	1,120	0	2,614
Cowpeas	0	0	0	0	0	0	0	0	0	0	0	0	187
Green gram	0	0	0	0	0	0	0	0	0	0	0	0	0
Bambaranuts	187	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	0
PULSES	**3,174**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1,120**	**0**	**2,801**

Cont'd 9.2 Number of Households Reporting Marketing Problems for agricultural products by Crop - KIBONDO, LONG RAINY SEASON

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	Other	Not Applicable
Sunflower	0	0	0	0	0	0	0	0	0	0	0	0	0
Groundnut	3,174	0	0	0	0	0	0	0	0	0	1,494	0	1,120
OIL SEEDS & OIL NUTS	**3,174**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1,494**	**0**	**1,120**
Okra	0	0	0	0	0	0	0	0	0	0	0	0	0
Radish	0	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	0
Onion	187	0	0	0	0	0	0	0	0	0	0	0	0
Cabbage	187	0	0	0	0	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	0	0	0	0	0	0	187	0	0	0
Chillies	0	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	0
Pumpkins	0	0	0	0	0	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES	**373**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**187**	**0**	**0**	**0**
Cotton	0	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	0
CASH CROPS	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Total	**13,257**	**0**	**0**	**0**	**187**	**0**	**0**	**0**	**187**	**187**	**4,294**	**0**	**6,535**

9.3 Number of Households Reporting Marketing Problems for agricultural products by Crop – KASULU SHORT RAINY SEASON

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	Other	Not Applicable
Maize	29,518	1,486	212	0	1,062	0	0	0	425	637	6,583	0	20,599
Paddy	1,911	0	0	0	0	0	0	0	0	0	425	0	0
Sorghum	2,124	0	0	0	0	0	0	0	0	0	212	0	0
Bulrush Millet	0	0	0	0	0	0	0	0	0	0	0	0	0
Finger Millet	637	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	425
CEREALS	**34,189**	**1,486**	**212**	**0**	**1,062**	**0**	**0**	**0**	**425**	**637**	**7,220**	**0**	**21,023**
Cassava	0	0	0	0	0	0	0	0	0	0	0	0	0
Sweet Potato	1,274	0	0	0	212	0	0	0	212	0	1,274	0	1,911
Irish potatoes	0	0	0	0	0	0	0	0	0	0	0	0	212
Yams	0	0	0	0	0	0	0	0	0	0	212	0	0
Coco Yam	0	0	0	0	0	0	0	0	0	0	212	0	0
ROOTS & TUBERS	**1,274**	**0**	**0**	**0**	**212**	**0**	**0**	**0**	**212**	**0**	**1,699**	**0**	**2,124**
Mung Bean	212	0	0	0	0	0	0	0	0	0	0	0	0
Beans	23,784	849	849	0	1,486	0	0	0	0	1,486	9,768	0	15,502
Cowpeas	0	0	0	0	0	0	0	0	0	0	0	0	0
Green gram	0	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	0
Field Peas	0	0	0	0	0	0	0	0	0	0	0	0	0
PULSES	23,996	849	849	0	1,486	0	0	0	0	1,486	9,768	0	15,502

Cont'd 9.3 Number of Households Reporting Marketing Problems for agricultural products by Crop - KASULU SHORT RAINY SEASON

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	Other	Not Applicable
Sunflower	0	0	0	0	0	0	0	0	0	0	0	0	0
Groundnut	4,035	425	212	212	425	0	0	0	0	0	1,486	0	2,548
OIL SEEDS & OIL NUTS	**4,035**	**425**	**212**	**212**	**425**	**0**	**0**	**0**	**0**	**0**	**1,486**	**0**	**2,548**
Okra	0	0	0	0	0	0	0	0	0	0	0	0	0
Radish	0	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	0
Onion	0	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	0
Tomatoes	425	0	0	0	0	0	0	0	0	0	212	0	0
Chillies	0	0	0	0	0	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0	0	0	212	0	0
Pumpkins	0	0	0	0	0	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES	**425**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**425**	**0**	**0**
Cotton	0	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	0
CASH CROPS	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Total	**63,919**	**2,761**	**1,274**	**212**	**3,185**	**0**	**0**	**0**	**637**	**2,124**	**20,599**	**0**	**41,197**

9.4 Number of Households Reporting Marketing Problems for agricultural products by Crop – KASULU, LONG RAINY SEASON

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	Other	Not Applicable
Maize	14,440	212	0	0	0	0	0	0	0	0	425	0	5,097
Paddy	212	0	0	0	0	0	0	0	0	0	0	0	0
Sorghum	0	0	0	0	0	0	0	0	0	0	212	0	0
Bulrush Millet	0	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	0
Wheat	0	0	0	0	0	0	0	0	0	0	0	0	0
CEREALS	**14,653**	**212**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**637**	**0**	**5,097**
Cassava	0	0	0	0	0	0	0	0	0	0	212	0	0
Sweet Potato	212	0	425	0	0	0	0	0	0	0	1,062	0	637
Irish potatoes	0	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	0
Coco Yam	0	0	0	0	0	0	0	0	0	0	0	0	212
ROOTS & TUBERS	**212**	**0**	**425**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1,274**	**0**	**849**
Mung Bean	3,610	0	0	0	0	0	0	0	0	0	0	0	1,274
Beans	15,714	425	637	0	1,911	0	212	0	0	637	9,768	0	5,946
Cowpeas	0	0	0	0	0	0	0	0	0	0	0	0	0
Green gram	212	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	0
Field Peas	0	0	0	0	0	0	0	0	0	0	0	0	0
PULSES	**19,537**	**425**	**637**	**0**	**1,911**	**0**	**212**	**0**	**0**	**637**	**9,768**	**0**	**7,220**

Cont'd 9.4 Number of Households Reporting Marketing Problems for agricultural products by Crop - KASULU , LONG RAINY SEASON

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	Other	Not Applicable
Sunflower	425	0	0	0	0	0	0	0	0	0	0	0	0
Groundnut	3,185	0	0	0	0	0	0	0	0	0	425	0	425
OIL SEEDS & OIL NUTS	**3,610**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**425**	**0**	**425**
Okra	0	0	0	0	0	0	0	0	0	0	0	0	0
Radish	0	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	0
Onion	0	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	0
Tomatoes	0	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	0
Amaranths	0	0	0	0	0	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0	0	0	0	0	212
Cucumber	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**212**
Cotton	0	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	0
CASH CROPS	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Total	**38,012**	**637**	**1,062**	**0**	**1,911**	**0**	**212**	**0**	**0**	**637**	**12,104**	**0**	**13,803**

9.5 Number of Households Reporting Marketing Problems for agricultural products by Crop - KIGOMA RURAL SHORT RAINY SEASON

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	Other	Not Applicable
Maize	15,934	1,023	1,316	0	292	0	0	0	0	439	2,778	0	15,203
Paddy	2,193	146	439	0	292	0	0	0	0	0	146	0	877
Sorghum	0	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	0
Finger Millet	0	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	0
CEREALS	**18,127**	**1,169**	**1,754**	**0**	**585**	**0**	**0**	**0**	**0**	**439**	**2,924**	**0**	**16,080**
Cassava	146	0	0	0	0	0	0	0	0	0	0	0	146
Sweet Potato	2,485	0	0	0	0	0	0	0	0	0	292	0	731
Irish potatoes	0	0	0	0	0	0	0	0	0	0	0	0	146
Yams	0	0	0	0	0	0	0	0	0	0	0	0	0
Coco Yam	439	0	0	0	0	0	0	0	0	0	0	0	0
ROOTS & TUBERS	**3,070**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**292**	**0**	**1,023**
Mung Bean	585	0	0	0	0	0	0	0	0	0	146	0	146
Beans	15,203	146	292	0	439	0	0	146	0	731	1,462	0	8,479
Cowpeas	292	0	0	0	0	0	0	0	0	0	0	0	439
Green gram	0	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	439
Field Peas	0	0	0	0	0	0	0	0	0	0	0	0	146
PULSES	**16,080**	**146**	**292**	**0**	**439**	**0**	**0**	**146**	**0**	**731**	**1,608**	**0**	**9,648**

Cont'd 9.5 Number of Households Reporting Marketing Problems for agricultural products by Crop - KIGOMA RURAL SHORT RAINY SEASON

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	Other	Not Applicable
Sunflower	0	0	0	0	0	0	0	0	0	0	0	0	0
Groundnut	5,994	0	439	0	585	0	0	0	0	0	439	0	1,754
OIL SEEDS & OIL NUTS	**5,994**	**0**	**439**	**0**	**585**	**0**	**0**	**0**	**0**	**0**	**439**	**0**	**1,754**
Okra	585	0	0	0	0	0	0	0	0	0	0	0	0
Radish	0	0	0	0	0	0	0	0	0	0	0	0	146
Bitteer Aubergine	146	0	0	146	0	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0	0	0	0	0	0
Cabbage	146	0	0	0	0	0	0	0	0	0	0	0	0
Tomatoes	439	292	146	0	292	0	0	0	0	0	0	0	0
Chillies	0	0	0	0	0	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	146	0	0	0	0	0	146	0	0
Pumpkins	0	0	0	0	0	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Mellon	0	146	0	0	0	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES	**1,316**	**439**	**146**	**146**	**439**	**0**	**0**	**0**	**0**	**0**	**146**	**0**	**146**
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0
Tobacco	1,023	0	0	0	292	0	292	0	0	0	292	0	0
CASH CROPS	**1,023**	**0**	**0**	**0**	**292**	**0**	**292**	**0**	**0**	**0**	**292**	**0**	**0**
Total	**45,610**	**1,754**	**2,631**	**146**	**2,339**	**0**	**292**	**146**	**0**	**1,169**	**5,701**	**0**	**28,652**

9.6 Number of Households Reporting Marketing Problems for agricultural products by Crop - KIGOMA RURAL LONG RAINY SEASON

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	Other	Not Applicable
Maize	2,485	146	1,023	0	292	0	0	0	0	146	439	0	2,047
Paddy	439	0	439	0	0	0	0	0	0	0	0	0	0
Sorghum	0	0	0	0	0	0	0	0	0	0	0	0	146
Bulrush Millet	0	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	0
Wheat	0	0	0	0	0	0	0	0	0	0	0	0	0
CEREALS	**2,924**	**146**	**1,462**	**0**	**292**	**0**	**0**	**0**	**0**	**146**	**439**	**0**	**2,193**
Cassava	0	0	0	0	0	0	0	0	0	0	0	0	0
Sweet Potato	731	146	0	0	146	0	0	0	0	0	585	0	146
Irish potatoes	0	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	0
Coco Yam	0	0	0	0	0	0	0	0	0	0	0	0	0
ROOTS & TUBERS	**731**	**146**	**0**	**0**	**146**	**0**	**0**	**0**	**0**	**0**	**585**	**0**	**146**
Mung Bean	0	0	0	0	0	0	0	0	0	0	0	0	0
Beans	3,362	146	1,169	0	731	0	0	0	0	146	292	0	3,216
Cowpeas	0	0	0	0	0	0	0	0	0	0	0	0	0
Green gram	0	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	0
Field Peas	146	0	0	0	0	0	0	0	0	0	0	0	0
PULSES	**3,508**	**146**	**1,169**	**0**	**731**	**0**	**0**	**0**	**0**	**146**	**292**	**0**	**3,216**

Cont'd 9.6 Number of Households Reporting Marketing Problems for agricultural products by Crop - KIGOMA RURAL LONG RAINY SEASON

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	Other	Not Applicable
Sunflower	0	0	0	0	0	0	0	0	0	0	0	0	0
Groundnut	0	0	0	0	146	0	0	0	0	0	0	0	0
OIL SEEDS & OIL NUTS	**0**	**0**	**0**	**0**	**146**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Okra	0	0	0	0	0	0	0	0	0	0	0	0	0
Radish	0	0	0	0	0	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	146	0	0	146	0	0	0	0	0	0	0	0
Onion	0	0	146	0	0	0	0	0	0	0	0	0	0
Cabbage	0	146	0	0	0	0	0	0	0	0	0	0	0
Tomatoes	585	0	146	0	0	0	0	0	0	0	0	0	0
Chillies	0	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	0
Pumpkins	0	0	0	0	0	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES	**585**	**292**	**292**	**0**	**146**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Cotton	0	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	0
CASH CROPS	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Total	**7,748**	**731**	**2,924**	**0**	**1,462**	**0**	**0**	**0**	**0**	**292**	**1,316**	**0**	**5,555**

9.7 Number of Households Reporting Marketing Problems for agricultural products by Crop - KIGOMA URBAN SHORT RAINY SEASON

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	Other	Not Applicable
Maize	926	174	58	0	0	58	0	0	0	58	0	0	1,389
Paddy	58	0	0	0	0	0	0	0	0	0	58	0	0
Sorghum	0	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	0
Finger Millet	0	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	0
CEREALS	**984**	**174**	**58**	**0**	**0**	**58**	**0**	**0**	**0**	**58**	**58**	**0**	**1,389**
Cassava	0	0	0	0	0	0	0	0	0	0	0	0	58
Sweet Potato	289	116	116	0	116	0	0	0	0	58	0	0	232
Irish potatoes	0	0	0	0	0	0	0	0	0	0	0	0	0
Yams	58	0	0	0	0	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	58	0	0	0	0	0	0	0	0
ROOTS & TUBERS	**347**	**116**	**116**	**0**	**174**	**0**	**0**	**0**	**0**	**58**	**0**	**0**	**289**
Mung Bean	0	0	0	0	0	0	0	0	0	0	0	0	0
Beans	1,331	232	0	0	116	0	0	0	0	58	0	0	1,216
Cowpeas	174	232	0	58	0	0	0	0	0	58	0	0	174
Green gram	0	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	0
Field Peas	0	0	0	58	0	0	0	0	0	0	0	0	0
PULSES	**1,505**	**463**	**0**	**116**	**116**	**0**	**0**	**0**	**0**	**116**	**0**	**0**	**1,389**

Cont'd 9.7 Number of Households Reporting Marketing Problems for agricultural products by Crop - KIGOMA URBAN SHORT RAINY SEASON

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	Other	Not Applicable
Sunflower	0	0	0	0	0	0	0	0	0	0	0	0	0
Groundnut	116	58	0	0	0	0	0	0	0	0	0	0	58
OIL SEEDS & OIL NUTS	**116**	**58**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**58**
Okra	0	0	58	0	0	0	0	0	0	0	0	0	0
Radish	0	0	0	0	0	0	0	0	0	0	0	0	0
Bitteer Aubergine	116	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	0
Cabbage	58	0	58	0	0	0	0	0	0	0	0	0	0
Tomatoes	579	58	116	0	0	0	0	0	0	0	0	0	0
Chillies	58	58	0	0	0	0	0	0	0	0	58	0	0
Amaranths	0	0	0	0	0	0	0	0	0	0	0	0	58
Pumpkins	0	0	0	0	0	0	0	0	0	0	0	0	0
Cucumber	58	0	0	0	0	0	0	0	0	0	0	0	58
Water Mellon	174	0	58	0	0	0	0	0	0	0	0	0	58
FRUITS & VEGETABLES	**1,042**	**116**	**289**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**58**	**0**	**174**
Cotton	0	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	0
CASH CROPS	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Total	**3,994**	**926**	**463**	**116**	**289**	**58**	**0**	**0**	**0**	**232**	**116**	**0**	**3,299**

9.8 Number of Households Reporting Marketing Problems for agricultural products by Crop - KIGOMA URBAN LONG RAINY SEASON

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	Other	Not Applicable
Maize	579	0	0	0	0	58	0	0	0	0	0	0	232
Paddy	232	0	58	0	0	0	0	0	0	0	0	0	174
Sorghum	0	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	0
Finger Millet	0	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	0
CEREALS	**810**	**0**	**58**	**0**	**0**	**58**	**0**	**0**	**0**	**0**	**0**	**0**	**405**
Cassava	0	0	0	0	0	0	0	0	0	0	0	0	0
Sweet Potato	405	0	0	0	0	0	0	0	0	0	0	0	58
Irish potatoes	0	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	0
Coco Yam	0	0	0	0	0	0	0	0	0	0	0	0	0
ROOTS & TUBERS	**405**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**58**
Mung Bean	0	0	0	0	0	0	0	0	0	0	0	0	0
Beans	637	0	58	0	0	0	0	0	58	0	0	0	58
Cowpeas	58	0	0	0	0	0	0	0	0	0	0	0	0
Green gram	0	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	0
Field Peas	0	0	0	0	0	0	0	0	0	0	0	0	0
PULSES	**695**	**0**	**58**	**0**	**0**	**0**	**0**	**0**	**58**	**0**	**0**	**0**	**58**

Cont'd 9.8 Number of Households Reporting Marketing Problems for agricultural products by Crop - KIGOMA URBAN LONG RAINY SEASON

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	Other	Not Applicable
Sunflower	0	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	0
OIL SEEDS & OIL NUTS	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Okra	0	0	0	0	0	0	0	0	0	0	0	0	0
Radish	0	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	0
Onion	0	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	0
Tomatoes	58	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	0
Amaranths	0	0	0	0	0	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES	**58**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0	0	0	0	0	0
CASH CROPS	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Total	**1,968**	**0**	**116**	**0**	**0**	**58**	**0**	**0**	**58**	**0**	**0**	**0**	**521**

9.9 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 agricultural produce	%	Total number of households		Number of households that sold	%	Number of households that did not sell agricultural produce	%	Total number of households
Kibondo	52,654	74	18,112	26	70,766		12,510	71	5,228	29	17,738
Kasulu	50,328	80	12,741	20	63,070		39,286	88	5,521	12	44,807
Kigoma Rural	36,254	79	9,502	21	45,756		9,356	72	3,655	28	13,010
Kigoma Urban	2,605	76	810	24	3,415		926	94	58	6	984
Total	**141,841**	**78**	**41,165**	**22**	**183,006**		**62,078**	**81**	**14,462**	**19**	**76,540**

ACCESS TO AGRICULTURAL EQUIPMENTS

10.1 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	%	
Kibondo	72,820	96.3	74,874	99.0	3,548	4.7	0	0.0	233	0.3	0	0.0	75,620
Kasulu	84,305	98.0	84,730	98.5	4,672	5.4	212	0.2	0	0.0	147	0.2	86,004
Kigoma Rural	55,696	94.1	57,889	97.8	5,847	9.9	2,924	4.9	0	0.0	408	0.7	59,205
Kigoma Urban	3,589	82.7	3,878	89.3	810	18.7	232	5.3	1,098	25.3	78	1.8	4,341
Total	**216,410**	96.1	**221,371**	98.3	**14,877**	6.6	**3,368**	1.5	**0**	0.0	**129**	0.1	225,171

Cont.10.1 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		Trekta		Tractor plough		Tractor Harrow		Castrated bulls		Uncastrated bulls		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Kibondo	187	0.1	373	0.2	187	0.1	0	0.0	187	0.1	187	0.1	75,620
Kasulu	212	0.1	212	0.1	637	0.4	212	0.1	425	0.2	637	0.4	86,004
Kigoma Rural	146	0.1	146	0.1	0	0.0	292	0.2	585	0.5	877	0.7	59,205
Kigoma Urban	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4,341
Total	**545**	**0.1**	**732**	**0.2**	**824**	**0.2**	**505**	**0.1**	**1,196**	**0.3**	**1,701**	**0.4**	225,171

Cont.10.1 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
	Cow		Donkey		Thrasher		Power tiller		Rigder		
	Number	%	Number	%	Number	%	Number	%	Number	%	
Kibondo	373	0.2	0	0.0	233	0.2	0	0.0	0	0.0	75,620
Kasulu	849	0.5	212	0.1	147	0.1	0	0.0	425	0.2	86,004
Kigoma Rural	1,023	0.8	0	0.0	408	0.3	0	0.0	0	0.0	9,205
Kigoma Urban	116	1.2	0	0.0	0	0.0	0	0.0	0	0.0	4,341
Total	**2,362**	0.5	**212**	**0.0**	**129**	**0.0**	**0**	**0.0**	**425**	**0.1**	225,171

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

District	Sword		Hand Hoe		Hand Sprayer		Grater, Chiper, Oil Press na Oil Mill		Ox Plough		Ox Seed Planter	
	Number Owned	%	Number Owned	%	Number Owned	%	Number Owned	%	Number Owned	%	Number Owned	%
Kibondo	132,569	33.6	224,434	56.8	4,108	1.0	.	.	.	.	4,294	1.1
Kasulu	141,217	33.4	244,847	57.9	4,884	1.2	425	.1	849	.2	5,521	1.3
Kigoma Rural	93,851	28.3	193,987	58.5	9,648	2.9	3,362	1.0	146	.0	.	.
Kigoma Urban	7,004	35.4	11,287	57.0	926	4.7	289	1.5	.	.	.	.
Total	374,640	32.0	674,555	57.7	19,566	1.7	4,076	.3	996	.1	9,816	.8

cont 10.2 Number of Agricultural Equipment/Asset owned by type and District for 2007/08 agriculture year

District	Ox Cart		Tractor		Tractor Plough		Tractor Harrow		Castrated bulls		Uncastrated bulls	
	Number Owned	%	Number Owned	%	Number Owned	%	Number Owned	%	Number Owned	%	Number Owned	%
Kibondo	4,108	1.0	9,709	2.5	4,108	1.0	.	.	373	.1	187	.0
Kasulu	425	.1	425	.1	9,768	2.3	4,247	1.0	1,699	.4	1,911	.5
Kigoma Rural	4,386	1.3	3,216	1.0	.	.	3,508	1.1	3,655	1.1	4,970	1.5
Kigoma Urban	.	.	.	.	.	.	.	.	.	.	.	.
Total	**8,918**	**.8**	**13,350**	**1.1**	**13,876**	**1.2**	**7,756**	**.7**	**5,727**	**.5**	**7,068**	**.6**

cont 10.2 Number of Agricultural Equipment/Asset owned by type and District for 2007/08 agriculture year

District	Cow		Donkey		Shellers/Threshers		Power tiller		Ox Ridger	
	Number Owned	%	Number Owned	%	Number Owned	%	Number Owned	%	Number Owned	%
Kibondo	1,307	.3	.	.	9,709	2.5	.	.	.	.
Kasulu	5,946	1.4	425	.1	.	.	.	.	425	.1
Kigoma Rural	6,432	1.9	.	.	4,678	1.4	.	.	.	.
Kigoma Urban	289	1.5	.	.	.	.	.	.	.	.
Total	**13,975**	**1.2**	**425**	**.0**	**14,387**	**1.2**	**.**	**.**	**425**	**.0**

10.3 Number of Agricultural Households that Used Tractors/Draft animals to cultivate Land By Type and District for 2007/08 agriculture year - KIGOMA REGION

	Oxen		Bulls		Cows		Donkeys		Tractor		Power Tiller	
District	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Kibondo	0	.	0	.	0	.	0	.	0	.	0	.
Kasulu	425	100.0	0	.0	0	.0	0	.0	0	.0	0	.0
Kigoma Rural	292	50.0	292	50.0	0	.0	0	.0	0	.0	0	.0
Kigoma Urban	0	.	0	.	0	.	0	.	0	.	0	.
Total	**717**	**71.0**	**292**	**29.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**

10:4 Number of Tractors/Draft animals owned By Type and District for 2007/08 agriculture year - KIGOMA REGION

	Oxen		Bulls		Cows		Donkeys		Tractor		Power Tiller	
District	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Kibondo	.	.	.	.	.	.	.	.	.	.	.	.
Kasulu	1,699	100.0	.	.	.	.	.	.	.	.	.	.
Kigoma Rural	2,924	74.1	146	3.7	877	22.2	.	.	.	.	.	.
Kigoma Urban	.	.	.	.	.	.	.	.	.	.	.	.
Total	**4,623**	**81.9**	**146**	**2.6**	**877**	**15.5**	**.**	**.**	**.**	**.**	**.**	**.**

IRRIGATION

11.1 Number of Agriculture Households by Main Source of Irrigation Water

District	Main Source of Irrigation Water						
	River	Borehole	Lake	Canal	Dam	Tap Water	Total
Kibondo	1,307	0	0	0	187	0	1,494
Kasulu	1,486	0	0	0	0	0	1,486
Kigoma Rural	1,316	0	439	0	0	146	1,900
Kigoma Urban	232	116	289	58	0	0	695
Total	**4,341**	**116**	**728**	**58**	**187**	**146**	**5,575**

11.2 Number of Agriculture Households by method of Used to Obtain Water

District	Main Method of Obtaining Water					
	Gravity	Hand bucket	Hand pump	motor pump	Other	Total
Kibondo	1,120	373	0	0	0	1,494
Kasulu	212	1,274	0	0	0	1,486
Kigoma Rural	292	1,608	0	0	0	1,900
Kigoma Urban	0	637	0	58	0	695
Total	**1,625**	**3,892**	**0**	**58**	**0**	**5,575**

EROSION CONTROL

12.1 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	%
Kibondo	21,846	29	53,775	71	75,620	100
Kasulu	4,884	6	81,120	94	86,004	100
Kigoma Rural	6,286	11	52,919	89	59,205	100
Kigoma Urban	521	12	3,820	88	4,341	100
Total	**33,537**	**15**	**191,634**	**85**	**225,171**	**100**

12.2 Number of Households with Erosion Control/Water Harvesting Facilities on their Land By 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	
District	Number	%	Number	%	Number	%
Kibondo	7,655	10	67,965	90	75,620	100
Kasulu	5,097	6	80,908	94	86,004	100
Kigoma Rural	4,532	8	54,673	92	59,205	100
Kigoma Urban	347	8	3,994	92	4,341	100
Total	**17,631**	**8**	**207,540**	**92**	**225,171**	**100**

12.3 Number of Erosion Control/Water Harvesting Structures by Type and District as of 2007/08 agriculture year

District	Terraces	Erosion Control Bunds	Gabions / Sandbag	Vetiver Grass	Tree Belts	Water Harvesting Bunds	Drainage Ditches	Others
Kibondo	373	113,897.5	0	.0	373	8,402.3	2,801	0
Kasulu	849	1,274.1	0	.0	0	849.4	6,583	637
Kigoma Rural	24,413	133,320.4	0	.0	0	1,169.5	1,462	146
Kigoma Urban	15,628	5,151.6	0	.0	0	.0	0	0
Total	**41,264**	**253,643.6**	**0**	**.0**	**373**	**10,421.2**	**10,846**	**783**

AGRICULTURE CREDIT

13.1 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	%
Kibondo	1,120	1.5	74,500	99	75,620	100
Kasulu	1,699	2.0	84,305	98	86,004	100
Kigoma Rural	1,608	2.7	57,597	97	59,205	100
Kigoma Urban	0	.0	4,341	100	4,341	100
Total	**4,427**	**2.0**	**220,744**	**98**	**225,171**	**100**

13.2 Number of Credits by sex of the Household Member receiving credit During the 2007/08 Agriculture Year - Kigoma REGION

District	Male		Female		Total	
	Number	%	Number	%	Number	%
Kibondo	747	67	373	33	1,120	100
Kasulu	1,062	63	637	38	1,699	100
Kigoma Rural	1,316	82	292	18	1,608	100
Kigoma Urban	0	.0	0		0	
Total	**3,124**	**71**	**1,303**	**29**	**4,427**	**100**

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

District	Family, friend or relative		Bank		Savings & credit Soc		Cooperative		Private individual		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Kibondo	0	0	0	0.0	560	50	0	0	560	50	1,120	100
Kasulu	0	0	0	0.0	0	0	849	50	849	50	1,699	100
Kigoma Rural	731	45	146	9.1	731	45	0	0	0	0	1,608	100
Kigoma Urban	0	0	0	0.0	0	0	0	0	0	0	0	0
Total	731	17	146	3.3	1,291	29	849	19	1,410	32	4,427	100

13.4 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	
	Number	%	Number	%	Number	%	Number	%	Number	%
Kibondo	2,614	3.5	16,991	23	4,294	6	2,987	4.0	14,004	18.8
Kasulu	6,158	7.3	31,853	38	9,131	11	1,486	1.8	15,927	18.9
Kigoma Rural	1,316	2.3	20,904	36	3,508	6	1,900	3.3	15,788	27.4
Kigoma Urban	232	5.3	868	20	174	4	58	1.3	2,431	56.0
Total	**10,320**	**4.7**	**70,617**	**32**	**17,108**	**8**	**6,432**	**2.9**	**48,150**	**21.8**

Cont. 13.4 Number of Households Reporting the Main reasons for Not Using Credit by District During the 2007/08 Agriculture Year

District	Difficult bureaucratic procedure		Credit granted too late		Other (specify)		Dont know about credit		Total Not Using Credit	
	Number	%	Number	%	Number	%	Number	%	Number	%
Kibondo	7,095	9.5	747	1.0	747	1.0	747	1.0	74,500	67
Kasulu	2,124	2.5	849	1.0	849	1.0	849	1.0	84,305	82
Kigoma Rural	4,386	7.6	731	1.3	731	1.3	731	1.3	57,597	87
Kigoma Urban	405	9.3	116	2.7	116	2.7	116	2.7	4,341	104
Total	**14,010**	**6.3**	**2,443**	**1.1**	**2,443**	**1.1**	**2,443**	**1.1**	**220,744**	**79**

13.5 Number of Households receiving Credits by Main Source of credit B and region During the 2007/08 Agriculture Year

District	Family, friend or relative		Bank		Savings & credit Soc		Cooperative		Trader/trade store		Savings & credit Soc		Private individual		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Kibondo	0.0	0.0	0.0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0
Kasulu	212	25	0	0.0	0	0	212	25	-	-	0	0.0	425	50	849	
Kigoma Rural	0		146		439		0		-	-	146		0		731	-
Kigoma Urban	0.0	0.0	0.0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0
Total	**212**	**13**	**146**	**9.3**	**439**	**28**	**212**	**13**	**0**	**0.0**	**146**	**9.3**	**425**	**27**	**1,580**	

13.6 Number of Households receiving Credits by Main Source of credit C and region During the 2007/08 Agriculture Year

District	Family, friend or relative		Bank		Savings & credit Soc		Cooperative		Savings & credit Soc		Trader/trade store		Private individual		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Kibondo	0	0.0	0	0.0	0	0.0										
Kasulu	-	-	-	-	0	-	212	-	0	-	0	-	637	-	849	-
Kigoma Rural	-	-	-	-	146	-	146	-	0	-	439	-	0	-	731	-
Kigoma Urban	0.0	0.0	0.0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0
Total	**-**	**-**	**-**	**-**	**146**	**0.0**	**359**	**0.0**	**0**	**0.0**	**439**	**0.0**	**637**	**0.0**	**1,580**	**100**

13.7 Provision of credit A by sex and region During the 2007/08 Agriculture Year

District	Male		Female		Total	
	Number	%	Number	%	Number	%
Kibondo	747	67	373	33	1,120	100
Kasulu	1,062	63	637	38	1,699	100
Kigoma Rural	1,316	82	292	18	1,608	100
Kigoma Urban	0	0	0	0	0	0
Total	**3,124**	**71**	**1,303**	**29**	**4,427**	**100**

13.8 Provision of credit B by sex and region During the 2007/08 Agriculture Year

District	Male		Female		Total	
	Number	%	Number	%	Number	%
Kibondo	0	0	0	0	0	0
Kasulu	637	60	425	40	1,062	100
Kigoma Rural	585	80	146	20	731	100
Kigoma Urban	0	0	0	0	0	0
Total	**1,222**	**68**	**571**	**32**	**1,793**	**100**

13.9 Provision of credit C by sex and region During the 2007/08 Agriculture Year

District	Male		Female		Total	
	Number	%	Number	%	Number	%
Kibondo	0	0	0	0	0	0
Kasulu	425	40	637	60	1,062	100
Kigoma Rural	585	80	146	20	731	100
Kigoma Urban	0	0	0		0	
Total	**1,009**	**56**	**783**	**44**	**1,793**	**100**

AGRICULTURE CONSTRAINTS

14.1 Number of Agricultural Households Reporting the FIRST most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Access to Land		Ownership of Land		Poor Soil Cultivation Equipment		Soil Fertility	
District	Number	%	Number	%	Number	%	Number	%
Kibondo	5,228	6.9	1,867	2.5	26,701	35.3	9,336	12.3
Kasulu	13,166	15.3	2,124	2.5	28,668	33.3	8,707	10.1
Kigoma Rural	5,994	10.1	1,754	3.0	25,728	43.5	7,748	13.1
Kigoma Urban	752	17.3	116	2.7	1,389	32.0	463	10.7
Total	**25,140**	**11.2**	**5,861**	**2.6**	**82,486**	**36.6**	**26,253**	**11.7**

Cont. 14.1 Number of Agricultural Households Reporting the FIRST most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Access to Improved Seed		Irrigation Facilities		Access to Chemical Inputs		Cost of Inputs	
District	Number	%	Number	%	Number	%	Number	%
Kibondo	2,987	4.0	187	.2	1,307	1.7	8,962	11.9
Kasulu	2,548	3.0	212	.2	849	1.0	11,255	13.1
Kigoma Rural	2,193	3.7	146	.2	146	.2	7,894	13.3
Kigoma Urban	58	1.3	116	2.7	0	.0	579	13.3
Total	**7,786**	**3.5**	**661**	**.3**	**2,303**	**1.0**	**28,690**	**12.7**

Cont. 14.1 Number of Agricultural Households Reporting the FIRST most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Extension Services		Access to Forest Resources		Hunting and Gathering		Access to Potable Water	
District	Number	%	Number	%	Number	%	Number	%
Kibondo	2,427	3.2	187	.2	0	.0	187	.2
Kasulu	2,761	3.2	0	.0	0	.0	637	.7
Kigoma Rural	585	1.0	0	.0	0	.0	146	.2
Kigoma Urban	0	.0	0	.0	0	.0	174	4.0
Total	**5,773**	**2.6**	**187**	**.1**	**0**	**.0**	**1,144**	**.5**

Cont. 14.1 Number of Agricultural Households Reporting the FIRST most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Access to Credit		Access to Off Farm Income		Threshing		Harvesting	
District	Number	%	Number	%	Number	%	Number	%
Kibondo	8,402	11.1	373	.5	373	.5	0	0.00
Kasulu	4,884	5.7	1,699	2.0	0	.0	0	0.00
Kigoma Rural	3,070	5.2	146	.2	146	.2	0	0.00
Kigoma Urban	463	10.7	58	1.3	0	.0	0	0.00
Total	**16,819**	**7.5**	**2,276**	**1.0**	**520**	**.2**	**0**	**0.00**

Cont. 14.1 Number of Agricultural Households Reporting the FIRST most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Crop Storage		Crop Processing		Marketing Information		Higher Transport Costs	
District	Number	%	Number	%	Number	%	Number	%
Kibondo	0	0.00	187	.2	187	.2	0	.0
Kasulu	0	0.00	0	.0	212	.2	0	.0
Kigoma Rural	0	0.00	0	.0	439	.7	146	.2
Kigoma Urban	0	0.00	0	.0	0	.0	0	.0
Total	**0**	**0.00**	**187**	**.1**	**838**	**.4**	**146**	**.1**

Cont. 14.1 Number of Agricultural Households Reporting the FIRST most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Destruction by Animals		Stealing		Pest and Disease		Local Government Taxation	
District	Number	%	Number	%	Number	%	Number	%
Kibondo	187	.2	187	.2	4,855	6.4	0	0.00
Kasulu	1,274	1.5	0	.0	6,371	7.4	0	0.00
Kigoma Rural	585	1.0	146	.2	877	1.5	0	0.08
Kigoma Urban	116	2.7	58	1.3	0	.0	0	0.00
Total	**2,161**	**1.0**	**391**	**.2**	**12,102**	**5.4**	**0**	**0.00**

Cont.14.1 Number of Agricultural Households Reporting the FIRST most important Constraint by District, 2007/08 Agricultural Year

	Constraint					
	Extended dry spell		Crop Farmers/Livestock keepers Conflicts		Total	
District	Number	%	Number	%	Number	%
Kibondo	1,307	1.7	187	.2	75,620	100.0
Kasulu	212	.2	425	.5	86,004	100.0
Kigoma Rural	1,169	2.0	146	.2	59,205	100.0
Kigoma Urban	0	.0	0	.0	4,341	100.0
Total	**2,689**	**1.2**	**758**	**.3**	**225,171**	**100.0**

14.2 Number of Agricultural Households Reporting the SECOND most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Access to Land		Ownership of Land		Poor Soil Cultivation Equipment		Soil Fertility	
District	Number	%	Number	%	Number	%	Number	%
Kibondo	2,241	3.0	373	.5	13,817	18.3	13,817	18.3
Kasulu	2,761	3.2	1,274	1.5	22,085	25.7	8,494	9.9
Kigoma Rural	1,900	3.2	1,316	2.2	14,765	24.9	8,771	14.8
Kigoma Urban	0	.0	174	4.0	810	18.7	289	6.7
Total	**6,902**	**3.1**	**3,137**	**1.4**	**51,477**	**22.9**	**31,372**	**13.9**

Cont. 14.2 Number of Agricultural Households Reporting the SECOND most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Access to Improved Seed		Irrigation Facilities		Access to Chemical Inputs		Cost of Inputs	
District	Number	%	Number	%	Number	%	Number	%
Kibondo	11,950	15.8	560	.7	3,734	4.9	12,137	16.0
Kasulu	10,405	12.1	425	.5	3,822	4.4	17,838	20.7
Kigoma Rural	11,841	20.0	439	.7	1,900	3.2	9,063	15.3
Kigoma Urban	289	6.7	174	4.0	405	9.3	1,273	29.3
Total	**34,486**	**15.3**	**1,597**	**.7**	**9,862**	**4.4**	**40,311**	**17.9**

Cont. 14.2 Number of Agricultural Households Reporting the SECOND most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Extension Services		Access to Forest Resources		Hunting and Gathering		Access to Potable Water	
District	Number	%	Number	%	Number	%	Number	%
Kibondo	1,494	2.0	0	0.00	0	.0	747	1.0
Kasulu	3,398	4.0	0	0.00	212	.2	425	.5
Kigoma Rural	2,047	3.5	0	0.00	0	.0	146	.2
Kigoma Urban	0	.0	0	0.00	0	.0	521	12.0
Total	**6,938**	**3.1**	**0**	**0.00**	**212**	**.1**	**1,839**	**.8**

Cont. 14.2 Number of Agricultural Households Reporting the SECOND most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Access to Credit		Access to Off Farm Income		Threshing		Harvesting	
District	Number	%	Number	%	Number	%	Number	%
Kibondo	5,602	7.4	934	1.2	373	.5	0	0.00
Kasulu	5,521	6.4	2,336	2.7	0	.0	0	0.00
Kigoma Rural	3,655	6.2	292	.5	0	.0	0	0.00
Kigoma Urban	289	6.7	0	.0	0	.0	0	0.00
Total	**15,067**	**6.7**	**3,562**	**1.6**	**373**	**.2**	**0**	**0.00**

Cont. 14.2 Number of Agricultural Households Reporting the SECOND most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Crop Storage		Crop Processing		Marketing Information		Higher Transport Costs	
District	Number	%	Number	%	Number	%	Number	%
Kibondo	373	.5	0	.0	187	.2	373	.5
Kasulu	0	.0	212	.2	212	.2	425	.5
Kigoma Rural	146	.2	0	.0	146	.2	146	.2
Kigoma Urban	0	.0	0	.0	0	.0	0	.0
Total	**520**	**.2**	**212**	**.1**	**545**	**.2**	**944**	**.4**

Cont. 14.2 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	%
Kibondo	0	.0	1,867	2.5	3,548	4.7	187	.2
Kasulu	849	1.0	2,973	3.5	1,699	2.0	212	.2
Kigoma Rural	585	1.0	292	.5	1,023	1.7	0	.0
Kigoma Urban	0	.0	58	1.3	58	1.3	0	.0
Total	**1,434**	**.6**	**5,190**	**2.3**	**6,328**	**2.8**	**399**	**.2**

Cont. 14.2 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	%
Kibondo	747	1.0	560	.7	75,620	100
Kasulu	425	.5	0	.0	86,004	100
Kigoma Rural	585	1.0	146	.2	59,205	100
Kigoma Urban	0	.0	0	.0	4,341	100
Total	**1,756**	**.8**	**706**	**.3**	**225,171**	**100**

14.3 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	%
Kibondo	1,680	2.2	934	1.2	10,083	13.3	9,523	12.6
Kasulu	2,124	2.5	1,486	1.7	12,954	15.1	6,583	7.7
Kigoma Rural	877	1.5	877	1.5	10,671	18.0	7,894	13.3
Kigoma Urban	232	5.3	116	2.7	174	4.0	289	6.7
Total	**4,913**	**2.2**	**3,413**	**1.5**	**33,882**	**15.0**	**24,289**	**10.8**

Cont. 14.3 Number of Agricultural Households Reporting the THIRD Most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Access to Improved Seed		Irrigation Facilities		Access to Chemical Inputs		Cost of Inputs	
District	Number	%	Number	%	Number	%	Number	%
Kibondo	8,962	11.9	747	1.0	5,228	6.9	15,871	21.0
Kasulu	9,981	11.6	849	1.0	4,459	5.2	15,290	17.8
Kigoma Rural	10,379	17.5	877	1.5	4,239	7.2	11,695	19.8
Kigoma Urban	58	1.3	58	1.3	116	2.7	1,273	29.3
Total	**29,380**	**13.0**	**2,531**	**1.1**	**14,043**	**6.2**	**44,129**	**19.6**

Cont. 14.3 Number of Agricultural Households Reporting the THIRD Most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Extension Services		Access to Forest Resources		Hunting and Gathering		Access to Potable Water	
Ta	Number	%	Number	%	Number	%	Number	%
Kibondo	2,801	3.7	187	.2	0	.0	373	.5
Kasulu	9,556	11.1	0	.0	0	.0	212	.2
Kigoma Rural	3,947	6.7	0	.0	0	.0	0	.0
Kigoma Urban	232	5.3	0	.0	58	1.3	868	20.0
Total	**16,535**	**7.3**	**187**	**.1**	**58**	**.0**	**1,454**	**.6**

Cont. 14.3 Number of Agricultural Households Reporting the THIRD Most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Access to Credit		Access to Off Farm Income		Threshing		Harvesting	
District	Number	%	Number	%	Number	%	Number	%
Kibondo	9,523	12.6	2,241	3.0	187	.2	187	.2
Kasulu	9,768	11.4	4,035	4.7	0	.0	0	.0
Kigoma Rural	4,239	7.2	292	.5	0	.0	0	.0
Kigoma Urban	405	9.3	0	.0	58	1.3	0	.0
Total	**23,935**	**10.6**	**6,568**	**2.9**	**245**	**.1**	**187**	**.1**

Cont. 14.3 Number of Agricultural Households Reporting the THIRD Most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Crop Storage		Crop Processing		Marketing Information		Higher Transport Costs	
District	Number	%	Number	%	Number	%	Number	%
Kibondo	373	.49	187	.25	0	.00	187	.25
Kasulu	637	.74	0	.00	849	.99	849	.99
Kigoma Rural	0	.00	0	.00	146	.25	292	.49
Kigoma Urban	0	.00	0	.00	0	.00	58	1.33
Total	**1,011**	**.45**	**187**	**.08**	**996**	**.44**	**1,386**	**.62**

Cont. 14.3 Number of Agricultural Households Reporting the THIRD Most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Destruction by Animals		Stealing		Pest and Disease		Local Government Taxation	
District	Number	%	Number	%	Number	%	Number	%
Kibondo	1,680	2.2	934	1.2	2,241	3.0	0	.0
Kasulu	3,185	3.7	1,062	1.2	1,911	2.2	212	.2
Kigoma Rural	731	1.2	439	.7	1,169	2.0	0	.0
Kigoma Urban	0	.0	116	2.7	174	4.0	0	.0
Total	5,597	2.5	2,550	1.1	5,495	2.4	212	.1

Cont. 14.3 Number of Agricultural Households Reporting the THIRD Most important Constraint by District, 2007/08 Agricultural Year

	Constraint					
	Extended dry spell		Crop Farmers/Livestock keepers Conflicts		Total	
District	Number	%	Number	%	Number	%
Kibondo	747	1.0	747	1.0	75,620	100.0
Kasulu	0	.0	0	.0	86,004	100.0
Kigoma Rural	439	.7	0	.0	59,205	100.0
Kigoma Urban	58	1.3	0	.0	4,341	100.0
Total	**1,243**	**.55**	**747**	**.33**	**225,171**	**100.0**

14.4 Number of Agricultural Households Reporting the FOURTH Most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Access to Land		Ownership of Land		Poor Soil Cultivation Equipment		Soil Fertility	
District	Number	%	Number	%	Number	%	Number	%
Kibondo	1,494	2.0	187	.2	10,269	13.6	4,668	6.2
Kasulu	5,097	5.9	849	1.0	11,467	13.3	5,734	6.7
Kigoma Rural	1,316	2.2	439	.7	6,871	11.6	5,555	9.4
Kigoma Urban	116	2.7	58	1.3	232	5.3	232	5.3
Total	**8,022**	**3.6**	**1,533**	**.7**	**28,839**	**12.8**	**16,188**	**7.2**

Cont. 14.4 Number of Agricultural Households Reporting the FOURTH Most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Access to Improved Seed		Irrigation Facilities		Access to Chemical Inputs		Cost of Inputs	
District	Number	%	Number	%	Number	%	Number	%
Kibondo	5,788	7.7	934	1.2	5,228	6.9	10,269	13.6
Kasulu	10,405	12.1	637	.7	4,459	5.2	11,467	13.3
Kigoma Rural	9,356	15.8	877	1.5	2,047	3.5	6,432	10.9
Kigoma Urban	116	2.7	0	.0	116	2.7	289	6.7
Total	**25,665**	**11.4**	**2,448**	**1.1**	**11,850**	**5.3**	**28,458**	**12.6**

Cont. 14.4 Number of Agricultural Households Reporting the FOURTH Most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Extension Services		Access to Forest Resources		Hunting and Gathering		Access to Potable Water	
District	Number	%	Number	%	Number	%	Number	%
Kibondo	3,548	4.7	187	.2	0	0.00	1,494	2.0
Kasulu	7,220	8.4	212	.2	0	0.00	212	.2
Kigoma Rural	4,093	6.9	0	.0	0	0.00	146	.2
Kigoma Urban	232	5.3	0	.0	0	0.00	174	4.0
Total	**15,092**	**6.7**	**399**	**.2**	**0**	**0.00**	**2,026**	**.9**

Cont. 14.4 Number of Agricultural Households Reporting the FOURTH Most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Access to Credit		Access to Off Farm Income		Threshing		Harvesting	
District	Number	%	Number	%	Number	%	Number	%
Kibondo	12,510	16.5	3,361	4.4	373	.5	0	0.00
Kasulu	9,344	10.9	5,097	5.9	0	.0	0	0.00
Kigoma Rural	10,671	18.0	877	1.5	146	.2	0	0.00
Kigoma Urban	695	16.0	463	10.7	58	1.3	0	0.00
Total	**33,220**	**14.8**	**9,798**	**4.4**	**578**	**.3**	**0**	**0.00**

Cont. 14.4 Number of Agricultural Households Reporting the FOURTH Most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Crop Storage		Crop Processing		Marketing Information		Higher Transport Costs	
District	Number	%	Number	%	Number	%	Number	%
Kibondo	747	1.0	0	.0	747	1.0	1,120	1.5
Kasulu	2,761	3.2	849	1.0	1,062	1.2	1,911	2.2
Kigoma Rural	439	.7	0	.0	1,316	2.2	439	.7
Kigoma Urban	116	2.7	0	.0	0	.0	58	1.3
Total	**4,062**	**1.8**	**849**	**.4**	**3,124**	**1.4**	**3,528**	**1.6**

Cont. 14.4 Number of Agricultural Households Reporting the FOURTH Most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Destruction by Animals		Stealing		Pest and Disease		Local Government Taxation	
District	Number	%	Number	%	Number	%	Number	%
Kibondo	2,241	3.0	2,614	3.5	5,602	7.4	0	0.00
Kasulu	1,274	1.5	2,761	3.2	2,973	3.5	0	0.00
Kigoma Rural	1,754	3.0	2,047	3.5	3,655	6.2	0	0.00
Kigoma Urban	116	2.7	810	18.7	463	10.7	0	0.00
Total	**5,385**	**2.4**	**8,232**	**3.7**	**12,692**	**5.6**	**0**	**0.00**

Cont. 14.4 Number of Agricultural Households Reporting the FOURTH Most important Constraint by District, 2007/08 Agricultural Year

	Constraint					
	Extended dry spell		Crop Farmers/Livestock keepers Conflicts		Total	
District	Number	%	Number	%	Number	%
Kibondo	1,867	2.5	373	.5	75,620	100
Kasulu	0	.0	212	.2	86,004	100
Kigoma Rural	585	1.0	146	.2	59,205	100
Kigoma Urban	0	.0	0	.0	4,341	100
Total	**2,452**	**1.1**	**732**	**.3**	**225,171**	**100**

14.5 Number of Agricultural Households Reporting the FIFTH important Constraint by Region, 2007/08 Agricultural Year

	Constraint							
	Access to Land		Ownership of Land		Poor Soil Cultivation Equipment		Soil Fertility	
Region	Number	%	Number	%	Number	%	Number	%
Kibondo	1,867	2.5	1,307	1.7	5,415	7.2	5,415	7.2
Kasulu	3,398	4.0	2,548	3.0	4,459	5.2	3,398	4.0
Kigoma Rural	1,754	3.0	1,023	1.7	6,578	11.1	2,485	4.2
Kigoma Urban	0	.0	174	4.0	232	5.3	116	2.7
Total	**7,019**	**3.1**	5,052	**2.2**	**16,684**	**7.4**	**11,413**	**5.1**

Cont. 14.5 Number of Agricultural Households Reporting the FIFTH important Constraint by Region, 2007/08 Agricultural Year

	Constraint							
	Access to Improved Seed		Irrigation Facilities		Access to Chemical Inputs		Cost of Inputs	
Region	Number	%	Number	%	Number	%	Number	%
Kibondo	8,029	10.6	747	1.0	3,921	5.2	5,975	7.9
Kasulu	11,043	12.8	1,062	1.2	3,610	4.2	8,494	9.9
Kigoma Rural	5,409	9.1	292	.5	2,924	4.9	4,678	7.9
Kigoma Urban	58	1.3	58	1.3	289	6.7	174	4.0
Total	**24,538**	**10.9**	2,159	**1.0**	**10,744**	**4.8**	**19,321**	**8.6**

Cont. 14.5 Number of Agricultural Households Reporting the FIFTH important Constraint by Region, 2007/08 Agricultural Year

	Constraint							
	Extension Services		Access to Forest Resources		Hunting and Gathering		Access to Potable Water	
Region	Number	%	Number	%	Number	%	Number	%
Kibondo	5,788	7.7	187	.2	373	.5	187	.2
Kasulu	10,193	11.9	0	.0	0	.0	425	.5
Kigoma Rural	4,532	7.7	0	.0	0	.0	1,023	1.7
Kigoma Urban	289	6.7	0	.0	0	.0	58	1.3
Total	**20,802**	**9.2**	187	**.1**	**373**	**.2**	**1,693**	**.8**

Cont. 14.5 Number of Agricultural Households Reporting the FIFTH important Constraint by Region, 2007/08 Agricultural Year

	Constraint							
	Access to Credit		Access to Off Farm Income		Threshing		Harvesting	
Region	Number	%	Number	%	Number	%	Number	%
Kibondo	8,962	11.9	5,975	7.9	373	.5	0	0.00
Kasulu	15,502	18.0	3,822	4.4	212	.2	0	0.00
Kigoma Rural	6,578	11.1	1,023	1.7	292	.5	0	0.00
Kigoma Urban	347	8.0	58	1.3	0	.0	0	0.00
Total	**31,390**	**13.9**	10,879	**4.8**	**878**	**.4**	**0**	**0.00**

Cont. 14.5 Number of Agricultural Households Reporting the FIFTH important Constraint by Region, 2007/08 Agricultural Year

	Constraint							
	Crop Storage		Crop Processing		Marketing Information		Higher Transport Costs	
Region	Number	%	Number	%	Number	%	Number	%
Kibondo	1,307	1.7	373	.5	1,120	1.5	1,120	1.5
Kasulu	2,124	2.5	1,274	1.5	3,398	4.0	637	.7
Kigoma Rural	877	1.5	0	.0	3,070	5.2	2,485	4.2
Kigoma Urban	0	.0	0	.0	58	1.3	58	1.3
Total	**4,308**	**1.9**	**1,648**	**.7**	**7,646**	**3.4**	**4,300**	**1.9**

Cont. 14.5 Number of Agricultural Households Reporting the FIFTH important Constraint by Region, 2007/08 Agricultural Year

Region	Constraint							
	Destruction by Animals		Stealing		Pest and Disease		Local Government Taxation	
	Number	%	Number	%	Number	%	Number	%
Kibondo	1,120	1.5	5,228	6.9	8,029	10.6	0	.0
Kasulu	1,062	1.2	2,336	2.7	4,035	4.7	425	.5
Kigoma Rural	2,485	4.2	3,801	6.4	6,432	10.9	0	.0
Kigoma Urban	0	.0	1,042	24.0	868	20.0	58	1.3
Total	**4,667**	**2.1**	**12,407**	**5.5**	**19,364**	**8.6**	**483**	**.2**

Cont. 14.5 Number of Agricultural Households Reporting the FIFTH important Constraint by Region, 2007/08 Agricultural Year

Region	Constraint					
	Extended dry spell		Crop Farmers/Livestock keepers Conflicts		Total	
	Number	%	Number	%	Number	%
Kibondo	1,307	1.7	1,494	2.0	75,620	100
Kasulu	425	.5	2,124	2.5	86,004	100
Kigoma Rural	1,169	2.0	292	.5	59,205	100
Kigoma Urban	405	9.3	0	.0	4,341	100
Total	**3,306**	**1.5**	**3,910**	**1.7**	**225,171**	**100**

POVERTY MODULE

15.1 Number of households reporting average number of rooms and type of building Materials and District, 2007/08 Agricultural Year

District	Roofing Materials								
	Number of rooms	Iron Sheets	Tiles	Concrete	Asbestos	Grass/Leaves	Grass & Mud	Other	Total
Kibondo	3	35,476	1,867	0	187	32,676	5,228	187	75,620
Kasulu	3	42,684	637	0	425	36,101	6,158	0	86,004
Kigoma Rural	3	24,998	731	146	292	32,014	1,023	0	59,205
Kigoma Urban	3	2,200	0	58	0	1,852	232	0	4,341
Total	**3**	**105,357**	**3,235**	**204**	**904**	**102,643**	**12,641**	**187**	**225,171**

15.2 Number of households by type of Floor Materials and District, 2007/08 Agricultural Year

District	Floor Materials						
	Earth, Sand, Dung	Wood Planks, Bamboo, Palm	Parquet Or Polished Wood	Ceramic Tiles, Terrazzo	Cement	Other	Total
Kibondo	70,392	1,494	187	187	3,361	0	3,361
Kasulu	78,996	2,548	0	212	4,247	0	4,247
Kigoma Rural	50,141	1,462	146	146	7,309	0	7,309
Kigoma Urban	3,762	58	0	0	521	0	521
Total	**203,293**	**5,562**	**333**	**545**	**15,438**	**0**	**15,438**

15.3 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
Kibondo	10,830	18,298	12,323	31,929	187	747	0	1,307	75,620
Kasulu	6,158	9,556	6,371	62,857	425	425	212	0	86,004
Kigoma Rural	1,608	5,701	25,144	26,313	439	0	0	0	59,205
Kigoma Urban	926	1,447	1,158	752	0	58	0	0	4,341
Total	**19,522**	**35,003**	**44,995**	**121,852**	**1,050**	**1,229**	**212**	**1,307**	**225,171**

15.4 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
Kibondo	48,920	26,701	75,620	187	75,434	75,620	13,070	62,550	75,620	6,909	68,712	75,620	934	74,687	75,620
Kasulu	64,769	21,236	86,004	425	85,580	86,004	15,077	70,927	86,004	8,707	77,298	86,004	1,911	84,093	86,004
Kigoma Rural	46,779	12,426	59,205	585	58,620	59,205	23,682	35,523	59,205	13,741	45,463	59,205	1,754	57,451	59,205
Kigoma Urban	2,952	1,389	4,341	58	4,283	4,341	1,563	2,778	4,341	1,100	3,241	4,341	232	4,110	4,341
Total	**163,420**	**61,751**	**225,171**	**1,254**	**223,917**	**225,171**	**53,392**	**171,778**	**225,171**	**30,456**	**194,714**	**225,171**	**4,831**	**220,340**	**225,171**

cont… 15.4 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
Kibondo	34,916	40,704	75,620	6,722	68,899	75,620	1,494	74,127	75,620	1,120	74,500	75,620	1,494	74,127	75,620
Kasulu	48,630	37,375	86,004	8,070	77,935	86,004	637	85,367	86,004	0	86,004	86,004	849	85,155	86,004
Kigoma Rural	31,137	28,067	59,205	1,900	57,304	59,205	2,047	57,158	59,205	292	58,912	59,205	731	58,474	59,205
Kigoma Urban	1,679	2,663	4,341	116	4,225	4,341	174	4,168	4,341	58	4,283	4,341	116	4,225	4,341
Total	**116,362**	**108,809**	**225,171**	**16,808**	**208,363**	**225,171**	**4,351**	**220,820**	**225,171**	**1,471**	**223,700**	**225,171**	**3,190**	**221,981**	**225,171**

15.5 Number of Agricultural Households Reporting Main Source of Energy for Lighting by District, 2007/08 Agricultural Year

District	Mains Electricity	Solar	Gas (Biogas)	Hurricane Lamp	Pressure Lamp	Wick Lamp	Candles	Firewood	Other	Total
Kibondo	373	934	0	7,842	2,241	56,389	373	7,095	373	75,620
Kasulu	0	849	212	7,432	3,185	68,166	0	6,158	0	86,004
Kigoma Rural	0	1,023	0	9,794	1,169	46,487	0	731	0	59,205
Kigoma Urban	116	0	0	695	347	3,184	0	0	0	4,341
Total	**489**	2,806	212	25,764	6,943	174,225	373	13,985	373	225,171
%	**0.2**	**1.2**	**0.1**	**11.4**	**3.1**	**77.4**	**0.2**	**6.2**	**0.2**	**100.0**

15.6 Number of Agricultural Households Reporting Main Source of Energy for Cooking by District, 2007/08 Agricultural Year

District	Mains Electricity	Solar	Gas(Hh Biogas)	Bottled Gas(Industrial)	Paraffin / Kerosene	Charcoal	Firewood	Crop Residues	Livestock Dung	Other	Total
Kibondo	0	0	187	0	0	3,548	70,953	747	187	0	75,620
Kasulu	0	0	0	0	0	1,911	84,093	0	0	0	86,004
Kigoma Rural	0	146	0	292	146	2,485	55,989	146	0	0	59,205
Kigoma Urban	58	0	0	0	0	521	3,762	0	0	0	4,341
Total	**58**	**146**	**187**	**292**	**146**	**8,465**	**214,797**	**893**	**187**	**0**	**225,171**

15.7 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 Catchment	Uncovered Rainwater Catchment	Water Vendor	Tanked Truck	Bottled water	Other	Total
Kibondo	18,858	24,273	17,551	1,120	11,576	1,867	187	187	0	0	0	0	75,620
Kasulu	29,305	15,502	10,618	15,290	8,282	6,583	0	212	0	212	0	0	86,004
Kigoma Rural	16,519	6,140	146	10,233	5,263	19,296	585	877	146	0	0	0	59,205
Kigoma Urban	752	695	521	463	752	347	58	695	58	0	0	0	4,341
Total	**65,435**	**46,610**	**28,836**	**27,106**	**25,873**	**28,094**	**829**	**1,971**	**204**	**212**	**0**	**0**	**225,171**

15.8 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
Kibondo	5,602	11,203	11,203	22,406	19,605	2,801	2,801	5,394	0	75,620
Kasulu	25,483	15,927	3,185	25,483	12,741	3,185	0	6,973	0	86,004
Kigoma Rural	32,892	10,964	0	4,386	10,964	0	0	1,153	0	59,205
Kigoma Urban	0	0	0	1,736	868	1,736	0	3,194	0	4,341
Total	**63,976**	38,094	14,388	54,011	44,179	7,723	2,801	**1,693**	**0**	225,171

15.9 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	10-19 Minutes	20-29 Minutes	30-39 Minutes	40-49 Minutes	50-59 Minutes	above one Hour	Total
Kibondo	0	5,602	5,602	47,613	2,801	0	14,004	75,620
Kasulu	25,483	0	22,297	15,927	3,185	6,371	12,741	86,004
Kigoma Rural	10,964	2,193	13,157	21,928	4,386	0	6,578	59,205
Kigoma Urban	0	0	0	3,473	0	0	868	4,341
Total	**36,447**	**7,794**	**41,056**	**88,940**	**10,372**	**6,371**	**34,192**	**225,171**

15.10 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 Catchment	Uncovered Rainwater Catchment	Water Vendor	Tanker truck	Bottled water	Other	Total HH
Kibondo	17,551	23,153	19,045	1,494	12,137	2,054	0	187	0	0	0	0	75,620
Kasulu	28,456	15,502	10,618	15,502	8,282	7,220	0	212	0	212	0	0	86,004
Kigoma Rural	15,788	5,994	146	8,625	5,847	22,366	292	146	0	0	0	0	59,205
Kigoma Urban	752	695	463	1,100	752	405	116	0	58	0	0	0	4,341
Total	**62,548**	**45,343**	**30,272**	**26,720**	**27,018**	**32,045**	**408**	**545**	**58**	**212**	**0**	**0**	**225,171**

15.11 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
Kibondo	5,602	11,203	5,602	19,605	28,008	2,801	2,801	0	0	75,620
Kasulu	25,483	15,927	3,185	25,483	12,741	3,185	0	0	0	86,004
Kigoma Rural	21,928	10,964	4,386	6,578	13,157	0	2,193	0	0	59,205
Kigoma Urban	0	0	0	1,736	868	1,736	0	0	0	4,341
Total	**53,012**	**38,094**	**13,172**	**53,403**	**54,774**	**7,723**	**4,994**	0	0	**225,171**

15.12 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	above one Hour	Total
Kibondo	0	2,801	2,801	39,211	2,801	0	28,008	75,620
Kasulu	22,297	3,185	9,556	28,668	3,185	6,371	12,741	86,004
Kigoma Rural	8,771	2,193	6,578	19,735	6,578	2,193	13,157	59,205
Kigoma Urban	0	0	0	1,736	868	0	1,736	4,341
Total	**31,068**	**8,179**	**18,935**	**89,350**	**13,433**	**8,563**	**55,642**	**225,171**

15.13 Number of Agricultural Households Reporting type of TOILET the household normally use by District, 2007/08 Agricultural Year

District	No Toilet / Bush	Flush Toilet	Traditional Pit Latrine	Improved Pit Latrine - hh Owned	Other Type	Total
Kibondo	3,174	747	70,019	1,680	0	75,620
Kasulu	2,124	637	82,182	1,062	0	86,004
Kigoma Rural	1,316	877	56,281	731	0	59,205
Kigoma Urban	0	116	3,820	405	0	4,341
Total	**6,613**	**2,377**	**212,302**	**3,878**	**0**	**225,171**

15.14 Number of Agricultural Households Reporting Number of meals the household normally has per day by District, 2007/08 Agricultural Year

District	One	Two	Three	Total
Kibondo	60,870	234,644	8,216	75,620
Kasulu	75,174	99,144	9,131	86,004
Kigoma Rural	47,218	92,724	9,210	59,205
Kigoma Urban	3,184	91,259	868	4,341
Total	**186,445**	**126,082**	**27,425**	**225,171**

15.15 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
Kibondo	42,945	20,539	10,269	1,494	373	0	0	0	75,620
Kasulu	43,745	34,189	6,158	1,486	425	0	0	0	86,004
Kigoma Rural	31,137	20,466	5,116	2,047	292	146	0	0	59,205
Kigoma Urban	810	2,257	752	463	58	0	0	0	4,341
Total	**118,638**	**77,452**	**22,297**	**5,490**	**1,148**	**146**	**0**	**0**	**225,171**

10.16 Number of Agricultural Households Reporting Number of days the household Consumed Fish during the Preceding Week by Region, 2007/08 Agricultural Year

Region	Not Eaten	One	Two	Three	Four	Five	Six	Seven	Total
Kibondo	46,493	16,991	10,269	1,680	187	0	0	0	75,620
Kasulu	18,900	39,286	14,865	9,131	1,911	637	425	849	86,004
Kigoma Rural	10,379	9,356	16,226	10,087	5,994	3,216	585	3,362	59,205
Kigoma Urban	58	637	1,331	1,042	810	289	116	58	4,341
Total	**75,829**	**66,270**	**42,692**	**21,940**	**8,902**	**4,143**	**1,125**	**4,270**	**225,171**

15.17 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
Kibondo	18,112	28,568	14,564	5,602	8,776	75,620
Kasulu	53,726	19,112	7,008	3,610	2,548	86,004
Kigoma Rural	20,612	22,659	7,163	4,970	3,801	59,205
Kigoma Urban	1,100	637	752	752	1,100	4,341
Total	**93,549**	**70,975**	**29,487**	**14,934**	**16,225**	**225,171**

15.18 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	Other Casual Cash Earnings	Cash Remittance	Fishing	Other	Not applicable	Total
Kibondo	45,746	2,987	934	1,120	1,867	6,162	2,241	11,576	1,867	0	934	187	75,620
Kasulu	65,618	1,062	425	2,336	212	2,761	1,699	10,193	849	0	849	0	86,004
Kigoma Rural	41,078	585	1,316	3,070	731	4,386	1,608	3,216	146	2,778	146	146	59,205
Kigoma Urban	2,257	405	232	58	0	116	58	405	58	232	232	289	4,341
Total	**154,699**	**5,039**	**2,905**	**6,584**	**2,810**	**13,424**	**5,605**	**25,391**	**2,921**	**3,009**	**2,161**	**622**	**225,171**

GOAT PRODUCTION

16.1 Number of Agriculture Households Rearing Goats by District during the 2007/08 Agricultural Year

District	Raising goats		Not raising goats		Total	Total Number of Households Rearing Livestock
	No of households	%	No of households	%		
Kibondo	40,704	54	34,916	46	75,620	21,846
Kasulu	37,587	44	48,417	56	86,004	26,332
Kigoma Rural	21,782	37	37,423	63	59,205	18,419
Kigoma Urban	1,505	35	2,836	65	4,341	1,158
Total	**101,578**	**45**	**123,593**	**55**	**225,171**	**67,755**

16.2 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	%	households raring Goats	Number of Goats
Kibondo	40,704	165,431	93.7	0	0	0.0	187	11,203	6.3	40,704	176,634
Kasulu	37,587	192,395	99.9	0	0	0.0	212	212	0.1	37,587	192,607
Kigoma Rural	21,782	118,994	99.6	0	0	0.0	146	439	0.4	21,782	119,433
Kigoma Urban	1,505	11,345	100.0	0	0	0.0	0	0	0.0	1,505	11,345
Total	**101,578**	**488,165**	**97.6**	**0**	**0**	**0.0**	**545**	**11,854**	**2.4**	**101,578**	**500,019**

16.3 Number of Goats by Flock size

Flock size	Goat Rearing Households	%	Herd of Goat	Average Per Household
1 - 4	192,475	91	351,664	2
5 - 9	15,034	7	91,968	6
10 - 14	2,170	1	23,742	11
15 - 19	571	0	9,148	16
25 - 29	520	0	10,766	21
40+	245	0	12,730	52
Total	**211,013**	**100**	**500,019**	**2**

16.4 Total Number of Goat by Type and Region, 2007/08 Agricultural Year – KIGOMA

Goat Type	No hhds	Indigenous	No hhds	Improved Beef	Number of Improved Dairy		Total Goat	%
					No hhds	Improved Beef		
Billy Goat	132,019	337,463	0	.	1,356	16,865	354,328	18.05
Castrated Goat	39,316	116,231	44	88	129	129	116,449	5.93
She Goat	172,486	968,134	88	307	1,749	17,527	985,968	50.23
Male Kid	97,612	235,000	163	326	623	1,783	237,109	12.08
She Kid	97,880	253,270	163	326	892	15,606	269,202	13.71
Total	539,314	1,910,098	458	1,047	4,748	51,911	1,963,056	100.00

16.5 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	%
Kibondo	19,045	12	2,614	2	112,217	68	13,257	8	18,298	11	165,431	100
Kasulu	30,792	16	7,645	4	110,213	57	18,050	9	25,695	13	192,395	100
Kigoma Rural	18,273	15	3,216	3	59,643	50	16,080	14	21,782	18	118,994	100
Kigoma Urban	1,621	14	116	1	8,161	72	752	7	695	6	11,345	100
Total	**69,731**	**14**	**13,591**	**3**	**290,235**	**59**	**48,140**	**10**	**66,469**	**14**	**488,165**	**100**

16.6 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	%
Kibondo	0	0	0	0	0	0	0	0	0	0	0	0
Kasulu	0	0	0	0	0	0	0	0	0	0	0	0
Kigoma Rural	0	0	0	0	0	0	0	0	0	0	0	0
Kigoma Urban	0	0	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

16.7 Number of Improved Dairy Goats by Category and District as of 1st October 2008

	Goat Type											
	Billy Goat		Castrated Goat		She Goat		Male Kid		She Kid		Total	
District	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Kibondo	0	0	3,734	33	7,469	67	0	0	0	0	11,203	100
Kasulu	0	0	212	100	0	0	0	0	0	0	212	100
Kigoma Rural	0	0	439	100	0	0	0	0	0	0	439	100
Kigoma Urban	0	0	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**4,385**	**37**	**7,469**	**63**	**0**	**0**	**0**	**0**	**11,854**	**100**

16.8 Milk Production from Goat By Season and Region, During the 2007/08 Agricultural Year

	Number of Milked goat			Average milk production per goat per day			Average number of days for goats on milked			Average price per litre per season		
	Wet Season	Dry Season	Total	Wet Season	Dry Season	Total	Wet Season	Dry Season	Total	Wet Season	Dry Season	Total
District	Sum	Sum	Sum	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
Kibondo	0	0	0	.0	.0	.0	0	0	0	0	0	0
Kasulu	0	0	0	.0	.0	.0	0	0	0	0	0	0
Kigoma Rural	0	0	0	.0	.0	.0	0	0	0	0	0	0
Kigoma Urban	0	0	0	.0	.0	.0	0	0	0	0	0	0
Total	0	0	0	.0	.0	.0	0	0	0	0	0	0

CATTLE PRODUCTION

17.1 Total Number of Households Rearing Cattle by District during 2007/08 Agriculture Year

Regions	Households rearing cattle		Households not rearing cattle		Total Agriculture households	Total Number of Households Rearing Livestock
	Number	%	Number	%		
Kibondo	5,041	7	70,579	93	75,620	21,846
Kasulu	11,680	14	74,325	86	86,004	26,332
Kigoma Rural	3,216	5	55,989	95	59,205	18,419
Kigoma Urban	347	8	3,994	92	4,341	**1,158**
Total	**20,284**	**9**	**204,886**	**91**	**225,171**	**67,755**

17.2 Number of Cattle by Type and District as of 1st October 2008

Districts	Indigenous			Improved Beef			Improved Dairy			Total		
	Number of households	Number of Cattle	%	Number of households	Number of Cattle	%	Number of households	Number of Cattle	%	households Rearing cattle	Number of Cattle	%
Kibondo	4,668	37,904	96.2	0	0	0	373	1,494	4	5,041	39,397	100
Kasulu	11,467	76,236	99.4	212	212	0	212	212	0	11,892	76,661	100
Kigoma Rural	3,070	38,008	96.7	146	292	1	146	1,023	3	3,362	39,324	100
Kigoma Urban	347	1,852	84.2	0	0	0	116	347	16	463	2,200	100
Total	**19,552**	**154,000**	**97.7**	**359**	**505**	**0**	**848**	**3,077**	**2**	**20,759**	**157,581**	**100**

17.3 Number of Households rearing cattle, Head of Cattle and Average Head per Household by Herd size During the 2007/08 Agricultural Year - KIGOMA

Herd size	Cattle Rearing Households	%	Head of Cattle	Average Per Household
1 - 5	14,413	71.06	43,613	3.03
6 - 10	3,544	17.47	26,528	7.49
11 - 15	1,091	5.38	14,404	13.21
16 - 20	146	.72	2,631	18.00
21 - 30	187	.92	4,855	26.00
51 - 60	545	2.69	30,614	56.15
61 -100	146	.72	12,426	85.00
101 -150	212	1.05	22,510	106.00
Total	20,284	100.00	157,581	7.77

17.4 Total Number of Cattle by Cattle Types and Category, 2007/08 Agricultural Year- KIGOMA

Cattle Types	Indigenous	Improved Beef	Improved Diary	Total Cattle	%
Castrated Bulls (Oxen)	6,921	.	.	6,921	5
Uncastrated Bulls	15,617	.	958	16,576	17
Cows	61,942	292	635	62,870	32
Steers	1,319	.	.	1,319	2
Heifers	32,664	.	431	33,096	17
Male Calves	13,684	.	373	14,058	13
Female Calves	21,852	212	678	22,743	14
TOTAL	154,000	505	3,077	157,581	100

17.5 Total 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	%
Kibondo	373	1	5,228	14	20,912	55	560	1	5,228	14	3,361	9	2,241	6	37,904	100
Kasulu	3,185	4	5,946	8	28,031	37	0		18,900	25	5,734	8	14,440	19	76,236	100
Kigoma Rural	3,362	9	4,386	12	11,841	31	585	2	8,479	22	4,532	12	4,824	13	38,008	100
Kigoma Urban	0		58	3	1,158	63	174	9	58	3	58	3	347	19	1,852	100
Total	**6,921**	**4**	**15,617**	**10**	**61,942**	**40**	**1,319**	**1**	**32,664**	**21**	**13,684**	**9**	**21,852**	**14**	**154,000**	**100**

17.6 Total 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	%
Kibondo	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Kasulu	.	.00	.	.00	.	.00	.	.00	.	.00	.	.00	212	100	212	100
Kigoma Rural	.	.00	.	.00	292	100	.	.00	.	.00	.	.00	.		292	100
Kigoma Urban	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Total	**.**	**.00**	**.**	**.00**	**292**	**41**	**.**	**.00**	**.**	**.00**	**.**	**.00**	**212**	**59**	**505**	**100**

17.7 Total 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	%
Kibondo	.	.00	373	25.00	373	25.00	0	.00	373	25.00	373	25.00	0	.00	1,494	100.00
Kasulu	.	.00	0	.00	0	.00	0	.00	0	.00	0	.00	212	100.00	212	100.00
Kigoma Rural	.	.00	585	57.14	146	14.29	0	.00	0	.00	0	.00	292	28.57	1,023	100.00
Kigoma Urban	.	.00	0	.00	116	33.33	0	.00	58	16.67	0	.00	174	50.00	347	100.00
Total	**.**	**.00**	**958**	**31.14**	**635**	**20.65**	**0**	**.00**	**431**	**14.02**	**373**	**12.14**	**678**	**22.05**	**3,077**	**100.00**

CATTLE MILK PRODUCTION

18.1 Number of Milked Cow by Category of Cattle, Season type and District, during the 2007/08 Agricultural Year

	Wet Season			Dry Season		
	Improved	Indigenous	Total	Improved	Indigenous	Total
District	Sum	Sum	Sum	Sum	Sum	Sum
Kibondo	373	10,269	10,643	373	8,776	9,149
Kasulu	.	13,591	13,591	.	9,131	9,131
Kigoma Rural	292	6,724	7,017	.	4,824	4,824
Kigoma Urban	463	405	868	463	405	868
Total	1,129	30,990	32,119	836	23,136	23,973

18.2 Average milk production per cow per day, by Category of Cow, Season, and District, during the 2007/08 Agricultural Year

	Wet Season			Dry Season		
	Improved	Indigenous	Total	Improved	Indigenous	Total
District	Mean	Mean	Mean	Mean	Mean	Mean
Kibondo	5	2	2	5	2	2
Kasulu	.	2	2	.	2	2
Kigoma Rural	2	3	3	.	1	1
Kigoma Urban	11	5	8	9	4	6
Total	6	2	3	6	2	2

18.3 Average number of days for cows on milked, by category of Cattle, Season and District, during the 2007/08 Agricultural Year

	Wet Season			Dry Season		
	Improved	Indigenous	Total	Improved	Indigenous	Total
District	Mean	Mean	Mean	Mean	Mean	Mean
Kibondo	78	107	103	76	93	90
Kasulu	.	92	92	.	65	65
Kigoma Rural	45	170	161	.	130	130
Kigoma Urban	260	89	157	205	72	125
Total	103	114	114	107	95	96

18.4 Average Cattle Milk price (Tshs/litre) per season by category of cow and District, during the 2007/08 Agricultural Year

	Wet Season			Dry Season			Total		
	Improved	Indigenous	Total	Improved	Indigenous	Total	Improved	Indigenous	Total
District	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
Kibondo	400	196	209	350	284	294	367	235	249
Kasulu	.	325	325	.	422	422	.	360	360
Kigoma Rural	450	546	539	.	525	525	450	536	533
Kigoma Urban	800	867	833	1,000	867	933	900	867	883
Total	552	347	359	556	418	430	554	377	389

18.5 Average Cattle Milk price (Tshs/litre) per season by category of cow and District, during the 2007/08 Agricultural Year

	Number of milked cows		Average milk production per cow per day		Average number of days for cows on milked		Average price per litre per season	
District	Wet Season	Dry Season	Wet Season	Dry Season	Wet Season	Dry Season	Wet Season	Dry Season
Kibondo	10,643	9,149	2.5	2.3	103	90	209	294
Kasulu	13,591	9,131	2.3	2.4	92	65	325	422
Kigoma Rural	7,017	4,824	3.0	1.2	161	130	539	525
Kigoma Urban	868	868	8.0	6.4	157	125	833	933
Total	32,119	23,973	2.8	2.3	114	96	359	430

SHEEP PRODUCTION

19.1 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
Kibondo	1,307	2	74,313	98	75,620	21,846
Kasulu	4,672	5	81,332	95	86,004	26,332
Kigoma Rural	6,724	11	52,480	89	59,205	18,419
Kigoma Urban	521	12	3,820	88	4,341	1,158
Total	**13,224**	**6**	**211,946**	**94**	**225,171**	**67,755**

19.2 Number of Household rearing and number of Sheep by District as of 1st October 2008

District	Number of households	%	Total Sheep	%
Kibondo	21,846	32	2,987	2.6
Kasulu	26,332	39	16,351	14.0
Kigoma Rural	18,419	27	95,459	81.9
Kigoma Urban	1,158	2	1,736	1.5
Total	**67,755**	**100**	**116,534**	**100.0**

19.3 Total Number of Indigenous Sheep by Category of Sheep and District as of 1st October 2008

District	Number of Indigenous					Total
	Ram	Castrated Sheep	She Sheep	Male Lamb	She Lamb	
Kibondo	187	0	2,614	187	0	2,987
Kasulu	2,124	212	10,405	1,486	2,124	16,351
Kigoma Rural	5,555	45,025	35,669	3,508	5,701	95,459
Kigoma Urban	405	58	1,273	0	0	1,736
Total	**8,270**	**45,295**	**49,962**	**5,182**	**7,825**	**116,534**

19.4 Number of Households rearing Sheep, Head of Sheep and Average Head per Household by Herd size During the 2007/08 Agricultural Year, Kigoma Region

Flock Size	Sheep Rearing Households	%	Heard of Sheep	Average Number of Sheep Per Household
1 - 4	24,809	93	40,822	2
5 - 9	1,205	5	8,028	7
10 - 14	292	1	3,508	12
15 - 19	146	1	2,778	19
40+	292	1	61,398	210
Total	**26,745**	**100**	**116,534**	**4**

19.5 Total Number of Sheep by Breed Type During the 2007/08 Agriculture Year - Kigoma region

Cartegory	Number of Indigenous		Number of Improved		Total	
	Number of Sheep	%	Number of Sheep	%	Number of Sheep	%
Ram	3,694	18	0	0	8,270	7
Castrated Sheep	262	1	0	0	45,295	39
She Sheep	12,230	60	0	0	49,962	43
Male Kid	864	4	0	0	5,182	4
She Kid	3,485	17	0	0	7,825	7
Total	**20,535**	**100**	**0**	**0**	**116,534**	**100**

PIG PRODUCTION

20.1 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	
	No of households	%	No of households	%	No of households	%
Kibondo	1,494	2	74,127	98	75,620	100
Kasulu	3,185	4	82,819	96	86,004	100
Kigoma Rural	1,169	2	58,035	98	59,205	100
Kigoma Urban	174	4	4,168	96	4,341	100
Total	**6,022**	**3**	**219,148**	**97**	**225,171**	**100**

20.2 Number of Households Rearing Pigs, Head of Pigs and Average Head per Household by Herd Size as of 1st October 2008 - KIGOMA REGION

Herd Size	Pig rearing households		Herd of pigs		Average per household
	Number	%	Number	%	
1 - 4	5,011	83	10,219	0.0	2
5 - 9	683	11	4,245	0.0	6
10 - 14	328	5	3,822	0.0	12
Total	**6,022**	**100**	**18,286**	0.0	**3**

20.3 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
	Total PIG	Total PIG	Total PIG	Total PIG	Total PIG	Total PIG
Kibondo	1,120	187	1,867	187	0	3,361
Kasulu	2,548	425	4,247	425	1,274	8,919
Kigoma Rural	877	0	1,900	1,169	439	4,386
Kigoma Urban	521	116	984	0	0	1,621
Total	**5,067**	**727**	**8,999**	**1,781**	**1,713**	**18,286**

20.4 Number of Pigs per Household by District as of 1st October 2008

District	Number of households	Number of Pigs	Number of Pig per Household
Kibondo	1,494	3,361	2.3
Kasulu	3,185	8,919	2.8
Kigoma Rural	1,169	4,386	3.8
Kigoma Urban	174	1,621	9.3
Total	**6,022**	**18,286**	**3.0**

CHICKEN AND OTHER LIVESTOCK

21.1 Number of CHICKEN by Type and District as of 1st October 2008

District	Indigineous 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
Kibondo	28,381	164,124	87	373	10,456	6	0	0	0	28,754	174,581
Kasulu	35,888	275,638	80	212	2,124	1	212	63,707	18	36,313	341,469
Kigoma Rural	30,553	328,769	88	146	731	0	0	0	0	30,699	329,500
Kigoma Urban	2,720	25,584	99	0	0	0	0	0	0	2,720	25,584
Total	**97,542**	**794,116**	**85**	**732**	**13,311**	**1**	**212**	**63,707**	**7**	**98,487**	**871,134**

21.2 Number of Households Keeping Chickens and Average Number of Chickens per Household by Flock Size as of 1st October 2008 - Kigoma Region

Heard Size	Indigineous chicken				Layers				Broilers			
	Number of Households	Number of Indigineous Chicken	%	Number of Animal Per Household	Number of Households	Number of Layers	%	Number of Animal Per Household	Number of Households	Number of Broilers	%	Number of Animal Per Household
1-49	96,183	723,429	98	8	732	13,311	2	18	0	0	0	0
50-99	1,360	70,688	100	52	0	0	0	0	0	0	0	0
100-299	0	0	0	0	0	0	0	0	0	0	0	0
300-499	0	0	0	0	0	0	0	0	212	63,707	100	300
Total	**97,542**	**794,116**	**91**	**8**	**732**	**13,311**	**2**	**18**	**212**	**63,707**	**7**	**300**

21.3 Number of Other Livestock by Type of livestock and District as of 1st October 2008

District	Ducks	Guinea pigs	Turkeys	Rabbits	Donkeys	Horses	Dogs
Kibondo	13,630	0	0	0	0	0	373
Kasulu	637	0	0	637	0	0	2,761
Kigoma Rural	45,171	292	0	0	0	0	439
Kigoma Urban	347	0	0	0	0	0	0
Total	59,786	292	0	637	0	0	3,573

PEST AND PARASITES

22.1 Number of Livestock Rearing Households Deworming Livestock by District During 2007/08 Agriculture Year

District	Deworming Livestock		Not Deworming Livestock		Total	
	Number	%	Number	%	Number of Livestock Rearing households	%
Kibondo	26,327	51	25,020	49	51,347	100
Kasulu	28,243	48	31,216	53	59,460	100
Kigoma Rural	16,519	39	26,313	61	42,832	100
Kigoma Urban	1,736	58	1,273	42	3,010	100
Total	**72,826**	**46**	**83,823**	**54**	**156,649**	**100**

22.2 Number of Livestock Rearing households that dewormed Livestock by type of livestock and District, 2007/08 Agricultural Year

District	Cattles				Goats/Sheep				Pigs				Chicken			
	Households that dewormed	Households that DID NOT deworm	Not Applicable	Total	Households that dewormed	Households that DID NOT deworm	Not Applicable	Total	Households that dewormed	Households that DID NOT deworm	Not Applicable	Total	Households that dewormed	Households that DID NOT deworm	Not Applicable	Total
Kibondo	4,294	1,867	20,539	26,701	22,780	1,120	2,987	26,887	1,307	2,241	22,219	25,767	5,041	9,709	11,950	26,701
Kasulu	10,193	1,911	15,927	28,031	21,236	2,973	4,035	28,243	3,610	3,398	21,236	28,243	4,459	15,077	8,707	28,243
Kigoma Rural	3,362	292	13,303	16,957	12,426	1,608	2,924	16,957	1,023	292	15,203	16,519	5,263	5,555	6,578	17,396
Kigoma Urban	289	0	1,447	1,736	1,447	0	289	1,736	116	0	1,621	1,736	347	1,100	289	1,736
Total	**18,139**	**4,071**	**51,215**	**73,425**	**57,888**	**5,701**	**10,235**	**73,825**	**6,056**	**5,931**	**60,279**	**72,266**	**15,111**	**31,441**	**27,524**	**74,076**

22.3 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	%
Kibondo	26,514	52	15,871	31	8,962	17	51,347	100
Kasulu	19,537	33	23,784	40	16,351	27	59,672	100
Kigoma Rural	12,426	29	14,180	33	16,519	38	43,124	100
Kigoma Urban	1,158	38	752	25	1,100	37	3,010	100
Total	**59,634**	**38**	**54,587**	**35**	**42,932**	**27**	**157,154**	**100**

22.4 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	%
Kibondo	373	1	19,605	38	2,801	5	28,381	55	0	0	51,161	100
Kasulu	11,680	20	13,166	22	3,822	6	30,367	51	637	1	59,672	100
Kigoma Rural	2,485	6	7,602	18	2,193	5	30,845	72	0	0	43,124	100
Kigoma Urban	58	2	637	21	0	0	2,142	71	174	6	3,010	100
Total	**14,596**	**9**	**41,010**	**26**	**8,816**	**6**	**91,735**	**58**	**811**	**1**	**156,967**	**100**

22.5 Number of Livestock Rearing Households normally Encountering Tsetse Flies Problems by District during 2007/08 Agriculture Year

District	Households Encoutering Tsetse problems		Households Without Tsetse Problems		Not Applicable		Total	
	Number	%	Number	%	Number	%	Number	%
Kibondo	5,041	10	26,327	51	19,979	39	51,347	100
Kasulu	2,973	5	34,826	58	21,873	37	59,672	100
Kigoma Rural	3,947	9	16,811	39	22,366	52	43,124	100
Kigoma Urban	174	6	1,736	58	1,100	37	3,010	100
Total	**12,135**	**8**	**79,701**	**51**	**65,317**	**42**	**157,154**	**100**

22.6 Number of Livestock Rearing Households by Method of Tsetse Flies Control and District during 2007/08 Agriculture Year

	Dipping		Spraying		Trappig		None		Other		Total	
District	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Kibondo	747	1	4,294	8	3,361	7	42,572	83	187	0	51,161	100
Kasulu	3,610	6	5,521	9	3,822	6	46,718	78	0	0	59,672	100
Kigoma Rural	1,169	3	3,362	8	1,900	4	36,692	85	0	0	43,124	100
Kigoma Urban	58	2	232	8	58	2	2,663	88	0	0	3,010	100
Total	**5,584**	**4**	**13,410**	**9**	**9,142**	**6**	**128,645**	**82**	**187**	**0**	**156,967**	**100**

22.7 Number of Livestock Rearing Households normally Encountering Newcastle Disease Problems by District during 2007/08 Agriculture Year

District	Households Encoutering Newcastle Disease problems		Households NOT Encoutering Newcastle Disease problems		Not Applicable		Total	
	Number	%	Number	%	Number	%	Number	%
Kibondo	16,805	33	14,937	29	19,605	38	51,347	100
Kasulu	20,386	34	25,270	42	14,016	23	59,672	100
Kigoma Rural	23,536	55	9,210	21	10,379	24	43,124	100
Kigoma Urban	1,910	63	810	27	289	10	3,010	100
Total	**62,637**	**40**	**50,228**	**32**	**44,289**	**28**	**157,154**	**100**

22.8 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	%
Kibondo	5,415	11	4,481	9	41,265	81	51,161	100
Kasulu	14,865	25	9,344	16	35,463	59	59,672	100
Kigoma Rural	11,256	26	8,771	20	23,097	54	43,124	100
Kigoma Urban	868	29	463	15	1,679	56	3,010	100
Total	**32,404**	**21**	**23,059**	**15**	**101,504**	**65**	**156,967**	**100**

22.9 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	%
Kibondo	9,709	19	22,033	43	19,605	38	51,347	100
Kasulu	7,857	13	36,313	61	15,502	26	59,672	100
Kigoma Rural	13,303	31	19,150	44	10,671	25	43,124	100
Kigoma Urban	1,100	37	1,621	54	289	10	3,010	100
Total	**31,969**	**20**	**79,116**	**50**	**46,068**	**29**	**157,154**	**100**

22.10 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	%
Kibondo	3,361	7	5,602	11	42,198	82	51,161	100
Kasulu	3,610	6	9,768	16	46,294	78	59,672	100
Kigoma Rural	2,485	6	12,133	28	28,506	66	43,124	100
Kigoma Urban	232	8	521	17	2,257	75	3,010	100
Total	**9,688**	**6**	**28,024**	**18**	**119,255**	**76**	**156,967**	**100**

22.11 Number of Livestock Rearing Households normally Encountering Foot and Mouth Disease Problems by District during 2007/08 Agriculture Year

District	Households Encoutering Foot and Mouth Disease		Households NOT Encoutering Foot and Mouth Disease		Not Applicable		Total	
	Number	%	Number	%	Number	%	Number	%
Kibondo	1,680	3	5,975	12	42,572	85	50,227	100
Kasulu	2,973	5	16,564	28	40,135	67	59,672	100
Kigoma Rural	1,169	3	3,655	9	37,423	89	42,247	100
Kigoma Urban	0	0	405	13	2,605	87	3,010	100
Total	**5,823**	**4**	**26,599**	**17**	**122,735**	**79**	**155,156**	**100**

22.12 Number of Livestock Rearing Households normally Encountering Lympyskin Disease Problems by District during 2007/08 Agriculture Year

District	Households Encoutering Lympyskin Disease		Households NOT Encoutering Lympyskin Disease		Not Applicable		Total	
	Number	%	Number	%	Number	%	Number	%
Kibondo	560	1	5,415	11	44,252	88	50,227	100
Kasulu	1,486	2	16,139	27	42,047	70	59,672	100
Kigoma Rural	146	0	4,532	11	37,423	89	42,101	100
Kigoma Urban	0	0	405	13	2,605	87	3,010	100
Total	**2,193**	**1**	**26,491**	**17**	**126,326**	**81**	**155,010**	**100**

LIVESTOCK EXTENSION

23.1 Number of households receiving extension advice by region during the 2007/08 agriculture year

Region	Receiving Livestock services		Not Receiving Livestock Extension services		Total
	Number	%	Number	%	
Kibondo	30,248	61	19,419	39	49,667
Kasulu	28,243	52	26,332	48	54,576
Kigoma Rural	25,728	62	15,496	38	41,224
Kigoma Urban	2,431	79	637	21	3,068
Total	86,651	58	61,883	42	148,534

23.2 Number of Households receiving Livestock advice (overall) By Source of Extension and Region during the 2007/08 Agriculture Year

Region	Source of Livestock Extension												Number of Household receiving Extension
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbour		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Kibondo	27,447	90.7	2,614	8.6	1,307	4.3	373	1.2	2,241	7.4	1,867	6.2	30,248
Kasulu	22,297	78.9	6,795	24.1	0	0.0	0	0.0	849	3.0	2,973	10.5	28,243
Kigoma Rural	24,120	93.8	2,778	10.8	1,462	5.7	1,169	4.5	4,093	15.9	1,316	5.1	25,728
Kigoma Urban	2,431	100.0	58	2.4	0	0.0	0	0.0	58	2.4	695	28.6	2,431
Total	76,296	88.1	12,245	14.1	2,769	3.2	1,543	1.8	7,241	8.4	6,850	7.9	86,651

23.3 Number of Agriculture Households Receiving Advice on Feeds and Proper Feeding by Source and Region During 2007/08 Agriculture Year

Region	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)	%	
Kibondo	10,456	90.3	187	1.6	0	0.0	0	0.0	0	0.0	934	8.1	0	0.0	11,576
Kasulu	7,645	77.8	1,486	15.1	178	1.8	0	0.0	0	0.0	425	4.3	89	0.9	9,823
Kigoma Rural	7,455	85.1	146	1.7	288	3.3	0	0.0	731	8.3	0	0.0	140	1.6	8,760
Kigoma Urban	1,563	97.2	0	0.0	45	2.8	0	0.0	0	0.0	0	0.0	0	0.0	1,608
Total	27,119	86.5	1,819	5.8	284	0.9	0	0.0	731	2.3	1,358	4.3	35	0.1	31,347

23.4 Number of households receiving extension advice on Proper Livestock Housing by region during the 2007/08 agriculture year

Region	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)	%	
Kibondo	19,232	93.6	187	0.9	0	0.0	187	0.9	187	0.9	747	3.6	0	0.0	20,539
Kasulu	11,043	67.5	4,884	29.9	0	0.0	0	0.0	212	1.3	212	1.3	0	0.0	16,351
Kigoma Rural	10,379	81.6	731	5.7	146	1.1	146	1.1	877	6.9	439	3.4	0	0.0	12,718
Kigoma Urban	1,968	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,968
Total	42,622	82.6	5,802	11.2	146	0.3	333	0.6	1,276	2.5	1,398	2.7	0	0.0	51,576

23.5 Number of households receiving extension advice on Proper Milking and Milk Hygene by region during the 2007/08 agriculture year

Region	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)	%	
Kibondo	5,788	97	187	3	0	0	0	0	0	0	0	0	0	0	5,975
Kasulu	2,124	77	425	15	0	0	0	0	0	0	212	8	0	0	2,761
Kigoma Rural	1,316	90	0	0	0	0	0	0	146	10	0	0	0	0	1,462
Kigoma Urban	1,042	100	0	0	0	0	0	0	0	0	0	0	0	0	1,042
Total	10,269	91	611	5	0	0	0	0	146	1	212	2	0	0	11,239

23.6 Number of households receiving extension advice on Livestock fattening by region during the 2007/08 agriculture year

Region	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)	%	
Kibondo	4,668	96.2	187	3.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4,855
Kasulu	1,062	83.3	212	16.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,274
Kigoma Rural	585	57.1	0	0.0	0	0.0	0	0.0	439	42.9	0	0.0	0	0.0	1,023
Kigoma Urban	926	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	926
Total	7,241	89.6	399	4.9	0	0.0	0	0.0	439	5.4	0	0.0	0	0.0	8,078

23.7 Number of households receiving extension advice on Disease control (dipping/spraying) by region during the 2007/08 agriculture year

Region	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)	%	
Kibondo	20,726	94.9	0	0.0	0	0.0	373	1.7	0	0.0	747	3.4	0	0.0	21,846
Kasulu	10,830	67.1	3,610	22.4	0	0.0	0	0.0	212	1.3	1,274	7.9	212	1.3	16,139
Kigoma Rural	19,296	93.6	0	0.0	0	0.0	146	0.7	1,023	5.0	146	0.7	0	0.0	20,612
Kigoma Urban	1,447	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,447
Total	52,299	87.1	3,610	6.0	0	0.0	520	0.9	1,236	2.1	2,167	3.6	212	0.4	60,044

23.8 Number of households receiving extension advice on Herd/Flock size and selection by region during the 2007/08 agriculture year

Region	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)	%	
Kibondo	8,402	95.7	187	2.1	0	0.0	0	0.0	0	0.0	187	2.1	0	0.0	8,776
Kasulu	7,220	87.2	637	7.7	0	0.0	0	0.0	0	0.0	425	5.1	0	0.0	8,282
Kigoma Rural	5,555	76.0	0	0.0	0	0.0	0	0.0	1,754	24.0	0	0.0	0	0.0	7,309
Kigoma Urban	752	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	752
Total	21,930	87.3	824	3.3	0	0.0	0	0.0	1,754	7.0	611	2.4	0	0.0	25,119

23.9 Number of households receiving extension advice on Pasture Establishment by region during the 2007/08 agriculture year

Region	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)	%	
Kibondo	3,734	90.9	187	4.5	187	4.5	0	0.0	0	0.0	0	0.0	0	0.0	4,108
Kasulu	2,973	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2,973
Kigoma Rural	2,778	61.3	146	3.2	0	0.0	0	0.0	1,462	32.3	146	3.2	0	0.0	4,532
Kigoma Urban	463	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	463
Total	**9,948**	**82.4**	**333**	**2.8**	**187**	**1.5**	**0**	**0.0**	**1,462**	**12.1**	**146**	**1.2**	**0**	**0.0**	**12,076**

23.10 Number of households receiving extension advice on Group formation and strengthening by region during the 2007/08 agriculture year

Region	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)	%	
Kibondo	12,883	81.2	1,680	10.6	1,120	7.1	0	0.0	187	1.2	0	0.0	0	0.0	15,871
Kasulu	4,035	55.9	2,973	41.2	0	0.0	0	0.0	212	2.9	0	0.0	0	0.0	7,220
Kigoma Rural	9,794	69.8	1,023	7.3	1,316	9.4	877	6.3	585	4.2	292	2.1	146	1.0	14,034
Kigoma Urban	1,042	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,042
Total	**27,755**	**72.7**	**5,677**	**14.9**	**2,436**	**6.4**	**877**	**2.3**	**984**	**2.6**	**292**	**0.8**	**146**	**0.4**	**38,167**

23.11 Number of households receiving extension advice on Calf Rearing by region during the 2007/08 agriculture year

Region	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)	%	
Kibondo	6,535	94.6	373	5.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6,909
Kasulu	2,973	53.0	2,124	37.9	0	0.0	0	0.0	212	3.8	212	3.8	89	1.6	5,610
Kigoma Rural	2,778	82.8	0	0.0	0	0.0	0	0.0	439	13.1	0	0.0	140	4.2	3,356
Kigoma Urban	579	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	579
Total	**12,864**	**77.8**	**2,497**	**15.1**	**284**	**1.7**	**0**	**0.0**	**651**	**3.9**	**212**	**1.3**	**35**	**0.2**	**16,544**

23.12 Number of households receiving extension advice on Use of improved Bulls by region during the 2007/08 agriculture year

	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbour		Other		
Region	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Kibondo	3,361	94.7	187	5.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3,548
Kasulu	1,911	75.0	425	16.7	0	0.0	0	0.0	0	0.0	212	8.3	0	0.0	2,548
Kigoma Rural	1,316	50.0	1,023	38.9	0	0.0	0	0.0	292	11.1	0	0.0	0	0.0	2,631
Kigoma Urban	405	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	405
Total	6,993	**76.6**	1,635	**17.9**	**0**	**0.0**	**0**	**0.0**	292	**3.2**	212	**2.3**	**0**	**0.0**	**9,132**

23.13 Number of households receiving extension advice on Livestock Feeds processing by region during the 2007/08 agriculture year

	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbour		Other		
Region	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Kibondo	5,228	93.3	187	3.3	0	0.0	0	0.0	0	0.0	187	3.3	0	0.0	5,602
Kasulu	2,973	82.4	425	11.8	0	0.0	0	0.0	0	0.0	212	5.9	0	0.0	3,610
Kigoma Rural	439	75.0	0	0.0	0	0.0	0	0.0	146	25.0	0	0.0	0	0.0	585
Kigoma Urban	347	85.7	58	14.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	405
Total	8,987	**88.1**	669	**6.6**	**0**	**0.0**	**0**	**0.0**	146	**1.4**	399	**3.9**	**0**	**0.0**	**10,201**

FISH FARMING

24.1 Number of Agriculture Households Practising 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
Kibondo	0	0.0	75,620	100	75,620
Kasulu	212	0.2	85,792	100	86,004
Kigoma Rural	0	0.0	59,205	100	59,205
Kigoma Urban	0	0.0	4,341	100	4,341
Total	**212**	0.1	**224,958**	100	225,171

24.2 Number of Agriculture Households by System of Fish Farming and District during the 2007/08 Agriculture Year

District	System of fish farming			
	Natural Pond	Dug out Pond	Water Resevoir	Other
Kibondo	0	0	0	0
Kasulu	0	212	0	212
Kigoma Rural	0	0	0	0
Kigoma Urban	0	0	0	0
Total	**0**	**212**	**0**	**212**

24.3 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	Neighbour	Private Trader	Natural pond	Other	Total
Kibondo	0	0	0	0	0	0	0	0
Kasulu	0	0	212	0	0	0	0	212
Kigoma Rural	0	0	0	0	0	0	0	0
Kigoma Urban	0	0	0	0	0	0	0	0
Total	**0**	**0**	**212**	**0**	**0**	**0**	**0**	**212**

24.4 Number of Agriculture Households by Location of Selling Fish and District during the 2007/08 Agriculture Year

District	Where sold								
	Neighbour	Local Market	Secondary Market	Processing Industry	Large Scale Farm	Trader at Farm	Did not Sell	Other	Total
Kibondo	0	0	0	0	0	0	0	0	0
Kasulu	212	0	0	0	0	0	0	0	212
Kigoma Rural	0	0	0	0	0	0	0	0	0
Kigoma Urban	0	0	0	0	0	0	0	0	0
Total	**212**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**212**

24.5 Total Number of Fish Harvested, their weight and Quantity Sold by District during 2007/08 agriculture year

District	Fish Harvested				Fish Sold	
	Number of Fish	%	Quantity(Kg)	%	Quantity (Kg)	%
Kibondo	0	0	0	0	0	0
Kasulu	21,236	0	0	0	6,371	30
Kigoma Rural	0	0	0	0	0	0.0
Kigoma Urban	0	0	0	0	0	0.0
Total	**21,236**	**0**	**0**	**0**	**6,371**	**30.0**

24.6 Mean of Store of stoked Fish by Type and District during 2007/08 Agriculture Year

Type of Fish						
District	Mean Size of Pond (Sq .metre)	Tilapia	Milk Fish	Prawns/Crabs	Lulu	Total
Kibondo	0	0	0	0	0	0
Kasulu	374	240	0	0	0	240
Kigoma Rural	0	0	0	0	0	0
Kigoma Urban	0		0	0	0	0
Total	**374**	**240**	**0**	**0**	**0**	**240**

24.7 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	8	
Kibondo	0	0	0	0	0
Kasulu	212	0	0	0	212
Kigoma Rural	0	0	0	0	0
Kigoma Urban	0	0	0	0	0
Total	**212**	**0**	**0**	**0**	**212**

24.8 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	Others	
Kibondo	0	0	0	0	0
Kasulu	0	0	212	0	212
Kigoma Rural	0	0	0	0	0
Kigoma Urban	0	0	0	0	0
Total	**0**	**0**	**212**	**0**	**212**

BEE KEEPING

25.1 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	%
Kibondo	2,614	3	73,006	97	75,620	100
Kasulu	1,486	2	84,518	98	86,004	100
Kigoma Rural	146	0.2	59,059	99.8	59,205	100
Kigoma Urban	0		4,341	100	4,341	100
Total	**4,247**	**2**	**220,924**	**98.1**	**225,171**	**100**

25.2 Number of Agricultural Households By Honey production/Collection and District , 2007/08 Agricultural Year

District	Number of Agricultural Households that Poduced/Collected Honey			Number of Agricultural Households that did NOT Poduce/Collect Honey			Total		
	Stingless Bee	Sting Bee	Total	Stingless Bee	Sting Bee	Total	Stingless Bee	Sting Bee	Total
Kibondo	560	1,680	2,241	747	373	1,120	1,307	2,054	3,361
Kasulu	849	637	1,486	0	0	0	849	637	1,486
Kigoma Rural	0	146	146	0	0	0	0	146	146
Total	1,410	2,464	3,873	747	373	1,120	2,156	2,837	4,994

25.3 Number of Agricultural Households, type of bee Hives and type of bees and District , 2007/08 Agricultural Year

District	**Number of Improved Bee Hives**						**Number of Local Bee Hives**					
	Stingless Bee		Sting Bee		Total		Stingless Bee		Sting Bee		Total	
	No hhds	No Hives	No hhds	No Hives	No hhds	No Hives	No hhds	No Hives	No hhds	No Hives	No hhds	No Hives
Kibondo	1,307	0	2,054	187	3,361	187	1,307	17,738	2,054	49,667	3,361	67,405
Kasulu	849	0	637	0	1,486	0	849	7,645	637	7,220	1,486	14,865
Kigoma Rural	0	.	146	1,023	146	1,023	0	.	146	5,847	146	5,847
Total	**2,156**	**0**	**2,837**	**1,210**	**4,994**	**1,210**	**2,156**	**25,383**	**2,837**	**62,734**	**4,994**	**88,117**

25.4 Quantity of Honey Harvested and Sold by Size of Bees and District during the 2007/08 Agriculture Year

District	Stingless Bee				Bee				Total	
	Honey Harvested		Honey Sold		Honey Harvested		Honey Sold		Honey Sold	Honey Harvested
	Quantity (lts)	%	Quantity (lts)	%	Quantity (lts)	%	Quantity (lts)	%		
Kibondo	35,476	23	31,742	6	120,059	77	464,179	94	495,921	155,535
Kasulu	38,224	64	28,031	62	21,448	36	16,988	38	45,019	59,672
Kigoma Rural	.	0	.	0	73,092	100	65,783	100	65,783	73,092
Kigoma Urban	.	.	.	.	.	.	.	.	.	.
Total	**73,700**	26	**59,773**	**10**	**214,599**	**74**	**546,951**	**90**	**606,724**	**288,300**

25.5 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
Kibondo	1,340	1,283	1,301
Kasulu	1,325	667	1,043
Kigoma Rural	0	1,500	1,500
Kigoma Urban	.	.	.
Total	1,333	1,156	1,224

25.6 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	Trade at farm		Did not sell		Other		Total	
	Stingbee	Stingless Bee	Stingbee	Stingless Bee	Stingbee	Stingless Bee	Stingbee	Stingless Bee	Stingless Bee	Stingbee	Stingless Bee	Stingbee	Stingless Bee	Stingbee	Stingless Bee	Stingbee	Stingless Bee
Kibondo	747	1,494	373	187	.	.	.	.	.	.	.	187		.	.	2,054	934
Kasulu	849	425	0	0	.	.	.	.	.	.	.	212		.	.	637	849
Kigoma Rural	0	146	0	0	.	.	.	.	.	.	.	0	0		.	146	0
Kigoma Urban	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Total	**1,596**	**2,065**	**373**	**187**	**.**	**.**	**.**	**.**	**.**	**.**	**.**	**399**	**0**	**.**	**.**	**2,837**	**1,783**

Appendix III Questionnaire

United Republic of Tanzania

ACQ1 *CONFIDENTIAL*

Small holder/Small Scale Farmer questionnaire

Identification

Agricultural Sample Census 2007/2008

Enumerator Name ..... Signature .....

Date of Enumeration

d d / m m / y y y y

Start Time

End Time

Hour	Minutes

Field level checking by:

District Supervisor	Name	Signature	Date	/	/
Regional Supervisor	Name	Signature	Date	/	/
National Supervisor	Name	Signature	Date	/	/

To be filled by the supervisor ONLY after Field/farm level checking of the enumeration process. This should be countersigned by the Supervisor in front of the enumerator

Distric checking in Office

District Supervisor	Name	Signature	Date	/	/

All questionnaires must be checked at the district office.

For Use at Regional Level Only

Data entered by:	Name	Signature	Date	/	/
Queried	Name	Signature	Date	/	/

See the back page for details of queries

Ministry of Agriculture and Food Security, Ministry of Livestock and Fisheries Development, Ministry of Agriculture and Environment of Zanzibar, Ministry of Water and Irrigation, Prime Ministers' Office Regional Administration and Local Government, Ministry of Industry Trade and Marketing, National Bureau of Statistics, and the Office of the Government Statistician General of Revolution Governemnet of Zanzibar

Definition and working page for page 1

General Definitions

Who is a Smallholder /Small Scale farmer?
Should have one or more of the following: in the 2007/08 farming season had one or more cultivated and planted farms. The farm land may either be owned, rented, borrowed. The farmer may also be raising 1 and 50 head of cattle, and/or between 5 and 100 head of sheep/Goats/Pigs, and/or between 50 and 1000

Household: A group of people who occupy the whole of part one or more housing units and makes joint provision for food and/or other household items. Usually such a group comprises a husband, wife, and their children. Other relatives may be members of the household if they happen to live and get food provisions from the same household. People who live together and eat from the same pot may be considered as member s of the same household even if they stay in separate dwellings. An individual who lives and east alone is considered as an independent household.

Household Head: A person who is acknowledged by all other members of the household either by virtue of his age or standing in the household as the head. He/she should be a permanent resident of the house and he/she is the main person responsible for decision making regarding use of household resources..

Agricultural Holding: This is an economic unit of agricultural production under single management. This unit may have been grown various crops. For the purpose of the survey, the agricultural holdings are restricted to those which meet one of the following conditions:
- Having or operated at least 25 sq meter of arable land
- Own or keep at least one head of cattle or five goats/sheep/five pigs or fifty chicken/ducks/turkeys during the agricultural year 2007/08 (from October 2007 to September 2008).

Question Specific Definitions:

Type of Agriculture holding Codes (Q2.1):
Crops only: A holding is referred to be a crop only holding if it has cultivated at least one piece of land. This also applies to all households owning or have kept livestock whose number does not qualify such households to be an agricultural holding (No cattle, less than 5 goats/sheep/pigs, less than 50 chickens/turkeys/rabbits).

Livestock only: A holding is referred to be a livestock only holding if it has exercised livestock husbandry only during the 2007/08 agricultural year.

NOTE
For agricultural holding only and pastoralist holding only; the number of livestock should be at least one head of cattle, not less than five goats/sheep/pigs, not less than 50 chickens /turkeys /rabbits. This also applies to households having or operated less than 25 sq meter of cultivated land (which does not qualify the household to be considered as agricultural holding) but has the number of livestock that makes the holding qualifies to be considered as livestock holding.

Pastoralist holding: This refers to a household which practices livestock production as its major income generating activity and a means of subsistence, but moves from one place to another searching for water and pasture for the livestock. This movement usually involves long distances and in many cases the whole household unit moves with the livestock and they have no permanent place of residence.

Both crops and livestock: A holding is referred to be a both crops and livestock if it has cultivated a piece of land equal or exceeding 25 sq meter and if such households have own or kept livestock whose number qualify such household be considered as an agricultural holding.

Procedures for questions:

Q 2.1 Type of agriculture household/holding

Using the options under the question classify the type of agriculture household/holding

Note: If the household had an acre of crops and raised 40 chickens during 2007/08, it is classified as 'Crops only' as the number of chickens does not qualify the household as a livestock holding.

1.0 IDENTIFICATION DETAILS

Identification

1.1 **Location**

Na.	Location Name	Codes
1.1.1	Rgion ……	
1.1.2	District ……	
1.1.3	Ward ……	
1.1.4	Village ……	

1.2 Deatails of the respondent or household head

Na.		Codes
1.2.1	Name and number of local leader	
1.2.2	Name and number of household head ……	
1.2.3	**Sex of household head**	
1.2.4	Name of respondent ……	
1.2.5	**Relationship of Respondent to household head**	

Relationship to household head codes (Q 1.2.5)

Head of Household *……..1 Son /Daughter…….....3 Grandson/Granddaughter…….....5 No relationship…….7*
Spouse……..……..2 Father/Mother……...4 Other relatives……6

2.0 ACTIVITIES OF THE HOUSEHOLD

2.1	Typeof Agriculture Household	

Household agricultural activities codes(Q 2.1)

Crops only……....1 Livestock only ……...2 Pastoralist……3 Crops and Livestock ……...4

Definition and working page for page 2

Question Specific Definitions:

Relation to head (Col 2):
Household Head: A person who is acknowledged by all other members of the household either by virtue of their age or standing as the household head.

Read and Write (Col 8)
Any other language: Must be a written language.
For someone who can read and write in Kiswahili and any other language apart from English, the correct code is 1. For one who can read and write in English and any other language apart from Kiswahili the the correct code is 2. Code 4 should only be used for any other language which is not English or Kiswahili.

Education Level Reached (Col 10):
Ask the respondent the highest educational level reached. This aims at establishing whether at the time of enumeration the member of the household is studying has completed or has never studied. Make further enquiry for the level of education reached for those who have completed studies. Establish if the member had attained any training after graduation for the purposes for completing column number 9. For those who still continue attending studies during the period of this survey, establish their learning stage. For instance for a household member who studied up to Standard Three but did complete his/her education at this level, then his/her highest education level reached is Standard Two. For those indicated under code 3 (not studied) in column 8 should be marked code 99 (Not applicable) in column 9.

Section 3.0 Note

Make sure that you define the hh proper to ensure that all the members of the hh are included. Ensure that you stress that the hh is not just the hh heads direct family and that it includes other people living and eating together with the family.

If you notice that the hh is large or you see many people around the hh and you have been given a smaller number of the hh members, make further enquiries until you are sure that you have captured all the hh members.

Section 3.0 Household information.

ii) For each household member complete columns 1,2,3 and 3
After completing columns 1, 2, 3 and 3 for each household member, go back to the first household member and complete the remaining columns for that member.
iii) Repeat step 2 for the rest of the household members.

3.0 HOUSEHOLD INFORMATION Identification

3.1 Give details of personal particulars of all hh members beginning with hh head

Na.	Names of hh members (Start with hh Head)	Ex Start with hh Head	Sex M = 1 F = 2	Age (98 years or more enter 97, under one year old write 00)	Marital Status	Parental Survival		Not applicable for children under 5 years					
						Mother	Father	Reard and Write	Education status	Levek of education attained	On farm engagements	Main activity	Off farm income yes=1 no=2
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
01		1											
02													
03													
04													
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32													
33													

Relationship to household head (Col 2)

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

Marrital Status(Col 4)

Married.....…….…..1
Single.....…….…..2
Co-habiting 3
Divorced
Separated..... ……..…..4
Widow/widower...……..5

Survival of Parents(Col 6 & 7)

Yes.....1 No 2
Dont't know ...……..3

Ed.ucation Level(Col 9)

Studying ……..1
Has completed…….....2
Never been to school ..…3

Reading and writing (Col 8)

Kiswahili……..……..1
English …….....……2
Kiswahili and English…....3
Lugha nyingine…….....…...4
Canno tread or write.....….5

Education Level (Col 10)

Primary education	***Secondary Education***
Below Standard One.....00	*Form One.....11*
Standard One 01	*Form Two 12*
Standard Two.....02	*Fomr Three.....13*
S tandard Three.....03	*Form Four 14*
S tandard Four.....04	*Form Five 15*
S tandard Five.....05	*Form Six 16*
S tandard S ix 06	*Training after Seo.ondary Ed.....17*
S tandard Seven.....07	*University and other Tertiary Ed...8*
Daras S tandard E ight ..08	*Adult Education.....19*
Training after Primary Ed...09	*Not apllicable 99*
Pre Form One.....10	

Involvement in farming activitie (Col 11)

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

..... **Main activity (Col 12)**

Crop farming: ……..01.
Livestock farming/herding: ….02.
Pastoralist ……..03
Fishing ……..04
Fish farming ……..…….05
Paid employment / Government/parastal……06
Private/NGOs ……07
Self employee (Off- farm cativities)
- With employees ……...08
- Without employees ……..09

Non paid household member (off – farm activities) ……10.
Unemployed but available for work ….11
Unemployed but unavailable for work..12
House mother ……13
Student ……14
Unable to work too old, too young, retired, disabled,child 15
Others (specify) ……..…..*98*

Off-farm Income (Col 13)

These are income made from activities NOT on the HH's farming activites. This can be from formal employmenbt (e.g. in gpvrenment etc.), temporary jobs, casual labourers and income generation activity and includes working for cash on other people's farms.
Indicate whether each member was involved in an off farm income generating activity during 2007/08

Definitions and working page for page 3

Definitions for Key Specific Questions
Section 4.1 – Land Access/Ownership
These are areas that were used by the households for the 2007/08 farming season

Lease/Certificate of Ownership: Area under lease/certificate of ownership refers to the areas which were issued by the government. The household possesses government issued leasehold little or certificate of ownership. The land will normally be officially surveyed and boundaries marked. This includes leased land bought from others where the lease/certificate of ownership has been transferred.

Customary Law: This refers to the land which the household does not have an official government but its right of use is granted by the traditional leaders.
Bought: This refers to the areas of customary land that has been bought from others. This land does not have an official title and therefore is not leasehold.
Rented from others: Land rented from others for cash or for a fixed amount in crop produce (e.g. fixed number of bags at harvest).

Borrowed: use granted by land owner free of charge. Land owner can either be a lease holder or has right of access through customary law.
Share cropping: where the household is permitted to use land which is then paid for from a percentage of the harvested crop

Section 4.2 Land Use
Temporary crops: are sown and harvested during the same agricultural year
Permanent crops: are crops once sown or planted last for some years and need not to be replanted after each annual harvest.
Permanent crops /mixed crops: This is a mixture of permanent and seasonal crops. The two crops can either be randomly planted together or in a particular pattern e; for example intercropping (1 row of maize and 1 row of beans). A field that has been divided into plots for different crops is not mixed).
This is further subdivided into:
Mixture of Permanent crops – two or more permanent crops grown tougher
Mixture of Permanent and Temporary crops – permanent crop and annual crop together
Mixture of Temporary crops– two or more temporary, annual crops grown together
Pasture land: this is an area of owned/allocated land which is set aside for livestock grazing. It can be improved pasture where the farmer has planted grass, applied fertilized or where other means have been applied to improve the pasture. Or it can be natural pasture.
Natural Bush: Land which has naturally grown shrubs and trees and is considered productive but is not utilized for farming or livestock production.

Overview to section 4

Overview to section 4
Section 4.0: Preliminary note
Land Access/Ownership
Land access/ownership refers to the area utilized by the members of the household. This does not include communal land where the resources are shared between household members. It does not include official communal land that the household has sole access to for example a plot for crop farming in the communal area.

Procedures for questions

Section 4.0 – Land Ownership
1. Ask the respondent if he knows the total areas of land the household has sole access to. If he knows make a note in the calculation space
2 Ask the respondent the area of the different land ownership categories the household has sole access to (Q4.1, 1 to 4.1.7) and record in the appropriate spaces.
3. Add up the area of the different categories of land and compare it with the total area obtained in step 1 (if the respondent provided the information)
4. If the total area is different find out which one is correct and make

Section 4.2: Land Use
1. Ask the respondent the area of the different land use categories the household has sole access to (Q4.2.1 to 4.2.12) and record in the appropriate spaces.

2. Add up the area of the different categories of land and compare it with the total area obtained in section 4.0. The total area should be the same.

3. If the total area is different find out which one is correct and make amendments where appropriate.

4.0 LAND ACCESS/OWNERSHIP/TENURE Identification

4.1 LAND ACCESS/OWNERSHIP/TENURE

Give details on Area owned by the household during 2007/08 agricultural season.

	Give area as reported by the respondent in acres	Area in Acre		
			4.1.8	Was the whole household area used during the 2007/08 agricultural season? (Yes=1, No=2)
4.1.1	Area under certificate of ownership			
4.1.2	Area owned under customary law			
4.1.3	Area bought		4.1.9	Do you consider to have enough land for your household? (Yes=1, No=2)
4.1.4	Area rented from others			
4.1.5	Area borrowed from others			
4.1.6	Area share cropped from others		4.1.10	Is there any female who owns land or has customary rights to land ownership in this household? (Yes=1, No=2)
4.1.7	Area under other forms of tenure			
	Total area			

4.2 LAND USE

Area used by the household for various agricultural activities during 2007/08 agricultural season

	Enter area as reported by the respondent in acres	Area in acre	Working space for calculations
4.2.1	Area planted temporary monocrops		
4.2.2	Area planted temporary mixed crops (e.g. maize and beans)		
4.2.3	Area planted permanent moncrops		
4.2.4	Area planted permanent mixed crops (e.g. banana, coffee, trees)		
4.2.5	Area planted permanent and temporary mixed crops (e.g. maize and banana)		
4.2.6	Area under pasture		
4.2.7	Area under fallow		
4.2.8	Area under natural forest		
4.2.9	Area planted trees		
4.2.10	Area rented to others		
4.2.11	Area unsuitable for agricultrure		
4.2.12	Uncultivated arable land (minus area under fallow)		
	Total area		

Definitions and working page for page 4

Working table for the calculation area for annual mixed crops

Mixed crops 1	Crop Name	Total area of mixed (acre)	Area for plants (acre)	Total number of plants	Total area of plants (acre)
(a)	*(b)*	*(c)*	*(d)*	*(e)*	*(f)=(d)*(e)*
Permanent crop 1			0.000		0.00
Permanent crop 2			0.000		0.00
Permanent crop 3			0.000		0.00
Permanent crop 4			0.000		0.00
			Total area for permanent crops		0.00
Total Area for mixed crops			**The remaining area for temp crops**		

	% of temporary	Area for permanent crop
Name of the crop temp/permanent 1		
Name of the crop temp/permanent 2		
Name of the crop temp/permanent 3		
Check total area	Check total area for temporary crops	

Mixed crops	Name of plant	Total area mix (acre)	Area for the plant (acre)	Total of plants	Total area for plants (acre)
(a)	*(b)*	*(c)*	*(d)*	*(e)*	*(f)=(d)*(e)*
Permanent crop 1			0.000		0.00
Permanent crop 2			0.000		0.00
Permanent crop 3			0.000		0.00
Permanent crop 4			0.000		0.00
			Total area for permanent crops		0.00
Total area for mixed crops			**The remaining area for temp crops**		

	% of temporary	Area for temporary crop
Name of the crop temp/permanent 1		
Name of the crop temp/permanent 2		
Name of the crop temp/permanent 3		
Check total area	Check total area for temporary crops	

Planted Area: Area in acre the household was able to plant
Harvested Area: Area in acre the household was able to harvest a large portion of harvests. this is the same as the area planted minus the area that was destroyed by floods/ pets /

Temporary/Annual Crops
Crops planted and harvested within 12 months after which time the plants die . Most annual crops are planted and harvested on a seasonal base.

Cash crop codes:

Code	Crop
50	Cotton
51	Tobacco
53	Payrethrum
62	Jute
19	Seaweed

Crop Codes(Creal / Tubers/ Roots:

Code	Crop
11	Maizei
12	Paddy
13	Sorghum
14	Buirush Millet
15	Finger Millet
16	Wheat
17	Barley
22	Sweet Potatoes
23	Irish Potatyoes
24	Yams
25	Cocoyamsi
26	Onions
27	Gingeri

Vegetable Codes:

Code	Crop
86	Cabbage
87	Tomatoes
88	Spinach
89	Carrot
90	Chillies
91	Amaranths
92	Pumpkin
93	Cucumber
94	Egg plant
95	Water mellon
96	Cauliflower
06	Melllon
05	nyanyachungu
02	Ocra
03	Radish
01	Green Beans
04	Bizari

Crop Codes Legumes and Oil

Code	Crop
31	Beans
32	Cowpeas
33	Green Gram
34	Chick Peas
35	Dengu
36	Bambara nuts
37	Njegere
41	Sun flower
42	Simsim
43	Ground uts
47	Soya beans
48	Caster Seed

Instructions for calculating the area of mixed crops in a mixture

A. If the mixed crop is mixed annual ly only enter the total area of the field in the remaining area under temporary Crop and go to step one of these instructions.

B. If the mixed crop is mixed permanent and annual try to work tyhe percent age taken by the different crops and calculate the area of annual crops outlined in step 1. Otherwise use the number of trees method to calculate the area of annula crops in the mix.

C: Number of trees method to calculate annual crop areas in a permanent-annual crop mix.:

(i) List each of the permanent crop in collumn **b** and enter the ground area per acre for each permanent crop (from instrcutions for page 8) in colum d.

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

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

iv) To obatin the area for tempofrary crops , substract **(-)** the area fro permanent crops from thne total area of crop mix and enter the resulst in in the total area under temporary crops.

(v) Proceed to step 1 to calculate the area under each temporary crop.

1. Enter the name of each temporary crop in tyhe crop mix and estimate percentages of each crop**.**

2. Using the percentage for each crop, calculate the are for each crop from the remaining area under tenmporary crop.

3. After completing the exrcise for all the fields, sum the area of each crop in tyhe mix plus any monocrops and uenter the totals in section 5.1.1 Collumn 3.

4. Once the quantity harvested is obtained , cakIculate the yields (metric tonnes/acre) and compare the figures with the norms given in the crops code box. If there is significantly differentce, check the area and the amouint harvested..

5.0 PERMANENT AND TEMPORARY CROP PRODUCTION Identificatoion

5.1 ANNUAL CROPS AND VEGATBLE PRODUCTION-SHORT RAINY SEASON

Did your household palnted any crop duding short rainy season for 2007/08 agricultural year? Yes = 1, No = 2,(If the answer is yes proceed to Section 5.3)

5.1.1 Provide the following details for each crop planted during the short rainy season for 2007/08 agricultural year

Name of Crop	Planting: Crop code	Planting: Actual area plnated (acre)	Main crop owner: Enetr the number of the hh member from page 2 on informati on for hh members	Pembejeo: Use of Seeds: The type of seed plant ed	Use of seeds	Quantity: Quant ity	Quantity: Quantity used	Cost (Tshs)	Irriga ted area	Use of fertilisers (If 6 is the answer in col 11 proceed to col 16): Cultiv ated area	Typep of fertili sers used	Quantity of fertilisers: Meas urem ent	Quantity of fertilisers: Quantity used	Coist (Ths)	Use of chemicals agaisnt weeds (If 6 is the answer in col 11 proceed to col 20): Cultiv ated areaE neo lililot umik a	Qunaity of agrochemicals: Quant ity	Qunaity of agrochemicals: Quantity used	Cost
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
.....																		
.....																		
.....																		
.....																		
.....																		
.....																		
.....																		
.....																		
.....																		
Total area planted																		

Type of seeds planted (Col 5)
Local seeds ...1
Improved seeds.....2

Use of agricultural seeds (Col 6.)
For the whole crop.....1
3/4 of the whole crop.....2
1/2 of tyhe whole crop.....3
1/4 ofd the whole crop.....4
Under 1/4 of the whole crop...5

Qunatity (Col 7)
Kg 1
Seedlings....2
Gram.....3

Use of farm inputs (SCol10,11 & 16)
For the whole crop.....1
3/4 of the wholrecrop.....2
1/2 of tyhe whole crop.....3
1/4 ofd the whole crop.....4
Under 1/4 of the whole crop...5
Not used 6

Type of fertilsers (Col 12)
Organic fertiliser.....1
inorganic fertlisers.....2

Quantity (Col 17)
Kig 1
Litre.....2
Gram.....3
Millilitre.....6

Kipimo (S/wima 13)
Kilo 1
Lita.....2
Milli-lita..3

Main crop owner: (Col 4)
Enter number of hh member from page 2 on details on hh members in Q. 3

5.2 ANNUAL CROPS AND VEGATBLE PRODUCTION-LONG RAINY SEASON CONTINUED …

5.2.1 Provide the following details for each crop planted during the short rainy season for 2007/08 agricultural year

Identification

Name of crop	Crop code	Use of fungicides (If 6 is the answer in col 20 proceed to col 24)				Use of pesticides (If 6 is the answer in col 24 proceed to col 28)				Harvesting and Storage			Marketing		
		Area used	Size		Cost	Area used	Size		Cost	Quantity harvested (kg)	Quantity stored (kg)	Main storage methods	Quantity sold (kg)	Where was the crop mostly sold?	Main problems in crop marketing
			Quantity	Used			Quantity	Used							
(1)	(2)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)
……															
……															
……															
……															
……															
……															
……															
……															
……															

Use of farm inputs (Col 20&24)

For the whole crop.....1
3/4 of the wholrecrop.....2
1/2 of tyhe whole crop.....3
1/4 ofd the whole crop.....4
Under 1/4 of the whole crop...5
Not used 6

Quantity (Col 21&25)

Kig 1
Litre.....2
Gram.....3
Millilitre.....6

Main Storage mechanisms (Col 30)

Locall storage facilities.....1
Improved Local storage facilitiiies 2
Modern store.....3
Open drums/sacks.. 4
Cealed drums.....5
In heaps.....O.....6
not Stored.....7
Other means ()Specify.....8

Where the crop was sold(Col 32)

Neighbours.....01 Private Businessman.....08
Open markets. .....02 Contract farming.....09
Auctions.....03 Not sold.....10
Main Market.....04 Others 98
Cooperative Union….05
Farmers Association..06
Large Scale farm.....07

Marketing problems (Col 33)

Very low prices.....01 No problem 11
No transport.....02 Others (Specify 98
High transport costs.....03 Not applicable 99
Lack of crop buyers 04
Markets located far away ..05
Problems with farmers Associations 06
Probloems with cooperative Unions 7
Problems with Businessmen Association ...8
Strigent Government Conditions ...9

Definitions and working page for page 5

Storage (Col. 30, Q 5.1.1):
- **Traditionally Made strcutures:** The design of storage structures villagers have inherited from forefathers .
- **Improved Traditionally made structures:** The design of tradional storagesrutures improved through modern technology.

Marketing Challenges Q 5.1.1 Col. 33:

- **Farmers' Association:** Village farmers who came together and started an association for the puporses of purchasing inputs/selling/storage of crops aiiming at fetching better prices.
- **Cooperative Union:** A large inter-village/community set up in the district/ region or at national level for providing inputs, markets and storage of farmers' crops.
- **Government Regulatory laws for crops marketing:** Government instituted laws for regulating transportation and selling of crops.

Inputs (Q 5.1.1)

Farm Yard Manure: An organics fertliser made on farm from animal dung. .
Compost: An organic fertiliser made on farm from decomposed plant materials.
Insectcides: This is the chemical usde in protecting plants or killing pests.
Fungicides: Protects plants from fungi attack.
Herbicide: Chemicals used to control or kills weeds.
Improved seeds: Scientifically attested to be suitable for agricultural use.

Questions specific definitions

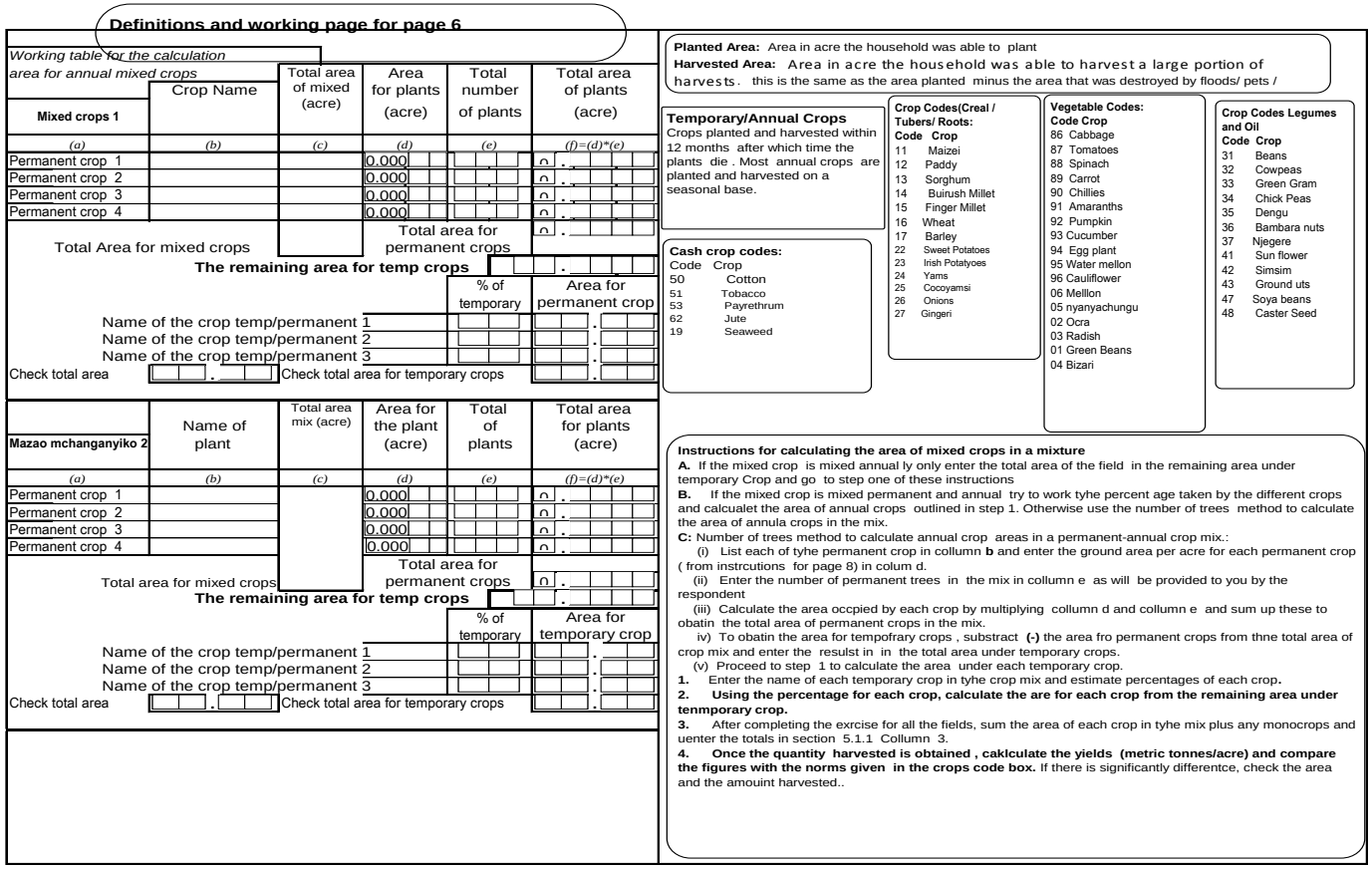
Q 5.1.1. Instructions on crops storage:
1. For the listed crops establish whether or not the household stored crops for 2007/2008 agricultural season.

2. For the listed crops give explanations on storage.

Crops storage is keeping/reserving crops in a container or a special place for future use.

Q 5.1.1 Col 31
1. For each of crops listed indicate major marketing problems for 2007/2008 agricultural season.

Working area/calculation space



Definitions and working page for page 6

Working table for the calculation area for annual mixed crops

Mixed crops 1	Crop Name	Total area of mixed (acre)	Area for plants (acre)	Total number of plants	Total area of plants (acre)
(a)	*(b)*	*(c)*	*(d)*	*(e)*	*(f)=(d)*(e)*
Permanent crop 1			0.000		0 .
Permanent crop 2			0.000		0 .
Permanent crop 3			0.000		0 .
Permanent crop 4			0.000		0 .
				Total area for permanent crops	0 .
Total Area for mixed crops					

The remaining area for temp crops .

	% of temporary	Area for permanent crop
Name of the crop temp/permanent 1		.
Name of the crop temp/permanent 2		.
Name of the crop temp/permanent 3		.
Check total area .	Check total area for temporary crops	.

Mazao mchanganyiko 2	Name of plant	Total area mix (acre)	Area for the plant (acre)	Total of plants	Total area for plants (acre)
(a)	*(b)*	*(c)*	*(d)*	*(e)*	*(f)=(d)*(e)*
Permanent crop 1			0.000		0 .
Permanent crop 2			0.000		0 .
Permanent crop 3			0.000		0 .
Permanent crop 4			0.000		0 .
				Total area for permanent crops	0 .
Total area for mixed crops					

The remaining area for temp crops .

	% of temporary	Area for temporary crop
Name of the crop temp/permanent 1		.
Name of the crop temp/permanent 2		.
Name of the crop temp/permanent 3		.
Check total area .	Check total area for temporary crops	.

Planted Area: Area in acre the household was able to plant
Harvested Area: Area in acre the household was able to harvest a large portion of harvests. this is the same as the area planted minus the area that was destroyed by floods/ pets /

Temporary/Annual Crops
Crops planted and harvested within 12 months after which time the plants die . Most annual crops are planted and harvested on a seasonal base.

Cash crop codes:

Code	Crop
50	Cotton
51	Tobacco
53	Payrethrum
62	Jute
19	Seaweed

Crop Codes(Creal / Tubers/ Roots:

Code	Crop
11	Maizei
12	Paddy
13	Sorghum
14	Buirush Millet
15	Finger Millet
16	Wheat
17	Barley
22	Sweet Potatoes
23	Irish Potatyoes
24	Yams
25	Cocoyamsi
26	Onions
27	Gingeri

Vegetable Codes:

Code	Crop
86	Cabbage
87	Tomatoes
88	Spinach
89	Carrot
90	Chillies
91	Amaranths
92	Pumpkin
93	Cucumber
94	Egg plant
95	Water mellon
96	Cauliflower
06	Melllon
05	nyanyachungu
02	Ocra
03	Radish
01	Green Beans
04	Bizari

Crop Codes Legumes and Oil

Code	Crop
31	Beans
32	Cowpeas
33	Green Gram
34	Chick Peas
35	Dengu
36	Bambara nuts
37	Njegere
41	Sun flower
42	Simsim
43	Ground uts
47	Soya beans
48	Caster Seed

Instructions for calculating the area of mixed crops in a mixture

A. If the mixed crop is mixed annual ly only enter the total area of the field in the remaining area under temporary Crop and go to step one of these instructions

B. If the mixed crop is mixed permanent and annual try to work tyhe percent age taken by the different crops and calcualet the area of annual crops outlined in step 1. Otherwise use the number of trees method to calculate the area of annula crops in the mix.

C: Number of trees method to calculate annual crop areas in a permanent-annual crop mix.:

(i) List each of tyhe permanent crop in collumn **b** and enter the ground area per acre for each permanent crop (from instrcutions for page 8) in colum d.

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

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

iv) To obatin the area for tempofrary crops , substract **(-)** the area fro permanent crops from thne total area of crop mix and enter the resulst in in the total area under temporary crops.

(v) Proceed to step 1 to calculate the area under each temporary crop.

1. Enter the name of each temporary crop in tyhe crop mix and estimate percentages of each crop**.**

2. Using the percentage for each crop, calculate the are for each crop from the remaining area under tenmporary crop.

3. After completing the exrcise for all the fields, sum the area of each crop in tyhe mix plus any monocrops and uenter the totals in section 5.1.1 Collumn 3.

4. Once the quantity harvested is obtained , caklculate the yields (metric tonnes/acre) and compare the figures with the norms given in the crops code box. If there is significantly differentce, check the area and the amouint harvested..

5.3 PERMANENT/PERENNIAL CROPS AND FRUIT TREE PRODUCTION

Identification

Does your household have any permanent/perennial crops or fruit trees Yes =1, No = 2, (If answer is NO proceed to Section 6.0)

5.3.1 Give details on permanent/perennial crops or fruit trees

		Production Section				Farm inputs									
		Monocrops	Mixed crops			Uses of seeds						Uses of Fertilisers (If 6 is the answer in col 13 proceed to col. 17)			
Name of permanent/perennial crop	crop code of permanent / perennial crop/fruit trees	Area for trees/seedling/branch/bushes	Are for mixed crops (Acre)	Number of Tplants/ trees in the crop mixh of permanent and perennial crop	Main crop owner: Enetr the number of the hh member from page 2 on information for hh	Type of planted seeds	Cultivated area	Size: Quantity	Size: Used	Cost (Ths)	Irrigation	Area used	The type of fertiliser used	Quantity of fertiliser (kg)	Cost (Ths)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
.....															
.....															
.....															
.....															
.....															
.....															
.....															
.....															
.....															

Type of seed planted (Col 7)
Local seeds.....1
Improved seeds.....2
Dont't know/ Not applicable...3

Main crop owner (Col 6):
nter the number of the hh member from page 2 on information for hh members in Q 3

Area cultivated (col. 8)
For the whole crop.....1
3/4 of the whole crop.....2
1/2 of tyhe whole crop.....3
1/4 ofd the whole crop.....4
Under 1/4 of the whole crop...

Qunatity (Col 9)
Kg 1
Seedlings....2
Gram.....3

Use of farm inputs (Col 12 & 13)
For the whole crop.....1
3/4 of the wholrecrop.....2
1/2 of tyhe whole crop.....3
1/4 ofd the whole crop.....4
Under 1/4 of the whole crop...5
Not used 6

Type of fertilsers (Col 14)
Organic fertiliser... 1

5.3 PERMANENT/PERENNIAL CROPS AND FRUIT TREE PRODUCTION CONTINUED …..

Identification

5.3.1 Give details on permanent/perennial crops or fruit trees during 2007/08 agricultural year

Name of crop	Crop code	Uses of weeds control chemical (If 6 is the naswer in col 17 Proceed to col 21)				Use of fungicides (If 6 is the answer in col 20 proceed to col 24)				Use of pesticides (If 6 is the answer in col 25 proceed to col 29)				Crop harvesting and storage					Marketing	
		Area used	Size		Cost	Area used	Size		Cost	Area used	Size		Cost	Harvested area (acre)	Quantity of mature plants	Quantity harvested (kg)	Quantity stored (kg)	Njia Kuu ya kuhifadhi	Quantity sold (kg)	Main marketing problem
			Quantity	Used			Quantity	Used			Quantity	Used								
(1)	(2)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)

Area used (Col 20&24)
For the whole crop.....1
3/4 of the wholrecrop..... 2
1/2 of tyhe whole crop..... 3
1/4 ofd the whole crop..... 4
Under 1/4 of the whole crop...5

Main Storage mechanisms (Col 33)
Locall storage facilities... 1
Improved Local storage facilitiiies 2
Modern store... 3
Open drums/sacks..... 4
Cealed drums.... 5
In heaps.....6
not Stored.....7
Other means ()Specify..... 8

Marketing problems (Col 35)
Very low prices.....01 No problem 11
No transport.....02 Others (Specify 98
High transport costs.....03 Not applicable 99
Lack of crop buyers 04
Markets located far away ..05
Problems with farmers Associations 06
Probloems with cooperative Unions 7
Problems with Businessmen Association ...8
Strigent Government Conditions ...9

Quantity (Col 18, 22, & 26)
Kig 1
Litre.....2
Gram... ...3
Millilitre... ...6

Definitions and working page for page 7

Storage (Col. 30, Q 5.2.1):
- **Traditionally Made strcutures:** The design of storage structures villagers have inherited from forefathers .
- **Improved Traditionally made structures:** The design of tradional storagesrutures improved through modern technology.

Marketing Challenges Q 5.2.1 Col. 33:

- **Farmers' Association:** Village farmers who came together and started an association for the puporses of purchasing inputs/selling/storage of crops aiiming at fetching better prices.
- **Cooperative Union:** A large inter-village/community set up in the district/ region or at national level for providing inputs, markets and storage of farmers' crops.
- **Government Regulatory laws for crops marketing:** Government instituted laws for regulating transportation and selling of crops.

Inputs (Q 5.2.1)

Farm Yard Manure: An organics fertliser made on farm from animal dung. .
Compost: An organic fertiliser made on farm from decomposed plant materials.
Insectcides: This is the chemical usde in protecting plants or killing pests.
Fungicides: Protects plants from fungi attack.
Herbicide: Chemicals used to control or kills weeds.
Improved seeds: Scientifically attested to be suitable for agricultural use.

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

Permanent Crops:
These are crops once planted last longer in the farm and need not be replanted after each annual harvest. Most of the permanent plants include tress such as coconut tress, apple trees, grape trees, banana trees, pineapple trees etc.

Number of Trees:
These include manure trees and premature trees.

Number of mature plants:
A total of fruit bearing tress (e.g. mango trees, orange trees, avocado trees e.t.c).

Instructions for permanent monocrops and crop mix:
A. For a field with permanent monocrop enter farm size in collumn. 3.
B. For a field with a permanent crop mix or a temporary crop mix, enter the number of trees only in collumn **4**.
C. For a field with a permanent crop mix /temporary annual crops , either:
-Enter the area in collumn 4, if the total arae for permanent crops was obatined through calcualtion of percentages of each crop
OR
Enter the number of tree in collumn 5, if the number of plants/ seedlings of permanent crops was excluded

21 Cassava: Cassava is a temporary crop, in order to simplify data collection on areas of production, data on cassava will be collected from areas under permanent crops.

Permanent crops:(crop oils)

Code	Crop	Area per crop
44	Palm Trees	0.00049
45	Coconut tree	0.00037
46	Cashew nut tress	0.00062

Permanent crops (Cash crops)

Code	Crop	Area per crop
53	Sisal	0.00012
54	Coffee	0.00049
55	Tea	0.00037
56	Cocoa	0.00049
57	Rubber	0.00099
58	Wattle	0.00099
59	Kapok	0.00124
60	Sugar-cane	0.00012
61	Cardamon	0.00049
63	Tamarin	0.00099
64	Cinarmon	0.00124
65	Nutmeg	0.00099
66	Clove	0.00074
18	Black pepper	0.00037
34	Pigeon Peas	0.00025
21	Cassava	0.00019
75	Pineapple	0.00006
86	Lemon Grass	

Permanent crops:

Code	Crop	Area per crop
70	Passion Fruit	0.00074
71	Bananas	0.00037
72	Avocado	0.00099
73	Mango	0.00099
74	Pawpaw	0.00037
76	Orange	0.00074
77	Grape fruit	0.00074
78	Grape	0.00012
79	Mandarin	0.00074
80	Guava .	0.00074
81	Plums	0.00074
82	Apples	0.00074
83	Peaches	0.00074
84	**Mifyoksi**	0.00074
85	Lime/lemon	0.00074
68	Pomelo	0.00099
69	Jack Fruit	0.00074
97	Durian	0.00074
98	Bilimbi	0.00074
99	Rambutan	0.00074
67	Bread Fruit	0.00099
38	Malay apple	0.00074
39	Star Fruit (Sakua)	0.00074

Definitions and working page for page 9

Storage (Col. 33, Q 5.3.1):
- **Traditionally Made strcutures:** The design of storage structures villagers have inherited from forefathers .
- **Improved Traditionally made structures:** The design of tradional storagesrutures improved through modern technology.

Marketing Challenges Q 5.3.1 Col. 35:

- **Farmers' Association:** Village farmers who came together and started an association for the puporses of purchasing inputs/selling/storage of crops aiiming at fetching better prices.
- **Cooperative Union:** A large inter-village/community set up in the district/ region or at national level for providing inputs, markets and storage of farmers' crops.
- **Government Regulatory laws for crops marketing:** Government instituted laws for regulating transportation and selling of crops.

Inputs (Q 5.3.1)

Farm Yard Manure: An organics fertliser made on farm from animal dung. .
Compost: An organic fertiliser made on farm from decomposed plant materials.
Insectcides: This is the chemical usde in protecting plants or killing pests.
Fungicides: Protects plants from fungi attack.
Herbicide: Chemicals used to control or kills weeds.
Improved seeds: Scientifically attested to be suitable for agricultural use.

Questions specific definitions

Q 5.3.1. Instructions on crops storage:
1. For the listed crops establish whether or not the household stored crops for 2007/2008 agricultural season.

2. For the listed crops give explanations on storage.

Q 5.3.1 Col 35
1. For each of crops listed indicate major marketing problems for 2007/2008 agricultural season.

Working area/calculation space

Definitions and working page for page 10

Investment in agriculture
Investment activities:
Investment activities refer to medium to long term farm development structures and projects. This can be irrigation structures, erosion conrol and water harvesting structures or other permanent or semi-permanent investment made on the land that the household owns.

Irrigated farming: Section 6.5:
Source of irrigation water (Col 1): The main source of the water used for irrigation.
Method of obtaining water (Col 2): The mechanism by which the water is extracted from the source
Irrigatable area (Col 3): The area the irrigation system is designed to cover in acrage
Area of irrigated land during the 2007/08 (Col 5): Area of land under irrigation during the 2007/08 agricultural year. This is the actual area nd NOT the cumulative areas recultivated in 2 or more cropping seasons.

Farm Implements (Col. 1):

Machette : Includea all implements use in tree cutting namely cicle, et.c.

Sprimkler: The pump carrued on the back or a hand used water pump
Hand used small tractor: A small tractor used in cultivation while the user walks on foot (see photo).

Section 6.2 Use of draft animals
Animals used in agricultural activities by the household during 2007/08 agricultural season.

Castrated Bulls: Castrated oxen meant for use in agricultural production.
Uncastrated Bulls: mature bulls used for garicultrural activities but are not castrated**.**
Cow: Farmers also use mature female cattle in agricultural activities due to shortage of bulls
Donkey: Mature Male or female donekys are also used for agricultural production.

Q 6.5 Irrigation.
1. If a household uses irrigated farming give explanations aon source and method of obatining water**.** .
2. **See Col** 10, Q. 5.1.1 and 5.2.1 and **Col** 12, Q 5.3.1 to see if irrigation was applied to any crop.

Farm implements, Q 6.1:
1. Collumn **2** Indicate whether or not inputs were used
2. Complete collumn 3 by entering the number of inputs used.

Farm inputs: Sections 6.3 and 6.4

1. Collumn **2** Indicate whether or not inputs were used.
2. Compelte collumn 3 by indicating where the inouts were obatined and collumn 4 by indicating the distance from where the inputs were obatined

Compost: An organic fertiliser made on farm from decomposed plant materials.
Insectcides: This is the chemical usde in protecting plants or killing pests.
Fungicides: Protects plants from fungi attack.
Herbicide: Chemicals used to control or kills weeds.
Improved seeds: Scientifically attested to be suitable for agricultural use.

Tractor tiller	
Tractor hallow	
Castrated bulls	
Uncastrated bulls	
Cows	
Donkeys	
Shredding Machine	
Power Tiller	
Oxen pulled plough for making terraces	

6.2.6	Power Tiller	

6.3 USE OF ORGANIC FERTILISERS

6.3.1 Give details on the use of organic fertlisers during 2007/08 agriculture year

	Type of fertiliser	Used Yes=1, No=2	Quantity	Quantity used	Area used (Acre)
	(1)	(2)	(3)	(4)	(5)
6.3.2	Manure				
6.3.3	Compost				

KQuantity (Col 3)
Kg……1
Ton……..2

ACCES TO INPUTS

Give details on inputs used during 2007/08 agricultural year

Name of inputs	Used (Yes=1, No=2)	Source	Distance
(1)	*(2)*	*(3)*	*(4)*
Inorganic fertilisers			
Farm yard manure			
Compost			
Insecticides/Fungicide			
Pest and weeds control chemicals			
Improved seeds			

Source (Col.3)
Government…..01
Cooperative Union…... ...02
Farm inputs store/market.....03
Auction.....04
Development project…….05
Corp buyers……..06
Large Scake farms…….07
Made by the household.....08
Form neighbour.....09
Cooperative Union…….10
Others ……..98
Not applicable.....99

Distance from the source (Cola 4)
Under 1 kilometre……1
Btween One and three kilometres 2
Btween three and 10 killometres3
Between 10 and 20 Kilometres 4
Over 20 Kilometres.....5
Not applicable.....9

IRRIGATED FARMING

Did the household use irrigated farming during 2007/08 agriculture year? Yes=1, No = 2

If the answer is yes proceed to Section 6.6

Na.	Main source of water for irrigation	Main source of obtaining water	Area that can be irrigated (Acre)	Area irrigated during 2007/08 agriculture year (Acre)
	(1)	*(2)*	*(3)*	*(4)*
6.5.2				

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

Means of obtaining water(C0l2)
Flwoing. (gravity)……1
Using a bucket……..2
Water pump (using hand or leg)……..3
Electric /fuel driven pump/ mafuta……4
Other (Specify)……..8

Definitions and working page for page 11

Q 6.6

The type of erosion contro/Water harvesting (Col 1)
Terraces: Structures constructed on mountain slopes to provide flat terrain for crop planting.

Erosion control bunds: these are bunks of earth/stones built perpendicular to the slope to slow dowm the speed of water and thus preventing soil erosion. Its differs from terraces in that the soils on these banks are not at ground level **.**

Gabions: A box like structure made of wire and filled with large stones to prevent gully errosion.

Sand bags: Are used in controlling and preventing gully errosion
Tree belt/wind breaks: Trees planted against the wind direction for breaking wind speed..

Section 7.0 Acces to credit for crop or livestock production
Credit refers to something provided in cash or in kind (such as farm inputs, machines, livestock and other things) for crop or livestock production. The value of the credit must be repaid back to the lender. An Interest may or may not be attached to the value of the credit
The credit may be repaid either in cash or through farm produce to be harvested **.**

In this question the enumerator is at liberty to inquire up to three sources of credit where the farmer accessed credit from more than one source.

Section 8.0 Agricultural Extension Services
Agricultural Extension Services: Refers to educational services provided to farmers by exetsion officers for the purposes of increasing crop and livestock production.

Share-cropping: Refers to farming where smallholder / Smallscale farmer enters into an agreement with large scale farmer where the former sells produce to the latter in exchange of provisions of farm inputs and the like. .

Contract farming Farming: Farming agreement entered between smallscale and large scale farmerswith regards to markets of farm produce and provision of farm inputs

Q 6.6 Number of water harvestin structures and year of construction

1. The number water haversting structures refers to the number of wokring / maintained structures and does not include derelict or iireparable structures.

2. Year of construction refers to the year in which the structures were built, and not the year the structures were last repaired.The year should be written in figures e.g. 1998, 2006.

Section 7.0 Source of agriculture credit
If tghe farmer obtained credit from more than one source the use the code from the list provided. Start with the main source of credit in Section **"7.1.1".a**

Section 8.0 Agricultural extension services

1. Ask if the household did receive agricultural extension services during 2007/08 agricultural season from the respondents listed in collumn 1, then enter column 2.

2. Complete all columns for every extension officer**.**

6.6 SOIL EROSION Identification

6.6.1 Did the household experience soil erosion during 2007/08 agriculture year? *(Yes=1,No=2)*

6.6.2 Did the household applied any methods for erosion contro/water harvesting during 2007/08 agricultural year? (Yes=1, No =2) (If the answer is No, Proceed to Section *7.0)*

Na.	Mechanisms of controlling erosion/ Water harvesting	Number of water harvesting	Year of construction
	(1)	*(2)*	*(3)*
6.6.3	Terraces		
6.6.4	Bunks for erosion control		
6.6.5	Gabions/sand bags		
6.6.6	Vetiva leaves		

	Type of erosion control/water harvesting	Number of water harvesting	Year of construction
	(1)	*(2)*	*(3)*
6.6.7	Tree belt		
6.6.8	Soil bunks of water harvesting		
6.6.9	Trenches		
6.6.10	Other		

7.0 ACCESS TO ON FARM CREDITS

7.1 Is there any household member who accessed on farm credit during 2007/08 agriculture year? Yes=1, No=2 (If answer is NO, Proceed to Section *7.2)*

SELECT UP TO THREE SOURCES AND PROCEED TO QUESTIONA 8.0

(Source of credit Q 7.1.1, 7.1.2, 7.1.3)
Relative..... 1 Saccos....4 NGO/Development projectsi.....7
Bank... .....2 Businеman/Shop.....5
Cooperative Union.....3 Priviate individuaks.....6 Other.....9

		7.1.1a	7.1.2a	7.1.3a
Source of credit				
Credit provided to		7.1.1b	7.1.2b	7.1.3b
	(Male=1, Female=2)			

7.2 IF THE ANSWER TO QUESTION 7.1 IS NO

Give reasons for not accessing credit

Reasons for not accessing credit (Q 7.2)COL
Not required .....1 Did not to be indebted.....3 Did nott know how to access credit.....5 Credit delayed.....7 Did not credit existed.....9
Not available .....2 High interest rates.....4 Bureaucracy.....6 Other (Specify).....8

8.0 ADVISORY SERVICES IN AGRICULTURE

8.1 Did the household participate in outgrowers scheme during 2007/08 agriculture year? (Yes=1, No=2)

8.2 Did the household participate in the contract farming during 2007/08 agriculture year? (Yes=1, No=2)

8.3 Did your household receive agricultural advise on the following : *(IF THE ANSWER IS NO IN COL 2 PROCEED TO THE FOLLOWING QUESTION*

Na.	Advise on agriculture	Rceived advice (Yes=1, No=2)	Source of advise
	(1)	(2)	(3)
8.3.1	Spacing		
8.3.2	Use of agrochemicals		
8.3.3	Soil erosion control		
8.3.4	Use of organic manure		
8.3.5	Matumizi ya mbolea za viwandani		
8.3.6	Use of improved seeds		
8.3.7	Use of modern farm implements		
8.3.8	Irrigation		
8.3.9	Crop Storage		
8.3.10	Pest control		
8.3.11	Other (Specify)		

Source of agricultural advice (Cokl. 3)
Government.....1 NGO/Development project.....2 Cooperative....3 Large Scale farmer....4 Ratdio/Newspapers....5 Neighbour .....6 Other source.....8

Definitions and working page for page 12

Q 9.1 and 9.3 : What is required is to establish whether or not the household kept or raised the listed livetsock during 2007/08 agricultural season (i.e. from October 2007 to September 2008). Also to establish the number of livestock as of 1st October 2008

Keeping or raising livestock is to to keep livestock at home while providing the livestock with animal feeds and medication and other services. The livestock could be owned by the farmer or kept on behalf of relatives or neighbours .

Sections 9.1.1 to 9.1.7 Cattle

Note:
Q 9.1 is for the actual number of cattle owned or kept by the household (as of 1st October 2008). This number does not include herds of cattle kept on behalf by relatives or neighbours; that is, the cattle outside the residential area of the household under survey.
1. If the the household keep mature fecund female cattle, it is expected that such a household will have calves which will be entered in question 9.1.6 or 9.1.7

Type of cattle (sectioin 9.1.1 to 9.1.7)

Bull: Mature uncastrated made cattle used for breeding
Cow: Mature female cattle that has given birth at least once

Ox: Castrated made cattle used for farm work

Steer: Castrated made cattle used for meat

Heifer: Female cattle of 1 year up to the first calving

Section 9.3 Goat
Note:
Question 9.3 is for the actual number of owned or raised by the household (as of 1st October 2008) This number does not include goats kept on behalf by relatives or neighbours, that is the goat outside the residential area of the household under survey.

1. If the household has she goats, you would normally expect them to have kids

Type of Goat (Qs 9.3.1 to 9.3.5)

Billy Goat (he-goat): Mature Uncastrated male goat used for breeding
Castrated goat: Male goat that has been castrated
She Goat: Mature female goat over 9 months of age

9.0 LIVESTOCK (LIVESTOCK AND FISH)

9.1 CATTLE Identification

Did your household keep or raise cattle during 2007/08 agriculture year? Yes=1, No= 2 (If the answer is No proceed to Section 9.3)

Number of cattle as of 1.10.2008

No.	Type of cattle	Number of indigenous cattle	Number of improved cattle		Total
			for meat	Dairy	
		(2)	(3)	(4)	(5)
9.1.1	Castrated bulls				
9.1.2	uncastrated bulls				
9.1.3	Cows				
9.1.4	Steers				
9.1.5	Heifer				
9.1.6	Male calves				
9.1.7	Female calves				
				Grand total	

9.1.8 What main methods do you use to identify your cattle?

Cattle idenfificatio methods
Iron stamp (chapa moto)……..1 Throat….2 Ear/tail cutting…..3
Colour……..4 Earings…5 Other ……..8

9.2 Milk production: CATTLE

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				
9.2.2		Indigenous				
9.2.3	Dry	Improved				
9.2.4		Indigenous				

9.3 GOAT

Did your household keep or raise cattle during 2007/08 agriculture year? Yes=1, No= 2 (If the answer is No proceed to Section 9.3)

Number of goats as of 1.10.2008

Na.	Tyep of goat	Number of indigenous goat	Number of improved		Total
			for meat	Dairy	
	(1)	(2)	(3)	(4)	(5)
9.3.1	Male uncastrated goat				
9.3.2	Male castrated goat				
9.3.3	She goat				
9.3.4	Male kid				
9.3.5	She kid				
				Grand total	

Milk Production: GOAT

Na.	Season	Number of ilked 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				
9.3.7	Dry				

Definitions and working page for page 13

Q 9.1 and 9.3 : What is required is to establish whether or not the household kept or raised the listed livetsock during 2007/08 agricultural season (i.e. from October 2007 to September 2008). Also to establish the number of livestock as of 1st October 2008

Keeping or raising livestock is to to keep livestock at home while providing the livestock with animal feeds and medication and other services. The livestock could be owned by the farmer or kept on behalf of relatives or neighbours .

Sections 9.4 Sheep

Note:
Q 9.4 is for the actual number of sheep owned or kept by the household (as of 1st October 2008). This number does not include sheep kept on behalf by relatives or neighbours; that is, the sheep outside the residential area of the household under survey.

1. If the the household keep ewes, it is expected that such a household will have calves which will be entered in question 9.1.6 or 9.1.7

Type of Sheepe (Sectioin 9.4.1 to 9.4.5)

Ram: Mature Uncastrated male sheept used for breeding

Castrated sheep: Male sheep that has been castrated

Ewe: Mature female sheep over 9 months of age

Lamb: Young sheep under 9 months of age.

Section 9.5 Pigs
Note:
Question 9.3 is for the actual number of pigs owned or raised by the household (as of 1st October 2008). This number does not include pigs kept on behalf by relatives or neighbours, that is the cattle outside the residential area of the household under survey. .

1. If the household has she goats, you would normally expect them to have kids in column

Type of Pigs (Qs 9.5.1 to 9.5.5)

Boar: Mature Uncastrated male pig used for breeing
Sow: Mature female pig that has given birth to at least one ltter of pigs.
Gilt; Female pig of over 3 months up to the first farrowing
Piglet: Young pig less than 3 months of age

Identification

9.4 SHEEP

Did your household keep or raise cattle during 2007/08 agriculture year? Yes=1, No 2 (If the answer is No proceed to Section 9.5)

Number of sheep as of 1.10.2008

Na.	Type of sheep	Number of indigenous sheep	Number of improved	Total
	(1)	(2)	(3)	(5)
9.4.1	Ram			
9.4.2	Castrated sheep			
9.4.3	She sheep			
9.4.4	Male lamb			
9.4.5	Female lamb			
	Grand total			

9.5 PIGS

Did your household keep or raise cattle during 2007/08 agriculture year? Yes=1, No= 2 (If the answer is No proceed to Section 9.6)

Number of pigsp as of 1.10.2008

Na.	Type Pigs	Number of pigs
	(1)	(2)
9.5.1	Boar	
9.5.2	Castrated male	
9.5.3	Sow/Gilt	
9.5.4	Male piglet	
9.5.5	Female piglet	
	Grand total	

9.6 OTHER LIVESTOCK

	Type of animal	Number as of 1 October 2008	Number of eggs 2007/08 agriculture year
	(1)	(2)	(3)
9.6.1	Local chicken		
9.6.2	Layers		
9.6.3	Broilers		
9.6.4	Ducks		
9.6.5	Guinea pigs		

	Type of animal	Number as of 1 October 2008	Number of Eggs 2007/08 agriculture year
	1	(2)	(3)
9.6.6	Turkeys		
9.6.7	Rabbit		
9.6.8	Donkeys		
9.6.9	Horses		
9.6.10	Dogs		

Definitions and working page for page 14

Control of livestock dieases causing bugs

Livestock worm control medicine: Medicine used to kill or control livestock on livestock . It is often used for cattle, goats, sheep and pigs.

Tiick: Is a dangerous bug that sucks blood form livestock and transmits animals diseases from one to the other animal.

Tse tse fly: A fly like bug that sucks blood from livetsock and transmits diseases sleewping sickness from one to the other animal.

Livestock advice (Section 9.8)
IA service provided by extension officers to livestock keepers for increasing livestock production.

9.7	**LIVESTOCK DISEASES AND PEST CONTROL**		Identificatio
	Did you livestock during 2007/08 agriculture year? (Yes=1, No=2) (If the answer is No proceed to Section 9.7.5		
9.7.1	Which animals did your deworm? (Yes=1,No =2, Not applicable=3 in the relevant box) Cattle **9.7.2** Goat/Sheep **9.7.3** Pigs **9.7.4** Poutry		
9.7.5	Do you experience tick problem with your livestock? (Yes =1, No = 2, Not applicable 3)		
9.7.6	How did you control tick problem? *Control method (Q. 9.7.6): Dipping……1 Spaying……..2 Application of medicine on back bone……..3 None..4 ..... Other……8*		
9.7.7	Do you experience Tse tse problem with your livestock? (Yes =1, No = 2, Not applicable 3)		
9.7.8	How did you control Tse tse problem with your livestock? *Control method (Q. 9.7.8): Dipping……1 Spaying……..2 Traps……..3 None..4 ..... Other……8*		
9.7.9 9.7.7	Do you experience Newcastle disease problem with your poutry? (Yes =1, No = 2, Not applicable 3)		
9.7.10	How do you control Newcastle disease problem with your poutry? *Control/Curative methods (Q. 9.7.10) Vaccination..1 Herbs….2 None..3*		
9.7.11	Did you experience Fowl Typhoid with your poutry?Yes=1, No=2 , Not applicanblei=3		
9.7.12	How did you cotrol/ cure Fowl Typhoid with your poutry? *Contro/curative methods(Swali 9.7.12 Vaccination..1 Herbs….2 Noe.3*		
9.7.13	Were your cattle vaccinated agaionst the following diseases? (Yes = 1, No = 2, Not applicable=3). **9.7.13 A:** Foot and Mouth diseases **9.7.13B:** Skin disease		

NOTE : If answers to Qs *9.1 to 9.6 is No (THAIS THE HOUSEHOUSE DOES NOT RAISE LIVESTOCK,) Proceed to q 9.9*

9.8 Extenmsion services on livestock

Did you receive the following extension advice on the followingJe? *(IF THE ANSWER IS NO IN COL 2 PROCEED TO THE FOLLOWING QUESTION*

Na.	**Livestock extension advice**	Received Extension advice (Yes=1, No=2)	Soure of Extension
	(1)	(2)	(3)
9.8.1	Feed and better feeding methods		
9.8.2	Improved livestock shed (Goat, Dairy cattle, Poutry and pigs)		
9.8.3	Milking and hygiene		
9.8.4	Cattle fattening		
9.8.5	Livetsock diseases control		
9.8.6	Livestock keeping in line with land availability		
9.8.7	Pasture establsihment and maintanence		
9.8.8	Forming and strengthening groups/cooperatives		
9.8.9	Calf rearing		
9.8.10	Basics of production and use of improved bulls (AI)		
9.8.11	Animals feed production		
9.8.12	Other extension advice (Specify) ……		

Source of agriculture extesnion(S/wima 3)
SGovernment……1 NGO/Development project…..2 Cooperative Union….3 Large Scale farmer….4 Radio/TV/Newspapere.5 Neighbour……6 Other source …..8

Definitions and working page for page 15

General definitions

Fish farming: Refers to the rearing/production of fish. It is different from fishing in that in fish farming the fish have to be reared. While in fishing, fishing nets or traps are used to catch fish from rivers, lakes and the sea; thus fishing should not be included in this section

I

Question Specific Definitions (Q 9.9)

Production unit number (Col 1): A production unit is a pond river/lake which is treated as a separate entity for the production of fish eg it may be by virtue of manageable size, maturity of fish, tye of fish etc. eg. a farmer may have 3 fish ponds (each one is a separate production unit).

Frequency of stocking (Col . 5): What is the number of time the farmer puts new fingerlings into the pond each year.

Fingerlings: These are young immature fish used for stocking ponds.

Sols: (Col 10 & 11)

If no fish were sold enter "0" in column 10 and 11`

Fish sold (Col.12)

Kama hakuna samaki waliouzwa jaza "0" katika safuwima 12

Working space for page 15

9.9 FISH FARMING Identification

Did your household practice fish farming? Yes=1, No=2 (*If the answer is no proceed to section 9.10)*

Give details on the fish farming during 2007/08 agriculture year

No.	Number of Ponds	Jina ya ufugaji	Square area of pond (m^2)	Source of fingerings	What is the frequency of stocking during the period?	Kiwango cha Huduma ya bwawa	Total number of stoked fish: Tialpia	Mwatiko	Crabs	Lulu	Total number of fish harvested	Total weight of all fish: waliovuliwa (kg)	waliouzwa (kg)	What is the main fish outlet?
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
9.9.1	1													
9.9.2	2													
9.9.3	3													

Type of farming (SCol 2)
Natural pond……1
Small earth pond…….2
Large pond……3
Other ……8

Standard of servives to the pond (Col6)
High leve ……1
Intermediate level……2
Low leve..……3
Don't know……8

Source of fingerings(Col 4)
From the pond……1 Neighbour…….4
Government……..2 Business man…..5
NGO/Development Project…3 Natural Pond……..6
Other ……8

mainly sold to? (Col 14)
Neighbour…1 Auction……...3 Large Scale farmers……..5
Open market….2 Fish processing industry..4 Private business people ….6
Did not sell…….7 Other ……..8

9.10 HONEY PRODUCTION

Is there honey production/harvesting in your household? Yes=1, No=2 (If answer is no PROCEED to Section 9.11)

Give details on honery harvesting during 2007/08 agriculture year

Number	Type of honey	Harvesting done ? (Yes=1, No=2)	Number of improved bee hives	Number of local bee hives	Amount sold per year (Litre)	Amount of honey sold (litre)	Price per litre	Main market)
	(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*	*(7)*	(8)
9.10.1	Small bees							
9.10.2	Large bees							

Honey outlet Co 8
Neighbour…1 Auction……...3
Large Scale farmers……..5
Open market….2 Fish processing industry..4
Private business people ….6
Did not sell…….7

9.11 AGRICULURAL CHALLENGES

From the list of cahhalengs in farming on the right of the page, SELECT FIVE MAIN CHALLENGES WHICH constrain your development in agriculture

No	With first five priorities	Code
	(1)	(2)
9.11.1	Priority 1	
9.11.2	Priority 2	
9.11.3	Priority 3	

No	Important for	Code
	(1)	(2)
9.11.4	Priority 4	
9.11.5	Prioty 5	

LIST OF CHALLENGES

01 Land availability
02 Land owenership
03 Poor farm implementso
04 Soil fertility
05 Availability of imrpoved seeds
06 Irrigation services
07 Availability of agrochemicals
08 Cists of farm inputs
09 Extension services
10 Availability of forest resources
11 Huntinf and collection problems
12 Water availability
13 Access to credits
14 Lack of off farm incomes
15 Harvesting problems
16 Kupukuchua
17 Crop stiorage
18 Crop processing
19 Market information
20 High transporation costs
21 Destructive animals
22 Crop thefty
23 Pests and diseases
24 Advice from Local government
25 Long dry spells
26 Conflicts between livetsock keepera and pastoralists

Definitions and working page for page 16

10.0 Household poverty indicators

Number of rooms used for sleeping in the household (Q 10.1.4)
Include sitting room, during room, kitchen, etc if used for sleeping.

It also includes rooms outside the main dwelling

A room is defined as a space which is separate from the rest of the building by a permanent wall or division. A building / house that is not divided into rooms is considered to have one room.

Household assets (Q 10.2):
There assets must be functionin. Do not include if broken.

Access to drinking water (Q 10.4):
If there is more than one source use the one, which the hh uses most frequently.

Main source of hh cash income:(Q 10.7:
Activity that provides the hh with the most can during 2007/08 agricultural season.

10.0 POVERTY INDICATORS

Idetification

10.1 HOUSE CONSTRUCTION
Specify materials used in the construction of the following
sehemu zifuatazo

10.1.1 Roof **10.1.2** Floor **10.1.3 Wall**

Roofing materials
Iron sheets……..1
Tiles……..2
Concrete……3
Asbestos ….4
GrassiMakuti……..5
Grass and mud….6
Other …….. .8

Floor matrials
Earthen material……..1
Wood……..2
Wooden tiles…3
Tiles……..4
Cement……5
Other……..8

Main materials
Grass and pieces of woods……..1 Mud…….2
Wet bricks…….3 Burnt bricks…4
Wood……..5 Block bricks……6
Stonese ……..7 Bricks /Mawe ya kichanga……..8

10.1.4 Number of bedrooms

10.2 Household property
Does your houshold woen the following?, (Yeso=1 No =2)

Number	Property	Yes=1, No=2
	(1)	(2)
10.2.1	Radio (Radio, Radio Casette, music system)	
10.2.2	Land line	
10.2.3	Celkl phone	
10.2.4	Iron	
10.2.5	Trolley	
10.2.6	Bycicle	
10.2.7	Vehicle	
10.2.8	TV/ Video	
10.2.9	Refrigerator	
10.2.10	Motorbike/vespa	

10.3 Energy use and availability in the hsousehold

Main source of energy

10.3.1 Lightining 10.3.2 Cooking

Nishati za Kuangazia
Umeme……..01
Sola……..02
Gesi (biogas) ……03
Taa ya kandili……04
Karabai……05
Kibatari……06
Mishumaa……07
kuni……08
Nyingine …….. 98

Nishati za kupikia
Umeme……..01
Sola……..02
Gesi (biogas) ……03
Gesi (Kiwandani)…..04
Mafuta ya taa……05
Mkaa……06
Kuni ……07
Mabaki ya Mazao….08
Kinyesi cha
Wanyama……09
Nyingine ……98

10.4 Availability of drinking water

	Season	Main source of water	Distance from source (km)	Time spent waitingor going to and from the source (Hours)
	(1)	*(2)*	*(3)*	*(4)*
10.4.1	Rainy		•	•
10.4.2	Dry period		•	•

Main sourece of drinking water
Col. 2
Tape water……..01 Water venders……..09
Arificial well……..02 Boozer……10
Arificial spring… ……..03 Bottled water……11
Openwell……04 Other (Specify)……98
Natural spring……..05
Lake water,piond,river,stream n etc……..06
Covered Rain water harvesting well..07

Note: *Code01,* ***Bomba*** *kwa Zanzibar hujulikana kama Mfereji*

10.5 Toilet facilities

10.5.1 What type of toilet does your hosuehold use?

Tyep of toilet
No toilet/in the buish……1 Pit latrine…..4
Flash toilet……..2 Other type (Specify)……..8
Ordinal pit latrine……3

10.6 Eating patterns

10.6.1	**How many meals does your hosue usually get per day** ?	
10.6.2	How days did the household eat meat last week?	
10.6.3	How days did the household eat fish last week?	
10.6.4	How many times did the household experience food shortages last year?	

Food shortage problems
(Swali 10.6.4)
Never ……..1
Few times……..2
Sometimes……..3
Many times……4
Often……..5

10.7 Main source of household cash income?

10.7.1 What are the sources of household income?

Code for source of income
Selling food crops……..01 Sales of foerst products..05 Cash assisnatce…09
Sales of livestock……..02 Business……06 Fishingl……10
Sales of livestock products……03 Salaries……07 Other……98
Sales of cash crops…04 Casual labour……08 None……99

TIME OF FINISHING THE INTERVIEW Hour Minutes

Average/maximum yields per area

Use this table to compare the yields calculated in Sections 5.1, 5.2 and 5.3.

These stats are strictly to be used used as a guide for the purpose of assisting to get the correct area and yields for each crop.

	Name of Crop	Kilogram/ha		Kilogram/acre			Name of Crop	Kilogram/ha		Kilogram/acre	
		Average	Max	Average	Max			Average	Max	Average	Max
11	Maize	1,150	6,250	466	2,530	86	Cabbage	20,000	50,000	8,097	20,243
12	Paddy	700	4,000	283	1,619	87	Tomatoes	25,000	60,000	10,121	24,291
13	Sorghum	750	3,500	304	1,417	88	Spinach	15,000	17,000	6,073	6,883
14	Bulrush Millet	350	3,000	142	1,215	89	Carrot	25,000	30,000	10,121	12,146
15	Funger Millet	300	2,500	121	1,012	90	Pepper	3,500		1,417	0
16	Wheat	1,150	4,500	466	1,822	91	Amaranthus	20,000	40,000	8,097	16,194
17	Barley	1,400	1,800	567	729	92	Pumpkin	35,000	40,000	14,170	16,194
16	Cassava	3,000	7,000	1,215	2,834	93	Cucumber	5,000	10,000	2,024	4,049
17	Sweet potatoes	600	8,000	243	3,239	94	Egg plant	30,000	60,000	12,146	24,291
18	Irish potatoes	750	8,500	304	3,441	95	Water melon	10,000	20,000	4,049	8,097
19	Yams	4,000	10,000	466	1,822	96	Caouliflower	17,000	20,000	8,097	16,194
25	Coco yams	2,500	5,000	567	729	52	Cotton	800	25,000	14,170	16,194
26	Onions	30,000	50,000	1,215	2,834	54	Coffee	500	100	2,024	4,049
27	Ginger	20,000	30,000	243	3,239	55	Tea	2,500	10,000	12,146	24,291
31	Mahara Beans	400	1,300	304	3,441	56	Cocoa	150	1,000	4,049	8,097
32	Cow peas	300	1,750	121	709	57	Rubber	400	1,400	6,883	8,097
33	Green gram	1,500	1,800	1,012	2,024	58	Wattle			324	10,121
34	Pigeon peas	600	1,500	243	607	59	Kapok			0	0
35	Chick peas	500	1,500	202	607	60	Sugar cane	60,000	150,000	24,291	60,729
36	Bambara nuts	600	4,000	243	1,619	61	Cardamon	3,000		1,215	0
41	Sun flower	600	1,700	243	688	71	Banana	10,000	50,000	4,049	20,243
42	Simsim	300	1,000	121	405	72	Avocado			0	0
43	Gound nuts	600	4,000	243	1,619	73	Mango	10,000	25,000	4,049	10,121
47	Soyabeans	1,300	2,500	526	1,012	74	Pawpaw	50,000	70,000	20,243	28,340
48	Caster seeds	300	750	121	304	76	Orrage	15,000	40,000	6,073	16,194
75	Pineapple	25,000	60,000	10,121	24,291	77	Grape fruit	30,000	50,000	12,146	20,243
50	Cotton	300	1,500	121	607	78	Grapes	5,000	30,000	2,024	12,146
51	Tobacco	500	1,500	202	607	79	Mandarin	15,000	40,000	6,073	16,194
53	Pyrethrum			0	0	80	Quava	7,000	35,000	2,834	14,170
62	Jute	800	3,500	324	1,417	81	Plums			0	0
44	Palm oil	1,150	5,000	466	2,024	82	Tufaha		20,000	0	8,097
45	Cononut	1,500	8,000	607	3,239	83	Pea	15,000	27,000	6,073	10,931
46	Cashw nut	9	60/tree	4	24	84	Pitches	14,000	57,000	5,668	23,077
						66	Clove	4,500	5,000	1,772	1,969
							Black pepper	2,000	3,750		
							Mung'unye				
							Ocra	1,000	1,500		

Appendix V

Community Level Questionnaire

United Republic of Tanzania

ACQ 3 *CONFIDENTIAL*

Village/Community Level Formats

Access to and Use of Community Resources

Farmg Gate Prices of commodoties produced by the village

Agricultural Sample Census 2007/2008

NUMBER OF FARMERS HH IN THE VIALLAGE
To be filled by the enumerator after completeing form ACLF2

NUMBER OF HH MEMBERS
To be filled by the enumerator after completeing form ACLF2

Region	.....	Ward	
District	.....	Village	

Enumerator Name ..... Signature .....

Date of Enumeration

d d / m m / y y y y

m

Start Time

End Time

Hour	Minutes

Field level checking by:

District Supervisor	Name	Signature	Date / /
Regional Supervisor	Name	Signature	Date / /
National Supervisor	Name	Signature	Date / /

I To be filled by the supervisor ONLY after Field/farm level checking of the enumeration process. This should be countersigned by the Supervisor in front of the enumerator

Distric checking in Office

District Supervisor	Name	Signature	Date / /

All questionnaires must be checked at the district office.

For Use at Regional Level Only

Data entered by:	Name	Signature	Date / /
Queried	Name	Signature	Date / /

See the back page for details of queries

Ministry of Agriculturte and Food Security, Ministry of Livestock and Fisheries Development, Ministry of Agriculture and Environment of Zanzibar, Ministry of Water and Irrigation, Prime Ministers' Office Regional Adminstration and Local Government, Ministry of Industry Trade and Marketing, National Bureau of Statistics, and the Office of the Government Statistician General of Revolution Governemnet of Zanzibar

Definitions and working page for page 3

Question Specific Definitions:

Obtain answers to the following questions from the meeting between the enumerator and influencial farmers in the village Infuencial people can be Village Chairman, Village Governement Executive Officer, Councillor, Ward Chairman, Extension Officer in the village or any other person in the village and who is well informed about village matters. It is important to not that these questions must be asked in groups (of more than one people) to obtain answers discussed and approved by many people.

Definitions of some specific terms

Access to community resources. Section 1.0
Community Resources: Resources in which the hh members have no individual claim to and which are shared together by all the village
Community Land: The area officiall demarcated by the village as shared/public land.
Squatting farmers Land: Communal land where individual hhs make sole claim to (for crop farming or fenced livestock) without official rights to ownership.
Available remaining Land: Official area of communal land minus areas of squatting farners.
Givernment Land Reserve: Area set aside by the government as national reserve

Community tree planting scheme(Section 14.3)

Community Forest: A forest planted on the communal land which is planted, replanted or spt planted by the members of the village.

Plant Planting: An area designated by the village for planting a block of trees.

Spot Planted: Replanting an area where selective logging has been carried out. A tree is planted to replace the one that has been cut.

Indigeous Trees: Trees that are native to Tanzania

Exotic Trees: Trees that are not native to Tanzania

Non Government Organisation: Is managed by people from outside the village and it normally covers more than one village/District/Region. Its function is to provide deveoopment assistance to the farmer and is free from direct government links.

Village level organization: is managed by members of the village. Its purpose is normally to access/provide development assistance to the village

ACCESS TO COMMUNAL RESOURCES

1 ACCESS TO COMMUNITY RESOURCES

1.1 Does the village set aside an area for communal resources e.g. forest, grazing, etc. (Yes =1 No =2) ☐

(If the answer is no proceed to 1.2)

	Are of Comminity, Village, Wrad resources	Area in acre	
1.1.1	**Total area of communal land**		Oficial figures from the leader
1.1.2	**Area of squatting famers in communal land**		Key informant (Leader/Extension officer etc.)
1.1.3	**Remaining available communal land**		Key informant (Leader/Extension officer etc.)
1.1.4	**Government reserve land**		Key informant (Leader/Extension officer etc.)

1.2 UPATIKANAJI NA MATUMIZI YA MALIASILI ZA JUMUIYA/KIJIJI/SHEHIA

	Community Resources	Distance from the resource in Km -season Dry	Distance from the resource in Km -season Rainy	Main Use
	(1)	(2)	(3)	(4)
1.2.1	Water for human consumption			
1.2.2	Wtar for livestock			
1.2.3	Communal grazing land			
1.2.4	**Communal firewood**			
1.2.5	Wood for chracoal burning			
1.2.6	**Wood for building poles**			
1.2.7	Forest for bee keeping (honey)			
1.2.8	**Hunting**			
1.2.9	**Fishing**			

Instructions on distance from the resource (Cols 2 and 3):
Distance is estimated from the centre of the village.

If under1 km 1, enter 0
If abover 1 km 1 enter whole number , eg. 1.5km= 2km, 1.25km= 1km

Msin uses (Col. 4)
Home or farm /livetsock consumption...1
Sold to traders in the village.....2
Sold to the village market.....3
Sold to local wholesalers.....4
Sold to Big wholewsalers 5
Not available.....6

2.0 COMMUNITY PLANTED TREES

2.1 Didi your village have community planted trees during 2007/08 agriculture year? (Yeso=1, No=2) ☐

If the answer is no proceed to Section 3.0

Details of the community tree planting scheme

No.	Dustance from the community forest	Forest Area (acre)	Type of Pllanting	Type of Trees	Source of seeds/ Seedlings	Number of Years since the start of planting	Main uses 2007/08 agriculture year	Main uses of communal forest products
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
2.2	•							

Type of planting Col. 3)
POlantion planting.....1
Spot planting.... 2

Type of trees (Col. 4)
Indigenous tress.....1
Exotic tree.....2
Both types.....3

Source of seedlings (Col. 5)
Seeds collection and planting.....1
Villlage Nursery.....2
Department of Forestry..... 3
Private Individuals.... 4

Main Uses (Col. 7)
Poles 1
Wood 2
Charcoal 3
Firewoodi 4
Other (Specify) 8

Main use of revenue (Col.8)
Village development fund.1
Household use.....2
Household ilcome.... 3

3.0 Non governmental Organisation (NGOs) Contact

3.1 Did any NGO visit the village during 2007/08 agriculture year? (Yes=1,No=2) (If no provceed to Section 4) ☐

Na.	Type of NGO	Visited Y=1,N=2	Number of visits	Distnatce to the Office (km)
3.2	Extension/ Rsearch			
3.3	Service /Input provision			
3.4	Community Development			
3.5	Other			

5.1 Did the village have Field farm schools during 2007/08,agriculture year? (Yes=1,No=2) ☐

5.3 Did the village have local ironsmiths during 2007/08 agriculture year? (Yes=1, No=2) (If the answer is 2 proceed to q. 5.5 ☐

5.4 Number of local ironsmiths

4.0 Community Based Organisation

4.1 Didi the village have any CBO during the 2007/08 agricuylture year?(Yes=1, No=2) ☐

Na.	Type of CBO Nd=1,Hap=2	
4.2	Extension/ Rsearch	☐
4.3	Service /Input provision	☐
4.4	Community Development	☐
4.5	Other	☐

5.2 Did the village participate in any research on crops/ improved livestock during in the village during 2007/08 agriculture year? (Yes=1, No=2) ☐

5.5 Did the village have any training centres on draft animals during 2007/08 agriculture year? (Yes=1, No=2) If number 2 is the answer conclude the enumeration. ☐

5.6 Number of training centres for draft animals

Obtain answers to the following questions from the meeting of enumerator and key informants in the village.Key infomants can be a village chairman, Village Local Government Executive Officer, Councellor, Wrad Chairman, Village extsion officer, or any knowledgeble member in the community. Where possible ask these questions to a group inorder to reach a consensus . **The numebr should be below five people.**

Procedure: Administer this frpom after completing asll smallholder questionnaires for the village.
1. Copy the name of all crops from Sections 5.1, 5.2 and 5.3 grown in the village from smallholder questionnaires
   This should also include livetsock raised by the household from questions 9.1, 9.3, 9.4 and 9.5 and enter them in col na 1 of this form.
   Also see codes for livetsock below.
2. Enter price estimates per kg in col 5 and 6.

Name of crop/livestock	Code of crop/livestock	Name of main crop	Code of Main crop	Type of measure	Price of measure	
					Minimum Per year	Maximamun Per year
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*	*(7)*

Type of livestock(Col 2)
Cattle .....01 Ducks……..07
Goat.....02 Turkey…….08
Sheep.....03 Rabbit……09
Pigs.....04 Kanga……10
Poutry……..05 Simbilisi……11
Donkeys……06

Main poroduct- CROPS (sCol.4)
Cereals……..01 Flowers eg. Pyrethrum.....07
Green maize……..02 Vegetables……..08
Green leaves and stem .....03 Fruit……..09
Straw, dry stems etc..04 Other……..10
Roots and tubers, etc.....05
Leaves (Tobacco etc)..... …..06

Main product- LIVESTOCK (Col. 4)
Live animals…..01
Meat 02
Milk.....03
Eggs.....04

***Q*uantity (Col.5)**
Kg……1
Number.....2
Litre……..3
A portion/piece ↓4

Appendix V

Village Community Level formats

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ACLF 1

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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 Form Office Register	After enumeration	Comments
(1)	(2)	(3)	(4)	(5)
☐☐☐		☐☐☐☐	☐☐☐☐	
☐☐☐		☐☐☐☐	☐☐☐☐	
☐☐☐		☐☐☐☐	☐☐☐☐	
☐☐☐		☐☐☐☐	☐☐☐☐	

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ACLF 2

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Agriculture Sample Census 2007/08

Household listing from-for listing hh heads and agriculture activities

Region _____ Code

District _____ Code ☐☐

Ward _____ Code

Village _____ Code

Name of sub village leader ☐☐☐

Name of sub village_____

Household number	Household head name	Number of										If the Respondent Qualifies X	Farmer Serial Number
		Fields a	Cattle				Goats	Sheep	Pigs	Kuku/Bata/	Rabbit		
			Total	Bulls	Cows	Calves							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
☐☐☐													
☐☐☐													
☐☐☐													
☐☐☐													

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ACLF 3

Household listing for 15 selected farmers

National Agriculture Sample Census 2007/08

Region _____ Code ☐☐ ward : _____ code ☐☐☐ ☐☐ Namba Sawia ☐☐☐

District _____ Code ☐☐ village _____ code ☐☐ Hatua ☐☐☐

S/N	Sub-village leader Number	Name of sub-village leader	Name of selected head of household	Name of Household a Head	Number of					
					Field	Cattle	Goat	Sheep	Pigs	Poutry
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
☐☐	☐☐☐		☐☐☐☐							
☐☐	☐☐☐		☐☐☐☐							
☐☐	☐☐☐		☐☐☐☐							
☐☐	☐☐☐		☐☐☐☐							