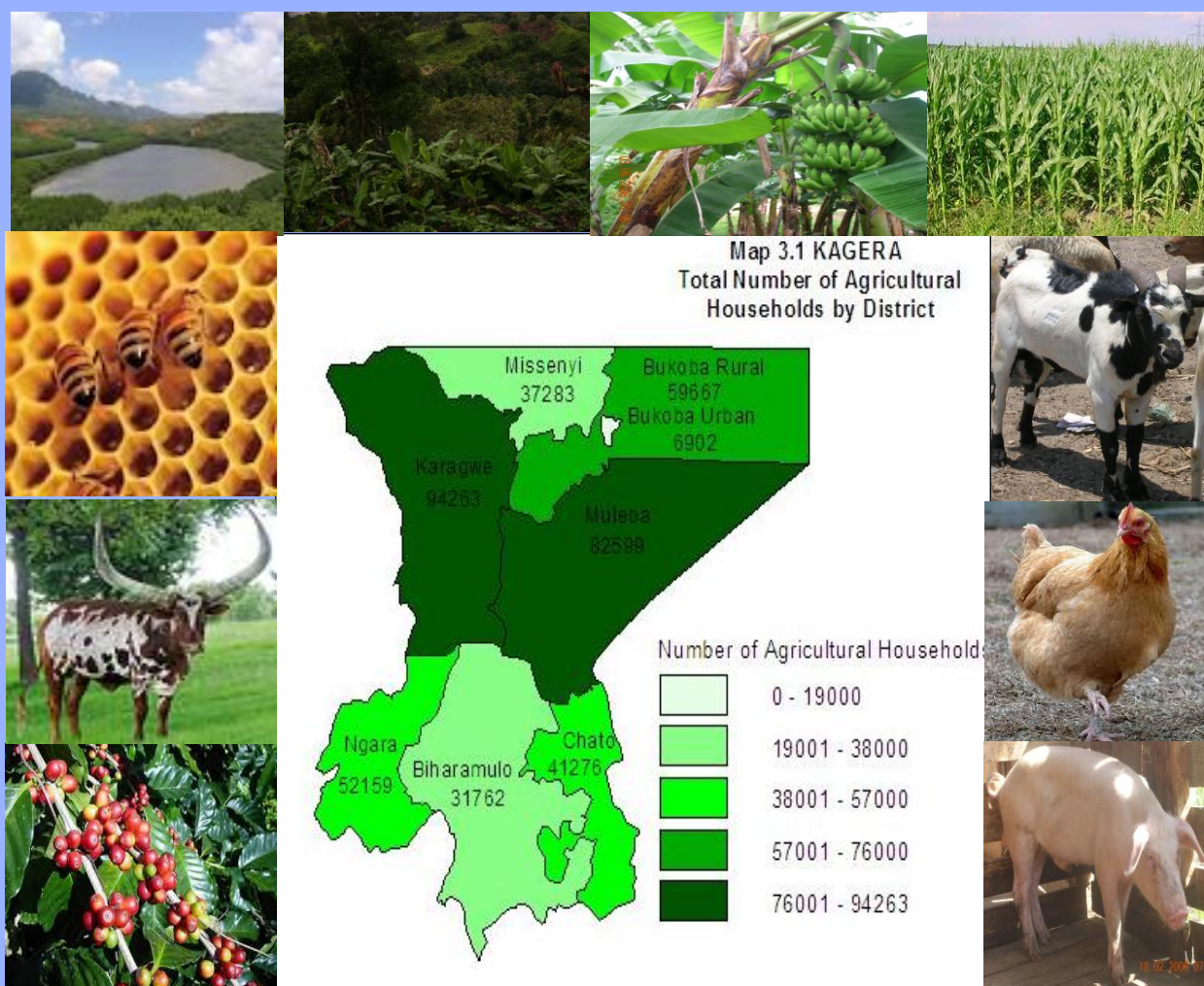


The United Republic of Tanzania

NATIONAL SAMPLE CENSUS OF AGRICULTURE 2007/2008

Volume Vs: REGIONAL REPORT: **KAGERA 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

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

OCGS	Office of Chief Government Statistician Zanzibar
PMO-RALG	Prime 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 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 therefore, 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 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 agricultural households in the region. Specifically, it covers, among others, important findings in relation to agricultural production, husbandry practices, and productivity.

i) Household Characteristics

The number of agricultural households in the region was 405,910. Karagwe had the largest number of agricultural households (94,263, 23.2%) followed by Muleba (82,598, 20.2%), Bukoba Rural (59,667, 14.7%), Ngara (52,159, 12.8%), Chato (41,276, 10.2%), Missenyi (37,282, 9.2%), Biharamulo (31,762, 7.8%), while Bukoba Urban had the smallest number of households (6,902, 1.7%). Majority of the households were involved in crop production (289,238, 71.3%) followed by crops and livestock (112,365, 27.7%), pastoralists (2,197, 0.54%), and livestock only (2,110, 0.52%).

Majority of the households in the region depended on crop farming as their main occupation (47%) followed by livestock keeping/herding (1%), and fishing (1%). Dependence on crop farming as the main occupation ranged from 50% in Ngara to only 33% in Bukoba Urban. Also, Karagwe and Ngara had the highest percentage of the households involved in livestock herding (2%) while Bukoba Urban had the highest percent of households engaged in fishing (2%).

ii) Crop Production**Land Area**

The total area of land available to smallholders was 647,706 ha while the average usable area per household was 0.83 ha. On average, about 83% (535,266) of the total usable land was utilised and only about 17% was not used. The three most important land use types were permanent/annual mix (135,433 ha), temporary mixed crops (125,909 ha), and temporary mono crops (105,636 ha). These accounted for about 56% of the total land area.

Planted Area

The average area planted per household during the short and long rainy season was 0.753ha and 0.748 ha respectively. The districts with the largest planted area per household (the average for the two seasons) were Biharamulo (2.6 ha) followed by Ngara (1.4 ha) while Bukoba Urban had the smallest average planted area (1.2ha). In all districts, the area planted with annual crops during the short rainy season was higher than that of the long rainy season.

iii) Crop Types**Cereal Production**

The total area planted with cereals in the region was 129,314 ha (39% of the total area planted with annual crops in the region) where by maize occupied 99,844 ha (77% of the area planted with cereals in the region) followed by paddy (14,105 ha, 11%) and sorghum (13,295 ha, 10%). Other cereals planted were finger millet (1,629 ha, 1.3%) and bulrush millet (413 ha, 0.3%)

▪ Maize

Maize is the major cereal crop in the region. There were 372,318 households engaged in maize production. Karagwe had the largest number of households engaged in maize production (82,858) while the smallest number of households engaged in maize production was in Bukoba Urban (2,991). The total area planted with maize was 99,844 ha (26.8%) and the planted area per maize growing household was (0.27 ha). Biharamulo had the largest planted area per maize growing household (0.59 ha) while Bukoba Urban (0.14 ha) recorded the smallest area per maize growing household in the region.

▪ Paddy

Paddy was the second most important cereal crop grown in region after maize. There were 19,938 households engaged in paddy production. The largest area planted with paddy was recorded in Chato (11,117 ha) while no production of paddy was reported in Bukoba Urban.

▪ Sorghum

Sorghum was the third most important cereal crop in the region. A total of 38,870 households were involved in sorghum production. Karagwe had the largest number of households engaged in sorghum production (12,103 households). The total area planted with sorghum was 13,293 hectares and the harvest was 17,001 tons with crop yield of 1.3 tons/ha. Biharamulo recorded the largest

planted area with sorghum (4,912 ha) followed by Karagwe (2,871 ha), Ngara (2,240 ha), Chato (1,265 ha), Muleba (1,165 ha), Missenyi (835 ha), Bukoba Urban (6 ha) while no sorghum production was reported in Bukoba Rural.

Roots and Tuber Crops Production

The total production of roots and tubers was 165,333 tons from a planted area of 70,619 hectares. The number of households engaged in sorghum production was 368,400. Cassava production was higher than any other roots and tuber crop in the region with a total production of 114,120 tones representing 69 percent of the total roots and tuber crops produced followed by sweet potatoes (41,156 tones, 25%). Other roots and tuber crops contributed less than 10% of the total production.

Pulse Crops Production

The total area planted with pulses was 143,970 ha out of which the largest area was planted with beans (139,615 ha). Other types of pulses were grown to a much smaller area. The total production of pulses was 109,699 tons with the harvest of beans accounting for about 98% of the total production.

Oil Seeds Production

The total number of households involved in oil seeds production was 84,000. Most of the households planted groundnuts (82,980). The households cultivated a total of 15,043 ha of which the largest area was planted with groundnuts (14,927 ha) while the remaining area was planted with other crops including soya beans (75 ha), simsim (25 ha) and sunflower (16 ha). The total production from oilseed crops was 11,068 tons with the largest quantities obtained from groundnuts (10,883 ton).

Fruits and Vegetables

For annual crops, fruits and vegetables ranked the least and were produced largely for the market. A total of 72,538 households produced different types of fruits and vegetables in an area of 6,023 ha. The average planted area per household was 0.1 ha. The largest area of fruits and vegetables was planted with tomatoes (2,386 ha) followed by cabbage (1,094 ha), bitter aubergine (671 ha), amaranths (615 ha), chilies (333 ha) and pumpkins (300 ha). The smallest area was planted with ginger (8 ha). The percentage of the area planted with those crops relative to total area of annuals crops ranged from 0.6% (tomatoes) to 0.1% (pumpkins).

Permanent Crops

The total planted area with permanent crops was 239,942 ha of which the largest area was planted with banana (118,072 ha) followed by other crops (62,891 ha), coffee (47,949 ha), mangoes (8,577 ha), orange (1,061 ha), and sugar cane (770 ha). Other crops were grown to a much smaller area with tea recording the smallest area (66 ha). Karagwe had the highest percentage of the total area planted with perennial crops (30%) followed by Muleba (19.28%), Missenyi (12.77%), Bukoba Rural (12.55%), Ngara (9.42%), Chato (8.23%), and Biharamulo (6.46%) while Bukoba Urban had the lowest percentage (0.91%). Chato district had the largest planted area for perennial crops growing household (0.57ha) while Bukoba Urban had the smallest planted area (0.12 ha).

iv) Use of Inputs**Improved Seeds Use**

A total of 29,434 households planted 13,589 ha using improved seeds in the short rainy season. Moreover, Bukoba Urban had the highest percentage of the area planted with improved seeds during the short rainy season (15.4%) followed by Chato (14.95), Missenyi (5.7%), Biharamulo (4.9%), Karagwe (3.3%), Bukoba Rural (3%), and Ngara (2.5%) while Muleba had the lowest percentage (1.1%).

Fertilizer Use

A total of 13,205 ha accounting for 78% of the total planted area were planted using organic fertilizer while the area planted with inorganic fertilizer was only 3,736 ha or about 22%. The area planted with organic fertilizer was much larger in the short rainy season (10,649 ha) than in the long rainy season (2,556 ha). Missenyi had the largest area planted with organic fertilizer in both short and long rainy seasons. On the other hand, Bukoba Rural had the smallest area planted with organic fertilizer in the short rainy season while Biharamulo had the smallest planted area using organic fertilizer in the long rainy season.

v) Irrigation

The area of annual crops under irrigation was 2,840 ha with almost over a third of the area under irrigation was in Chato (1,128 ha, 39.72%) while the smallest area was in Biharamulo (87 ha, 3.07%). The largest number of households obtained water for irrigation from rivers (3,624, 43%),

followed by tap water (1,880, 23%), canals (1,384, 17%), lake (788, 9%), borehole (611, 7%) and wells (58, 1%) while none obtained water from dams.

vi) Crop Storage and Marketing

Crop Storage

About 93% of households stored crops while 7% did not. Chato had the highest percentage of the households storing crops (96%) followed by Karagwe (95%) and the least was Missenyi. However, in terms of numbers, Karagwe had the largest number of households storing crops (126,847) followed by Ngara (92,341), Muleba (84,842), Bukoba Rural (70,127), Chato (53,506), Missenyi (53,392), and Biharamulo (38,663) while Bukoba Urban had the smallest number of households (4,084). The highest percentage of households stored crops using sacks/open drums (47.6%), followed by locally made traditional structures (30.7%) while other methods used were insignificant.

Crop Marketing

About 73.6% of crop growing households reported selling crops. Karagwe had the largest number of households that sold crops (116,141, 28%) followed by Ngara (63,879, 15%), Muleba (61,388, 15%), Missenyi (50,723, 12%), Chato (46,270, 11%), Bukoba Rural (41,546, 10%), and Biharamulo (32,468, 8%) while Bukoba Urban had the smallest number (1,035). Within the districts, Karagwe had the highest percentage of crop selling households (87.4%) followed by Missenyi (85.7%), Chato (81.1%), Biharamulo (77.8%), Ngara (66.5%), Muleba (65.9%), Bukoba Rural (53.9%), while Bukoba Urban had the lowest percentage (23.4%). On marketing problems, the most reported problem was too low open market price (64%) while others included crop market being too far (5.5%), transport cost too high (4.5%), lack of transport (4%) and lack of market information (3.1%).

vii) Agricultural Credit

The highest percentage of households received credit from family; friend or relatives (33.1%) followed by private individuals (30%), cooperative (18.5%), bank (8.8%), trader/trade store (5.1%), savings and credit societies (2.7%) while the lowest percentage of households obtained credit from NGO/Development project (01.8%). Households in Bukoba Urban district did not receive credit from any of the main sources under consideration. Ngara received all its agricultural credit from one main source - the Bank.

viii) Crop Extension Services

Out of 401,603 crops growing households, 226,517 households or 56.4% received extension advice on crop production while 155,086 (43.6%) households did not. Karagwe had the largest number of households that received extension advice (55,859, 24.7%) followed by Muleba (49,151, 21.7%), Bukoba Rural (40,220, 17.8%), Ngara (22,667, 10%), Biharamulo (20,155, 8.9%), Chato (19,364, 8.5%), and Missenyi (16,110, 7.1%). In contrast, Bukoba Urban had the smallest number of households receiving extension advice (2,991, 1.3%).

ix) Soil Erosion and Water Harvesting Facilities

The number of agricultural households that had soil erosion and water harvesting facilities on their farms was 40,993 representing only 10% of the total agricultural households while those without structures was 364,917 (90%). Ngara had the largest number of households with water harvesting facilities (9,917, 24%) followed by Muleba (8,770, 21%), Karagwe (6,750, 16%), Bukoba Rural (5,746, 14%), Chato (4,382, 11%), Biharamulo (3,059, 7%), and Missenyi (1,565, 4%). Bukoba Urban had the smallest number of households with water harvesting facilities (805, 2%).

x) Livestock and Poultry Production**▪ Cattle**

The region ranked tenth among other regions in the country accounting for 3.96% of the total cattle population in Tanzania Mainland. The largest population of cattle was in Karagwe (318,166) followed by Missenyi (160,545), Chato (127,191), Biharamulo (77,405), Muleba (61,796), Ngara (50,061), Bukoba Rural (36,684) while Bukoba Urban had the smallest population (5,061). Most of the cattle in the region were of indigenous type (813,212 heads, 97.1%).

Beef cattle were in insignificant number and were only kept in Ngara district. Besides, improved dairy cattle represented only 2.9% of the cattle population with Karagwe recording the largest number (10,241) followed by Muleba (4,079) and Bukoba Rural (2,799). About 50 percent of the cattle rearing households had herd size ranging 1-5 cattle with an average of three (3) cattle per household.

▪ Goats

The region had a total of 816,260 goats. Karagwe District had the largest number of goats (189,689) accounting for 23 percent of total goats in the region followed by Ngara (165,234 goats; 20%) and Muleba (144,599 goats; 18%). Most of the goats kept in the region were of indigenous type accounting for 96% (785,391) of the goat population while improved dairy goats represented 3.6% (29,520 goats) and improved goats for meat (goat meat) was only 0.2% (1,350 goats). About 91 percent of the goat rearing households had flock size of 1-4 goats with an average of 2 goats per household.

▪ Sheep

The number of sheep-rearing households was 2,536 (5%) of all the agricultural households in the region. The households kept 76,713 sheep, giving an average of 4 heads of sheep per sheep rearing household. The district with the largest number of sheep was Karagwe (35,843 sheep, 46.7%) of the total sheep in the region followed by Chato (17,224 sheep, 22.5%) and Muleba (8,770 sheep, 11.4%).

▪ Pigs

The total population of pigs in the region was 64,432. The pig herd structure shows that the sow/gilt accounted for the highest percentage of pigs (61%) followed by boar (26%), male piglet (6%), castrated male (4%), and she piglet (3%). Bukoba Rural had the largest number of pigs (15,617 pigs; 24%) followed by Karagwe (15,129 pigs; 23.5%), Missenyi (12,612 pigs, 20%), Ngara (7,985 pigs; 12%) and Muleba (7,138 pigs; 11%).

▪ Chicken

The total number of chicken in the region was 1,346,650. These were distributed in 187,179 households giving an average of seven (7) chickens per chicken rearing household. Most of the chickens were of indigenous type (1,326,534 chickens, 98.5%).

xi) Poverty Indicators**Roofing Material**

Different types of roofing material were used in the region ranging from iron sheets, grass/leaves, grass and mud, concrete, and tiles. However, the most common roofing material used was iron sheet accounting for 68 percent of the total agricultural households in the region followed by grass/leaves (29%).

Sources of Lighting Energy

Wick lamp was the most common source of lighting energy in the region with 80 percent of the total agricultural households using it for lighting followed by hurricane lamp (10%), pressure pump (4%), fire wood (3%), mains electricity (2%), and solar (1%).

Sources of Drinking Water

The main source of drinking water reported by agricultural households during the dry season was unprotected spring (29%) followed by surface water including lake/dam/river/stream) (21%), protected wells (14%), unprotected well (13%), piped water (12%), protected/covered springs (10%), uncovered rain water catchments and covered rain water catchments (1%).

Types of Toilets

Traditional pit latrines were the most commonly used toilets in the region accounting for 89 percent of all the households followed by improved pit latrines (4%) and flush toilets (1%). Karagwe had the highest number of households using flush toilets. On other hand, about 6 percent (25,339 households) did not have toilets or they used bushes. Karagwe District had the largest number of households without toilets (6,051) followed by Chato (5,096) and Muleba (4,895).

Number of Meals per Day

Majority of the households in the region had two (2) meals per day (73%) while 25% (101,616 households) had three meals per day. On the other hand, only two (2) percent (6,737 households) had one meal per day (3.146). Ngara district had the highest percentage of the households eating one meal per day while none of the households in Bukoba Urban belonged to this category.

1 BACKGROUND INFORMATION

1.1 Introduction

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

1.2 Geographical Location and Boundaries

The region is located in the extreme northwestern corner of Tanzania. It lies just below the Equator between 1°00' and 2°45' South latitudes. Longitudinally it lies between 30°25' and 32°40' East of Greenwich. This includes large part of the water of Lake Victoria.

The landmass lies between 30°25' and 31°48' longitudes east. The region has common border with Uganda to the North, Rwanda and Burundi to the West, Shinyanga and Kigoma regions to the South. To the East of the region lies Lake Victoria.

1.3 Land Area

The region covers a total area of 40,838 km². Out of the total area, 28,953 km² is covered by land and 11,885 km² is covered by water bodies of Lake Victoria, Ikimba and Burigi Lakes and Ngono river. The region is divided into eight administrative districts namely; Karagwe, Bukoba Rural, Muleba, Biharamulo, Ngara, Bukoba Urban, Missenyi and Chato. Bukoba is the regional headquarters and the major business town.

1.4 Climate

The region experiences a bi-modal rainfall pattern, March – May and October – November, with average annual rainfall of 500 – 2000 mm. Rainfall is higher along the shores of Lake Victoria and decreases inland away from the lake and also with altitude, varying from 2000 mm a year near Bukoba to 500 mm in the West. Temperature ranges between 20°C - 28°C. The region consists of series of hills running North-South and parallel to the Lakeshore.

1.5 Population

The region is among the five most populated regions in the country. In 2008, the region had a population of 2,379,637 according to the projections from 2002 population and housing census, with an average growth rate of 3.1. The region population represented 6.0 percent of the total Tanzania Mainland population.

1.6 Socio - Economic Indicators

The main economic activity carried out by region's population was agricultural production, which was the mainstay of the people of. It engaged about 90 percent of the regional population in the production of food and cash crops. The most important food crops were bananas and beans. Coffee, cotton and tea were the main cash crops grown. The Sugar Company carries out sugar cane growing on a commercial scale.

In the past, fishing contributed very little to the region's economy. However, with the introduction of fish fillet processing plants in Mwanza and Bukoba towns, fishing has become an important sector in cash earning, employment and as a source of protein. Other productive sectors in the region include livestock, mining and natural forestry.

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 Vs) 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; and
- 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 as well as the 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).

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

Table 2.1: Census Sample

Description	Mainland	Zanzibar	Total
Households	47,880	4,755	52,635
Villages/EAs	3,192	317	3,509
Districts	133	9	142
Regions	21	5	26

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.

CSPPro 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 CSPPro 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 s.

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 s, 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).

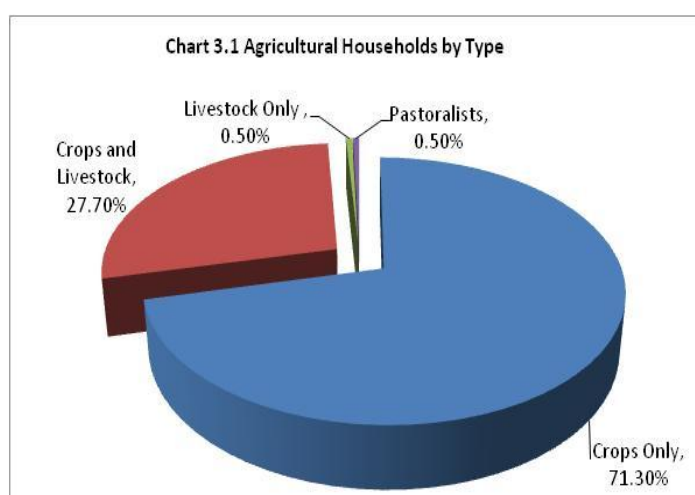
3 CENSUS RESULTS

This part of the report presents the results of the census for Kagera region based on the statistical tables presented in Appendix A2. The results are presented in different forms including brief summaries, charts, condensed tables, graphs and maps in order to make it easier for the users to understand. Comparisons are made between related variables and between districts. Comparisons are also made with past censuses and surveys' results including the National Sample Census of Agriculture 2002/2003. The results are divided into four main sections which are household characteristics, crop results, livestock results and poverty indicators

3.1 Household Characteristics

3.1.1 Types of Households

The number of agricultural households in the region was 405,910. Karagwe had the largest number of agricultural households (94,263; 23%) followed by Muleba (82,598; 20%), Bukoba Rural (59,667; 15%), Ngara (52,159; 13%), Chato (41,276; 10%), Missenyi (37,283; 9%), Biharamulo (31,762; 8%), and Bukoba Urban had the smallest number of households (6,902; 2%), (Map 3.1).

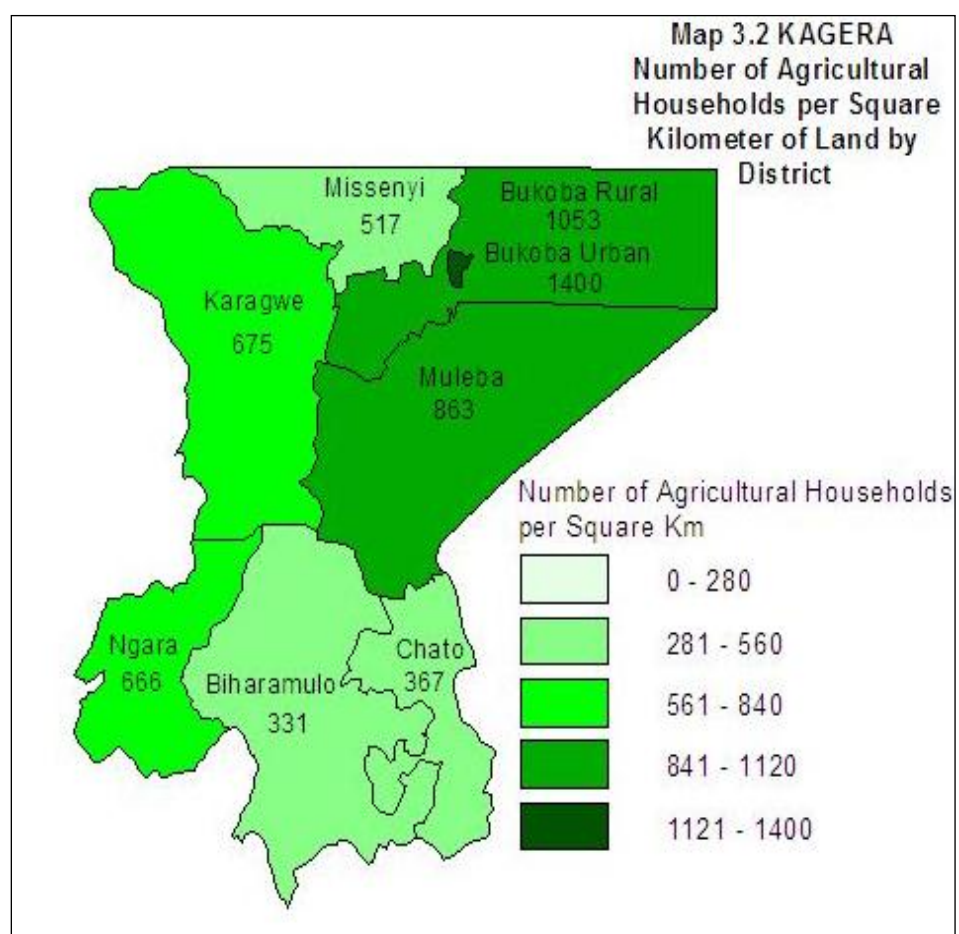
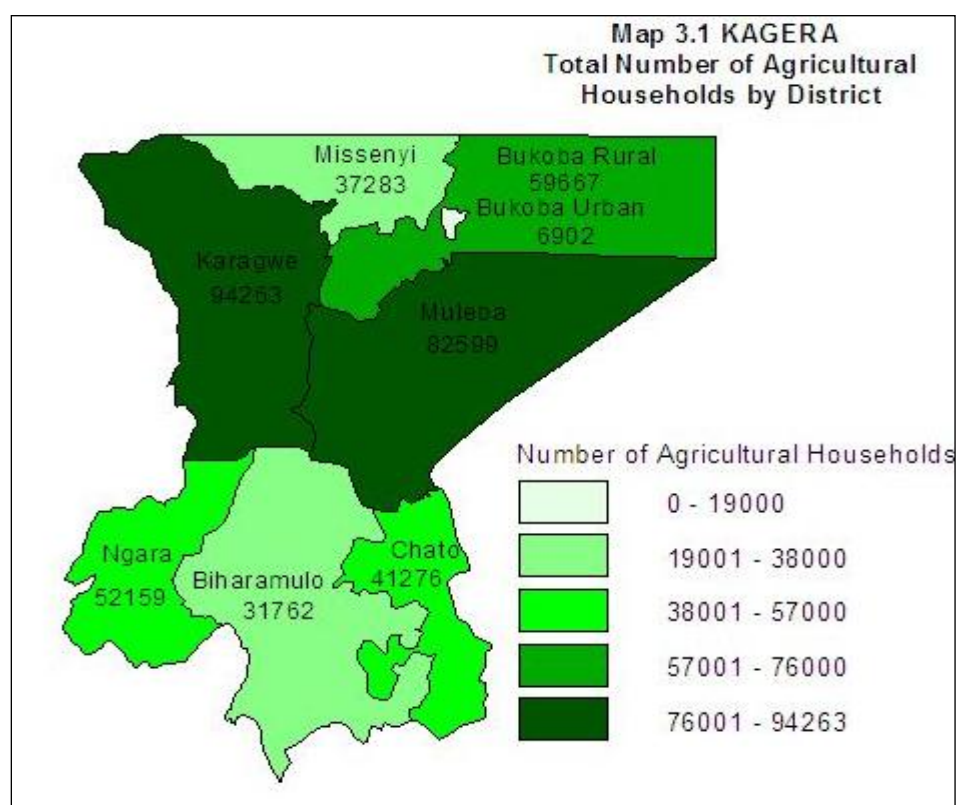


Of the total 405,910 agricultural households, the majority was involved in crops only production (289,238, 71.3%) followed by crops and livestock (112,365, 27.7%), pastoralists (2,197, 0.54%) livestock only (2,110, 0.52%), (Chart 3.1). The total number of crops growing households (401,603 or 98.9%) comprised of crops only households (289,238) and combined crops and livestock keeping households (112,365). The largest number of households was in Karagwe (68,195) followed by Muleba (64,243), Bukoba Rural (47,881), Ngara (31,553), Missenyi (26,696), Chato (25,479), Biharamulo (19,841) while Bukoba Urban had the smallest number of crops only growing households (5,349). Regarding percentage of crops only growing households within the districts, it ranged from 80% in Bukoba Rural to 60% in Ngara.

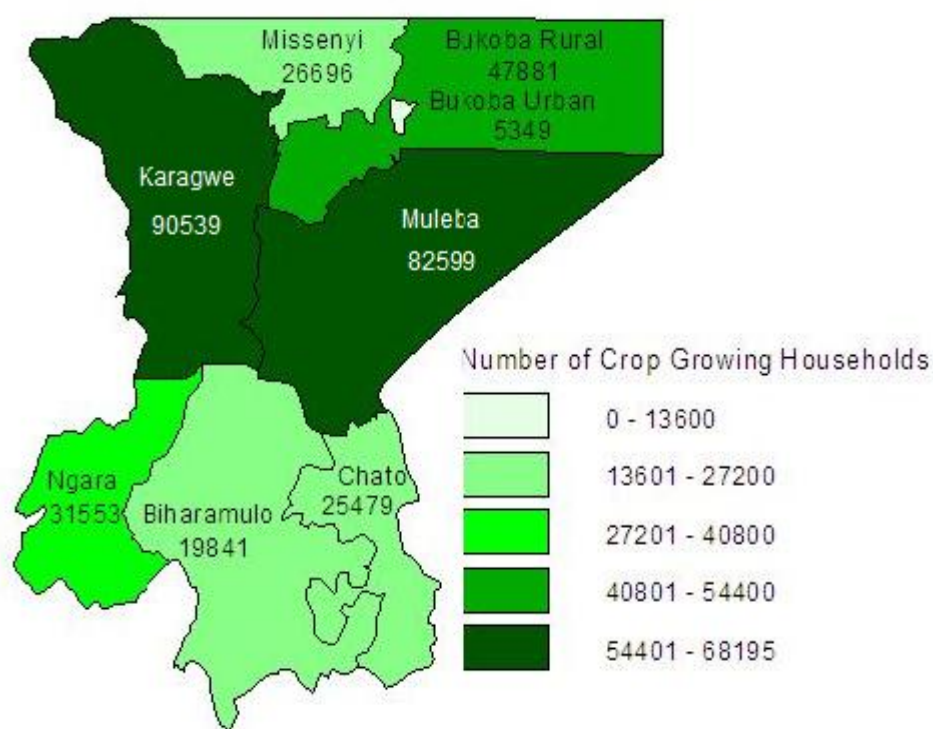
Moreover, the highest percentage of crops and livestock households was recorded in Ngara (40%) while Bukoba Rural had the lowest percentage (20%), (Table 3.1).

Table 3.1: Percentage of Agricultural Households by Type

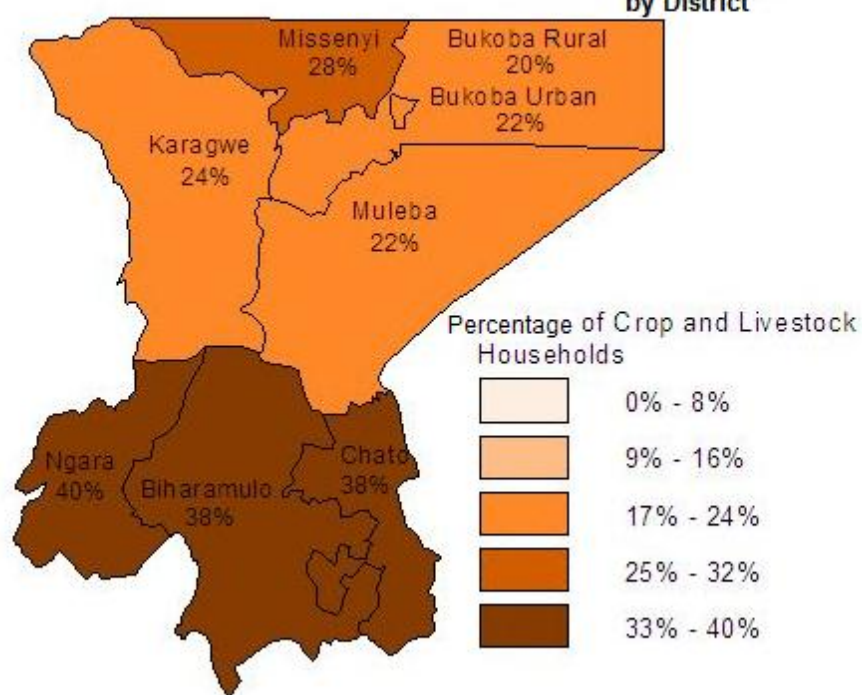
District	% Crops Only	% Livestock Only	% Pastoralists	% Crops & Livestock
Karagwe	23.6	77.2	95.4	19.9
Bukoba Rural	16.6	7.0	0.0	10.4
Muleba	22.2	0.0	0.0	16.3
Biharamulo	6.9	0.0	0.0	10.6
Ngara	10.9	0.0	0.0	18.3
Bukoba Urban	1.8	2.7	0.0	1.3
Missenyi	9.2	13.1	0.0	9.2
Chato	8.8	0.0	4.6	14.0
Total	100.0	100.0	100.0	100.0



Map 3.3 KAGERA
Number of Crop Growing
Households by District



Map 3.4 KAGERA
Percentage of Crop growing and
livestock Keeping Households
by District



3.1.2 Livelihood Activities/Source of Income

The majority of agricultural households in the region depended on crop farming as their main occupation (341,430 or 84%) followed by employment (39,486 or 10%), other activities or off-farm activities (11,406 or 3%), fishing (6,935 or 2%) and livestock keeping/herding (6,653 or 2%). Dependence on crop farming as the main occupation ranged from 91% in Biharamulo to 53% in Bukoba Urban. Also, Karagwe and Ngara had the highest percentage of households involved in livestock herding (4% and 3% respectively) while Bukoba Urban had the highest percentage of households engaged in employment (38%) followed by Muleba (13%), (Table 3.2).

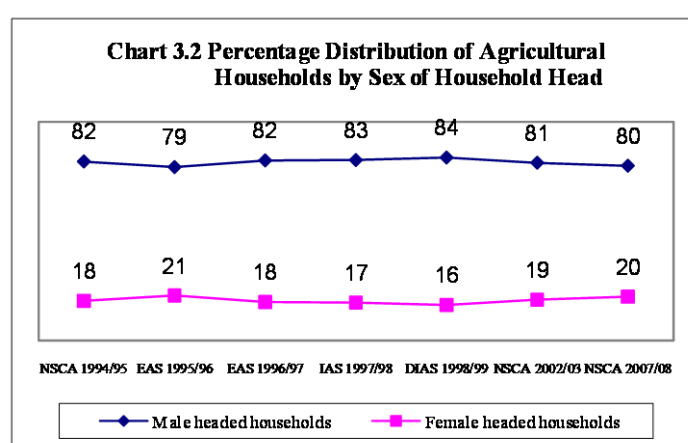
Table 3.2: Number of Heads of Agricultural Households by Main Activity and District

District	Crop/Seaweed Farming		Livestock Keeping / Herding		Fishing		Employment		Off-farm Activities		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	79,600	84	3,724	4	233	0	9,077	10	1,629	2	94,263	100
Bukoba Rural	50,238	84	147	0	1,768	3	5,451	9	2,063	3	59,667	100
Muleba	66,283	80	0	0	2,855	3	10,605	13	2,855	3	82,599	100
Biharamulo	28,860	91	235	1	0	0	2,117	7	549	2	31,762	100
Ngara	45,977	88	1,417	3	0	0	3,606	7	1,159	2	52,159	100
Bukoba Urban	3,623	53	58	1	173	3	2,646	38	403	6	6,902	100
Missenyi	31,483	84	460	1	276	1	3,130	8	1,933	5	37,283	100
Chato	35,365	86	611	1	1,631	4	2,854	7	815	2	41,276	100
Total	341,430	84	6,653	2	6,935	2	39,486	10	11,406	3	405,910	100

3.1.3 Sex and Age of Heads of Household

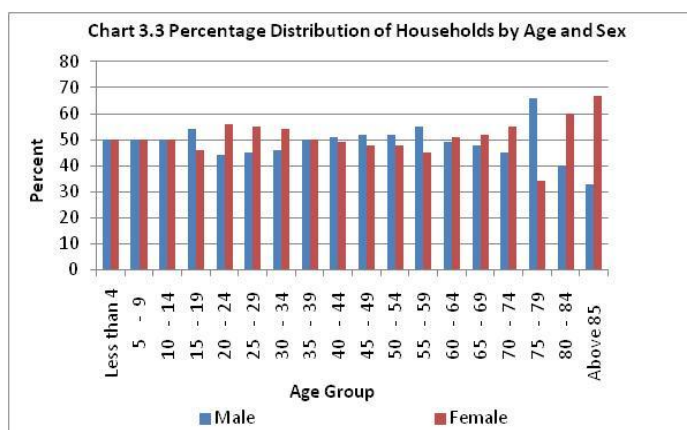
The number of male-headed agricultural households in the region was 323,526 (80%) of the total heads of agricultural households) whilst the female-headed households were 82,384 (20%) of the total regional agricultural household heads). The percentage trend for seven censuses/survey years shows that there has been no significant change in the distribution of agricultural households by male

and female headed households. However, it was noted that the percentage number of heads of agricultural household dropped for the male-headed households from 81% in 2003 to 80% in 2008, while for the female-headed households it increased from 19% in 2003 to 20% in 2008, (Chart 3.2).



3.1.4 Age and Sex of Household Members

The region had a total of rural population of 2,072,132 of whom 1,029,204 (50%) were males and 1,042,928 (50%) were females. But the distribution of household members by age and sex shows that in the age bracket less than 4 years to 10-14 years, male and female members were equal in terms of percentage while in the



age bracket 15-19 years the percentage of male members was higher than that of females. In the age bracket 20-24 to 30-34 females were the majority than their male counterparts. A similar pattern was observed from 40-44 to 55-59 age brackets. Female members were the majority in the age bracket from 60-64 to 70-74 and then from 80-84 to above 85, (Chart 3.3).

3.1.5 Level of Education

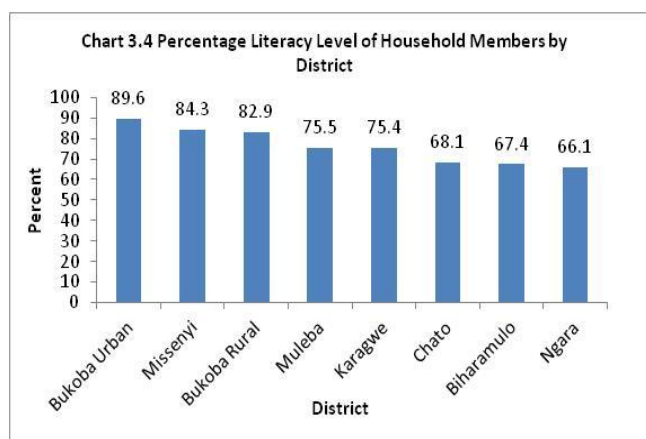
Data on literacy and education attainment were obtained for all persons aged five years and above in all the agricultural households.

Literacy

Data on literacy level for household members aged five years and above were obtained by asking individual households whether their respective household members could read and write in Kiswahili only, English only, both English and Swahili or in any other language. Literacy level, therefore, was based on the ability to read and write Swahili, English or both.

Literacy Level for Household Members

The literacy level for the household members was 75% (1,314,570). For males it was 78% (680,414) while that of female members was 72% (634,157). Of the 1,760,101 members of households, about 445,531 (25%) could not read/write. Bukoba Urban recorded the highest literacy level (89.6%) while Ngara recorded the lowest literacy level (66.1%), (Chart 3.4).



In general, household members had the highest level of literacy in Swahili (1,193,364, 90.8%), followed by Swahili and English (120,286, 9.2%), and other language (920, 0.1%). Bukoba Urban recorded the highest percentage of literacy level (reading and writing), (89.6%) while Ngara had the lowest percentage (66.1%). Muleba recorded the highest percentage of literacy in Swahili (93.45) while the lowest was recorded in Chato (88.4%). In Kiswahili and English, the highest percentage of the households was recorded in Chato (11.65%). Missenyi had the highest percentage of literate households in other languages (0.2%). The district with the highest percentage of households unable to read and write was Ngara (51.4%) while the lowest was recorded in Bukoba Urban (11.75%), (Table 3.3).

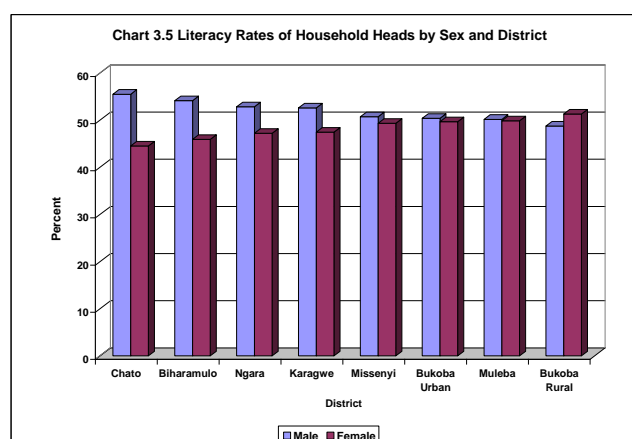
Table 3.3: Percentage Literacy Level of Households Members by District

District	Swahili		Swahili & English		Any Other Language		Don't Read / Write		Read and Write		Total
	Number	%	Number	%	Number	%	Number	%	Number	%	
Karagwe	269,754	88.5	34,679	11.4	233	0.1	99,383	32.6	304,666	75.4	404,049
Bukoba Rural	183,421	92.6	14,585	7.4	0	0	40,809	20.6	198,007	82.9	238,816
Muleba	251,059	93.4	17,539	6.5	204	0.1	87,290	32.5	268,803	75.5	356,092
Biharamulo	94,502	92.8	7,294	7.2	78	0.1	49,172	48.3	101,874	67.4	151,046
Ngara	125,825	91.1	12,106	8.8	129	0.1	70,962	51.4	138,060	66.1	209,022
Bukoba Urban	22,143	89.7	2,531	10.3	0	0	2,876	11.7	24,674	89.6	27,550
Missenyi	111,111	88.8	13,716	11	276	0.2	23,290	18.6	125,104	84.3	148,394
Chato	135,548	88.4	17,835	11.6	0	0	71,749	46.8	153,383	68.1	225,132
Total	1,193,364	90.8	120,286	9.2	920	0.1	445,531	25.3	1,314,570	74.7	1,760,101

Literacy Rates for Heads of Household

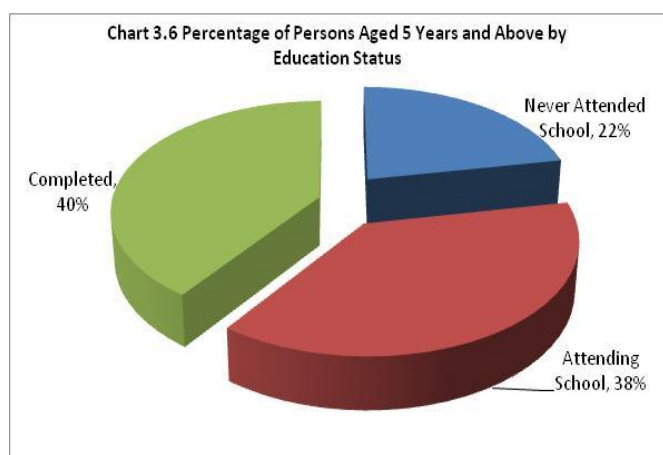
The literacy rate for the male heads of household was 82% (264,279) while that of female heads was 55% (45,471). Of the 405,910 heads of household, 96,160 (24%) could not read/write. Except for Bukoba Rural where the literacy rate of female members was higher (51%) than that of males (49%) as well

as in Muleba where the literacy rate among males and females was equal while, in the remaining districts the literacy rate of male heads of household was higher than that of female heads. Chato had the highest literacy rate amongst male heads of household (55%), (Chart 3.5).

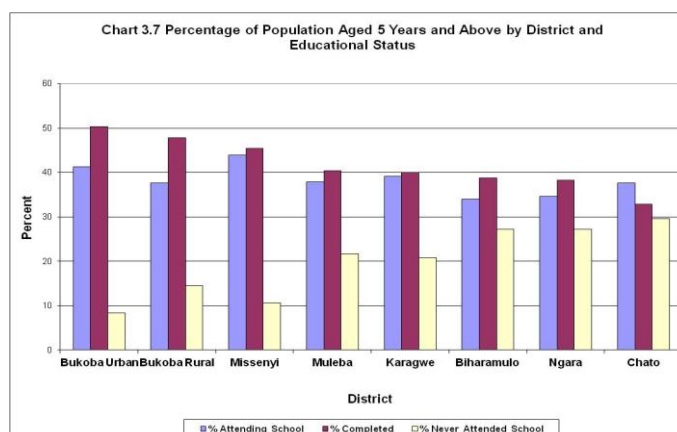


Educational Status

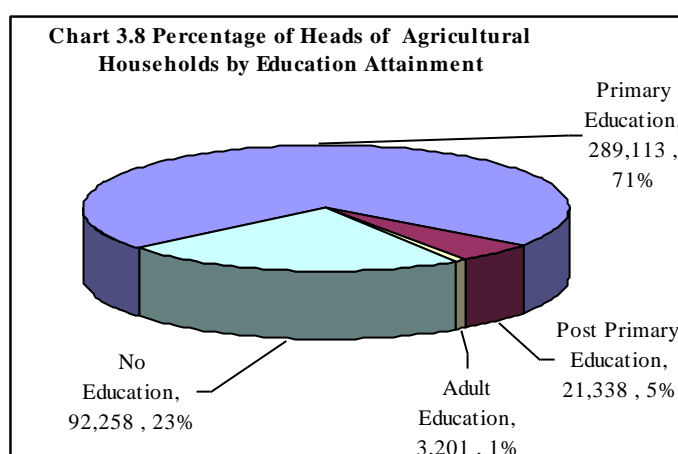
Data on educational status was collected from individual agricultural households. The results show that 40% (713,054) of the population aged 5 years and above in agricultural households had completed different levels of education followed by 38% (667,844) who were attending school while 22% (379,204) had never attended school, (Chart 3.6).



Bukoba Urban had the highest percentage of persons aged 5 years and above who had completed different levels of education (50%) while the lowest percentage was recorded in Chato (33%). Regarding those who had never been to school, the highest percentage was recorded in Chato (30%) while Bukoba Urban had the lowest percentage (8%). Moreover, Missenyi recorded the highest percentage of individuals still attending school (44%) while Biharamulo had the lowest percentage (34%), (Chart 3.7).



Regarding educational attainment of heads of household, majority (289,113, 71%) had attained primary education while those with post primary education were 21,338 (5%). The number of those who had attained adult education was very small (3,201 or 1%). On the other hand, the number of those who had no formal education was 92,258 (23%), (Chart 3.8).



Missenyi District had the highest percent of household heads with primary education attainment (76%) and the lowest percent was reported in Ngara and Chato District (each 64%). On the other hand, heads of household who attained post primary education were mostly recorded in Bukoba Urban (22%), (Table 3.4).

**Table 3.4: Number of Heads of Agricultural Households By Level of Education Completion and District ,
2007/08 Agricultural Year**

District	Primary Education		Post Primary Education		Adult Education		No Education		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	69,126	73	3,491	4	233	0	21,413	23	94,263	100
Bukoba Rural	44,787	75	3,536	6	1,179	2	10,166	17	59,667	100
Muleba	59,145	72	4,283	5	408	0	18,763	23	82,599	100
Biharamulo	23,135	73	1,255	4	157	0	7,215	23	31,762	100
Ngara	33,614	64	2,833	5	386	1	15,326	29	52,159	100
Bukoba Urban	4,659	68	1,495	22	0	0	748	11	6,902	100
Missenyi	28,353	76	3,222	9	736	2	4,971	13	37,283	100
Chato	26,294	64	1,223	3	102	0	13,657	33	41,276	100
Total	289,113	71	21,338	5	3,201	1	92,258	23	405,910	100

3.2 Land Use

Land area and planted area are two different types of area measurements. Land area refers to the physical area of land and is the same regardless of the number of crops planted on it in one year. Planted area is the total area of crops planted in a year and the area is summed if there were more than one crop on the same land per year. A number of terms are used in this section which requires definition for clarification as follows:

Land available refers to the area of land that has been allocated to smallholders through customary law, official title or other forms of ownership. Land available does not mean the total area of land that is designated as agricultural land in the country; but it is the land that is available to smallholders given the location of villages and lack of access to more remote parcels of unused agricultural designated land. Usable land refers to the available minus the land that cannot be used e.g. bare rock, shallow soils, and steep swamp areas. It does however include un-cleared bush. Utilized land refers to the land that was used during the year.

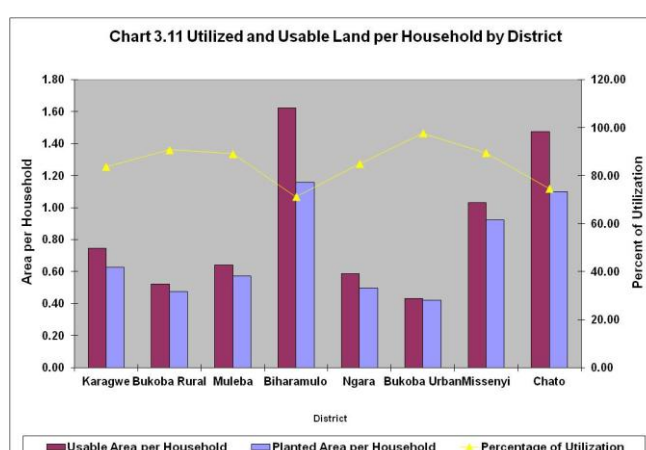
3.2.1 Area of Land Utilized

The total area of land available to smallholders was 647,706 ha while the average usable area per household was 0.83 ha. On average, about 83% (535,266 ha) of the total usable land was utilised and only about 17% was not used (Table 3.5 and Map 3.5)

Table 3.5: Utilized and Planted Area per Household

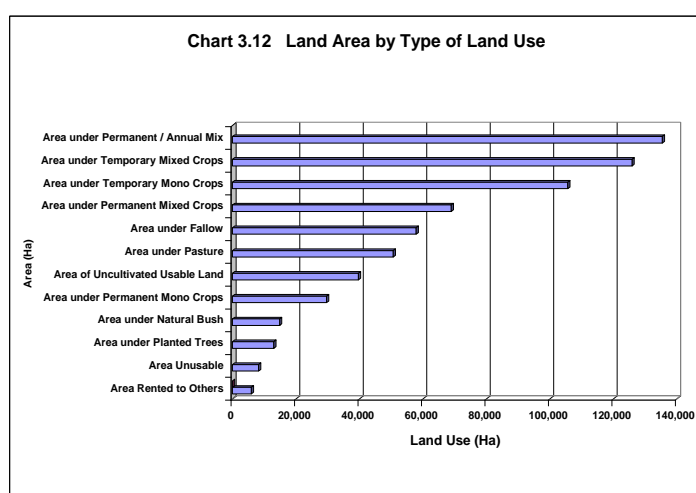
District	Number of Households	Usable Area Available	Planted Area	Usable Area per Household	Planted Area per Household	Percentage of Utilization
Karagwe	182,939	136,794	114,559	0.75	0.63	83.75
Bukoba Rural	108,432	56,611	51,437	0.52	0.47	90.86
Muleba	147,454	94,804	84,499	0.64	0.57	89.13
Biharamulo	58,270	94,662	67,412	1.62	1.16	71.21
Ngara	130,977	76,897	65,321	0.59	0.5	84.95
Bukoba Urban	11,388	4,929	4,812	0.43	0.42	97.64
Missenyi	69,594	71,822	64,257	1.03	0.92	89.47
Chato	75,316	111,187	82,969	1.48	1.1	74.62
Total	784,370	647,706	535,266	0.83	0.68	82.64

Biharamulo had the largest usable area per household (1.62 ha) while Bukoba Urban had the smallest (0.43 ha). Besides, Biharamulo recorded the largest planted area per household (1.16 ha) while the smallest planted area per household was found in Bukoba Urban (0.42 ha). Furthermore, Bukoba Urban had the highest percentage of land utilization (97.64%). In contrast, the lowest percent of land utilization was recorded in Biharamulo (71.21%) (Chart 3.11).



3.2.2 Types of Land Use

The three most important land use types were permanent/annual mix (135,433 ha, 20.6%), temporary mixed crops (125,909 ha, 19.2%), and temporary mono crops (105,636 ha, 16.1%). These accounted for about 56% of the total land area. Other land use types were permanent mixed crops (68,954 ha, 10.5%), fallow (57,882 ha, 8.8%), pasture (50,661 ha, 7.7%), uncultivable usable land (39,698 ha, 6.1%), permanent mono crops (29,672 ha, 4.4%), natural bush (14,860 ha, 2.3%), and planted trees (13,015 ha, 2%). The remaining land area was put to other types of land use, (Chart 3.12).

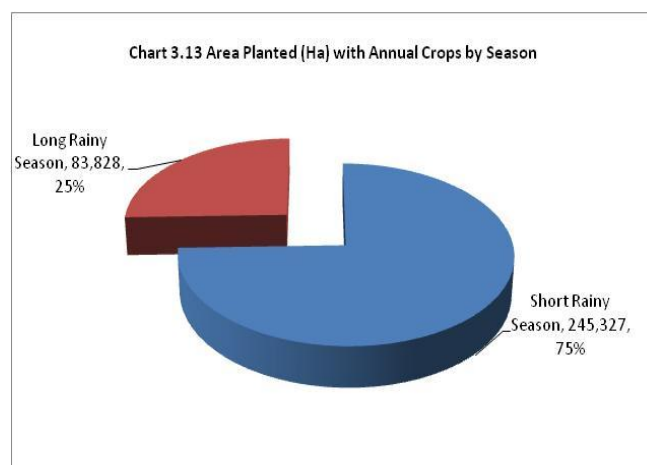


3.3 Annual Crops and Vegetable Production

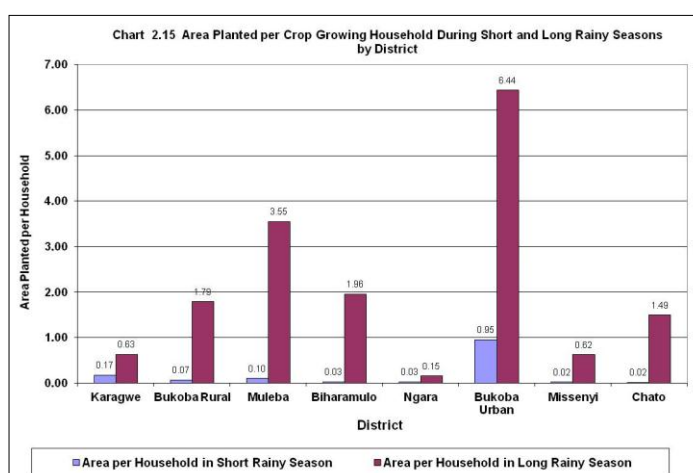
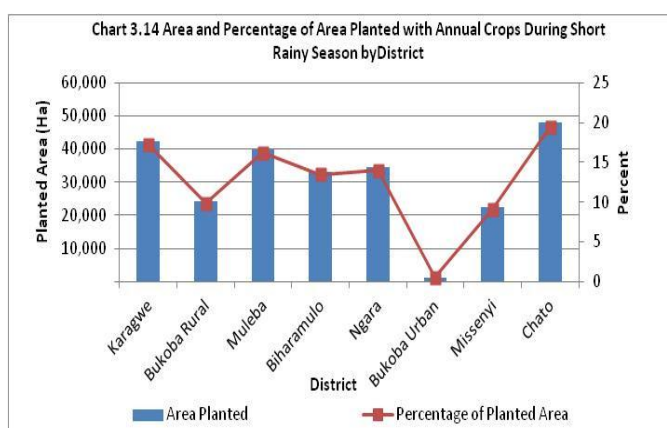
The region has two rainy seasons, namely, the short rainy season (September to December) and the long rainy season (March to May). With the exception of some irrigated annual crops and vegetables grown in the dry season, the rest of the crops are grown during the wet season.

3.3.1 Area Planted

The total area planted with annual crops and vegetables was 329,155 hectares, out of which 245,327 hectares (75%) were planted during the short rainy season and 83,828 hectares (25%) were planted during the long rainy season, (Chart 3.13).

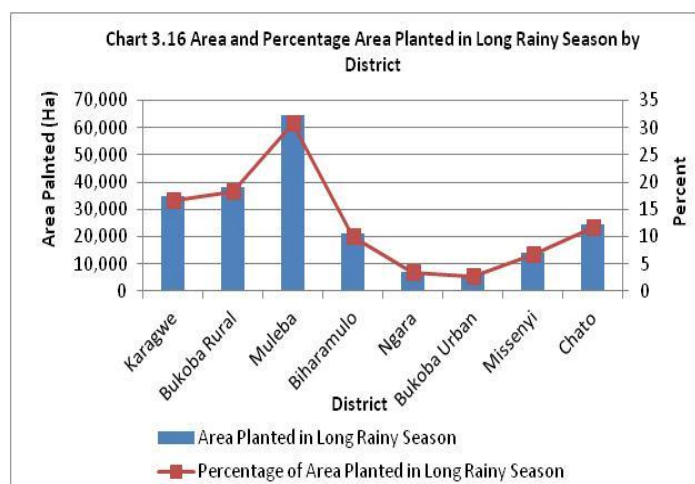


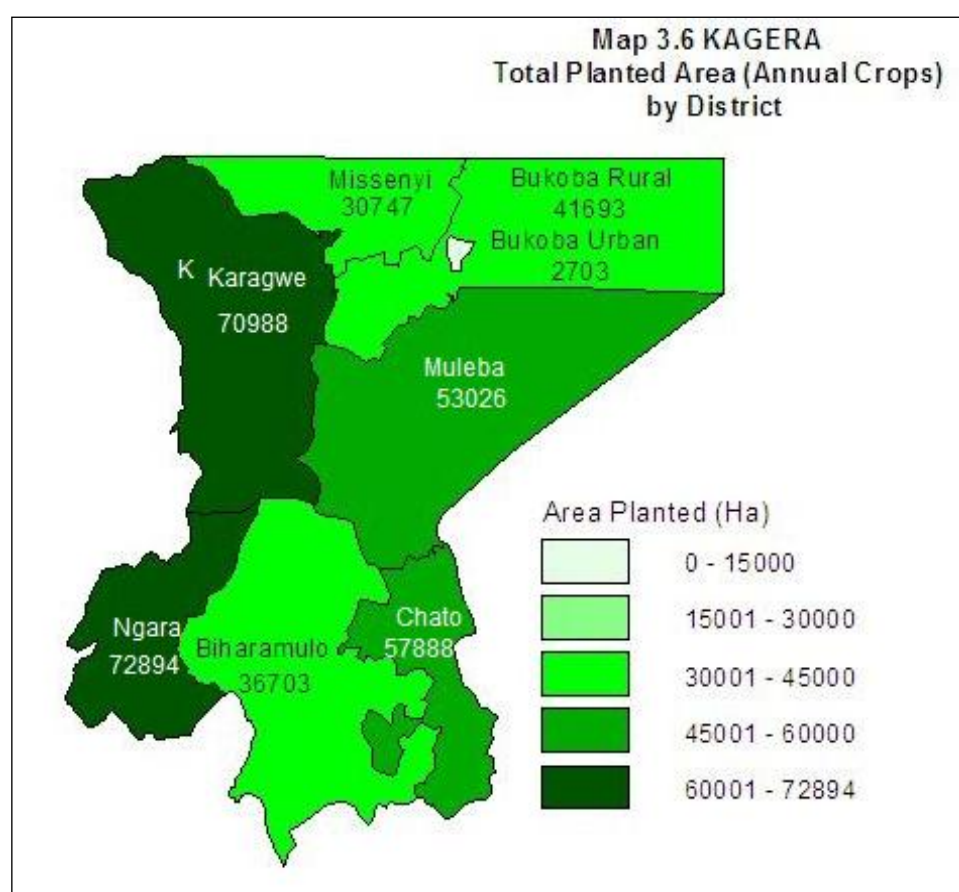
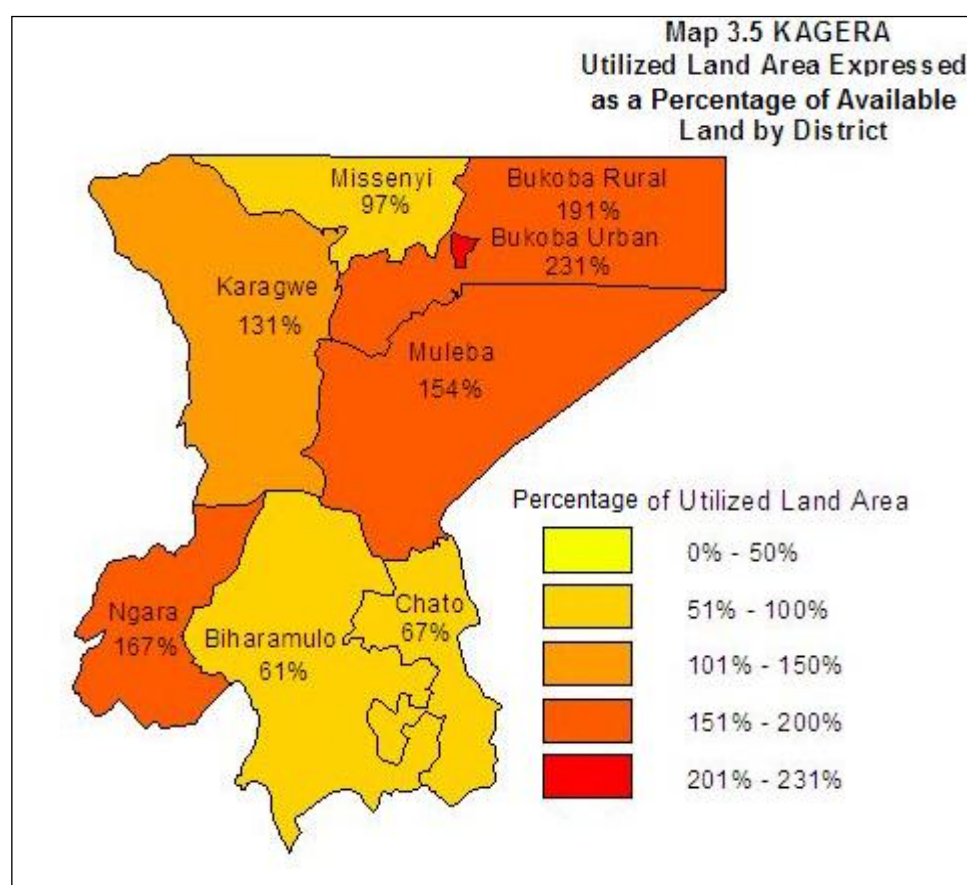
Chato district had the largest area planted with annual crops during the short rainy season (47,854 ha, 19.5%) followed by Karagwe district (42,238 ha, 17.2%). The smallest area planted with annual crops during the short rainy season was in Bukoba Urban (1,233 ha, 0.5%), (Chart 3.14). For both two seasons, the district with the largest area planted with annual crops was Karagwe (68,313 ha, 21%) while the district with the smallest area planted with annual crops was Bukoba Urban (1,499 ha, 0.5%). Of the total area planted with annual crops, pulses occupied the largest area (143,970 ha, 44%) followed by cereals (129,314 ha, 39%), roots and tubers (27,613 ha 8%), oil seeds and oil nuts (15,043 ha, 5 %), cash crops (7,192 ha 2%) and fruits and vegetables (6,023 ha, 2%).



During the short rainy season, Bukoba Urban district had the largest area planted with annual crops per crop growing household (0.95 ha) followed by Karagwe (0.17 ha) and Muleba district (0.10). Missenyi and Chato districts had the smallest area (0.02) each. In the long rainy season, Bukoba Urban district had the largest area (6.44 ha) and Ngara had the smallest (0.15 ha), (Chart 3.15).

The district with the largest area planted during the long rainy season was Muleba (64,447 ha, 31%) followed by Bukoba Rural (38,158 ha, 18%) and Karagwe (34,912 ha, 17%). The smallest planted area during the season was in Bukoba Urban (5,924 ha 3%), (Chart 3.16).



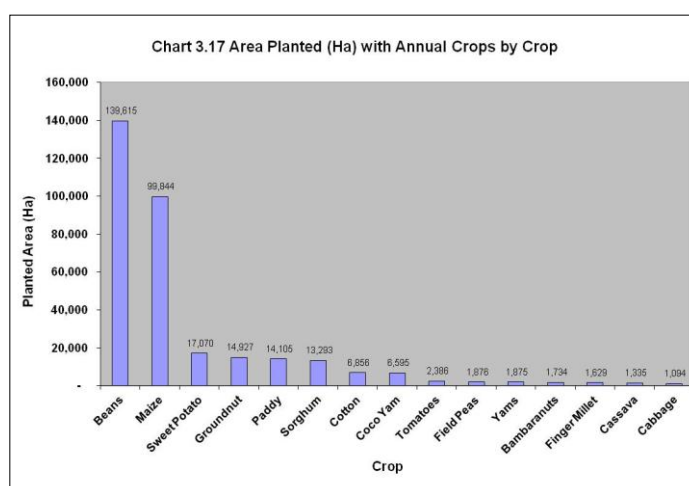


Analysis of the Most Important Crops

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

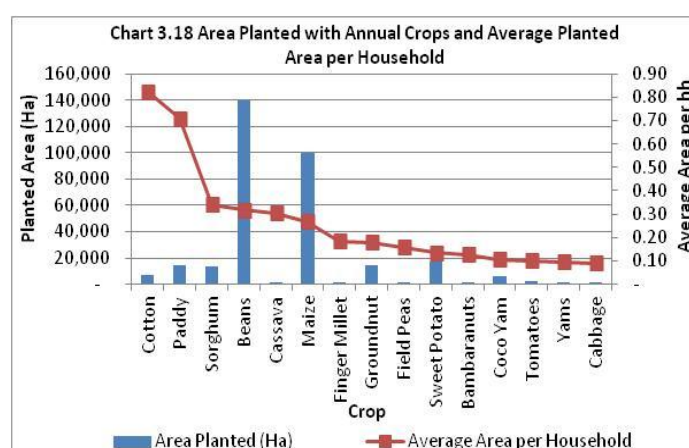
3.3.2 Crop Importance

Beans was the dominant annual crop grown in the region with a planted area of 139,615 hectares which accounted for 37.5% of the total area (372,161 ha) planted with annual crops in the region. Area planted with beans has decreased by 7.5% compared to 2002/2003 agricultural census results. Beans were followed by maize with planted area of 99,844 hectares



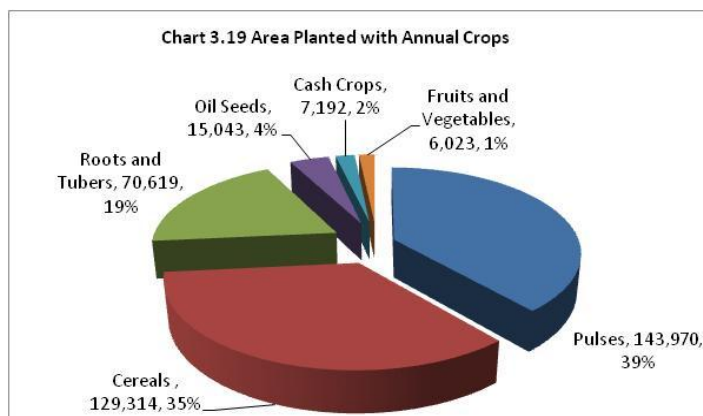
(26.8%). Other annual crops in order of their importance (based on area planted) were cassava, sweet potatoes, groundnuts, paddy, sorghum, cotton, coco yam, tomatoes, field peas, yams, bambaranuts, finger millet, cabbage, bitter aubergine, Irish potatoes, amaranths, bulrush millet, tobacco, chilies, cowpeas, pumpkins, mung bean, onions, okra, cucumber, chick peas, spinach, soya beans, green gram, egg plant, water melon, simsim, carrot, barley, sunflower, wheat and ginger, (Chart 3.17).

The largest planted area per growing household was on cotton (0.82 ha) followed by paddy (0.71 ha), sorghum (0.34 ha), beans (0.32 ha), cassava (0.29 ha) and maize (0.27 ha). Other annual crops had less than 0.2 hectares with ginger having the smallest average area planted per household (0.04 ha), (Chart 3.18).

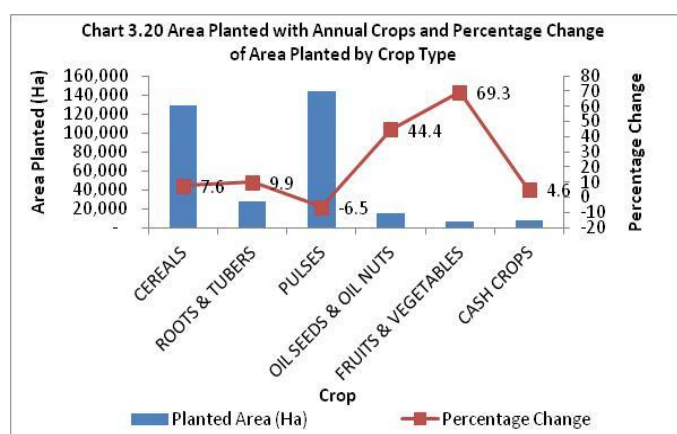


3.3.3 Crop Types

Pulses were the main crops grown in the region accounting for 38% (143,970 ha) of the total planted area followed by cereals (129,314 ha, 35%), roots and tubers (70,619 ha, 19%), oil seeds and nuts (15,043 ha, 4%), cash crops (7,192 ha, 2%), while fruits and vegetables had the lowest percentage of the planted area with 6,023 hectares (1%), (Chart 3.19).



The results show that production of pulses has decreased by 6.5%; cereals has increased by 7.6%, roots and tubers increased by 9.9%, oil seeds and oil nuts increased by 44.4%, fruits and vegetables has increased by 69.3% and cash crops increased by 4.6%, (Chart 3.20).



Area Planted and Yield of Major Cereals

A total area of 129,314 hectares was planted with cereals, out of which, the largest area was planted during the short rainy season (101,733 ha) as compared to only 27,581 hectares which were planted in the long rainy season. During the two seasons, the largest area of cereals was planted with maize (99,844 hectares) followed by paddy (14,105 ha), sorghum (13,293 ha) and finger millet (1,629 ha). The highest crop yield was obtained from paddy (2.2 tons/ha) followed by barley (1.8 tons/ha), sorghum and finger millet each with 1.3 tons/ha, (Table 3.6a, Chart 3.21).

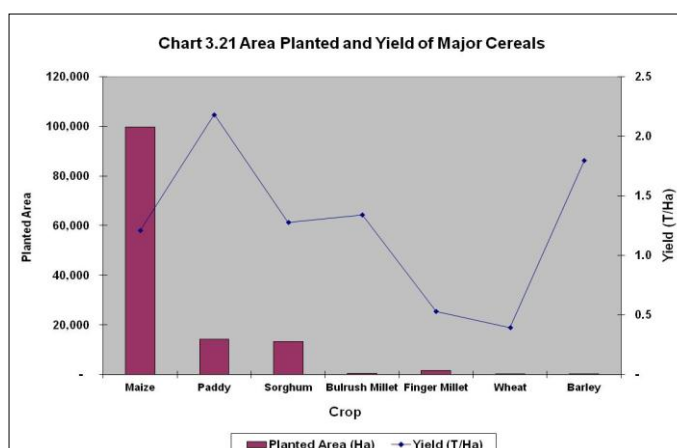


Table 3.6a: Area, Production and Yield of Cereal Crops by Season

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)
Maize	88,120	108,856	1.2	11,725	12,292	1.0	99,844	121,148	1.2
Paddy	8,017	18,351	2.3	6,088	12,454	2.0	14,105	30,805	2.2
Sorghum	4,122	4,927	1.2	9,171	12,074	1.3	13,293	17,001	1.3
Bulrush Millet	413	553	1.3	.	.	-	413	553	1.3
Finger Millet	1,045	489	0.5	584	376	0.6	1,629	865	0.5
Wheat	.	.	-	13	5	0.4	13	5	0.4
Barley	17	30	1.8	.	.	-	17	30	1.8
CEREALS	101,733	133,206	1.3	27,581	37,200	1.3	129,314	170,406	1.3

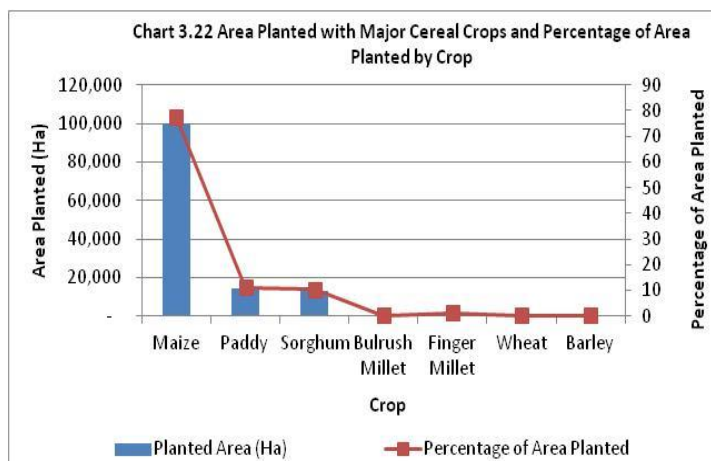
Chato had the largest area planted with cereals (36,195 ha) followed by Biharamulo (24,791 ha), Karagwe (20,787 ha), Ngara (16,025 ha), Muleba (14,656 ha), Missenyi (9,621 ha), Bukoba Rural (6,804 ha), and Bukoba Urban (435 ha). The average yield of cereals was 1.8 tons/ha with Chato having the highest yield of cereals (1.8 tons/ha) while Bukoba Rural had the lowest yield (0.8 tons/ha), (Table 3.6b).

Table 3.6 b: Area, Production and Yield of Cereal Crops by District

District	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)
Karagwe	13,497	17,865	1.3	7,291	8,726	1.2	20,787	26,590	1.3
Bukoba Rural	6,227	5,070	0.8	577	610	1.1	6,804	5,680	0.8
Muleba	13,629	14,912	1.1	1,027	897	0.9	14,656	15,809	1.1
Biharamulo	20,104	24,427	1.2	4,687	5,163	1.1	24,791	29,590	1.2
Ngara	12,329	11,127	0.9	3,696	2,887	0.8	16,025	14,014	0.9
Bukoba Urban	336	219	0.7	99	162	1.6	435	381	0.9
Missenyi	6,987	9,217	1.3	2,633	3,213	1.2	9,621	12,429	1.3
Chato	28,624	50,370	1.8	7,571	15,544	2.1	36,195	65,914	1.8
Total	101,733	133,206	1.8	27,581	37,200.38		129,314	170,406	1.8

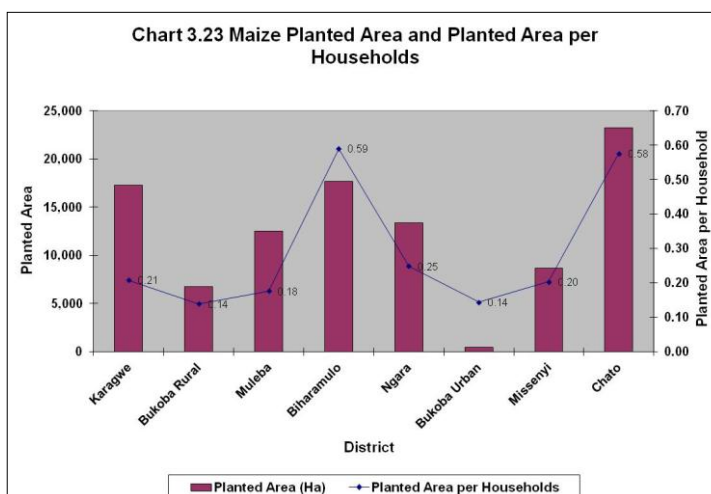
Cereal Crop Production

The total area planted with cereals was 129,314 hectares of which maize occupied 99,844 ha (77%) of the total area planted with cereal crops followed by paddy (14,105 ha, 10.9%), sorghum (13,293 ha, 10.3%), finger millet (1,629 ha, 1.3%), bulrush millet (413 ha, 0.3%), barley (17 ha, 0.01%) while wheat recorded the smallest percentage (13 ha, 0.01%), (Chart 3.22).



3.3.3.1.1 Maize

Maize dominated the production of cereal crops in the region. There were 372,318 households engaged in maize production. Karagwe had the largest number of households engaged in maize production (82,858 hh, 22.3%) while Bukoba Urban recorded the smallest number of households (2,991 hh, 0.8%).

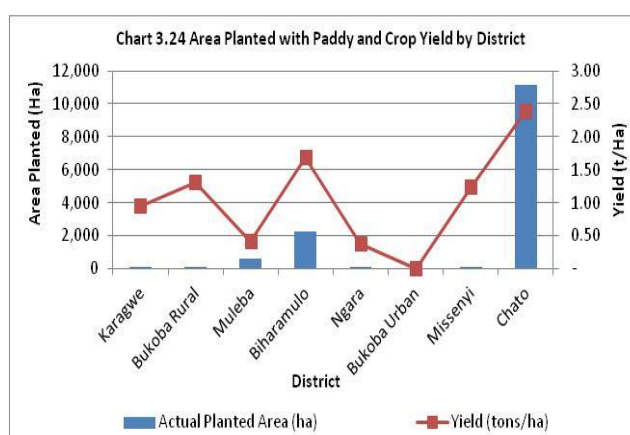


The total area planted with maize was 99,844 ha resulting in a production of 121,148 tons with crop yield of 1.2 tons/ha. Production of maize in the region has increased by 20,835 tones equivalent to 21 percent compared to 2002/2003 production. The largest area planted with maize was recorded in Chato (23,250 ha, 23.3%) while Bukoba Urban had the smallest area (429 ha, 0.4%), (Map 3.10). Furthermore, the highest yield of maize was obtained in Chato (1.6 ton/ha) while Bukoba Rural recorded the lowest yield (0.83 ton/ha), (Map 3.09).

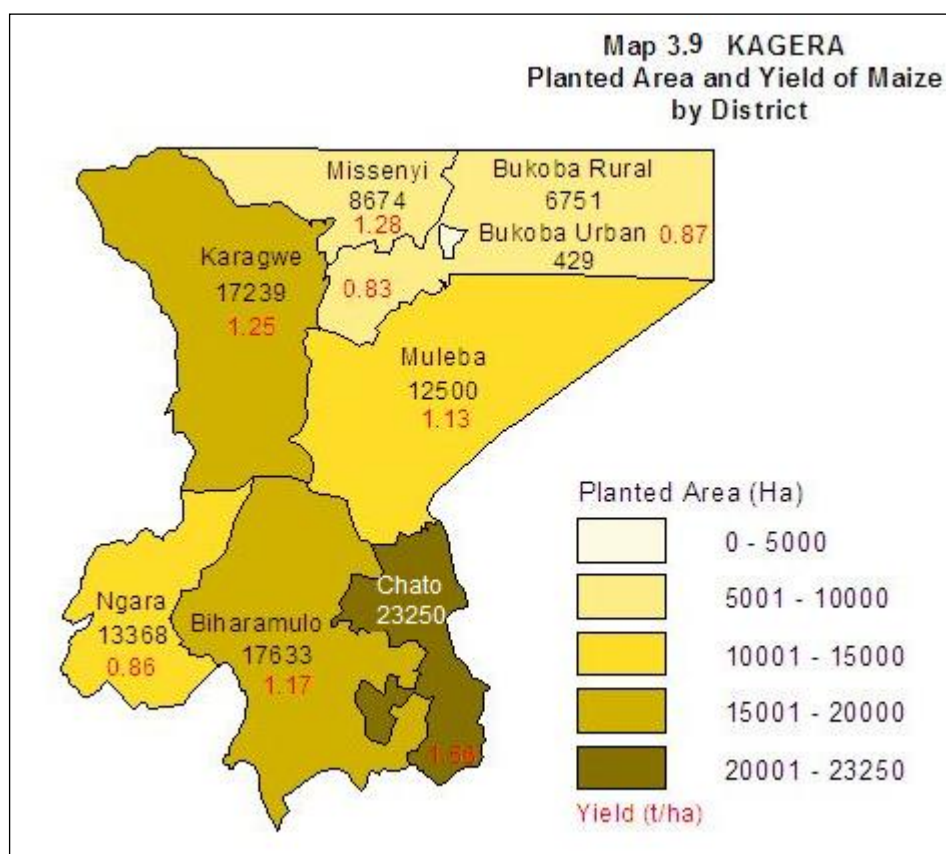
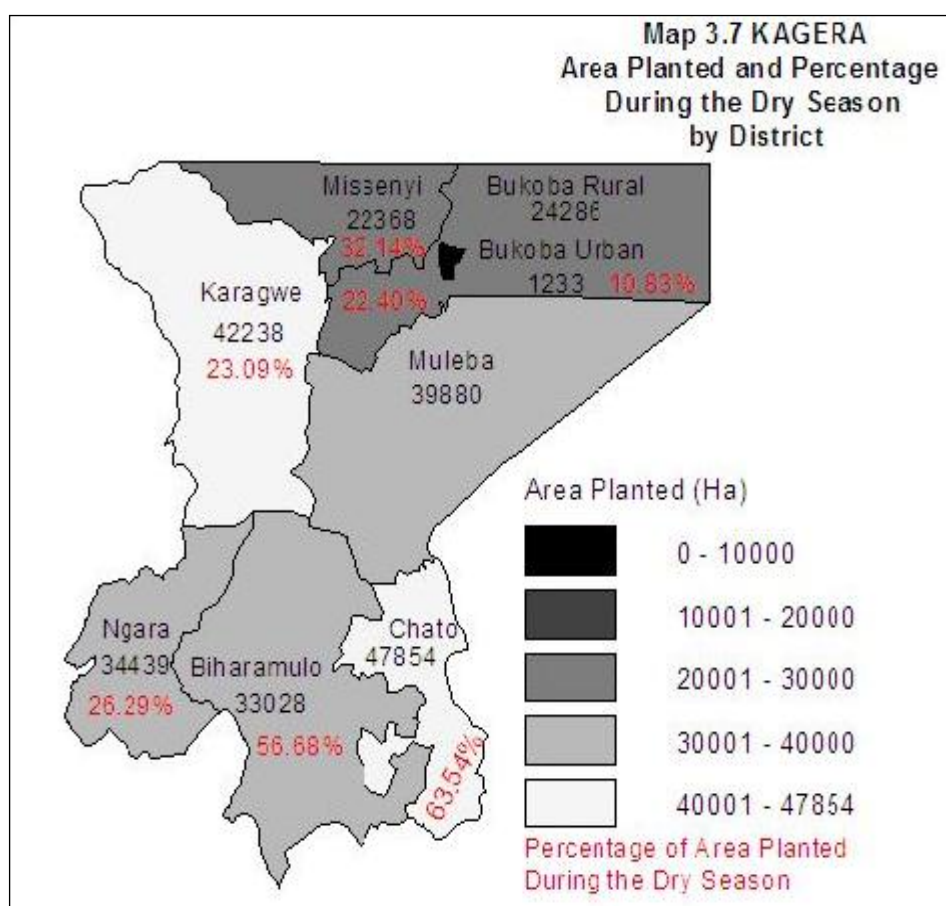
The average area planted with maize per household was 0.27 ha. Biharamulo had the largest planted area per maize growing household (0.59 ha) followed by Chato (0.58 ha), Ngara (0.25 ha), Karagwe (0.21 ha), Missioni (0.20 ha), Muleba (0.18 ha) while Bukoba Rural and Bukoba Urban each with (0.14 ha) recorded the smallest area per maize growing household in the region, (Chart 3.23, Map 3.10).

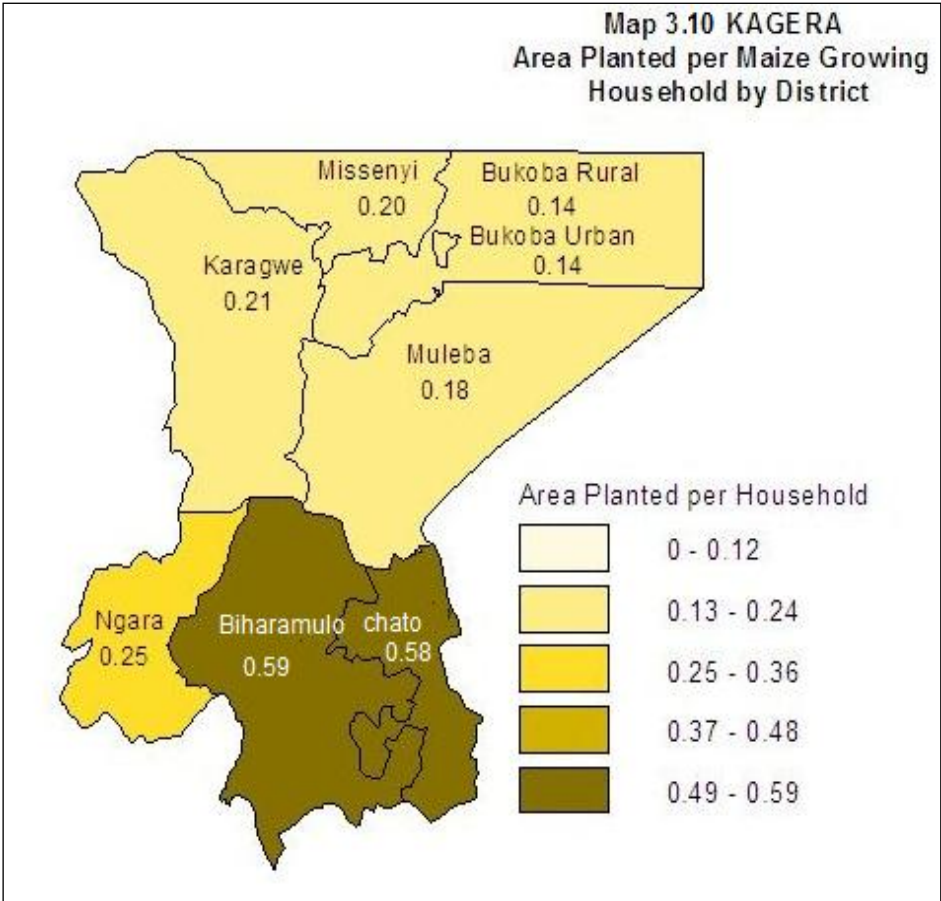
3.3.3.1.2 Paddy

Paddy was the second most important cereal crop grown in the region after maize. There were a total of 19,933 households engaged in paddy production with Chato having the largest number of households producing paddy (15,389, 77.2%) and the smallest number of households engaged in paddy production was in Missenyi (92 hh, 0.5%) while no paddy production was reported in Bukoba Urban. The total area planted with paddy was 14,105 hectares with total production of 30,805 tons with crop yield of 2.2 tons/ha. Production of paddy in the region has increased by 20,346 tones equivalent to 194 percent compared to 2002/2003.



The largest area planted with paddy was recorded in Chato (11,117 ha, 78.8%). Furthermore, the highest yield of paddy was obtained in Chato (2.4 ton/ha) while Ngara and Muleba districts each recorded the lowest yield of paddy (0.4 ton/ha), (Chart 3.24).



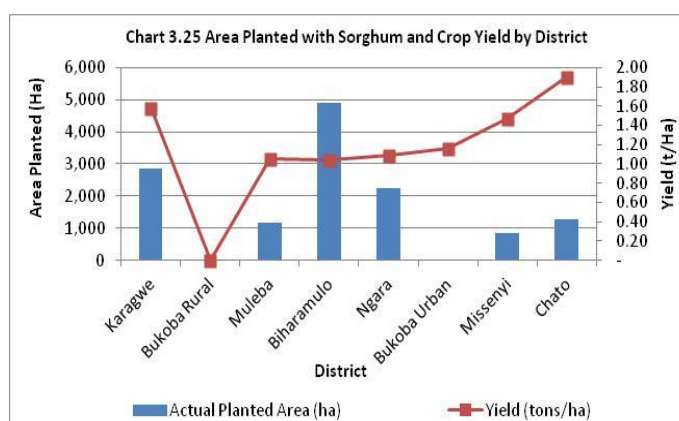


3.3.3.1.3 Sorghum

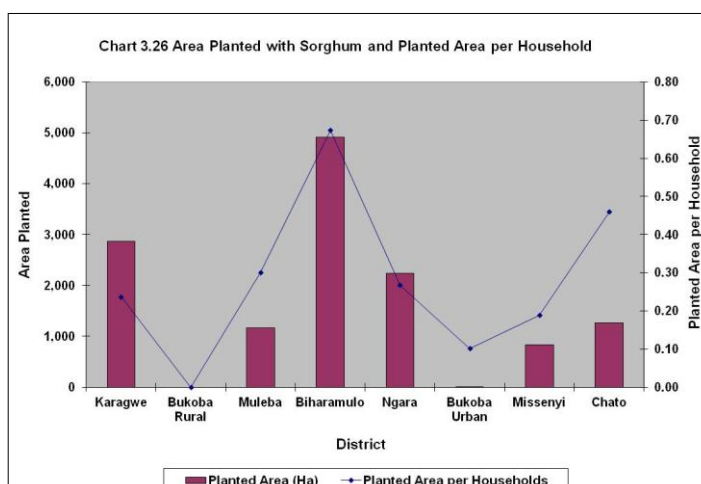
Sorghum was the third most important cereal crop in the region. There were a total of 38,870 households engaged in sorghum production, with Karagwe having the largest number of households (12,103 hh, 31%). On the other hand, Bukoba Urban had the smallest number of households involved in sorghum production (58 hh, 0.1%) while no households were reported in sorghum production in Bukoba Rural.

The total area planted with sorghum was 13,293 hectares resulting in a production of 17,001 tons with crop yield of 1.3 tons/ha. Production of sorghum in the region has increased by 9,255 tons equivalent to 119.5 percent increase compared to 2002/03 production.

Biharamulo recorded the largest planted area with sorghum (4,912 ha, 37%), followed by Karagwe (2,871 ha, 21.6%), Ngara (2,240 ha, 16.9%), Chato (1,265 ha, 9.5%), Muleba (1,165 ha, 8.7%), Missenyi (835 ha, 6.3) and Bukoba Urban (6 ha, 0.1%), (Chart 3.25). The highest yield of sorghum was reported in Chato (1.90 ton/ha) and the lowest yield was recorded in Biharamulo (1.05 ton/ha), (Map 3.11).

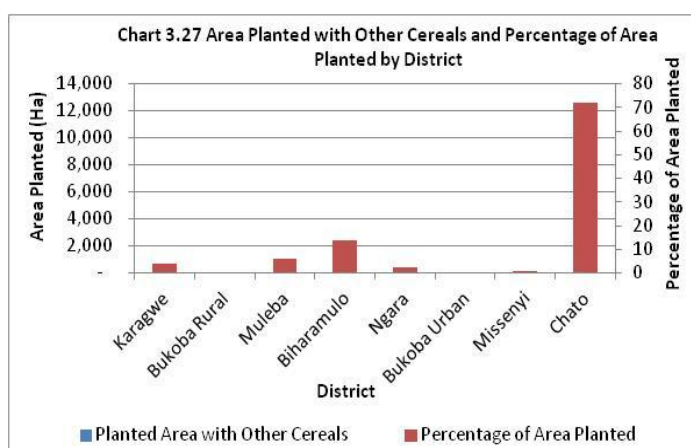


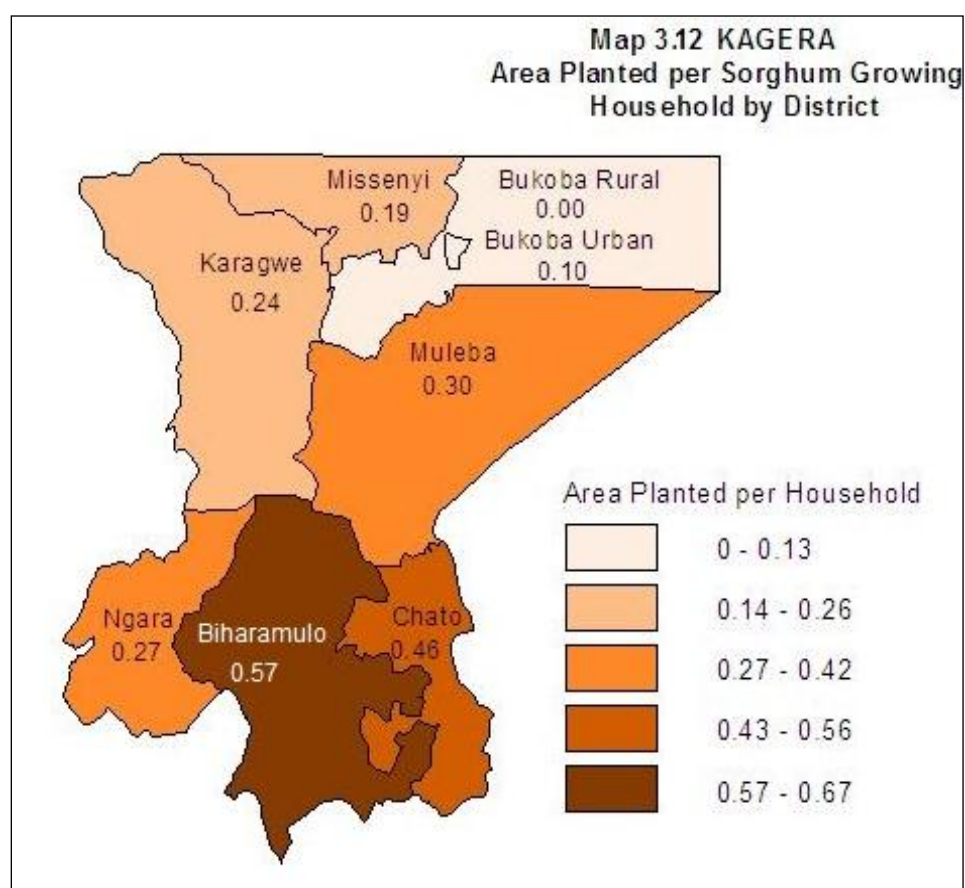
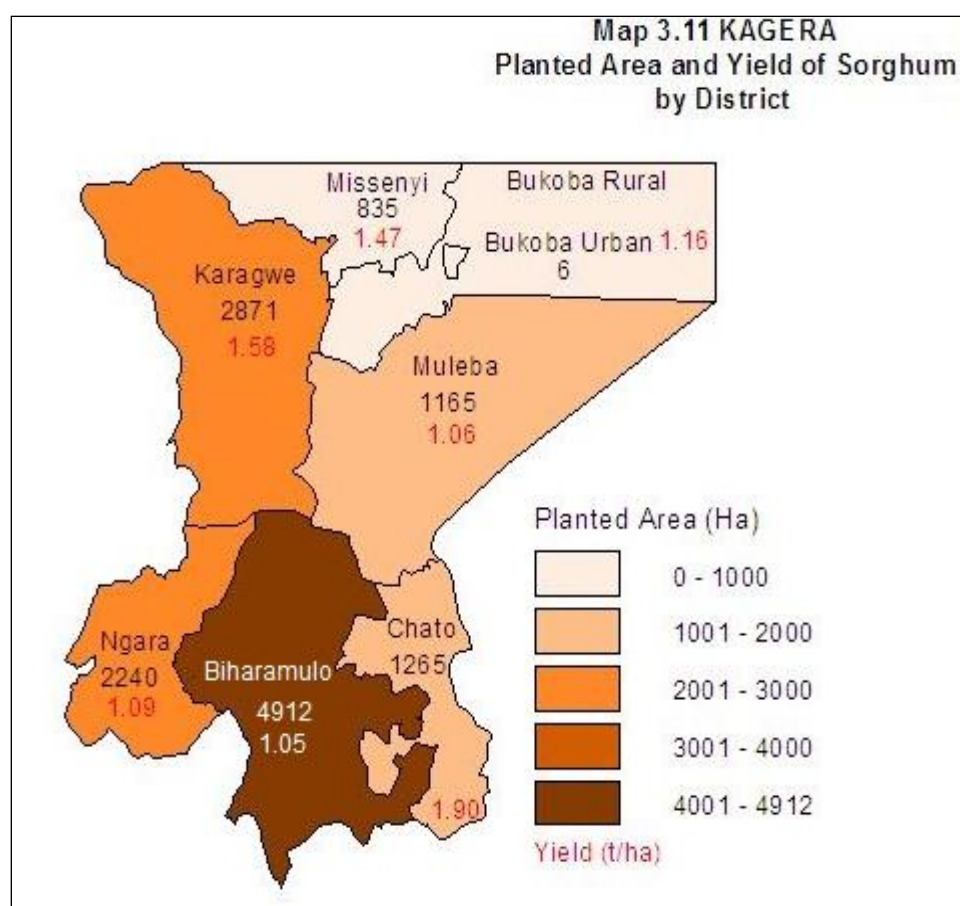
The largest area planted per sorghum growing household was recorded in Biharamulo district (0.67 ha) followed by Chato (0.46 ha), Muleba (0.30 ha), Ngara (0.27 ha), Karagwe (0.24 ha), Missenyi (0.19 ha), and Bukoba Urban (0.10 ha), (Chart 3.26, Map 3.12).



3.3.3.1.4 Other Cereals

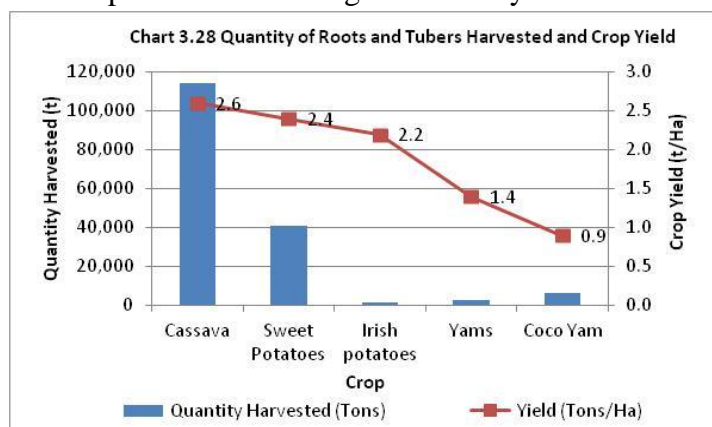
Other cereals planted in the region were bulrush millet, finger millet, wheat and barley. A total of 16,176 hectares were planted with other cereals most of which were cultivated in Chato district (11,681 ha, 72%) followed by Biharamulo (2,246 ha, 14%). Bukoba Rural had the smallest area planted with other cereals (52 ha, 0.3%). In Bukoba Urban there was no production of other cereals, (Chart 3.27).



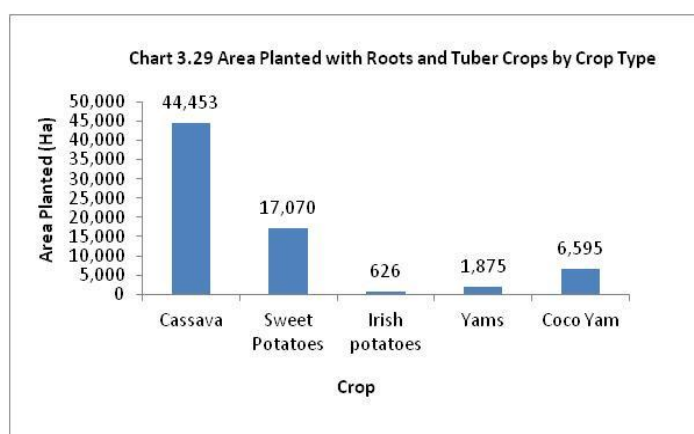


3.3.3.2 Roots and Tuber Crops Production

The total production of roots and tubers in the region was 165,333 tons from a planted area of 70,619 hectares by 368,400 households. Cassava production was higher than any other roots and tuber crops in the region with a total production of 114,120 tonnes representing 69 percent of the total roots and tuber crops produced followed by sweet potatoes (41,156 tones; 25%). Other roots and tuber crops contributed less than 10% of the total production. Percentage of sweet potato production has increased by 21% and cassava production has increased by 110% compared to the census results of 2002/2003.



The estimated yield was highest for cassava (2.6 t/ha) followed by sweet potatoes (2.4 t/ha), Irish potatoes (2.2 tons/ha), yams (1.4 tons/ha) and coco yams (0.9 tons/ha), (Chart 3.28 and Table 3.7).



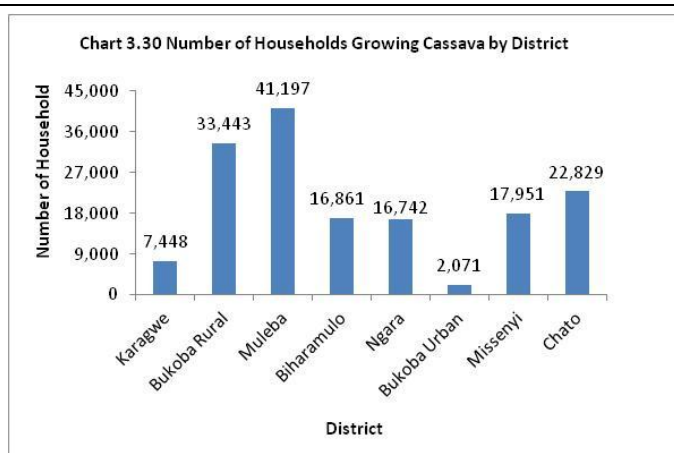
The largest area was planted with cassava (44,453 ha), followed by sweet potatoes (17,070 ha), coco yam (6,595 ha), yams (1,875 ha) and Irish potatoes (626 ha), (Chart 3.29; Table 3.7).

Table 3.7: Area Planted and Yield of Roots and Tuber Crops by Season

Crop	Total Number of households	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	0	0	0	0	44,453	114,120	2.6	44,453	114,120	2.6
Sweet Potatoes	126,844	10,506	24,635	2	6,564	16,522	2.5	17,070	41,156	2.4
Irish potatoes	5,797	402	583	1	224	809	3.6	626	1,392	2.2
Yams	19,987	1,300	1,951	2	574	746	1.3	1,875	2,697	1.4
Coco Yam	61,634	5,399	4,656	1	1,197	1,311	1.1	6,595	5,967	0.9
Total	368,400	17,607	31,824	2	53,012	133,508	2.5	70,619	165,333	2.3

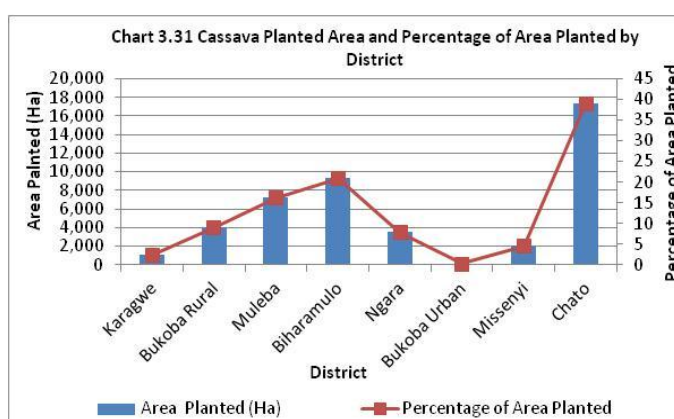
3.3.3.2.1 Cassava

The number of households growing cassava in region was 154,138. The highest number was recorded in Muleba, followed by Bukoba Rural, Chato, Missenyi, Ngara, Biharamulo, Karagwe and Bukoba Urban, (Chart 3.30).



The total production of cassava during the census year was 114,120 tons from a planted area of 44,453 hectares resulting in a yield of 2.6 t/ha. The area planted with cassava accounted for 12% of the total area planted with annual crops and vegetables in the census year. Based on these results cassava production has increased by 9 percent compared to 2002/03 production.

Chato district had the largest area planted with cassava in the region with 17,293 hectares accounting for 38.9% of the total planted area followed by Biharamulo (9,284 ha, 20.9%), Muleba (7,200 ha, 16.2%), Bukoba Rural (3,998 ha, 9%), Ngara (3,487 ha, 7.8%), Missenyi (2,050 ha, 4.6%) and Karagwe (1,022 ha, 2.3%).

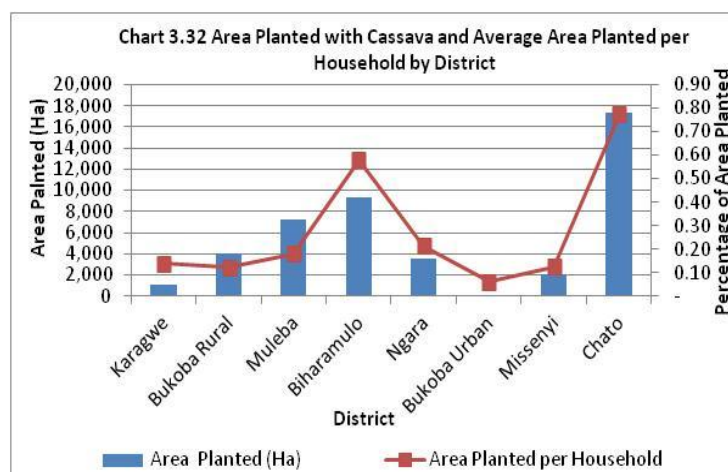


The smallest area of cassava was in Bukoba Urban (120 ha, 0.3%), (Chart 3.31 and Table 3.8). The highest yield of cassava was recorded in Bukoba Urban (6 tons/ha) while the lowest yield was obtained in Karagwe (1.7 ton/ha).

Table 3.8: Area, Production and Yield of Cassava by District

District	Number of Household	Area Planted (Ha) Mono + Mixed Area	Quantity Harvested (tons)	Yield(Tons/Ha)
Karagwe	7,448	1,022	1,704	1.7
Bukoba Rural	32,854	3,998	17,171	4.3
Muleba	40,178	7,200	18,889	2.6
Biharamulo	16,077	9,284	19,104	2.1
Ngara	16,485	3,487	7,665	2.2
Bukoba Urban	2,013	120	586	4.9
Missenyi	16,662	2,050	9,038	4.4
Chato	22,421	17,293	39,962	2.3
Total	154,138	44,453	114,120	2.6

The average area planted with cassava per household was 0.3 hectares. Chato district had the largest planted area per cassava growing household (0.8 ha) followed by Biharamulo (0.6 ha), Muleba (0.2 ha), Ngara (0.2 ha), Bukoba Rural (0.1 ha), Bukoba Urban, (0.1 ha) and Missenyi (0.1 ha) (Chart 3.32).



3.3.3.2.2 Sweet Potatoes

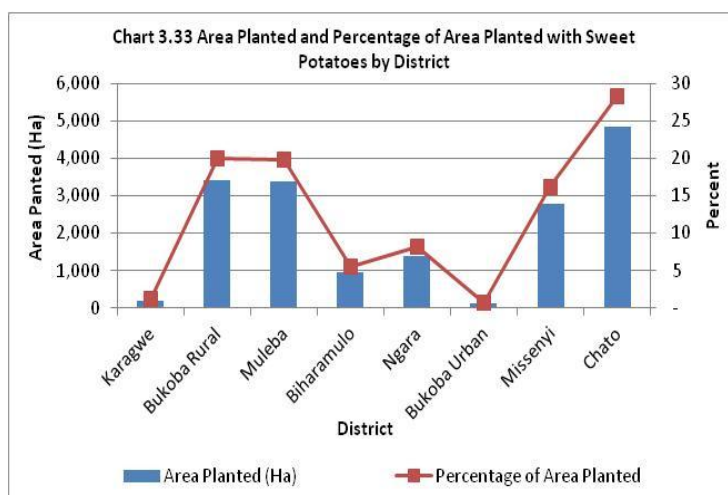
The number of households growing sweet potatoes in the region was 126,844. This accounted for 34.4% of the total number of households producing roots and tuber crops in the region. Bukoba Rural had the largest number of households engaged in sweet potato production (34,032hh, 26.8%) while Bukoba Urban had the smallest number of households involved in sweet potatoes production (633hh, 0.5%). The total production of sweet potatoes in the region was 41,156 tons from a planted area of 17,070 hectares resulting in a yield of 2.4 tons/ha, (Table 3.9).

Table 3.9: Number of Households, Area Planted, Production and Yield of Sweet Potatoes by District

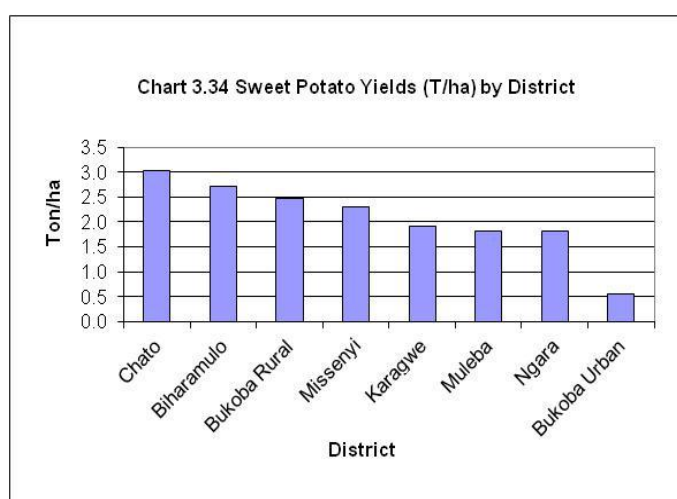
District	Number of Households	Area Planted (Ha)	Quantity Harvested (T)	Yields (T/ha)	Average Planted Area per Household
Karagwe	2,327	201	384.5	1.92	0.09
Bukoba Rural	34,032	3,402	8,394.21	2.47	0.1
Muleba	28,349	3,392	6,157.79	1.82	0.12
Biharamulo	5,960	954	2,592.02	2.72	0.16
Ngara	13,523	1,400	2,547.16	1.82	0.1
Bukoba Urban	633	114	64.19	0.56	0.18
Missenyi	25,407	2,777	6,380.19	2.3	0.11
Chato	16,612	4,831	14,636.33	3.03	0.29
Total	126,844	17,070	41,156.38	2.41	0.13

Chato had the largest area planted with sweet potatoes (4,831 ha, 28.3%) followed by Bukoba Rural (3,402 ha, 19.93%), Muleba (3,392 ha, 19.87%), Missenyi (2,777 ha, 16.27%), Ngara (1,400 ha, 8.20%), Biharamulo (954 ha, 5.59%) while Bukoba Urban had the smallest area (114 ha, 0.67%), (Chart 3.33).

This situation indicates that the area planted with sweet potatoes has decreased by 9.2% compared to 2002/2003 agriculture census results.



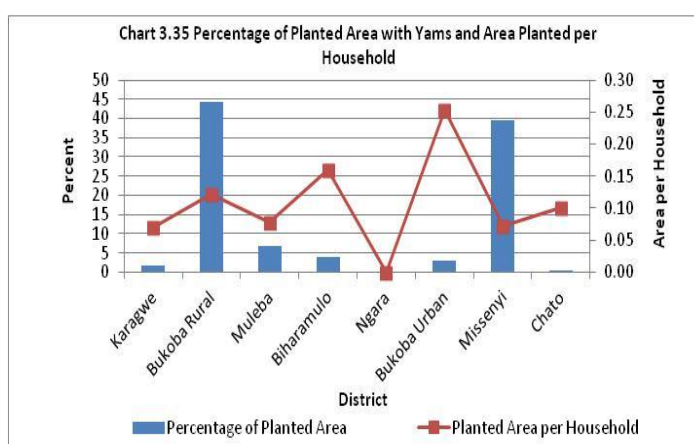
The average area planted with sweet potatoes per household was 0.13 hectares. The largest average area planted with sweet potatoes per household was recorded in Chato district (0.29 ha) while the smallest average area per household was recorded in Karagwe district (0.09 ha). The average yield of sweet potatoes was 2.41 ton/ha. The highest yield was recorded in Chato (3.03 ton/ha) while the lowest yield was recorded in Bukoba Urban (0.56 ton/ha), (Chart 3.34).



3.3.3.2.3 Yams

Yam production was in all the districts except Ngara where production was insignificant. A total of 19,987 households were engaged in yam production with 51.6% of them were in Missenyi followed by Bukoba Rural (34%) and Chato (0.5%). The total area planted with yam was 1,875

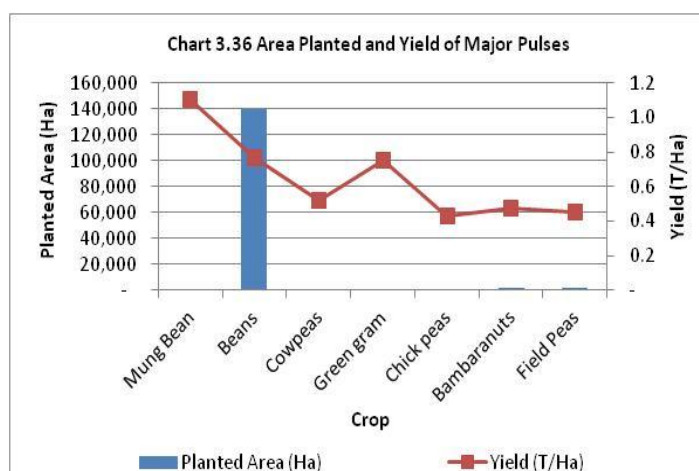
ha of which 2,697 tons were harvested. Bukoba Rural had the highest percentage area planted with yams (44.2%) followed by Missenyi (39.5%) while Chato had the lowest (0.6 %), (Chart 3.35).



The largest harvest was recorded in Bukoba Rural (1,127.2 tons) followed by Missenyi (1023.4 tons) and last was Chato (10.2 ton). However, the highest yield was reported in Biharamulo (2.57 ton/ha) followed by Karagwe (2.06 ton/ha) while Chato recorded the lowest yield (1 ton/ha).

3.3.3.3 Pulse Crops Production

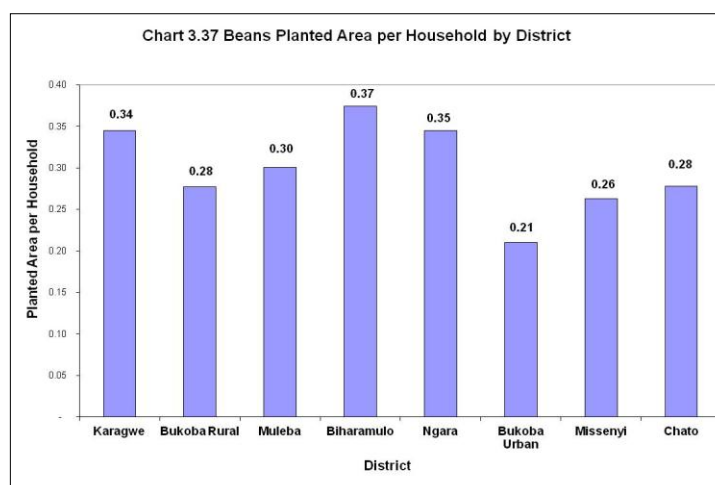
The total area planted with pulses was 143,970 ha of which the largest area was planted with beans (139,615 ha). On the other hand, the area under other types of pulses was not significant. The total production of pulses was 109,699 tons with the harvest of beans accounting for about 98% of total production. Besides, the average yield of pulses was 0.8 ton/ha. Mung beans recorded the highest yield (1.1 ton/ha) followed by green gram and beans (0.8 ton/ha), field peas, bambaranuts and cow peas (0.5 ton/ha) while chick peas recorded the lowest yield (0.4 ton/ha), (Chart 3.36).



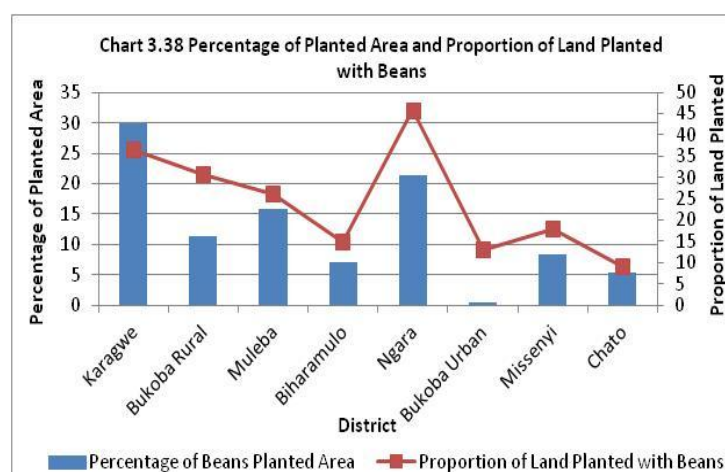
Besides, the average yield of pulses was 0.8 ton/ha. Mung beans recorded the highest yield (1.1 ton/ha) followed by green gram and beans (0.8 ton/ha), field peas, bambaranuts and cow peas (0.5 ton/ha) while chick peas recorded the lowest yield (0.4 ton/ha), (Chart 3.36).

Beans

A total of 139,615 ha of beans were cultivated by 440,089 households. The largest planted area was found in Karagwe (41,879 ha) and the smallest in Bukoba Urban (629 ha). The highest yield was recorded in Karagwe (1.01 ton/ha) while Bukoba Urban had the lowest (0.50 ton/ha), (Map 3.13). Also, the largest area planted with beans per household was in Biharamulo (0.37 ha) followed by Ngara (0.35 ha), Karagwe (0.34 ha), Muleba (0.30 ha), Bukoba Rural and Chato (0.28 ha), and Missenyi (0.26 ha) while Bukoba Urban had the smallest area (0.21 ha), (Table 10, Chart 3.37, Map 3.14).



The highest yield was recorded in Karagwe (1.01 ton/ha) while Bukoba Urban had the lowest (0.50 ton/ha), (Map 3.13). Also, the largest area planted with beans per household was in Biharamulo (0.37 ha) followed by Ngara (0.35 ha), Karagwe (0.34 ha), Muleba (0.30 ha), Bukoba Rural and Chato (0.28 ha), and Missenyi (0.26 ha) while Bukoba Urban had the smallest area (0.21 ha), (Table 10, Chart 3.37, Map 3.14).

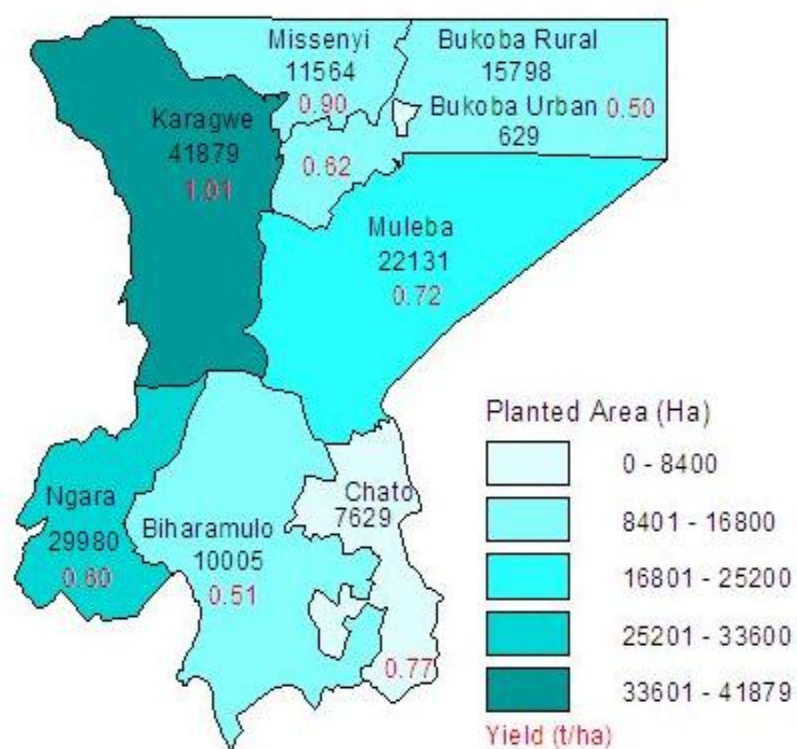


Ngara had the highest proportion of land planted with beans (45.90) followed by Karagwe (36.56), Bukoba Rural (30.71), Muleba (26.19), Missenyi (18.00), Biharamulo (14.84), Bukoba Urban (13.06) while Chato recorded the smallest proportion (9.19), (Table 3.10, Chart 3.38).

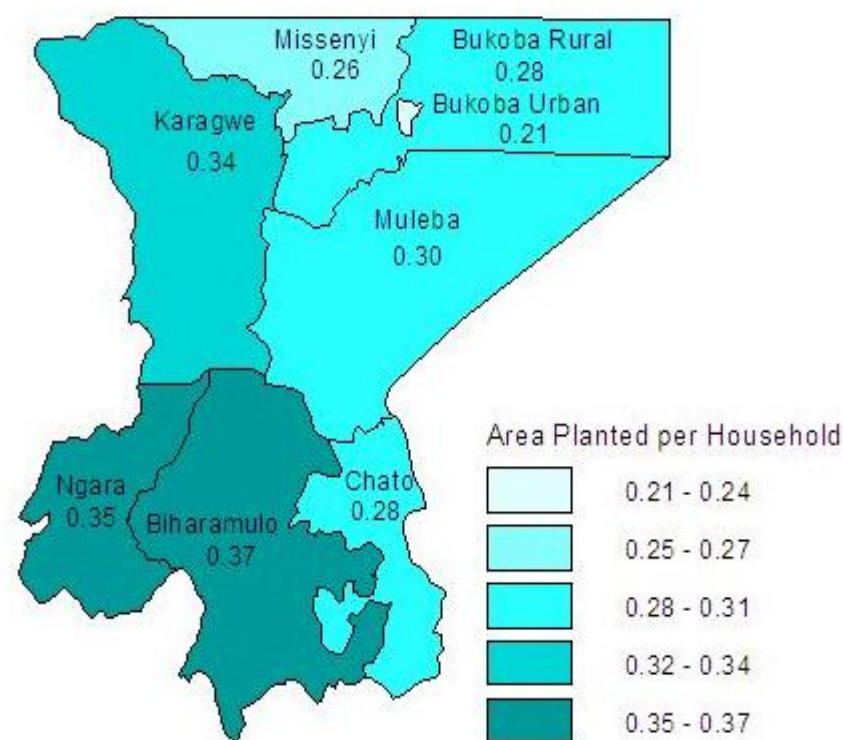
Table 3.10: Percent of Beans Planted Area and Planted Area per Household

District	Number of Households	Area Planted (Ha)	Quantity Harvested (T)	Yield (T/ha)	Total Planted Area	Percentage of Beans Planted Area	Proportion of Land Planted with beans	Planted Area per Household
Karagwe	121,494	41,879	42,205	1.01	114,559	30.00	36.56	0.34
Bukoba Rural	57,015	15,798	9,749	0.62	51,437	11.32	30.71	0.28
Muleba	73,625	22,131	15,850	0.72	84,499	15.85	26.19	0.30
Biharamulo	26,743	10,005	5,132	0.51	67,412	7.17	14.84	0.37
Ngara	86,803	29,980	17,904	0.60	65,321	21.47	45.90	0.35
Bukoba Urban	2,991	629	311	0.50	4,812	0.45	13.06	0.21
Missenyi	44,003	11,564	10,413	0.90	64,257	8.28	18.00	0.26
Chato	27,415	7,629	5,899	0.77	82,969	5.46	9.19	0.28
Total	440,089	139,615	107,463	0.77	535,266	100.00		0.32

Map 3.13 KAGERA
Planted Area and Yield of Beans by District



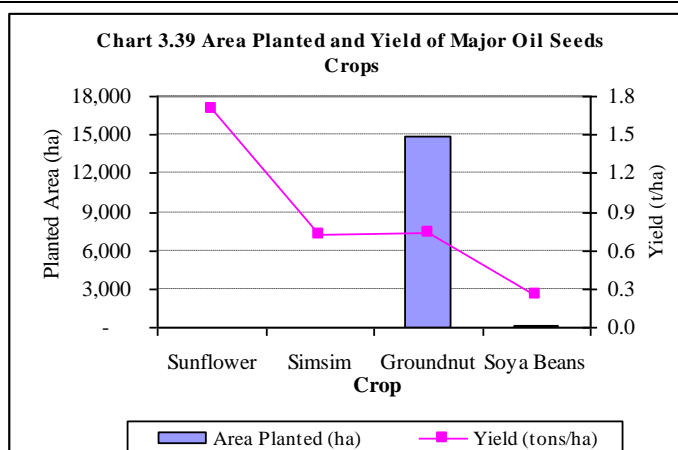
Map 3.14 KAGERA
Area Planted per Beans Growing Household by District



3.3.3.4 Oil Seeds Production

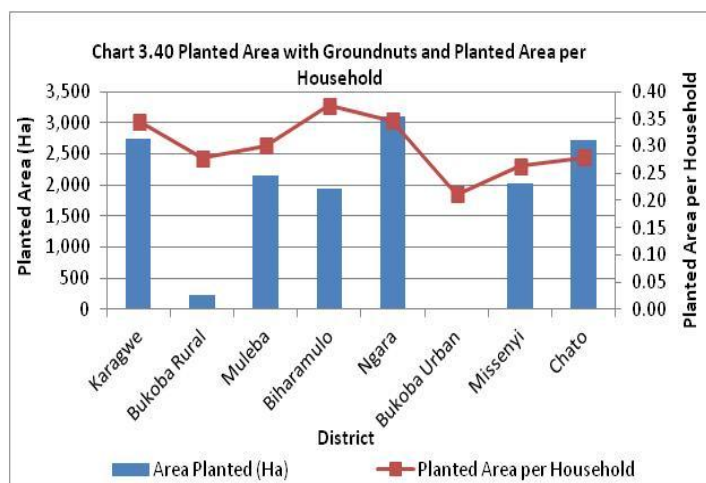
The total number of households involved in oil seed production was 84,000 with most of them planting groundnuts (82,980 households). The households cultivated a total of 15,043 ha of which the largest area was planted with groundnuts (14,927 ha) while the remaining area was for other crops including soya beans (75 ha), simsim (25 ha), and sunflower (16 ha).

The total production from oilseed crops was 11,068 tons with the largest quantities obtained from groundnuts (10,883 ton). Harvests from other oil seed crops were not significant. However, sunflower recorded the highest yield (1.7 ton/ha) followed by simsim and groundnuts (0.70 ton/ha) while soya beans recorded the lowest yield (0.3 ton/ha), (Chart 3.39).



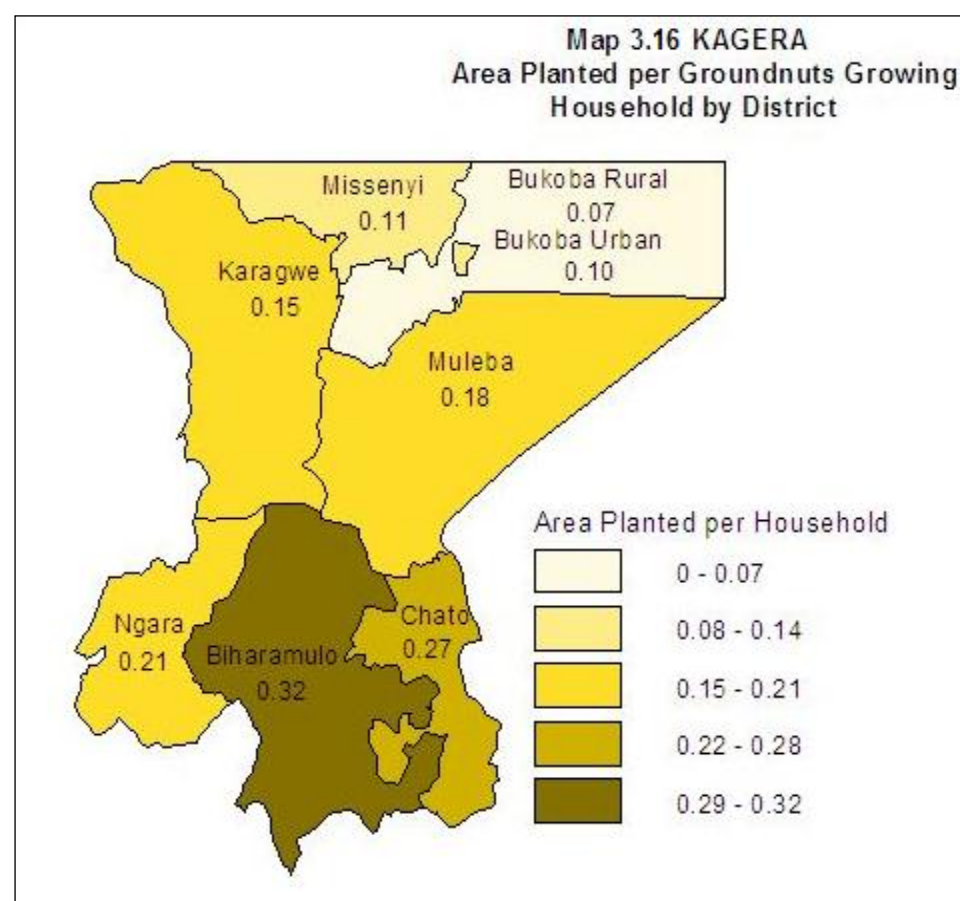
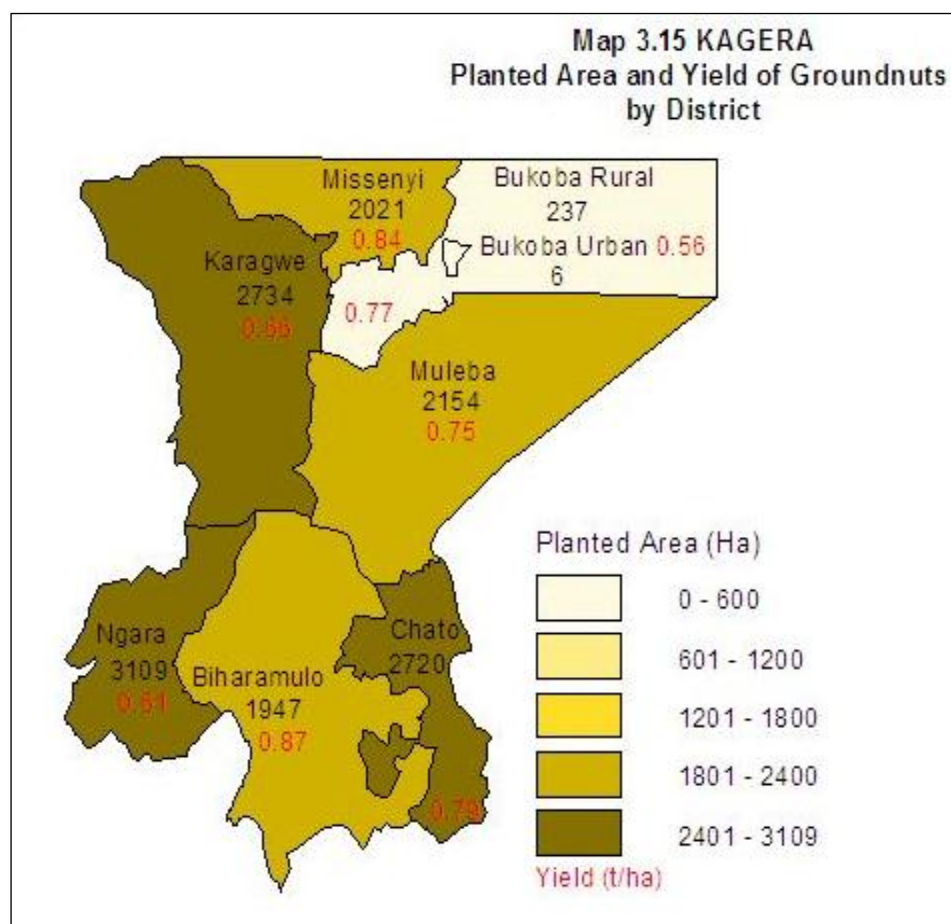
Groundnuts

A total of 82,980 households cultivated 14,927 hectares of groundnuts. Ngara had the largest area planted with groundnuts (3,109 ha) while the smallest area was in Bukoba Urban (6 ha), (Chart 3.40). The highest yield was obtained in Biharamulo (0.87 ton/ha) while the lowest yield was in Bukoba Urban (0.56 ton/ha), (Map 3.15).



The highest percentage of area planted with groundnuts was in Ngara (20.83%) followed by Karagwe (18.31%), Chato (18.22%), Muleba (14.43%), Missenyi (13.54%), Biharamulo (13.04%), Bukoba Rural (0.46%). Bukoba Urban had the lowest percentage (0.04%).

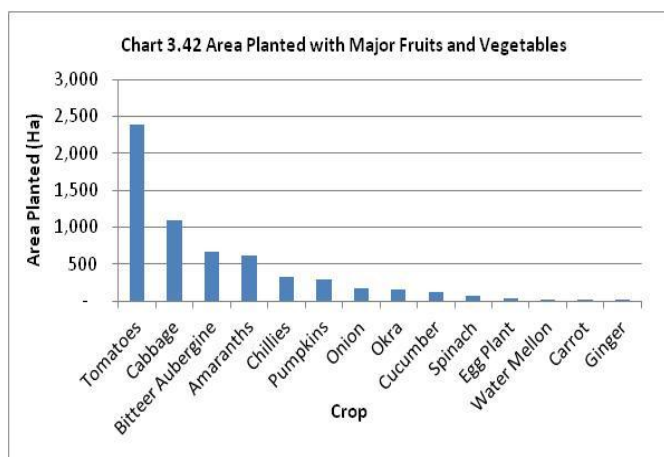
Biharamulo had the largest area planted per groundnut growing household (0.32 ha) followed by Chato (0.27 ha), Ngara (0.21 ha), Muleba (0.18 ha), Karagwe (0.15 ha), Missenyi (0.11 ha), Bukoba Urban (0.10 ha) while the smallest area planted per groundnut growing household was in Bukoba Rural (0.07 ha), (Chart 3.40, Map 3.16).



3.3.3.5 Fruits and Vegetables

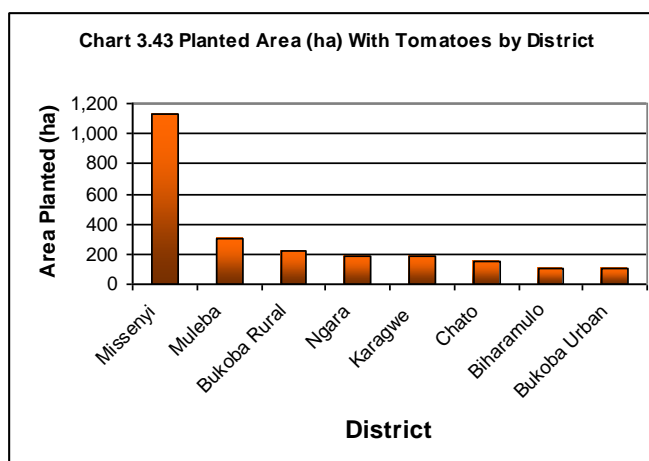
Production of fruits and vegetables was largely for the market. A total of 72,538 households produced different types of fruits and vegetables in an area of 6,023 ha. The percentage area per crop relative to total planted area with annual crops ranged from 0.6% (tomatoes) to 0.1% (pumpkins). The average planted area per household was 0.1 ha.

The largest area was for okra (0.20 ha per household) while ginger had the smallest area (0.04 ha per household). The largest area of fruits and vegetables was planted with tomatoes (2,386 ha, 0.64%) followed by cabbage (1,094 ha, 0.29%), bitter aubergine (671 ha, 0.18%), amaranthus (615 ha, 0.17%), chillies (333 ha, 0.09%), pumpkins (300 ha, 0.08%), onions (171 ha, 0.05%), okra (157 ha, 0.04%) and cucumber (126 ha, 0.03%). The category ‘others’ (170 ha) comprised of spinach (76 ha, 0.02%), eggplants (40 ha, 0.01%), water melon (25 ha, 0.01%), carrot (21 ha, 0.01%), and ginger (8 ha, 0.00%), (Chart 3.42).



3.3.3.5.1 Tomatoes

A total of 2,386 ha were planted with tomatoes by 23,548 households in the region. Tomato ranked third in the average area planted per household. Missenyi recorded the highest percentage of area planted with tomatoes (47%), followed by Muleba (13%), Bukoba Rural (9%), Ngara, Karagwe (8%), Chato, Biharamulo, and the least was Bukoba Urban, (Chart 3.43).



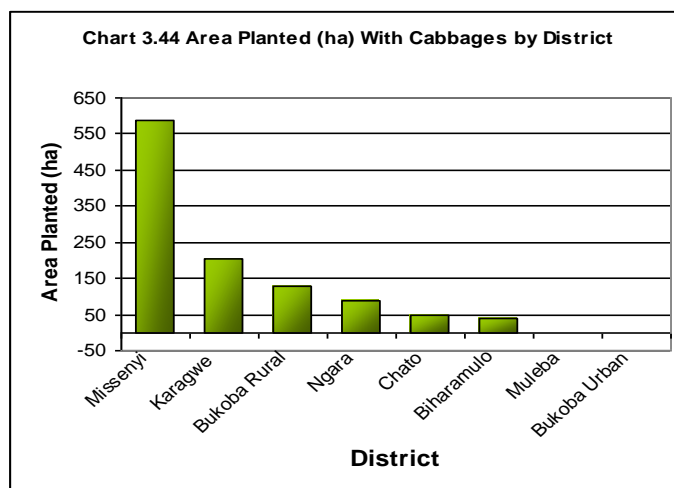
In terms of productivity, the highest yield was in Biharamulo (21.3 tons/ha) followed by Karagwe (18.13 tons/ha), Muleba (14.62 tons/ha), Bukoba Rural (9.65 tons/ha), Ngara (8.75 tons/ha), Chato (6.7 tons/ha), Bukoba Urban (6.37 tons/ha), and the least was Missenyi (2.46 tons/ha), (Map 3.17)

The highest proportion of land planted with tomatoes was in Bukoba Urban (2.15) followed by Missenyi (1.76), Bukoba Rural (0.43), Muleba (0.36), Ngara (0.28), Chato (0.19) while the lowest proportion was recorded in Karagwe and Biharamulo each with (0.16).

Biharamulo had the largest planted area per tomato growing household (0.28 ha) followed by Bukoba Urban (0.16 ha), Ngara (0.14 ha), Muleba and Karagwe each with (0.11 ha), Bukoba Rural (0.10 ha) while the smallest area was in Missenyi (0.08 ha), (Map 3.18).

3.3.3.5.2 Cabbage

Production of cabbage was limited to some districts; Missenyi, Karagwe, Bukoba Rural, Ngara, Chato and Biharamulo. There was no recorded production of cabbage in Muleba and Bukoba Urban districts. A total of 12,338 households were engaged in cabbage production and cultivated a total of



1,094 ha. The largest planted area of cabbage was in Missenyi (586 ha) while Biharamulo recorded the smallest area (40 ha), (Chart 3.44). The highest yield of cabbage was obtained in Biharamulo (16.09 ton/ha) followed by Chato (11.22 ton/ha). In contrast, Missenyi recorded the lowest yield (1.43 ton/ha), (Map 3.19).

Missenyi had the highest percentage of area planted with cabbage (53.6%) followed by Karagwe (18.7%), Bukoba Rural (11.56%), Ngara (8.25%), Chato (4.26%) while Biharamulo had the lowest percentage (3.63%). Moreover, the highest proportion of land planted with cabbage was in Missenyi (0.91%) while Chato and Biharamulo had the lowest proportion each with (0.06). The largest area per cabbage growing household was recorded in Biharamulo (0.25 ha). On the other hand, the lowest yield was in Misenyi (0.07 ha), (Map 3.20).

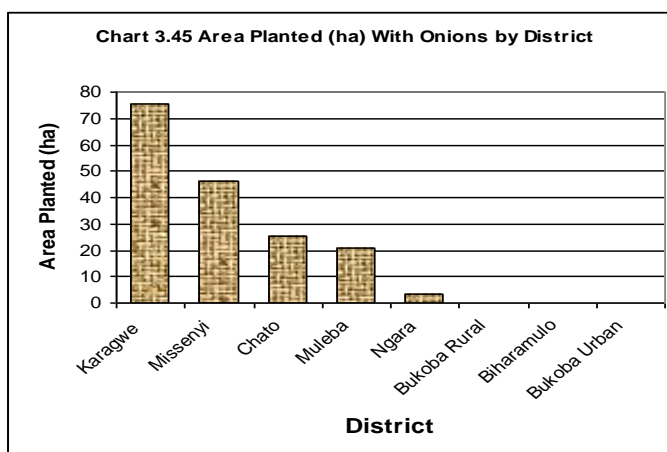
3.3.3.5.3 Onions

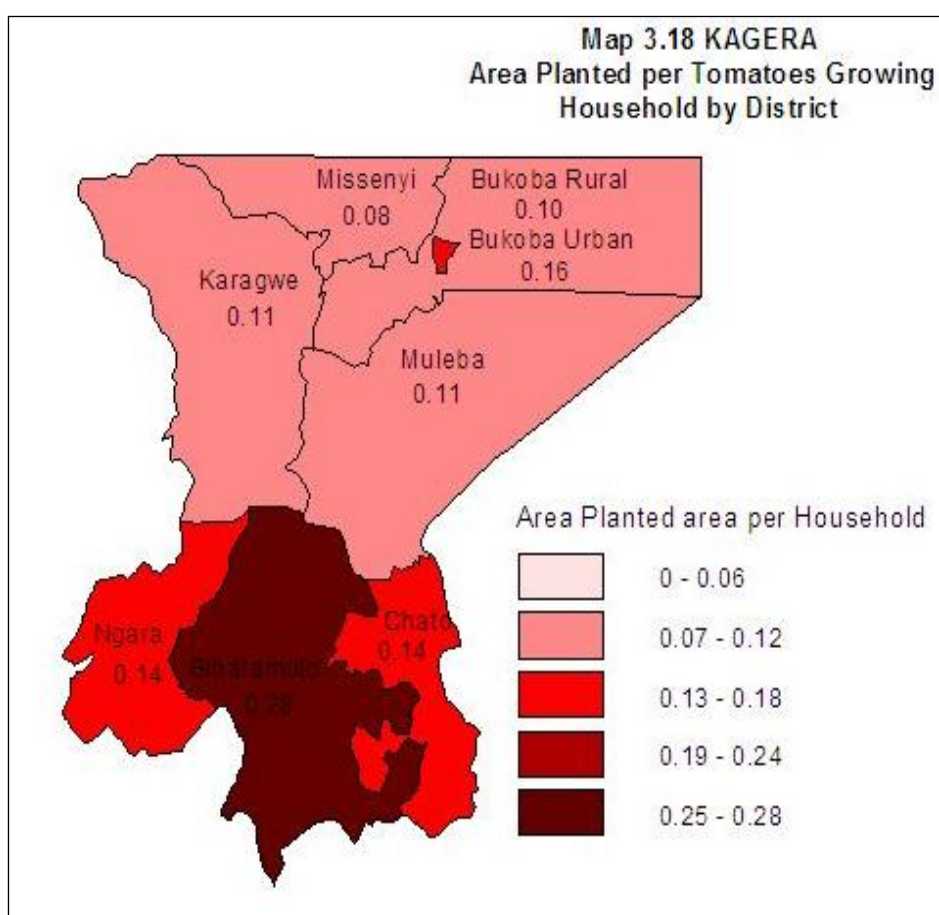
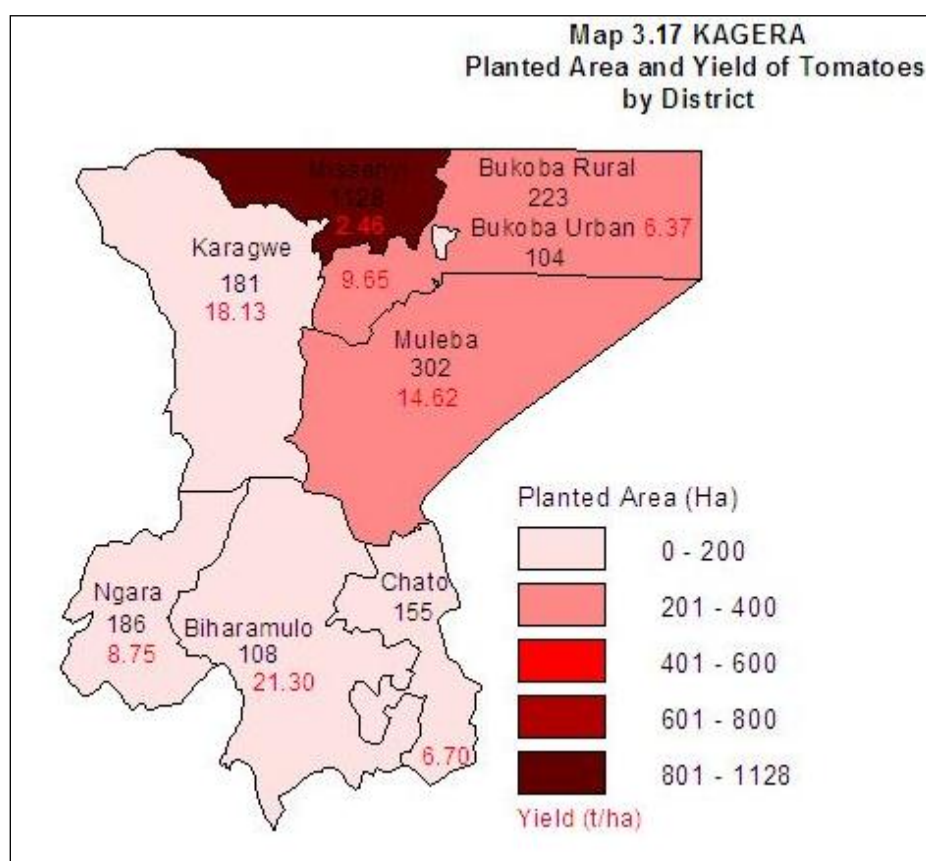
A total of 171 ha of onions were cultivated by 2,165 households in only five districts: Karagwe (75 ha, 44.0%) followed by Missenyi (46 ha, 27.0%), Chato (26 ha, 14.9%), Muleba (21 ha, 12.0%) and Ngara (4 ha, 2.1%). The highest yield was obtained in Missenyi (6.55 ton/ha) followed by

Muleba (3.16 ton/ha), Chato (2.96 ton/ha), Ngara (2.82 ton/ha) while the lowest yield was in Karagwe (2.80 ton/ha).

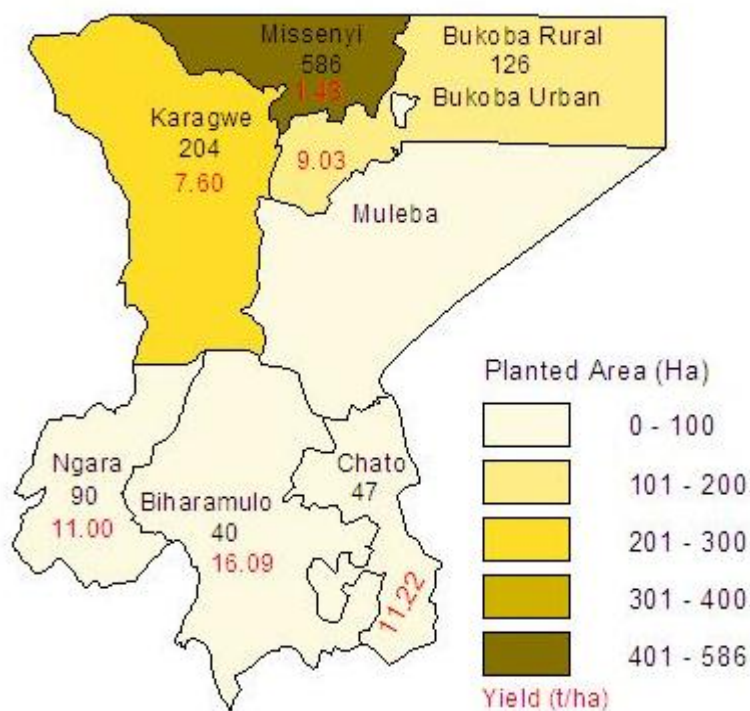
Karagwe recorded the highest percentage of area planted with onions (43.96%) followed by Missenyi (26.95%), Chato (14.92%), and Muleba (12.04%) while Ngara had the lowest percentage (2.13%), (Chart 3.45). However, the highest proportion of land planted with onions was in Karagwe and Missenyi each with (0.07) while the lowest proportion was recorded in Ngara (0.01).

Karagwe had the largest planted area with onions (0.11 ha) and the smallest area was in Ngara (0.03 ha).

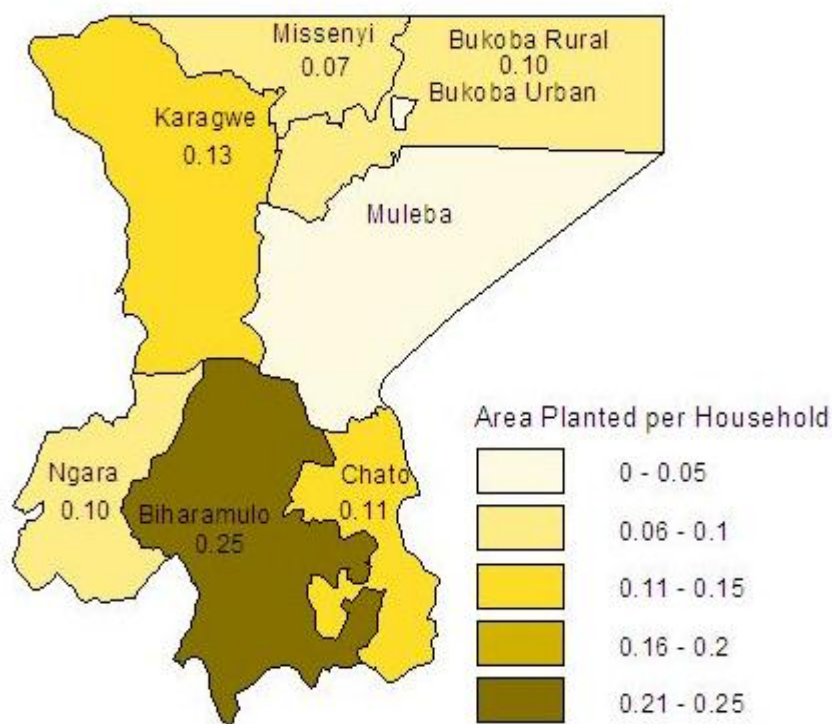




Map 3.20 KAGERA
Planted Area and Yield of Cabbage
by District

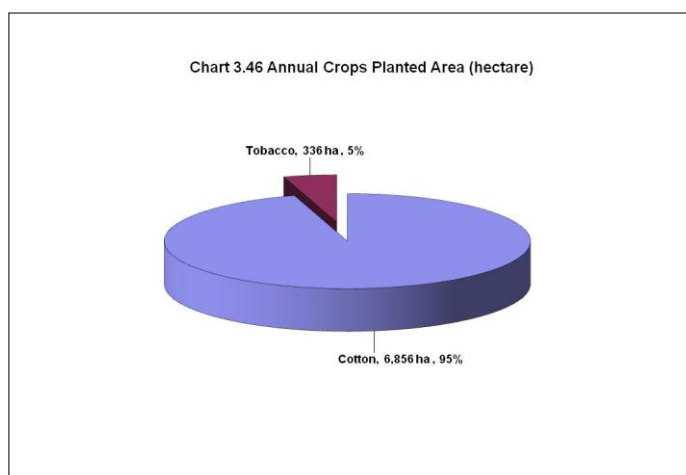


Map 3.21 KAGERA
Area Planted per Cabbage Growing
Household by District



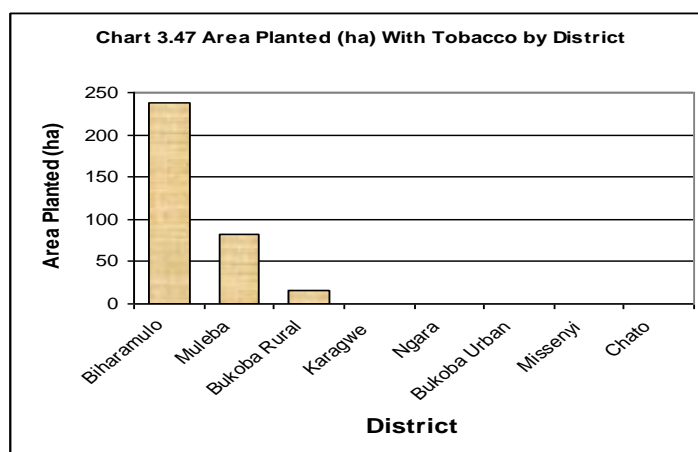
3.3.3.6 Other Annual Crops

Most of the other annual crops are cash crops, which were cotton and tobacco. Cotton was grown in a total planted area of 6,856 hectares, accounting to 95 percent of the total area planted with cotton and tobacco in the region. Tobacco was planted in an area of 336 hectares accounting for only 5 percent of the total area planted with cotton and tobacco, (Chart 3.46).



3.3.3.6.1 Tobacco

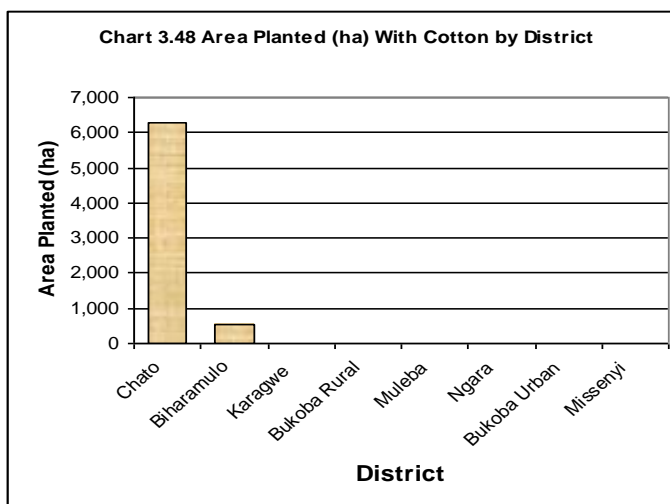
Tobacco was grown by 822 households in only three out of the eight districts in the region. The total area planted with the crop was 336 ha. Biharamulo had the largest area planted with tobacco (238 ha) while the smallest area was in Bukoba Rural (15 ha), (Chart 3.47). On the other hand, the highest yield of tobacco was obtained in Bukoba Rural (15 ton/ha) while Muleba had the lowest yield (0.35 ton/ha), (Map 3.22).



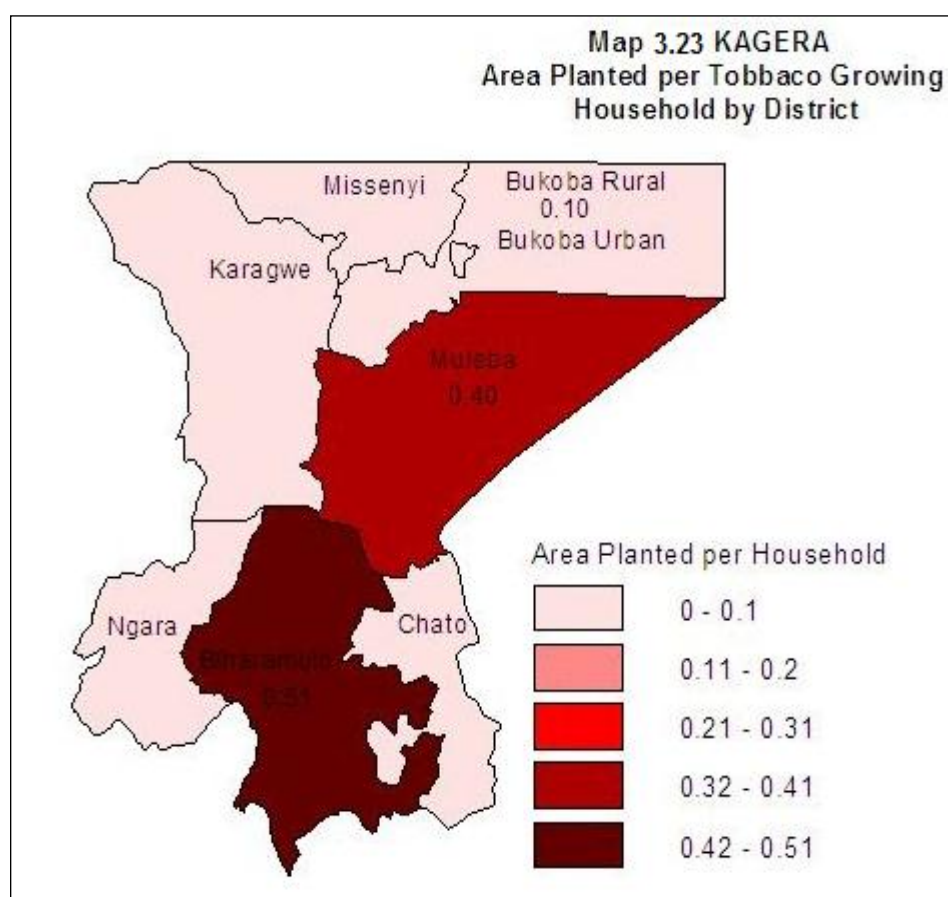
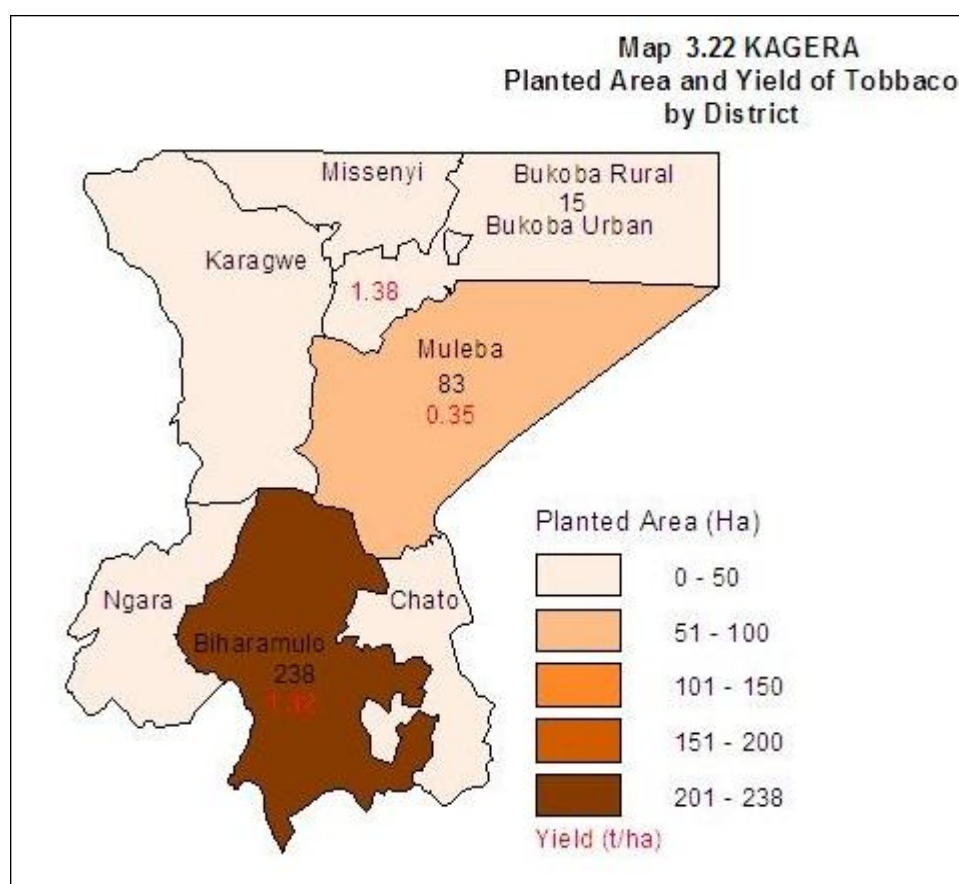
The highest percentage of the area planted with tobacco was in Biharamulo (70.95%) while Bukoba Rural had the lowest percentage (4.44%). Also, the largest area per tobacco growing household was in Biharamulo (0.51 ha) and the smallest area was in Bukoba Rural (0.10 ha) (Map 3.23).

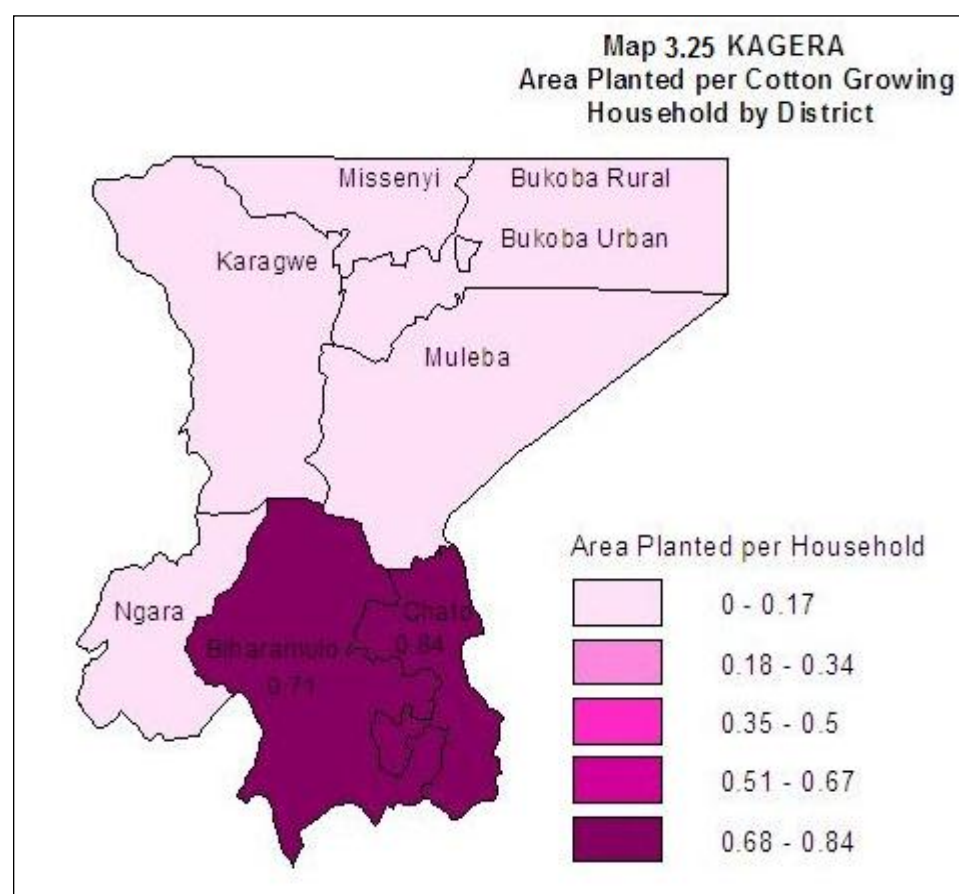
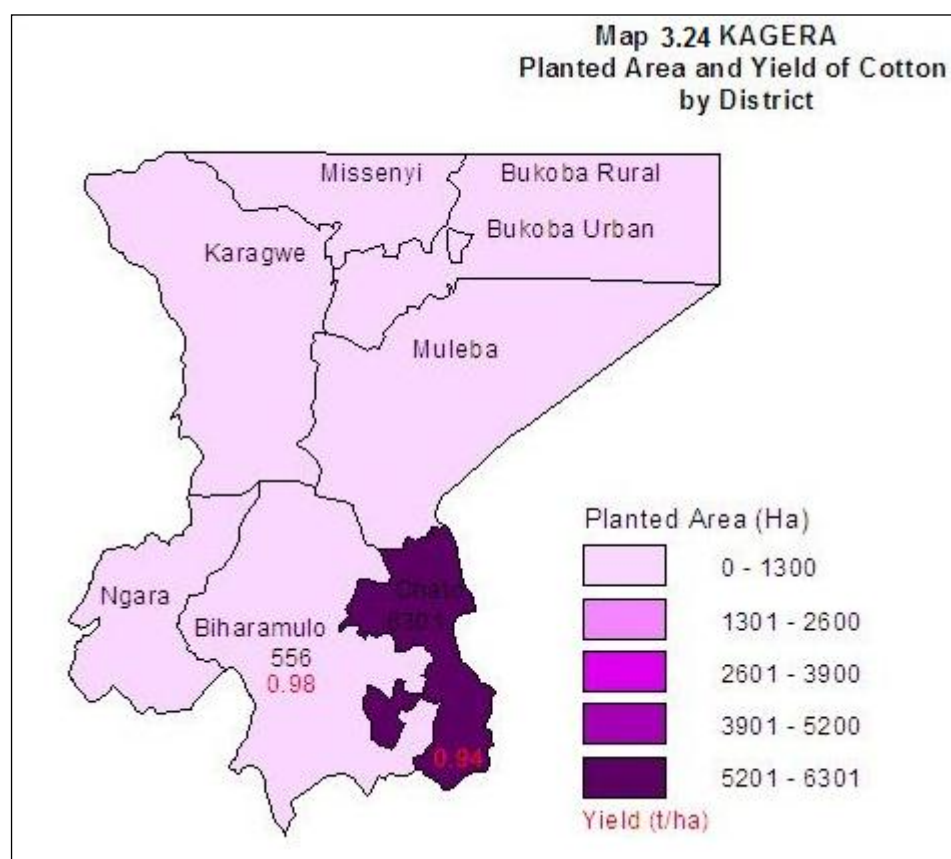
3.3.3.6.2 Cotton

Cotton ranked eighth in terms of area planted with annual crops. A total of 8,326 households planted cotton on 6,856 ha or 1.8% of the area planted with annuals. Cotton production was recorded only in two districts, namely Biharamulo and Chato. Most of the area under cotton was in Chato district (6,301 ha; 91.9%) while Biharamulo recorded only 556 ha or 8.1% of the total cotton planted area, (Chart



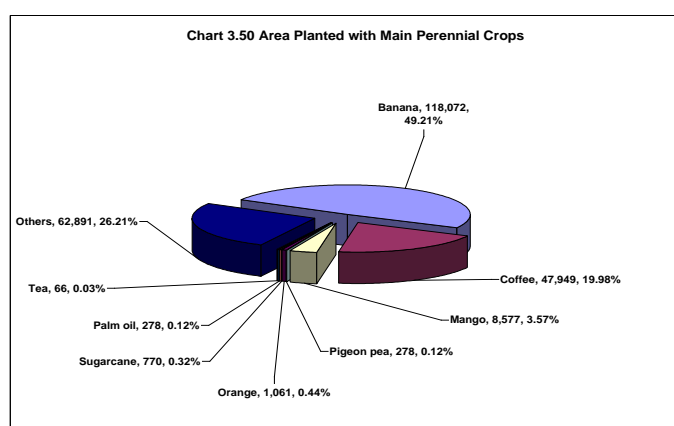
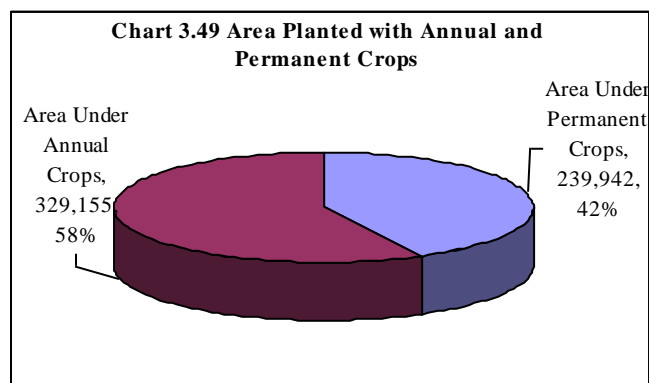
3.48). However, cotton yield was higher in Biharamulo (0.98 ton/ha) than in Chato (0.94 ton/ha), (Map 3.24). Besides, the area per cotton growing household was larger in Chato (0.84 ha) than in Biharamulo (0.71 ha), (Map 3.25).





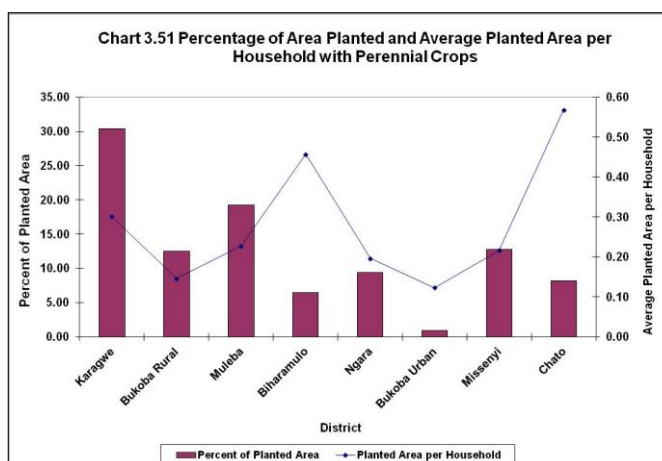
3.4 Permanent Crops

Permanent crops also referred to as perennial crops are crops that normally take over a year to mature and once mature can be harvested for a number of years. For most of the 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. This is because 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 therefore treated as a permanent crop. In this report, the agricultural census results are presented for the most important permanent crops in terms of area planted, production, and yield.



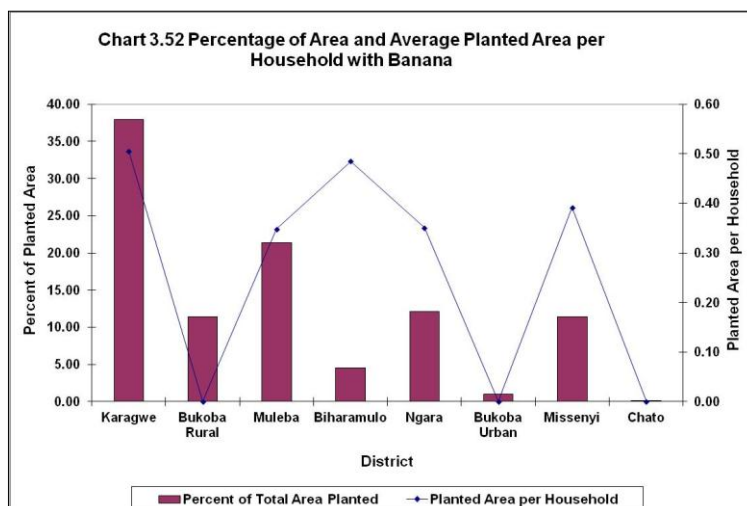
The total planted area with permanent crops was 239,942 ha (42 % of the total area planted with annual and permanent crops) (Chart 3.49). The largest area was planted with banana (118,072 ha, 49.2%) followed by other crops (62,891 ha, 26.2%), coffee (47,949 ha, 20%), mangoes (8,577 ha, 3.6%), orange (1,061 ha, 0.4%), and sugar cane (770 ha, 0.3%). The area grown to other crops was much smaller with tea recording the smallest area (66 ha, 0.03%), (Chart 3.50).

Karagwe had the highest percentage of the total area planted with perennial crops (30%) followed by Muleba (19.28%), Missenyi (12.77%), Bukoba Rural (12.55%), Ngara (9.42%), Chato (8.23%), and Biharamulo (6.46%) while Bukoba Urban had the lowest percentage (0.91%). Chato had the largest planted area per perennial crops growing household (0.57 ha) while Bukoba Urban had the smallest planted area (0.12 ha), (Chart 3.51).



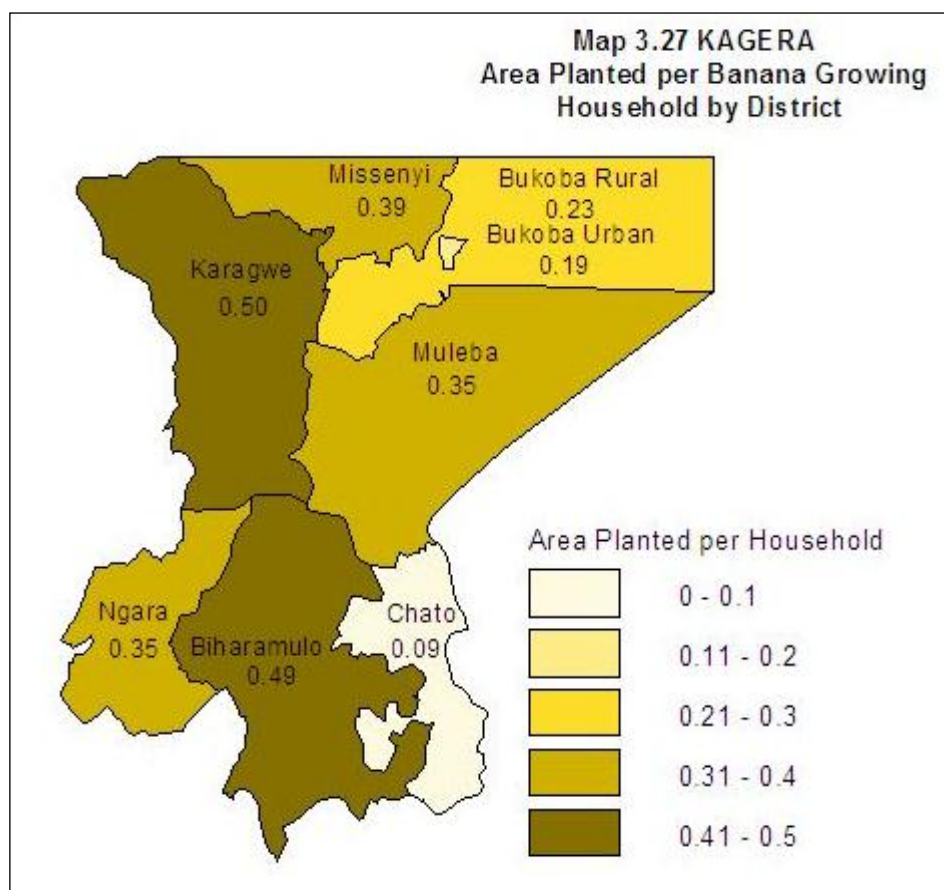
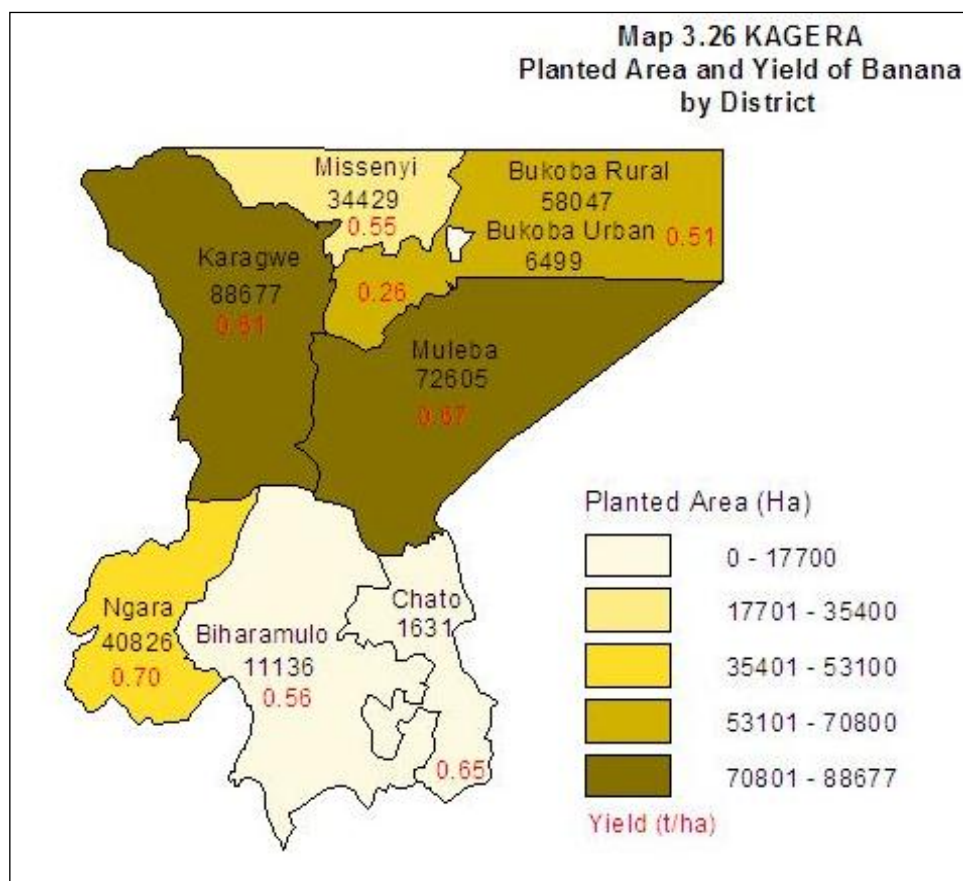
3.4.1 Banana

The area planted with banana varied widely between districts. Karagwe had the largest area planted with banana while the smallest area was in Bukoba Urban. Also, Karagwe recorded the largest planted area per banana growing household while Chato and Bukoba Urban were the two districts with the smallest areas (Chart 3.52). On the other hand,



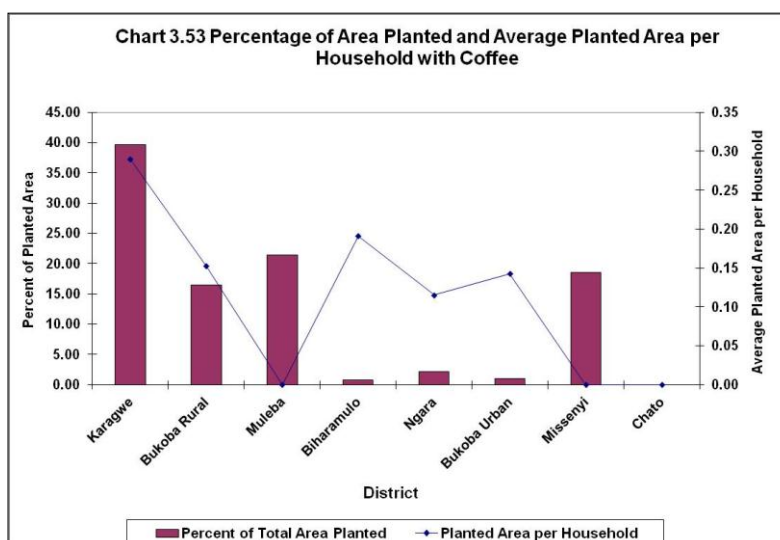
Ngara had the highest yield (0.70 ton/ha) while the lowest yield was in Bukoba Rural (0.26 ton/ha) (Map 3.26).

Karagwe had the highest percentage of area planted with bananas (37.92%) followed by Muleba (21.40%), Ngara (12.13%), Missenyi (11.43%), Bukoba Rural (11.38%), Biharamulo (4.57%), Bukoba Urban (1.04%) while Chato had the lowest percentage (0.13%). Moreover, Karagwe had the largest planted area per banana growing household (0.50 ha) followed by Biharamulo (0.49 ha), Missenyi (0.39 ha), Muleba and Ngara (0.35 ha) while Chato had the smallest area (0.09 ha), (Map 3.27).



3.4.2 Coffee

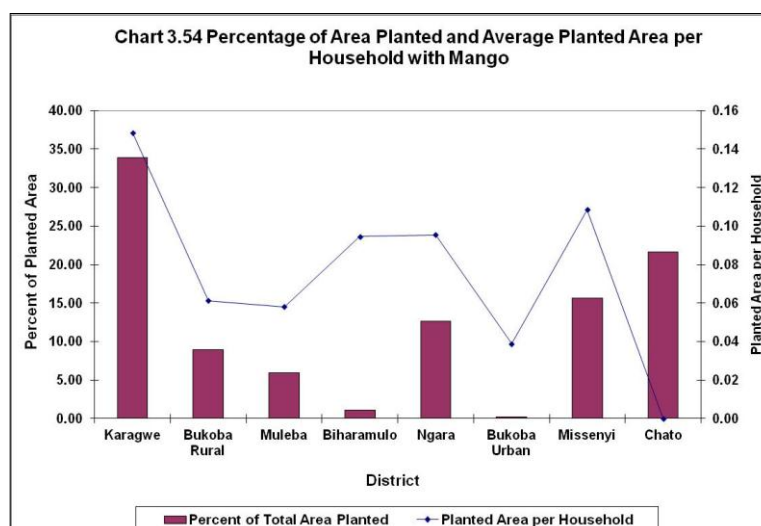
Karagwe had the largest planted area with coffee (65,635 ha) while the smallest area was in Biharamulo (91,961 ha). The highest yield of coffee was in Karagwe (0.94 ton/ha) while the lowest yield was in Bukoba Rural (0.22 ton/ha), (Map 3.28).



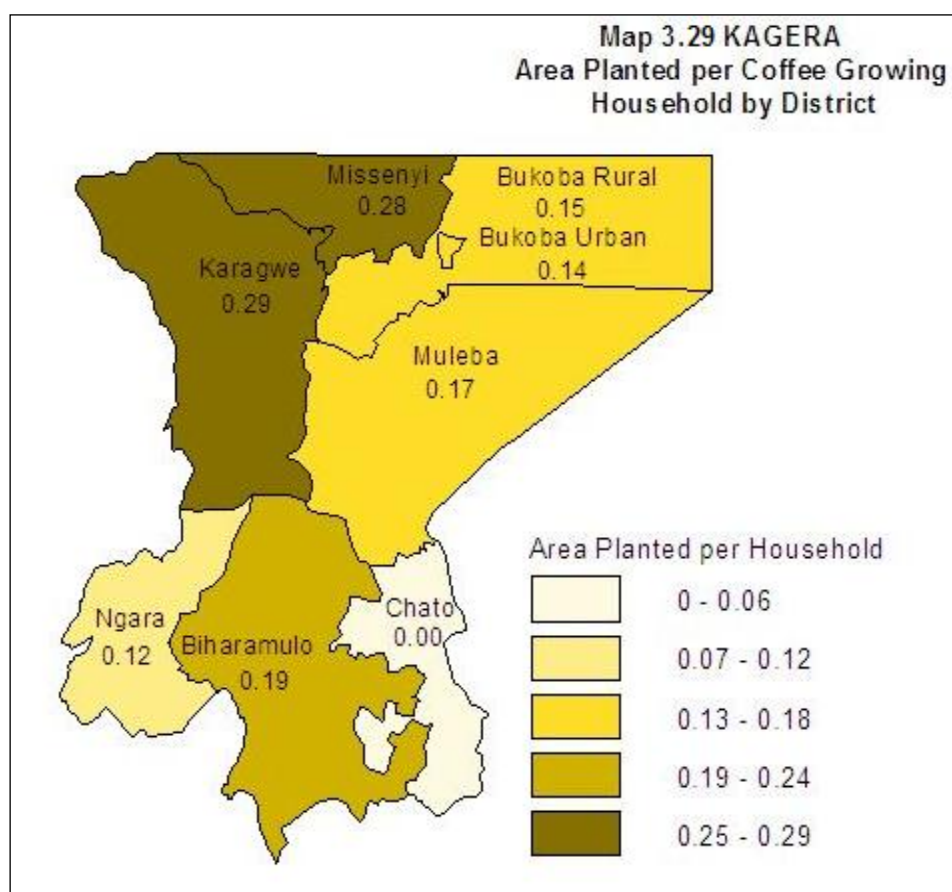
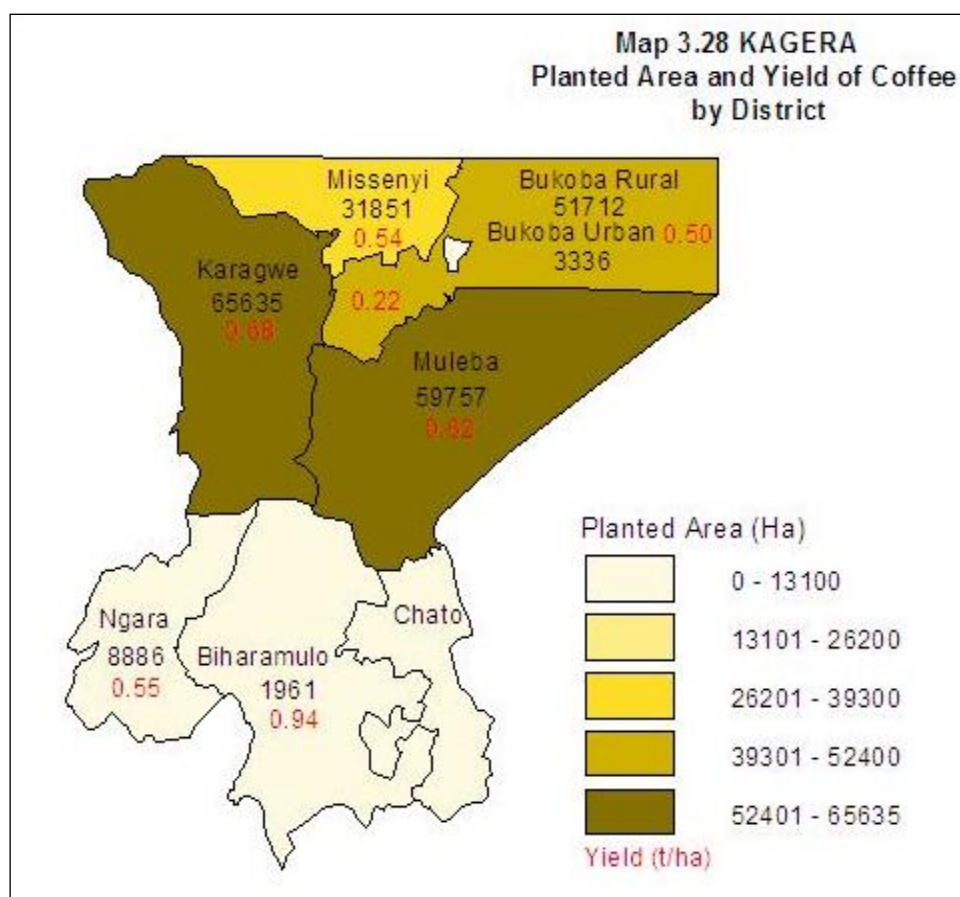
Karagwe had the highest percentage of area planted with coffee (39.65%) followed by Muleba (21.47%), Missenyi (18.51%), Bukoba Rural (16.45%), Ngara (2.14%), Bukoba Urban (0.99%), and the lowest percentage of area planted with coffee was in Biharamulo (0.78%). Besides, the largest planted area per coffee growing household was in Karagwe (0.29 ha) while the smallest area was in Ngara (0.12), (Chart 3.53, Map 3.29).

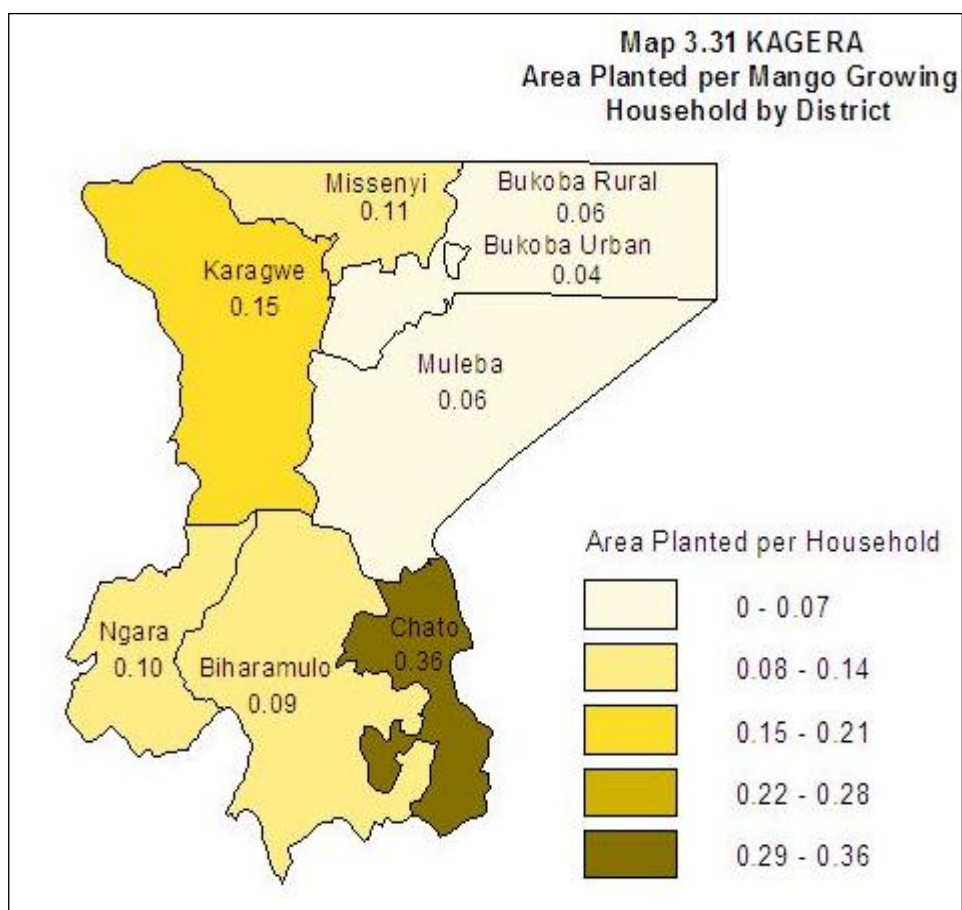
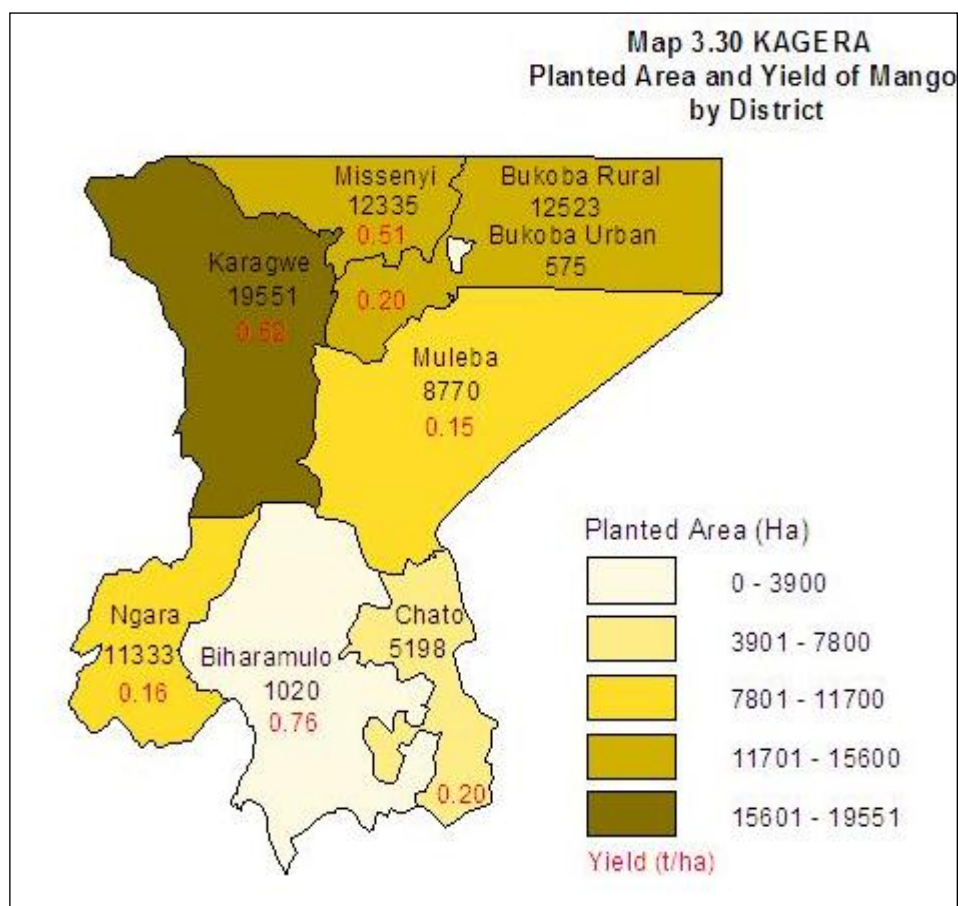
3.4.3 Mangoes

A total of 8,577 ha were planted with mangoes by 71,304 households. Karagwe had the largest area planted with mangoes (19,551 ha) while Bukoba Urban had the smallest area (575 ha). The highest yield was obtained in Biharamulo (0.76 ton/ha) while the lowest yield was recorded in Muleba (0.15 ton/ha) (Map 3.30).



Karagwe district had the highest percentage of area planted with mangoes (33.86%), followed by Chato (21.63%), Missenyi (15.61%), Ngara (12.62%), Bukoba Rural (8.95%), Muleba (5.94%), and Biharamulo (1.12%) while Bukoba Urban had the lowest percent (0.26%). Chato had the largest planted area per mango growing household (0.36 ha) while the smallest area per mango growing household was in Bukoba Urban (0.04 ha), (Chart 3.54, Map 3.31).

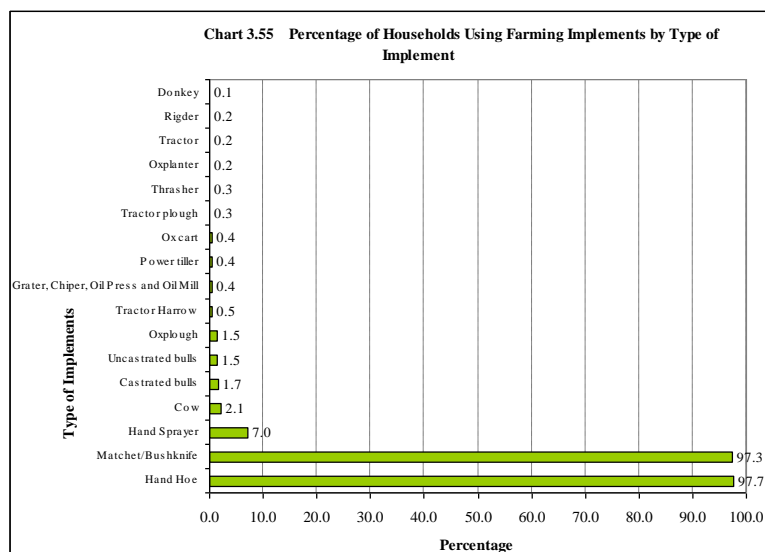




3.5 Implements and Input use

3.5.1 Implements Use

The majority of the implements found on farming households in the region are hand hoes (396,645 households, 97.7%) and matchet/bushknife (395,135 households, 97.3%). Relatively a small number of households used other farming implements such as hand sprayer (7.0%) and cow (2.1%). Other farming implements which was used accounted for a very



small percent (less than 2%) with donkey, ridger, ox planter and tractor having a least percent of households, (Chart 3.55).

In the region, large numbers of households that used hand hoes were mainly found in Chato (99.3% of the total agricultural households) followed by Biharamulo and Ngara (each 99.0%), Bukoba Rural and Missenyi each with 98.5 percent, Karagwe (97.0%), Bukoba Urban (96.7%) and Muleba (95.6%). Likewise, households that used matchet/sword/bushknife were mainly found in Missenyi (99.5%), followed by Karagwe and Bukoba Rural (each 98.5%). Other districts which used matchet/sword/bushknife ranged from 95 to 97 percent. The general indication is that the majority of the households relied on manual implements, (Table 3.11).

Table 3.11 Percentage of Households Using Farm Implements by Type of Implement and District

Type of Implement	Karagwe	Bukoba Rural	Muleba	Biharamulo	Ngara	Bukoba Urban	Missenyi	Chato	Total
	Percentage								
Matchet/Bushknife	98.5	98.5	96.5	95.1	95.3	98.3	99.5	96.8	97.3
Hand Hoe	97.0	98.5	95.6	99.0	99.0	96.7	98.5	99.3	97.7
Hand Sprayer	7.4	6.4	5.4	7.9	5.4	5.0	5.9	13.1	7.0
Grater, Chipper, Oil Press and Oil Mill	0.2	1.2	0.2	0.7	0.0	0.0	0.2	0.5	0.4
Oxplough	0.2	0.0	0.0	3.5	0.0	0.0	0.2	10.9	1.5
Oxplanter	0.0	0.2	0.5	0.2	0.2	0.0	0.2	0.0	0.2
Ox cart	0.0	0.2	0.0	1.0	0.2	0.0	0.0	2.2	0.4
Tractor	0.2	0.0	0.2	0.2	0.0	0.0	0.5	0.0	0.2
Tractor plough	0.2	0.2	0.2	0.5	0.2	0.0	0.0	0.7	0.3
Tractor Harrow	1.0	0.2	0.2	0.2	0.5	0.0	0.2	0.7	0.5
Castrated bulls	0.0	0.5	0.0	4.4	0.7	0.8	0.5	10.9	1.7
Uncastrated bulls	0.5	1.0	0.7	1.0	1.2	0.0	1.0	7.9	1.5
Cow	1.7	0.7	2.2	1.5	2.2	0.8	1.0	6.7	2.1
Donkey	0.0	0.2	0.2	0.0	0.2	0.0	0.0	0.2	0.1
Thrasher	0.2	0.2	0.5	0.0	0.2	0.0	0.0	0.2	0.3
Power tiller	0.5	0.0	0.5	0.0	0.7	0.0	0.2	0.5	0.4
Rigder	0.0	0.2	0.0	0.7	0.0	0.0	0.0	0.7	0.2

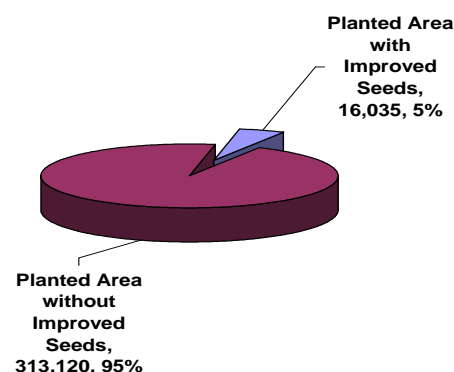
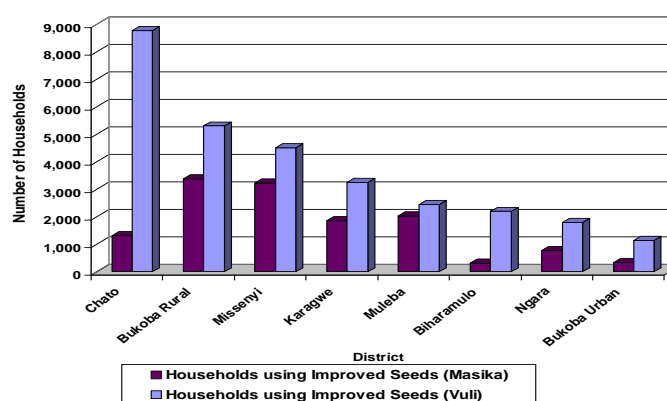
3.5.2 Inputs Use

3.5.2.1 Use of Improved Seeds

The area planted without improved seeds was larger (313,120 ha, 95%) than the area planted with improved seeds (16,035 ha, 5%), (Chart 3.58).

In general, Chato had the largest number of households using improved seeds (8,692) while the smallest number of households using improved seeds was in Bukoba Urban (1,495), (Chart 3.59).

A total of 29,434 households planted 13,589 ha using improved seeds in the short rainy season. Bukoba Urban had the highest percentage of area planted using improved seeds during the short rainy season (15.4%)

Chart 3.58 Area Planted with Improved Seeds**Chart 3.59 Number of Households using Improved Seeds by Districts**

followed by Chato (14.95), Missenyi (5.7%), Biharamulo (4.9%), Karagwe (3.3%), Bukoba Rural (3%), and Ngara (2.5%) while Muleba had the lowest percentage (1.1%), (Table 3.12).

Table 3.11: Number of Households and Planted Area with Improved Seeds by District - Short Rainy Season

District	Improved Seed - In Vuli						% of Area Planted using Improved Seeds
	Number of Households using Improved Seeds	Planted Area with Improved Seeds	Number of Households NOT using Improved Seeds	Planted Area Improved Seeds not Used	Total Number of Households Planting in Vuli	Total Planted Area in Vuli	
Karagwe	3,258	1,397	74,014	40,840	77,272	42,238	3.3
Bukoba Rural	5,304	717	50,386	23,569	55,689	24,286	3.0
Muleba	2,447	435	72,605	39,446	75,053	39,880	1.1
Biharamulo	2,196	1,603	28,782	31,425	30,978	33,028	4.9
Ngara	1,803	845	49,068	33,594	50,871	34,439	2.5
Bukoba Urban	1,150	190	2,358	1,043	3,508	1,233	15.4
Missenyi	4,511	1,269	31,851	21,100	36,362	22,368	5.7
Chato	8,765	7,134	31,798	40,720	40,562	47,854	14.9
Total	29,434	13,589	340,862	231,738	370,296	245,327	5.5

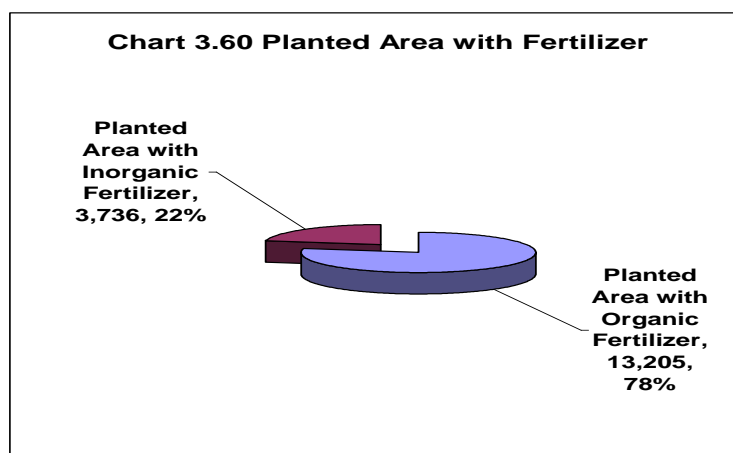
During the long rainy season 13,268 households planted 2,446 ha using improved seeds. Karagwe had the largest planted area using improved seeds (776 ha) while the smallest area was found in Biharamulo (53 ha). Bukoba Urban had the highest percentage of area planted using improved seeds (24.1%) followed by Muleba (8.7%), Bukoba Rural (5%), Missenyi (4.9%), Karagwe (35%), Chato (2.2%), and Ngara (1%) while the lowest percentage was recorded in Biharamulo (0.8%).

Table 3.12: Number of Households and Planted Area with Improved Seeds - Long Rainy Season

Improved Seed - In Masika						% of area planted using improved seed
Number of Households using Improved Seed	Planted Area Improved Seed Used	Number of Households NOT using Improved Seeds	Planted Area Improved Seed not Used	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
1,862	776	53,765	25,300	55,627	26,075	3.0
3,389	263	17,974	4,963	21,362	5,226	5.0
2,039	358	16,112	3,755	18,151	4,113	8.7
314	53	10,430	6,786	10,744	6,839	0.8
773	206	44,432	20,459	45,204	20,665	1.0
345	64	575	201	920	265	24.1
3,222	487	19,608	9,398	22,830	9,885	4.9
1,325	240	15,185	10,520	16,510	10,760	2.2
13,268	2,446	178,081	81,382	191,349	83,828	2.9

3.5.2.2 Use of Fertilizers

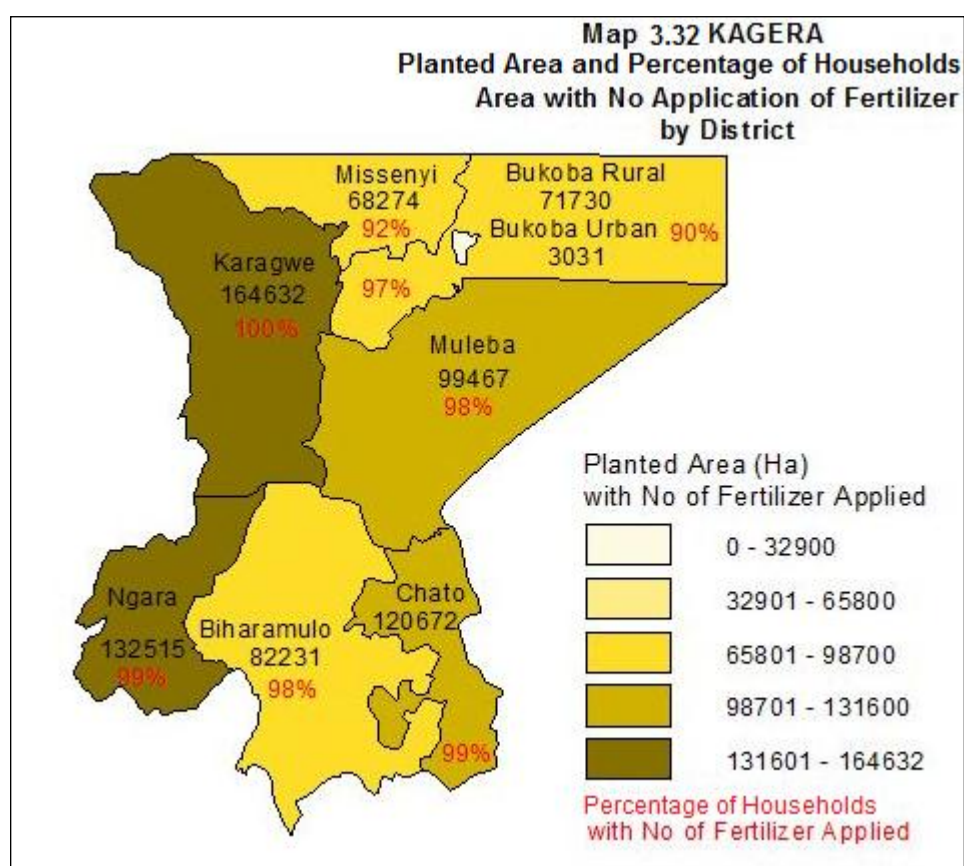
A total of 13,205 ha accounting for 78% of the total planted area were planted with organic fertilizer while the area planted with inorganic fertilizer was only 3,736 ha or about 22% (Chart 3.60). The area planted with organic fertilizer was much larger in the short rainy season (10,649 ha) than in the long rainy season (2,556 ha).



Missenyi had the largest area planted with organic fertilizer in both short and long rainy seasons. On the other hand, Bukoba Rural had the smallest area planted with organic fertilizer in the short rainy season while Biharamulo had the smallest area in the long rainy season. Similarly, the area planted with inorganic fertilizer was larger in the short rainy season (13,205 ha) than in the long rainy season (3,736 ha). Furthermore, Missenyi had the largest area planted with inorganic fertilizers in both short and long rainy seasons. In contrast, Bukoba Urban had the smallest land planted with inorganic fertilizer in both short and long rainy seasons, (Table 3.14 and Map 3.32).

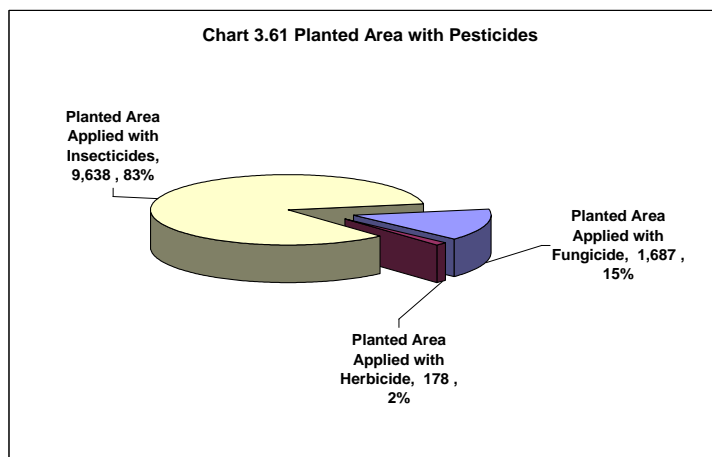
Table 3.13: Planted Area with Fertilizer

District	Planted Area Applied with Organic Fertilizer in Vuli	Planted Area Applied with Organic Fertilizer in Masika	Planted Area Applied with Inorganic Fertilizer in Vuli	Planted Area Applied with Inorganic Fertilizer in Masika	Planted Area Applied with Organic Fertilizer	Planted Area Applied with Inorganic Fertilizer
Karagwe	148	296	0	0	444	296
Bukoba Rural	1,273	405	213	30	1,678	618
Muleba	1,853	78	62	31	1,931	140
Biharamulo	983	11	254	13	994	265
Ngara	719	252	227	0	972	479
Bukoba Urban	241	48	23	12	289	71
Missenyi	3,992	1,257	339	60	5,248	1,596
Chato	1,439	209	62	93	1,648	271
Total	10,649	2,556	1,180	238	13,205	3,736



3.5.2.3 Pesticide Use

Pesticides are chemicals used for controlling insects, diseases and weeds. This section analyses the use of these chemicals by smallholders for production of both annual and permanent crops in the region. The total area planted with pesticides was 11,504 ha. Insecticides were the most common pesticide used in the region (9,638 ha, 83.78%) followed by fungicides (1,687 ha, 14.66%) while herbicides were less used (178 ha, 1.55%), (Chart 3.61).

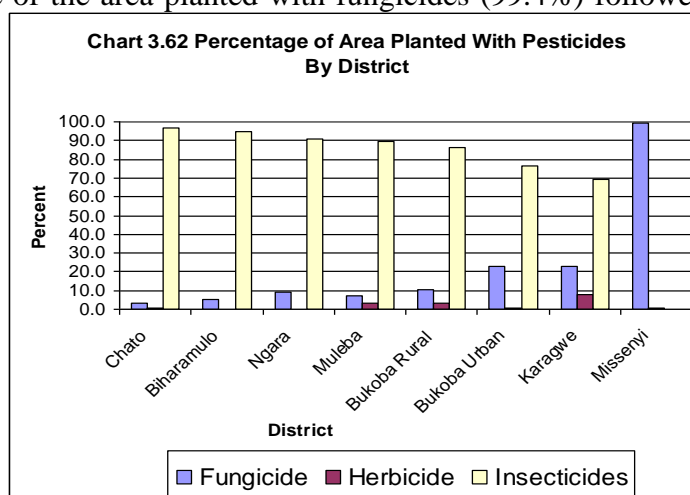


Missenyi had the highest percent of area applied with fungicides (99.4%) while Chato recorded the lowest percent (3%). The highest percent of area applied with was found in Karagwe (7.5%) while Missenyi and Chato reported the lowest percent each with 0.5%. Furthermore, none of the households in Biharamulo and Ngara reported using herbicides. Besides, Chato had the highest percent of planted area applied with insecticides (496.6%). In contrast, Missenyi recorded the lowest percent (0.1%), (Table 3.15).

Table 3.14: Percent Planted Area with Fungicide, Herbicide and Insecticide

District	% Planted Area Applied with Fungicide	% Planted Area Applied with Herbicide	% Planted Area Applied with Insecticides	Total
Karagwe	23.1	7.5	69.4	100.00
Bukoba Rural	10.6	3.4	86.0	100.00
Muleba	6.9	3.6	89.6	100.00
Biharamulo	5.3	0.0	94.7	100.00
Ngara	8.8	0.0	91.2	100.00
Bukoba Urban	22.7	0.9	76.4	100.00
Missenyi	99.4	0.5	0.1	100.00
Chato	3.0	0.5	96.6	100.00
Total	14.67	1.55	83.78	100.00

Missenyi district had the highest percentage of the area planted with fungicides (99.4%) followed by Karagwe (23.1%), Bukoba Urban (22.7%), Bukoba Rural (10.6%), Ngara (8.8%), and Biharamulo (5.3%). Regarding herbicides, Karagwe had the highest proportion of the area planted with herbicide (7.5%) followed by Muleba (3.6%), Bukoba Rural (3.4%), and Bukoba Urban (0.9%). With regard to the percentage of area planted with insecticides, Chato district had the highest (96.6%) followed by Biharamulo (94.7%), Ngara (91.2%), Muleba (89.6%), Bukoba Rural (86%), Bukoba Urban (76.4%), Karagwe (69.4%) while Missenyi had the lowest (0.1%). It was noted that the districts which used more insecticides used less fungicides and vice versa, (Chart 3.62).

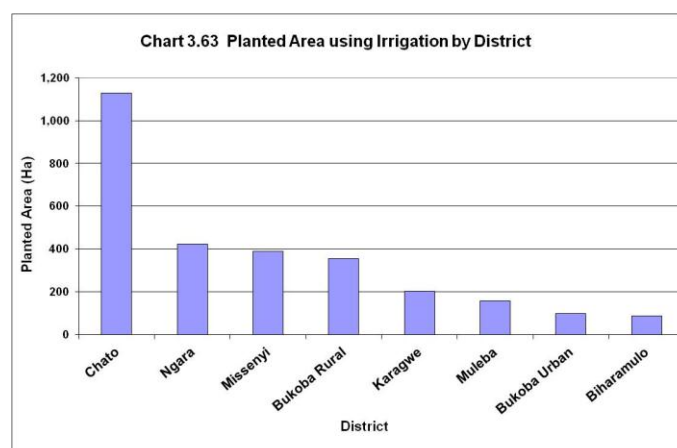


3.6 Irrigation

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

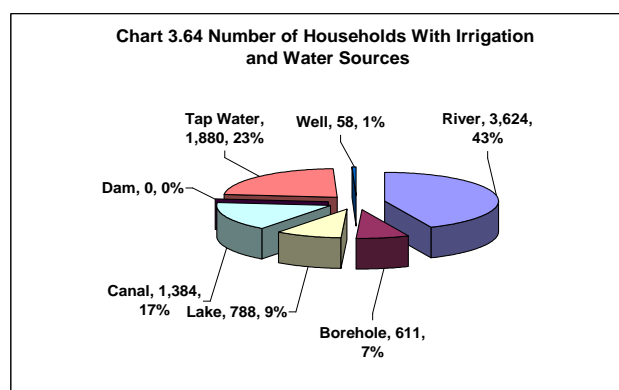
3.6.1 Area Planted with Annual Crops and Under Irrigation

In the region, the area for annual crops under irrigation was 2,840 ha with almost over a third of the area under irrigation found in Chato (1,128 ha, 39.72%) while the smallest area was recorded in Biharamulo (87 ha, 3.07%), (Chart 3.63).



3.6.2 Sources of Water Used for Irrigation

There were various sources of irrigation water. The largest number of households obtained water for irrigation from rivers (3,624) followed by tap water (1,880), canals (1,384), lake (788), borehole (611), and wells (58) while none obtained water from dams (0) (Chart 3.64).

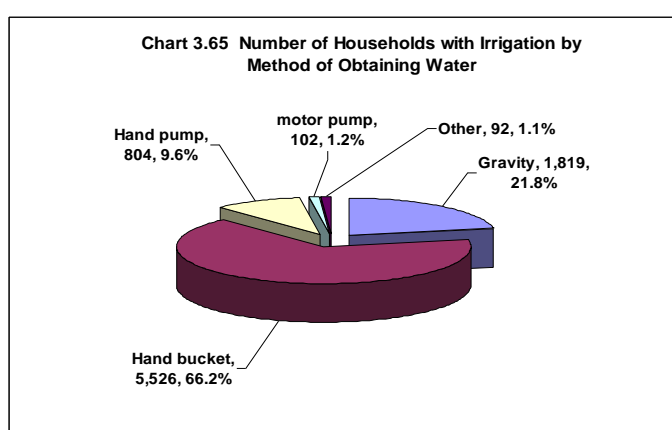


Bukoba Rural had the largest number of households obtaining water from rivers (1,031). In Chato boreholes were the major source of water for irrigation (611) while in Bukoba Urban, rivers were the major source of water for irrigation (230). Besides, Ngara had the largest number of households using tap water for irrigation (1,030). Karagwe had the largest number of households using canals as a source of water (465) while lake was used by the largest number of households in Chato (408), (Table 3.16).

Table 3.15: Number of Households with Irrigation and Source of Water

District	Main Source of Irrigation Water							Total
	River	Borehole	Lake	Canal	Dam	Tap Water	Well	
Karagwe	233	0	233	465	0	465	0	1,396
Bukoba Rural	1,031	0	147	442	0	0	0	1,621
Muleba	816	0	0	0	0	204	0	1,020
Biharamulo	235	0	0	78	0	78	0	392
Ngara	773	0	0	0	0	1,030	0	1,803
Bukoba Urban	230	0	0	0	0	0	58	288
Missenyi	0	0	0	92	0	0	0	92
Chato	306	611	408	306	0	102	0	1,733
Total	3,624	611	788	1,384	0	1,880	58	8,344

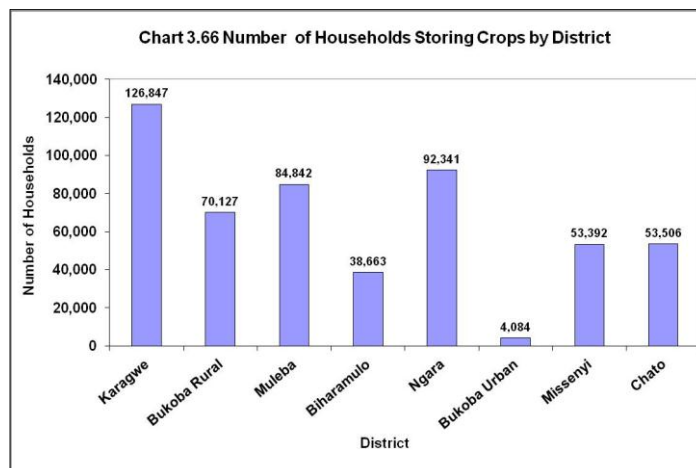
Hand bucket was the most common method used to obtain water (66.2%) followed by gravity (21.8%), hand pump (9.6%), motor pump (1.2%) while other methods were used by 1.1 percent of the households, (Chart 3.65).



3.7 Crop Storage and Marketing

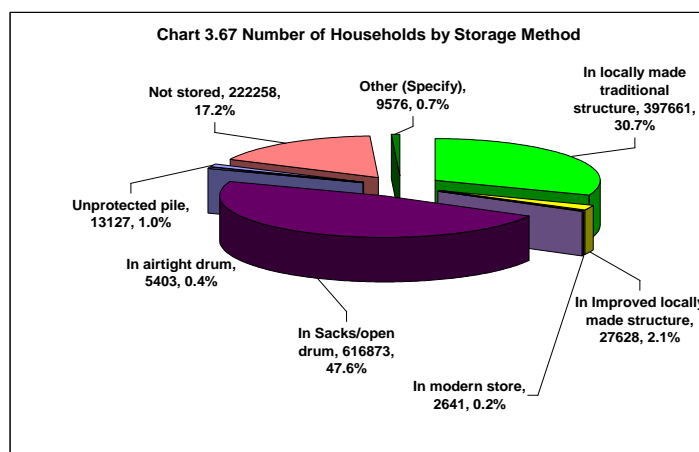
3.7.1 Crop Storage

Crop storage means keeping a crop for a certain period of time for various reasons including food for the household, in order to sell at higher prices or as seed for planting in the following season. A total of 523,803 households (93%) stored crops while 37,843, 7%) didn't. Karagwe had the largest number of households storing crops (126,847) followed by Ngara (92,341), Muleba (84,842), Bukoba Rural (70,127), Chato (53,506), Missenyi (53,392), and Biharamulo (38,663) while Bukoba Urban had the smallest number of households (4,084), (Chart 3.66).

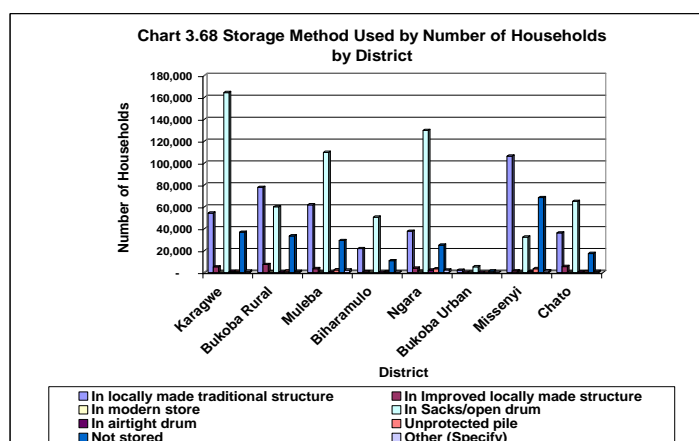


Method of Storage

Crop growing households in the region used various crop storage methods. However, the highest percentage of the households stored crops using sacks/open drums (623,867 58%), followed by made traditional structures (22%) while other methods were used by insignificant percentage of households, (Chart 3.67).



The largest number of the households was in Karagwe (164,320), Muleba (109,724), Biharamulo (50,584), Ngara (129,818), Bukoba Urban (5,234), and Chato (64,920) stored crops in sacks/open drums. Also, locally made traditional storage structures were used by a large number of households in Bukoba Rural (77,788) and Missenyi (106,232). Ngara had the largest number of households using



modern stores (1,288). Bukoba Rural had the largest number of households using improved locally made structures (7,366). Also, the largest number of households using airtight drums, unprotected piles, and other methods were recorded in Ngara (2,189), Missenyi (3,498), and Ngara (2,318) respectively, (Table 3.17, (Chart 3.68).

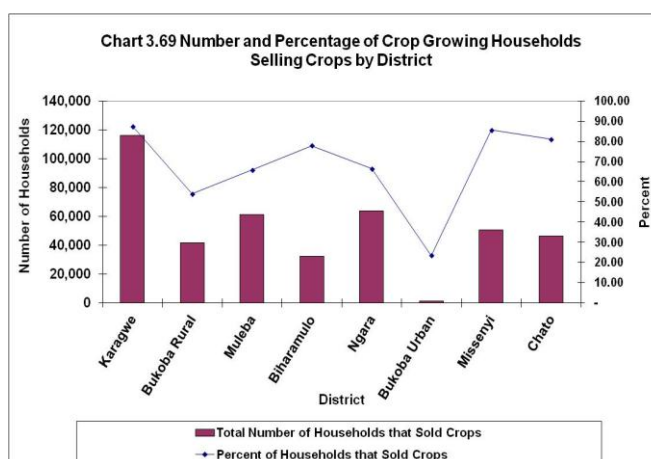
Table 3.16: Storage Methods Used by Number of Households by District

Method	Karagwe	Bukoba Rural	Muleba	Biharamulo	Ngara	Bukoba Urban	Missenyi	Chato
In locally made traditional structure	54,230	77,788	61,796	21,802	37,606	2,128	106,232	36,078
In Improved locally made structure	5,120	7,366	3,467	706	3,992	-	1,473	5,503
In modern store	-	442	204	-	1,288	115	184	408
In Sacks/open drum	164,320	59,962	109,724	50,584	129,818	5,234	32,312	64,920
In airtight drum	931	295	408	-	2,189	58	1,013	510
Unprotected pile	931	1,326	2,447	863	3,348	-	3,498	713
Not stored	36,774	33,443	29,164	10,744	24,985	1,323	68,397	17,428
Other (Specify)	1,164	1,031	2,243	235	2,318	-	1,565	1,019

3.7.2 Crop Marketing

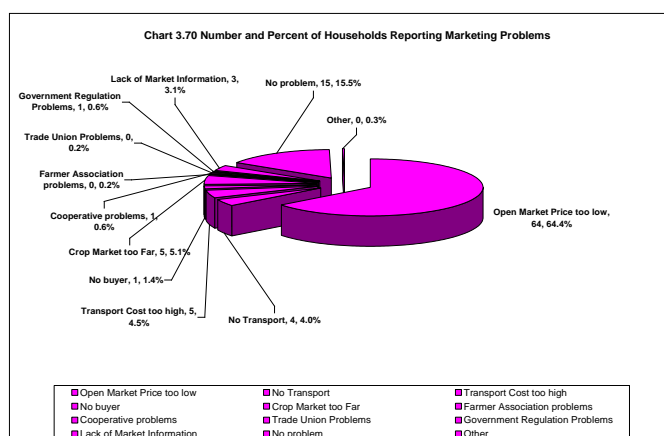
Karagwe had the largest number of households reporting selling of crops (116,141), followed by Ngara (63,879), Muleba (61,388), Missenyi (50,723), Chato (46,270), Bukoba Rural (41,546), and Biharamulo (32,468) while Bukoba Urban had the smallest number of households (1,035). Karagwe had the highest percentage of crop selling households (87.39%), followed by

Missenyi (85.69%), Chato (81.07%), Biharamulo (77.82%), Ngara (66.49%), Muleba (65.835), Bukoba Rural (53.92%), while Bukoba Urban had the lowest percentage (23.39), (Chart 3.69).



Main Marketing Problems

Agricultural households pointed out various marketing problems. The most pressing problem was too low open market price (64%) while others included crop market being too far (5.5%), transport cost too high (4.5%), lack of transport (4%), and lack of market information (3.1%). Other problems were mentioned by relatively small number of households. Furthermore, only 15% of the households said that they had no marketing problem, (Chart 3.70).

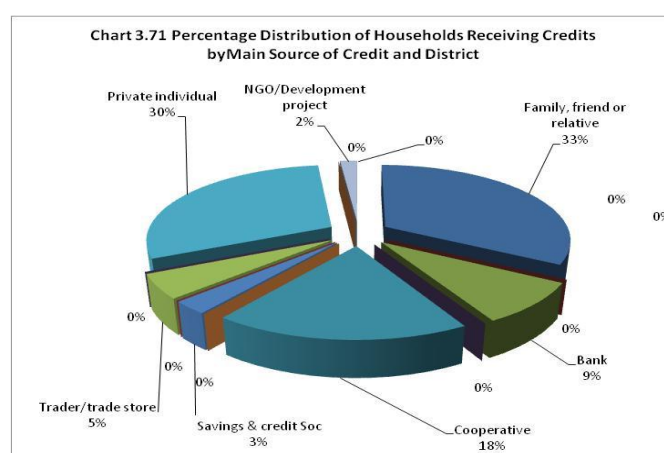


3.8 Access to Crop Production Services

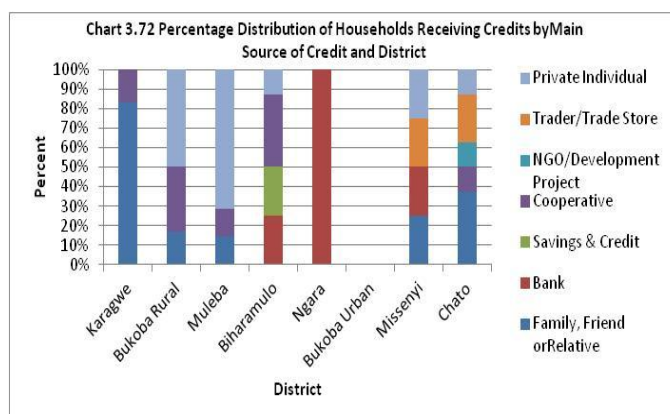
3.8.1 Access to Agricultural Credits

Source of Agricultural Credits

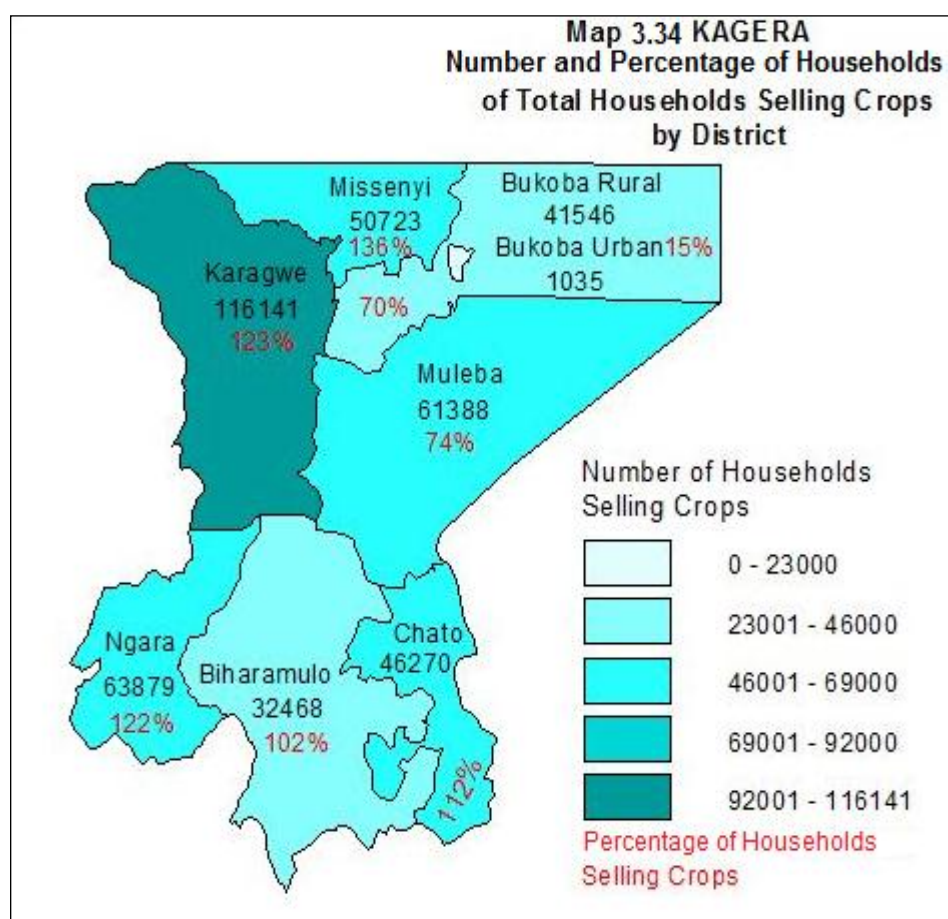
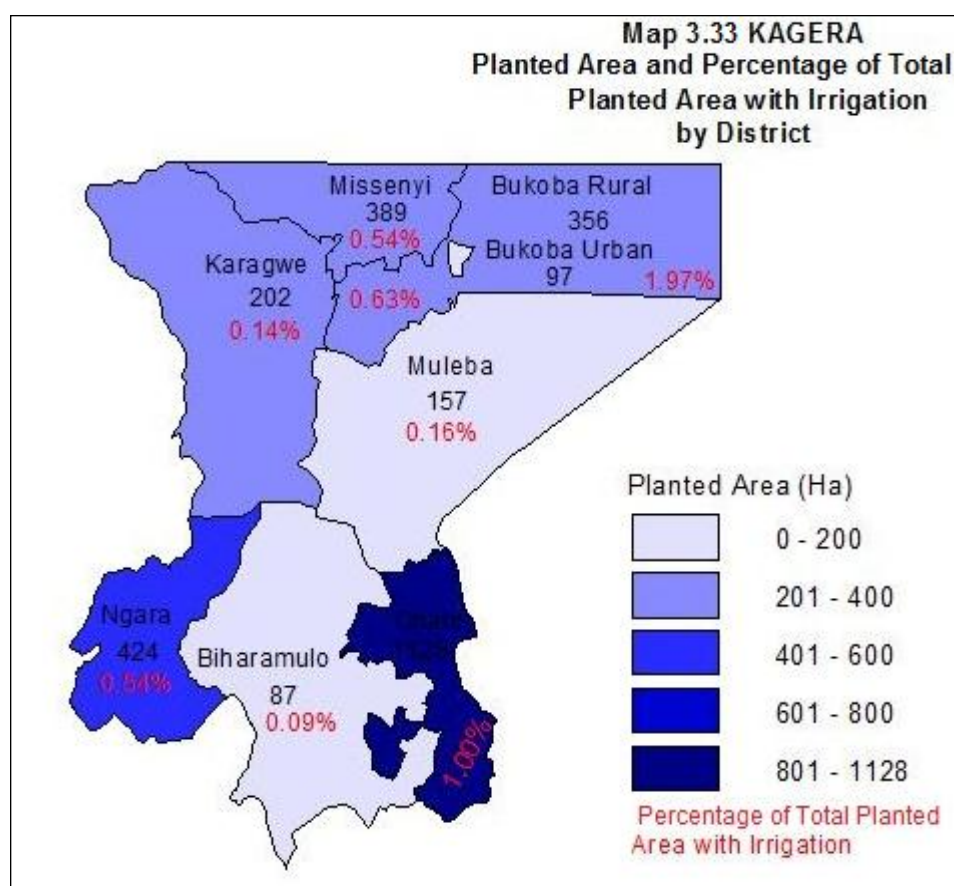
Various sources of credit existed for agricultural households. The highest percentage of households received credit from family, friends or relative (33.1%) followed by NGO/Development project (30%), savings and credit societies (18.5%), bank (8.8%), private individuals (5.1%), cooperative (2.7%) while the lowest percentage of the households obtained credit from trade/trade store (1.8%), (Chart 3.71).



The highest percent in Karagwe obtained credit from family, friends or relatives (83.3%). Similarly, this was an important source of credit in Chato (37.5%). In Ngara, bank was the only source of credit (100%). In Bukoba Rural and Biharamulo the largest number of households obtained credit from

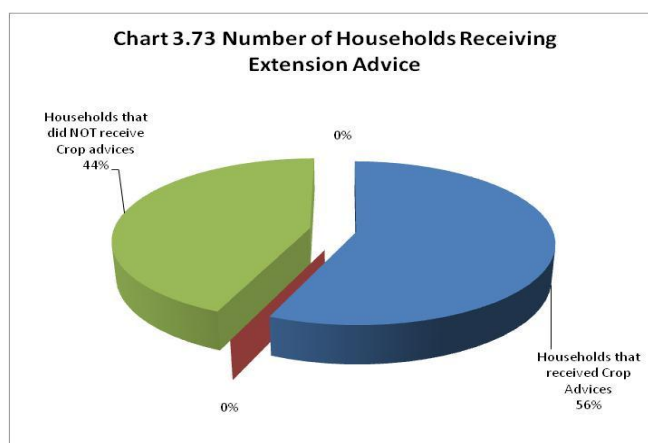


savings and credit societies. Besides, in Muleba, family friend or relative and savings and credit societies were in equal weight as sources of credit, (Chart 3.72).

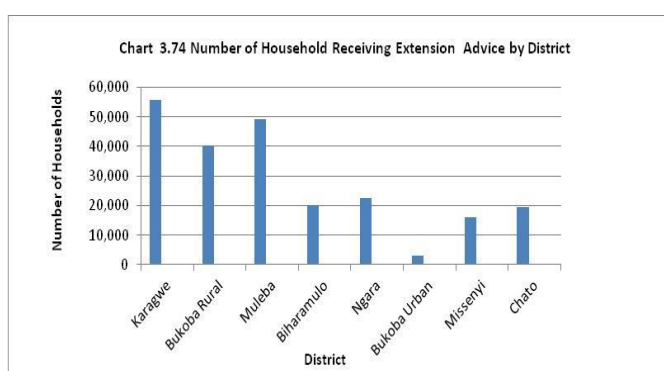


3.8.2 Crop Extension

Out of a total of 401,603 crop growing households, 226,517 households accounting for 56.4% of the total crop growing households received extension advice on crop production while 175,086 households (43.6%) did not, (Chart 3.73).

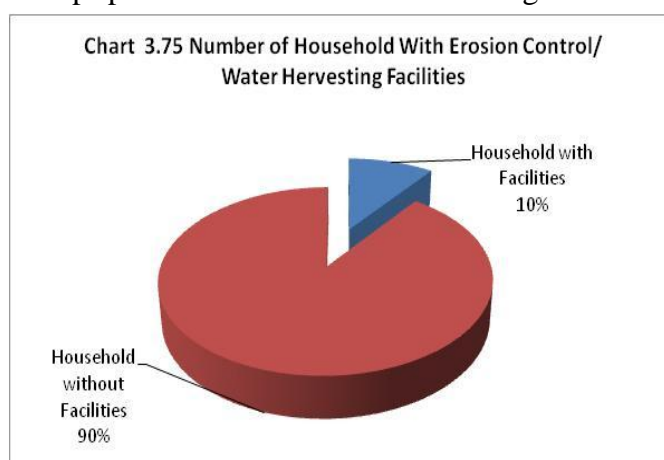


Regarding access to extension service, Karagwe had the largest number of households receiving extension advice (55,859), followed by Muleba (49,151), Bukoba Rural (40,220), Ngara (22,667), Biharamulo (20,155), Chato (19,364), and Missenyi (16,110) while Bukoba Urban had the smallest number of households (2,991), (Chart 3.74).

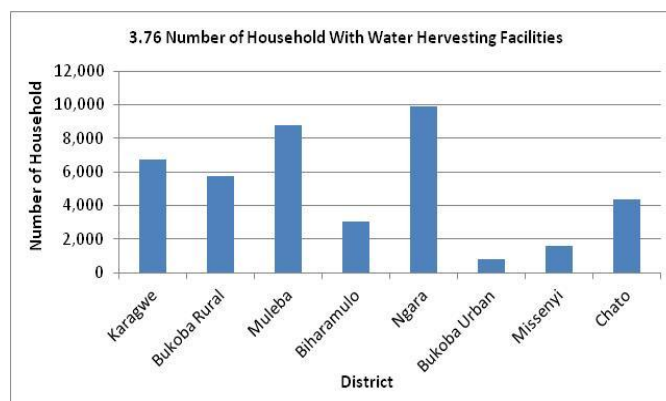


3.9 Erosion Control/Water Harvesting Facilities

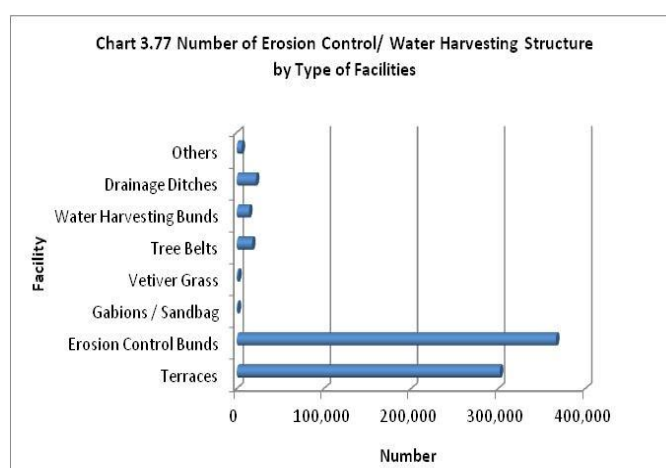
Erosion control and water harvesting facilities have dual purposes of reducing erosion and increasing the amount of water available for crop production. The number of agricultural households that had soil erosion and water harvesting facilities on their farms in the region was 40,993 representing only 10% of the agricultural households while those without structures was 364,917 (90%) in the region (Chart 3.75).

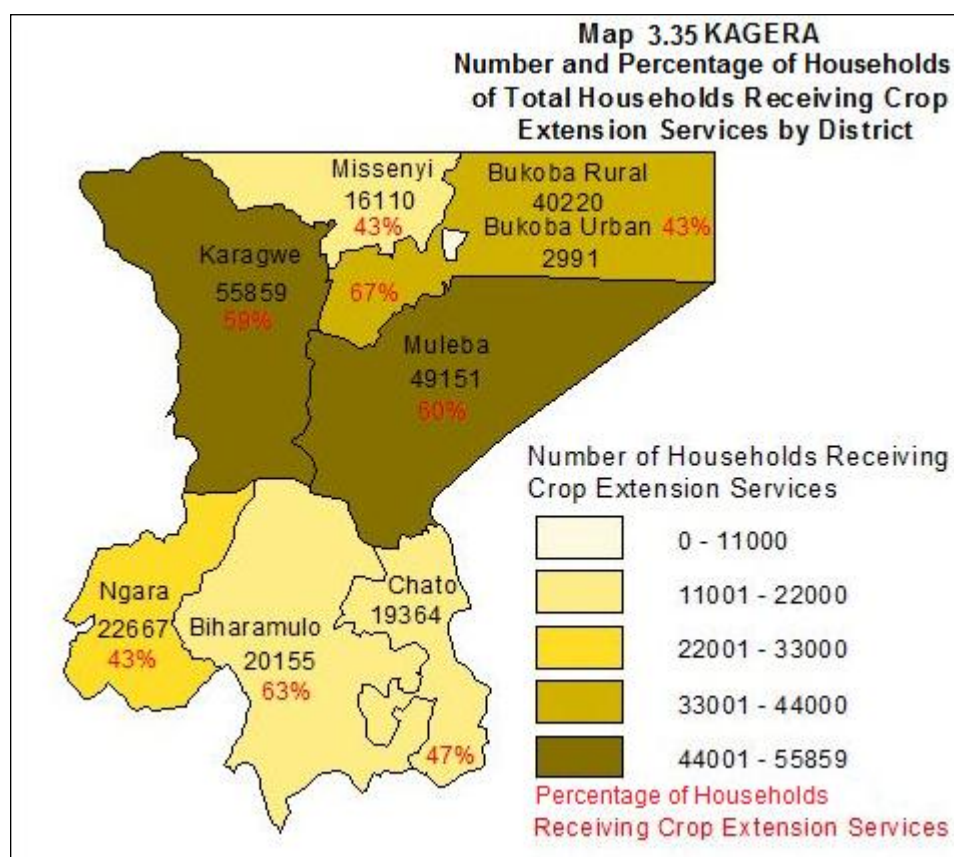


Furthermore, Ngara had the largest number of households with water harvesting facilities (9,917), followed by Muleba (8,770), Karagwe (6,750), Bukoba Rural (5,746), Chato (4,382), Biharamulo (3,059), and Missenyi (1,565) while Bukoba Urban had the smallest number of households (805), (Chart 3.76).



Various types of erosion control and water harvesting structures were used in the region and varied by type and district. The largest number of these structures was comprised of erosion control bunds (366,315), followed by terraces (301,754), drainage ditches (21,841), tree belts (17,518), water harvesting bunds (13,923), other (5,489), Vetiver grass (1,511), and gabions/sandbag (1,047), (Chart 3.77).



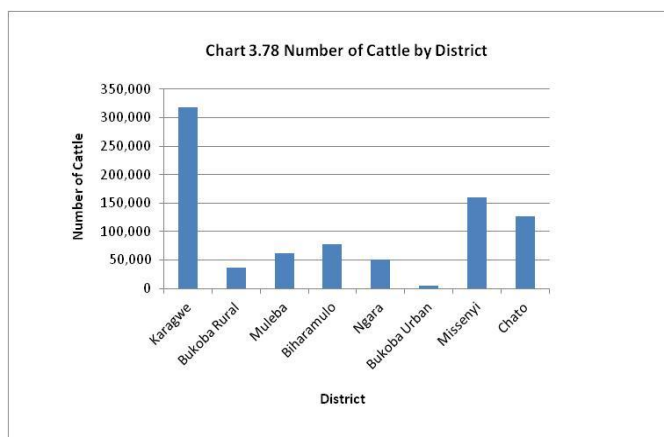


3.10 LIVESTOCK RESULTS

3.10.1 Cattle Production

The total number of cattle in the region was 837,204 owned by 59,890 households. This is equivalent to 14 heads of cattle per cattle rearing household. The region ranked 10th accounting for 3.96% of the total cattle population in Tanzania Mainland.

The largest population of cattle was in Karagwe (318,166), followed by Missenyi (160,545), Chato (127,191), Biharamulo (77,405), Muleba (61,796), Ngara (50,061), Bukoba Rural (36,684) while Bukoba Urban had the smallest population of 5,061 cattle (Chart 3.78, Table 3.18). Besides, Karagwe had the highest density of cattle per km² of land (2,278 heads per km²) while Ngara had the lowest density (643 km²), (Map 3.36).



3.10.1.1 Cattle Population

Most of the cattle in the region were of indigenous type (813,212 cattle; 97.1%). In all the districts the percentage ranged from 72.7% (Bukoba Urban) to 99.8% in Chato District. Beef cattle were reared in an insignificant number and were only kept in Ngara. Improved dairy cattle represented only 2.9% of the cattle population with Karagwe having the largest number (10,241 cattle), followed by Muleba (4,079 cattle) and Bukoba Rural (2,799 cattle), (Table 3.18, Chart 3.79).

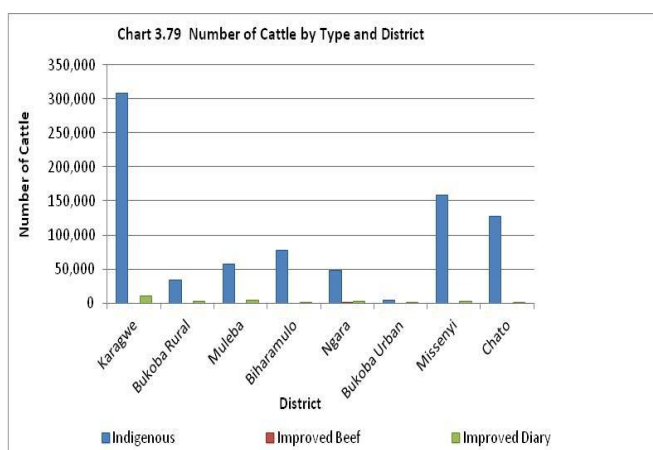
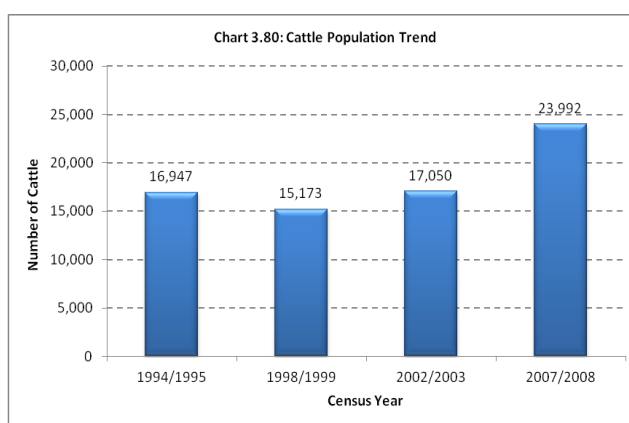


Table 3.17: Number of Cattle by Type and District as of 1st October 2008

District	Indigenous			Beef			Improved Dairy			Total		
	Number of households	Number of Cattle	%	Number of households	Number of Cattle	%	Number of households	Number of Cattle	%	Number of households	Number of Cattle	%
Karagwe	10,008	307,925	96.8	0	0	0.0	5,819	10,241	3.2	15,827	318,166	100
Bukoba Rural	5,451	33,885	92.4	0	0	0.0	1,326	2,799	7.6	6,777	36,684	100
Muleba	6,322	57,717	93.4	0	0	0.0	3,059	4,079	6.6	9,382	61,796	100
Biharamulo	5,019	76,856	99.3	0	0	0.0	157	549	0.7	5,176	77,405	100
Ngara	5,795	48,295	95.9	129	129	0.3	1,030	1,932	3.8	6,955	50,356	100
Bukoba Urban	690	3,681	72.7	0	0	0.0	575	1,380	27.3	1,265	5,061	100
Missenyi	3,314	157,967	98.4	0	0	0.0	1,105	2,578	1.6	4,419	160,545	100
Chato	9,886	126,885	99.8	0	0	0.0	204	306	0.2	10,090	127,191	100
Total	46,486	813,212	97.1	129	129	0.0	13,275	23,863	2.9	59,890	837,204	100

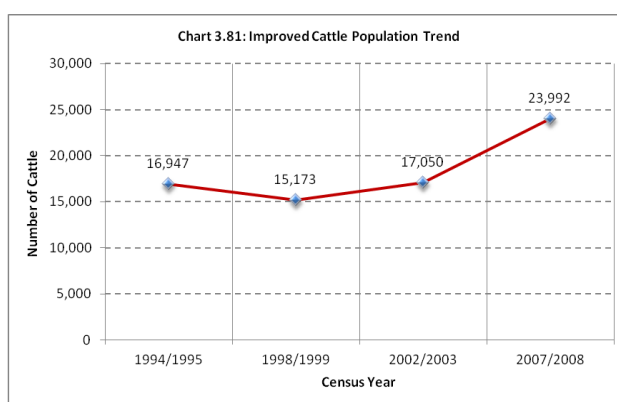
3.10.1.2 Herd Size

About 50 percent of the cattle rearing households had herd size 1-5 cattle with an average of three (3) cattle per household. Herd size of 6-10 accounted for 21.6% of cattle rearing households in the region. Household with herd size of 11-50 accounted for 22.7 percent while herd size of 51 and above accounted for only 6%. Generally, all cattle rearing households had an average herd size of 15 cattle per household.



3.10.1.3 Cattle Population Trend

During the 13-year period, the cattle population in the region increased from 354,119 in 1995 to 837,204 cattle in 2008. This implies an overall positive annual growth rate of 10.5 percent. There was an increase in the number of cattle over the 5 year period from 1995 to 1999 at an annual rate of 17.7 percent whereby the number increased from 354,119 to 667,745. The increase in population was also observed between years 1999 to 2003 with an annual growth rate of 6.6 percent. However, the number of cattle decreased from 886,474 in 2003 to 837,204 in 2008 at a negative annual growth rate of - 0.9 percent, (Chart 3.80).



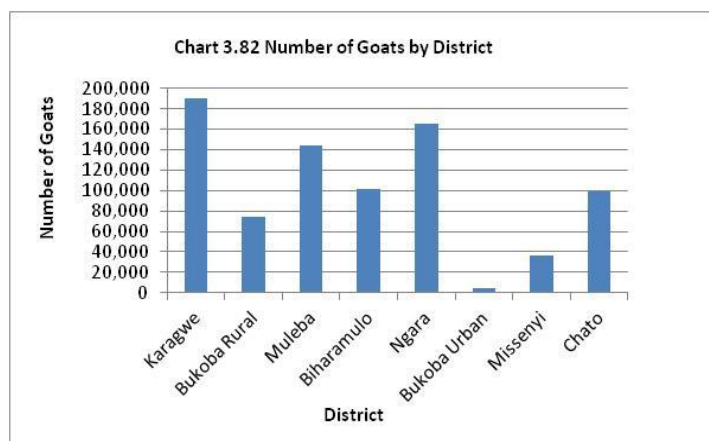
3.10.1.4 Improved Cattle Breeds

The total number of improved dairy cattle in the region was 23,992 and constituted 2.9% of the cattle population. The number of dairy cattle increased from 16,947 in 1995 to 23,992 in 2008 at an annual growth rate of 3.2 percent. However, between years 1995 and 1999 there was a decline in number of improved cattle to 15,173 heads equivalent to –ve 2.00 percent (Chart 3.81). In general, the number of beef cattle in the region was insignificant.

3.10.2 Goat Production

3.10.2.1 Goat Population

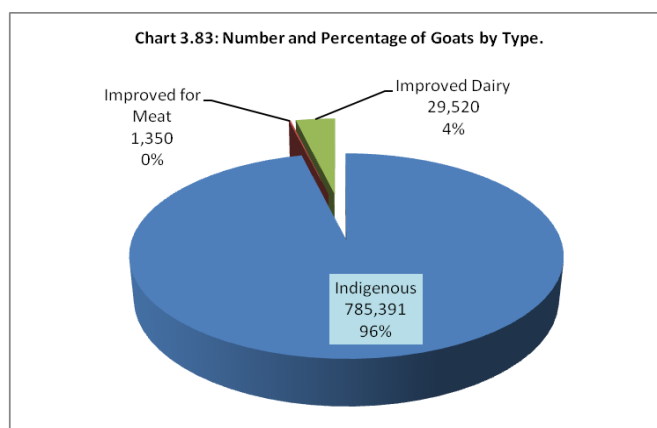
Goat rearing was the second most important livestock activity in the region followed by sheep and pig rearing. A total of 816,260 goats were kept in the region. Karagwe district had the largest number of goats (189,689) accounting



for 23 percent of the total goats in the region, followed by Ngara (165,234 goats; 20%) and Muleba (144,599 goats; 18%). Biharamulo and Chato district accounted for more or less the same percentage of goats (101,874 goats; 12.5%) and (98,960 goats; 12%) respectively. Bukoba Rural had 74,400 goats (9%) and Missenyi had 36,730 goats (4%) while the smallest number of goats was in Bukoba Urban (4,774 goats; 1%) (Table 3.19, Chart 3.82, Map 3.45). However Ngara district had the highest density (2,117 heads per km²) while Bukoba Urban recorded the lowest density (969 head per km²), (Map 3.37).

3.10.2.2 Goat Flock Size

About 91 percent of the goat rearing households had flock size of 1-4 goats with an average of 2 goats per household. About 70% of the total goat flock in the region was in this category. Goat rearing households with flock size of 5-9



accounted for 7% with an average of 6 goats per household and 17% of the total goat flock in the region. The remaining 13% of the total goat flock had households with flock size of 10 goats and above accounting for 2% of goat rearing households with 11 – 33 goats per household.

3.10.2.3 Goat Breeds

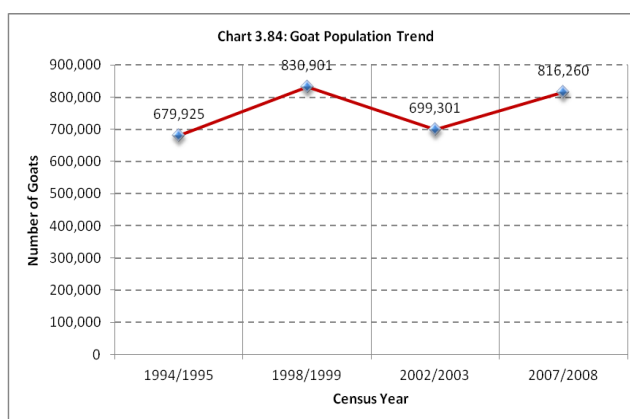
Most of the goats kept in the region were of indigenous type accounting for 96% (785,391 goats) of the goat population while improved goats for meat was 0.2% (1,350 goats) and improved dairy goats represented only 3.6% (29,520 goats). Karagwe had the largest number of indigenous goats (185,034 goats) while Bukoba Urban had the smallest number (4,429 goats). Also, improved goats for meat were kept in three districts only of Muleba, Bukoba Rural and Missenyi. Muleba had the largest number of improved goats for meat (816 goats) followed by Bukoba Rural (442 goats) while Missenyi had the smallest number (92 goats). Furthermore, the largest number of dairy goats was raised in Muleba (19,783) followed by Karagwe (4,655 goats) while the smallest number was in Bukoba Urban (345 goats), (Chart 3.83, Table 3.19).

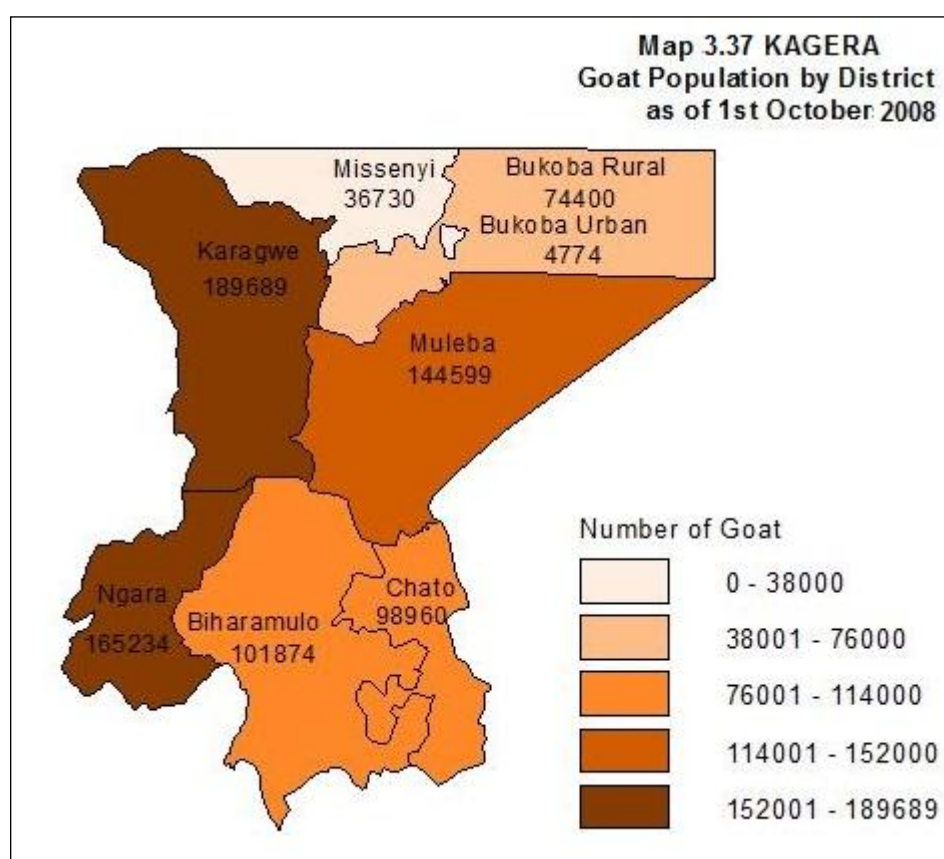
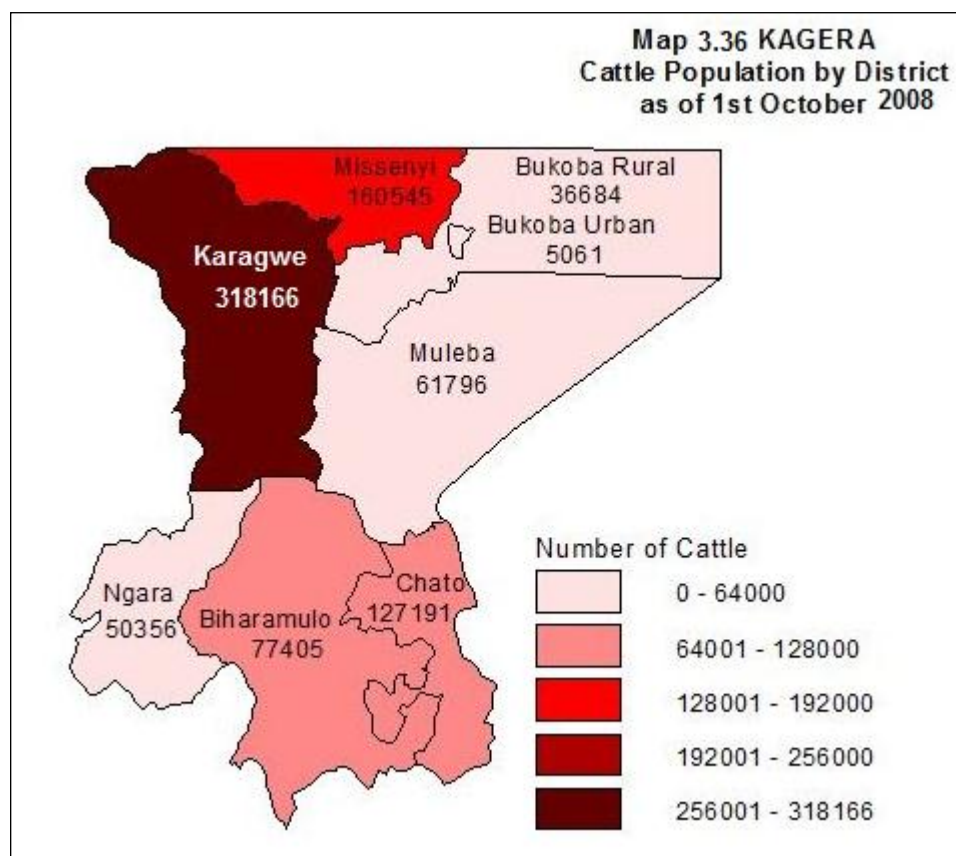
Table 3.18: Number of Goats by Type and District as of 1st October 2008

District	Indigenous			Improved for Meat			Improved Dairy			Total	
	Number of households	Number of Goats	%	Number of households	Number of Goats	%	Number of households	Number of Goats	%	Number of households	Number of Goats
Karagwe	34,447	185,034	97.5	0	0	0.0	233	4,655	2.5	34,679	189,689
Bukoba Rural	19,742	72,190	97.0	147	442	0.6	1,031	1,768	2.4	20,331	74,400
Muleba	30,796	124,000	85.8	204	816	0.6	2,243	19,783	13.7	32,428	144,599
Biharamulo	14,822	101,482	99.6	0	0	0.0	157	392	0.4	14,822	101,874
Ngara	33,227	163,947	99.2	0	0	0.0	129	1,288	0.8	33,227	165,234
Bukoba Urban	920	4,429	92.8	0	0	0.0	173	345	7.2	1,035	4,774
Missenyi	10,034	35,349	96.2	92	92	0.3	368	1,289	3.5	10,218	36,730
Chato	14,982	98,960	100	0	0	0.0	0	0	0.0	14,982	98,960
Total	158,970	785,391	96.2	443	1,350	0.2	4,334	29,520	3.6	161,723	816,260

3.10.2.4 Goat Population Trend

The overall average annual growth rate of goat population from 1995 to 2008 was 1.5 %. The population of goats increased by 4.4% between 1995 and 1999. Thereafter, the population decreased between 1999 and 2003 at an annual growth rate of -3.2 %. However, from 2003 to 2008 goat population increased by 16.7% with an annual growth rate of 2.8%, (Chart 3.84).



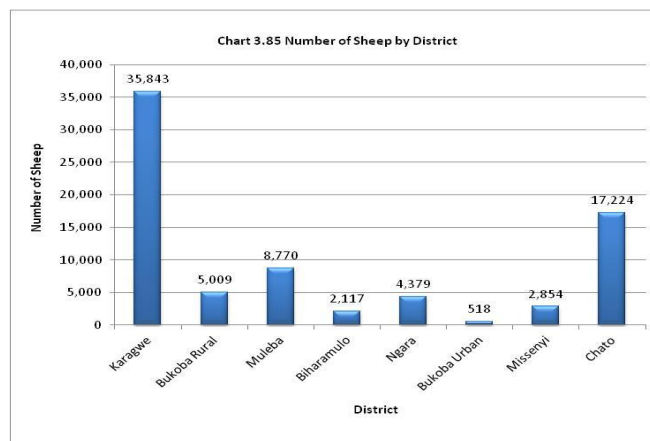


3.10.3 Sheep Production

Sheep rearing was the third most important livestock keeping activity in region after cattle and goats. The region ranked 14 out of 21 Mainland regions and had 1.34 percent of all sheep on Tanzania Mainland.

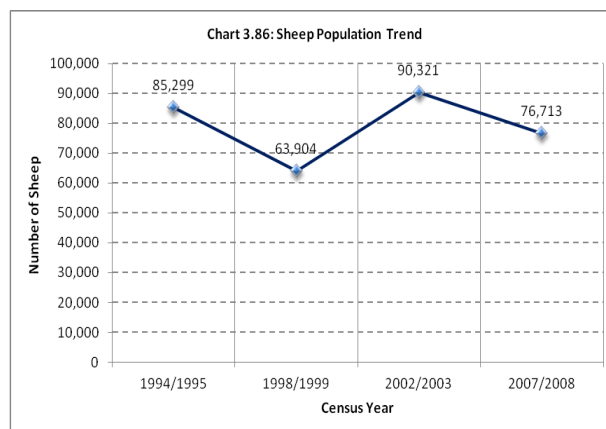
3.10.3.1 Sheep Population

The number of sheep-rearing households was 18,718 (or 5% of all agricultural households in the region) rearing 76,713 sheep, giving an average of 4 heads of sheep per sheep rearing household. The district with the largest number of sheep was Karagwe with 35,843 sheep (46.7% of total sheep in the region) followed by Chato (17,224 sheep, 22.5%), Muleba (8,770 sheep, 11.4%), Bukoba Rural (5,009 sheep, 6.5%) and Ngara (4,379 sheep, 5.7%). Bukoba Urban district had the least number of sheep (518 sheep, 0.7%), (Chart 3.85 and Map 3.38). Sheep rearing was dominated by the indigenous breeds which accounted for all sheep kept in the region.



3.10.3.2 Sheep Population Trend

The overall annual growth rate of the sheep population over the thirteen-year period from 1995 to 2008 is estimated at negative 0.8%. The population declined at an average annual rate of growth of -5% from 85,299 in 1995 to 63,904 in 1999. There was an annual average growth of 2.3% from 1999 to 2003. From 2003 to 2008, sheep population declined again at an average annual rate of growth of -2.5%, (Chart 3.86). Moreover, Karagwe had the highest density of sheep per km² (257 head/km²) and the lowest density was recorded in Biharamulo (22 heads/km²).

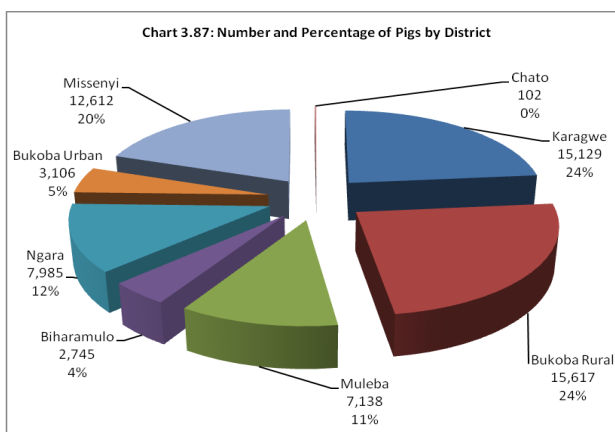


3.10.4 Pig Production

Piggery was the least important livestock keeping activity in the region after cattle, sheep and goats. The region ranked 9th out of the 21 Mainland Tanzania and had 5% of the Mainland total pigs. The number of pig-rearing agricultural households in the region was 37,978 (9.4% of the total agricultural households in the region) rearing 64,432 pigs. This gives an average of 2 pigs per pig-rearing household.

3.10.4.1 Pig Population

The total population of pigs in the region was 64,432. The pig herd structure shows that sow/gilt type accounted for the highest percent of pigs (61%) followed by boar (26%), male piglet (6%), castrated male (4%), and she piglet (3%). Districts wise, Bukoba Rural had the largest number of pigs (15,617 pigs; 24%), Karagwe (15,129 pigs; 23.5%), Missenyi (12,612 pigs, 20%), Ngara (7,985 pigs; 12%), Muleba (7,138 pigs; 11%), Bukoba Urban (3,106 pigs; 5%), and Biharamulo (2,745 pigs; 4%) while Chato had the smallest number (102 pigs. 0.2%) (Chart 3.87, Table 3.20). The highest density of pigs was in Bukoba Urban (630 heads/km²) while Chato had the lowest density (1 head/km²), (Map 3.39).



3.10.4.2 Pig Population Trend

The overall average annual growth rate of the pig population over the thirteen-year period from 1995 to 2008 was 34%. During this period the population grew from 11,847 in 1995 to 64,432 in 2008. The pig population increased from 11,847 in 1995 to 54,091 in 1999 at a higher average annual growth rate of 71%. The growth rate dropped to a negative 2.0% in a four year period from 1999 to 2003 in which the pig population decreased from 54,091 to 47,508. Between 2003 and 2008 there was an increase with annual growth rate of 6%, (Chart 3.88).

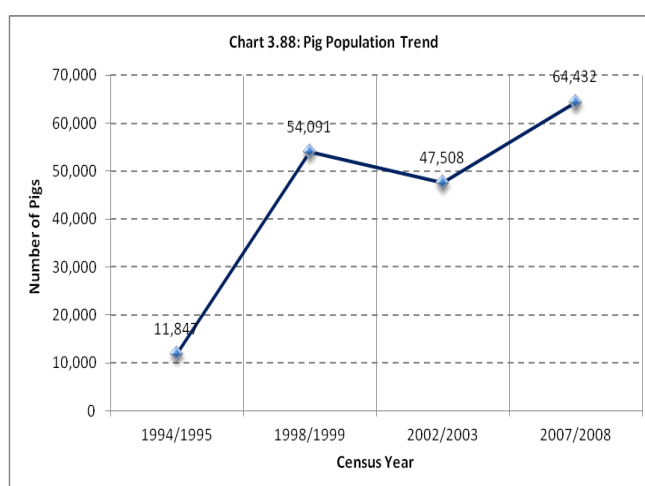


Table 3.19: Number of Indigenous Pig by Herd Structure and District during the 2007/08 Agricultural Year

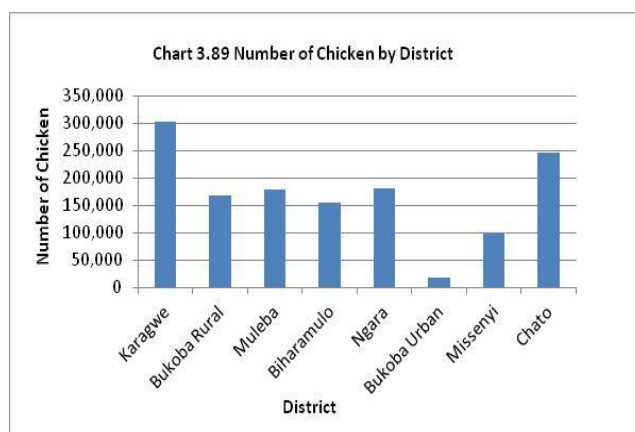
District	Pig Herd Structure											
	Boar		Castrated Male		Sow/Gilt		Male Piglet		She Piglet		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	3,026	25	931	6	10,706	67	465	2	0	0	15,129	100
Bukoba Rural	3,683	27	442	4	9,576	58	589	5	1,326	6	15,617	100
Muleba	2,039	31	0	0	4,283	59	816	9	0	0	7,138	100
Biharamulo	627	31	0	0	941	38	549	15	627	15	2,745	100
Ngara	2,061	27	0	0	5,152	63	644	8	129	2	7,985	100
Bukoba Urban	1,265	32	58	3	1,323	52	58	3	403	10	3,106	100
Missenyi	1,565	20	736	9	8,377	61	644	7	1,289	4	12,612	100
Chato	0	0	0	0	102	100	0	0	0	0	102	100
Total	14,267	26	2,167	4	40,460	61	3,765	6	3,774	3	64,432	100

3.10.5 Chicken Production

Rearing of chicken has remained to be one of the most important agricultural activities in the region. The poultry sector was mostly dominated by indigenous chicken (98.5%) followed by layers (0.9%) while broilers accounted for only 0.6 % of the regional total. The region contributed 3.1% of the total chicken population in Tanzania Mainland.

3.10.5.1 Chicken Population

The total number of chicken in the region was 1,346,650 kept by 187,179 households giving an average of seven (7) chickens per chicken rearing household. Most of the chicken were of indigenous type (1,326,534, 98.5%), followed by layers (12,106, 0.9%), and broilers (8,010, 0.6%).



Karagwe had the largest number of chickens (303,270), followed by Chato (245,821), Ngara (181,591), Muleba (179,066), Bukoba Rural (167,068), Biharamulo (154,575), and Missenyi (98,407) while Bukoba Urban had the smallest number (16,852) (Table 3.21, 3.89 and 3.44). Furthermore, Bukoba Urban had the highest density of chicken (3,419) while the lowest density was recorded in Missenyi (1,366), (Map 3.40).

3.10.5.2 Chicken Population Trend

The chicken population trend shows a steady increase from 1,094,451 in 1999 to 1,498,957 chicken in 2003. Thereafter, the population decreased at an annual rate of negative 7.7% from 1,498,957 in 1999 to 918,858 in 2003. The increase was observed from 2003 to 2008 where the chicken population increased from 918,858 to 1,346,650 in 2008, (Chart 3.90).

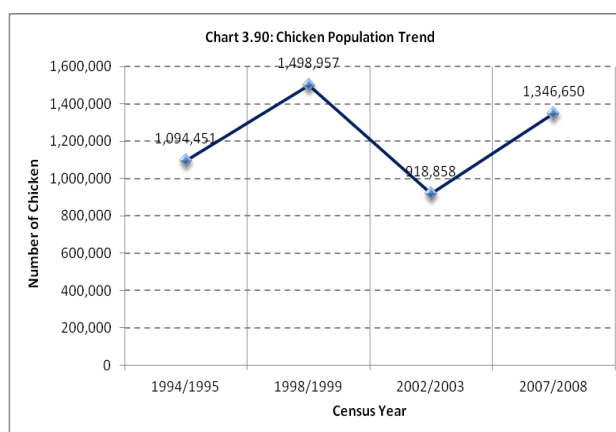


Table 3.20: Number of Chicken by Type and District as of 1st October 2008

Region	Indigenous chicken			Layers			Broilers			Total	
	Number of Households	Number of Indigenous Chicken	%	Number of Households	Number of Layers	%	Number of Households	Number of Broilers	%	Number of Households	Number of Chicken
Karagwe	45,618	302,804	99.8	233	465	0.2	0	0	0.0	45,851	303,270
Bukoba Rural	25,340	166,037	99.4	147	1,031	0.6	0	0	0.0	25,487	167,068
Muleba	28,553	179,066	100.0	0	0	0.0	0	0	0.0	28,553	179,066
Biharamulo	15,685	153,791	99.5	78	784	0.5	0	0	0.0	15,763	154,575
Ngara	28,076	170,515	93.9	773	7,856	4.3	258	3,220	1.8	29,106	181,591
Bukoba Urban	2,243	16,852	100.0	0	0	0.0	0	0	0.0	2,243	16,852
Missenyi	16,846	97,763	99.3	92	644	0.7	0	0	0.0	16,938	98,407
Chato	22,727	239,706	97.5	204	1,325	0.5	306	4,790	1.9	23,237	245,821
Total	185,088	1,326,534	98.5	1,527	12,106	0.9	563	8,010	0.6	187,179	1,346,650

3.10.5.3 Chicken Flock Size

The results show that about 98% of all indigenous chicken rearing households in the region had 1 to 49 chicken with an average of 7 chicken per household. Households with flock size of 50 to 99 had an average of 54 chicken per household while flock size of 100 – 299 had an average of 115 chicken per household. For households rearing layers, 1 to 49 category of flock size had an average of 8 layers per household while the same category of flock size for boilers was 14 chicken per household.

3.10.5.4 Improved Chicken Breeds (Layers and Broilers)

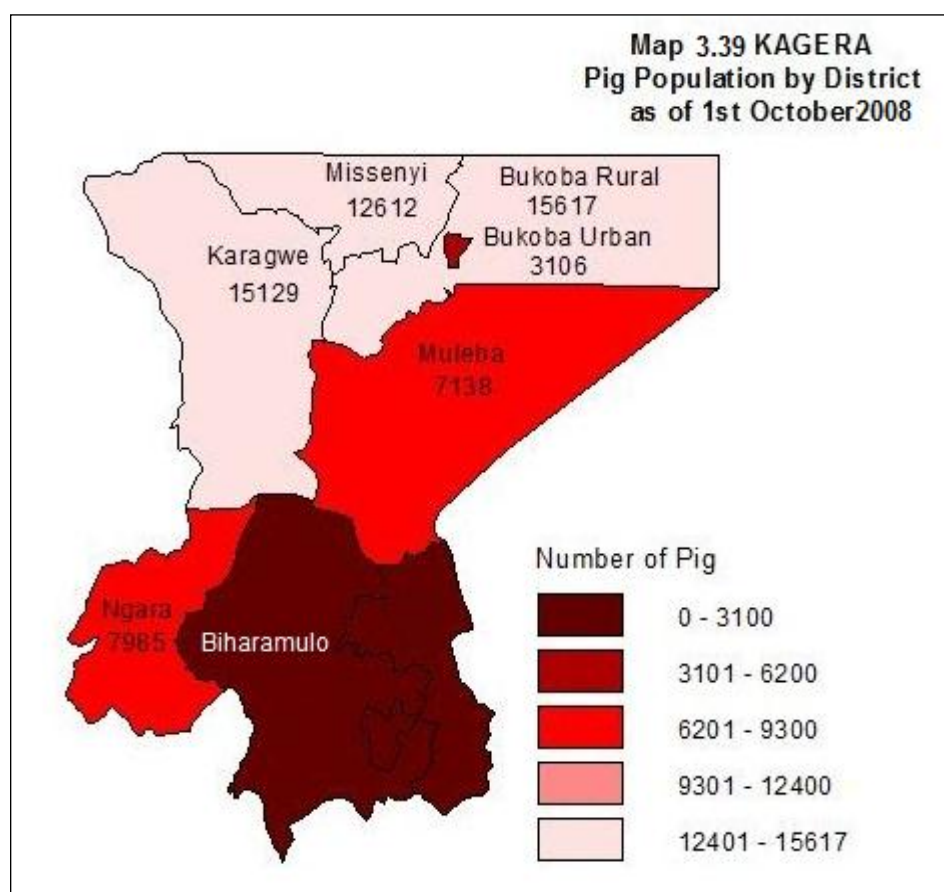
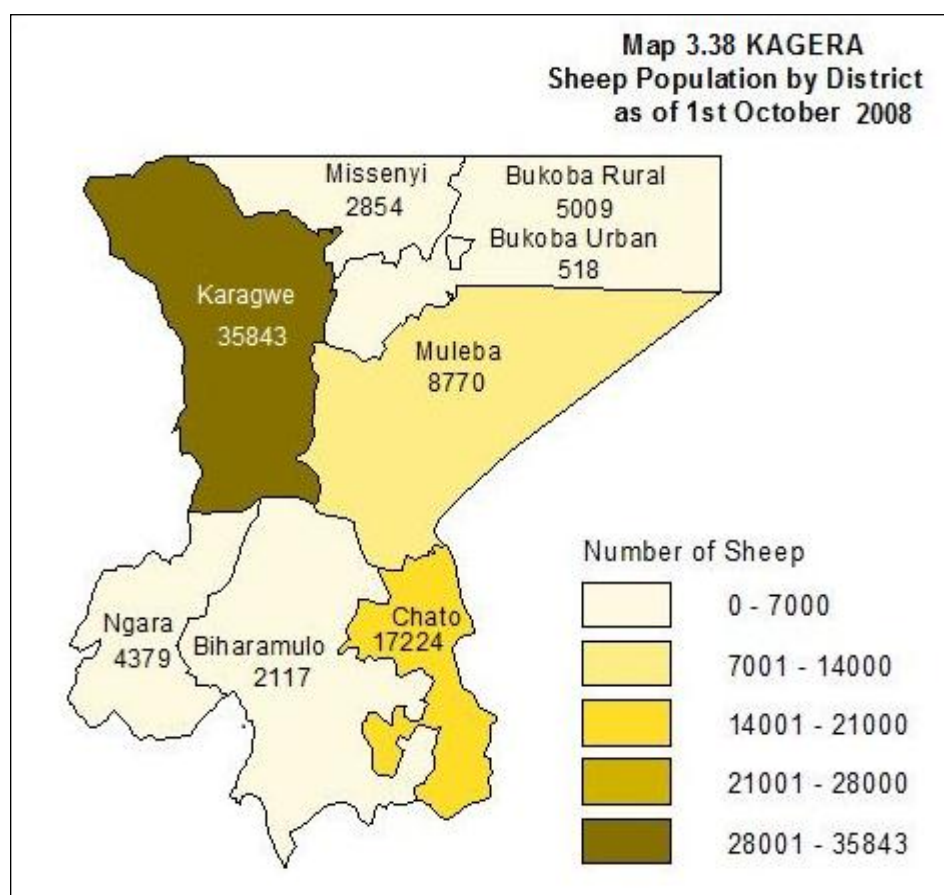
The number of improved chicken was 20,116 out of which layers represented 60% of the improved chicken in the region. In contrast, broilers accounted for only 40% (8,010 broilers) of the population. The largest number of layers was recorded in Ngara (7,856) while Chato recorded the largest number of broilers (4,790), (Chart 3.90).

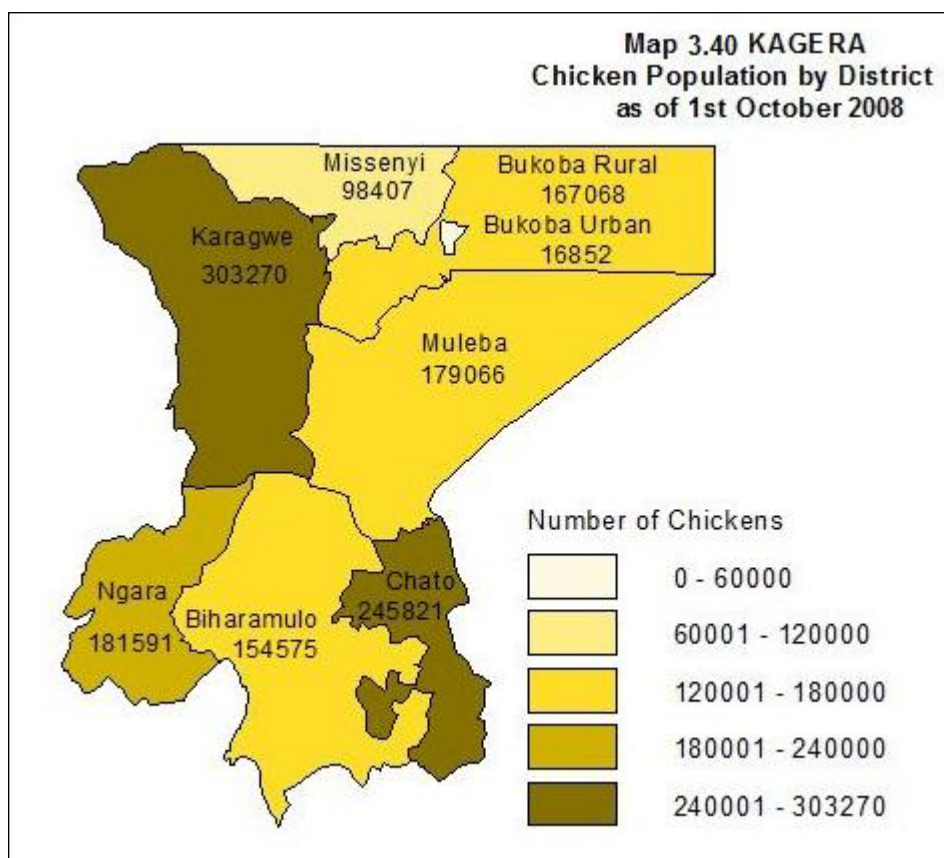
3.10.6 Other Livestock

Other livestock reared in the region include ducks, guinea pigs, turkeys, rabbits, and dogs. The region had 41,717 ducks, 2,631 guinea pigs, 10,433 rabbits and 26,940 dogs. Chato district had the largest number of ducks (i.e. 20,995 ducks) accounting for 50.3 percent of all the ducks raised in the region followed by Ngara (6,826 ducks, 16.4%), Biharamulo (6,039 ducks, 14.5%), Missenyi (3,314 ducks, 7.9%) and Karagwe (3,026, 7.3%). Guinea pigs were reported in Bukoba Rural (884), Ngara (773) and Bukoba Urban (58). Turkeys were reported only in Muleba (408) and Bukoba Rural (295). Rabbits were reared mainly in Karagwe (2,793), Ngara (2,189) and Muleba (2,039). Dogs were reported in large numbers in Karagwe (4,888), Muleba (4,079) and Ngara (3,348), (Table 3.22).

Table 3.21: Number of Other Livestock by Type of Livestock and District as of 1st October 2008

District	Ducks	Guinea Pigs	Turkeys	Rabbits	Dogs
Karagwe	3,026	0	0	2,793	4,888
Bukoba Rural	295	884	295	1,473	2,210
Muleba	1,224	0	408	2,039	4,079
Biharamulo	6,039	0	0	314	2,745
Ngara	6,826	773	0	2,189	3,348
Bukoba Urban	0	58	0	0	58
Missenyi	3,314	0	0	1,013	644
Total	41,717	2,631	703	10,433	26,940

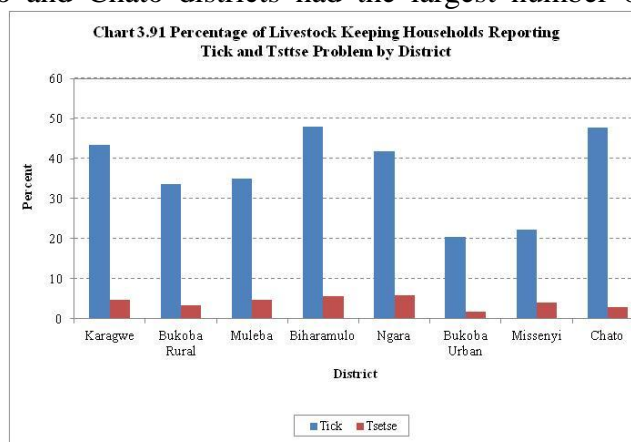




3.10.7 Pest and Parasites Incidence and Control

3.10.7.1 Ticks and Tsetse Flies Incidences

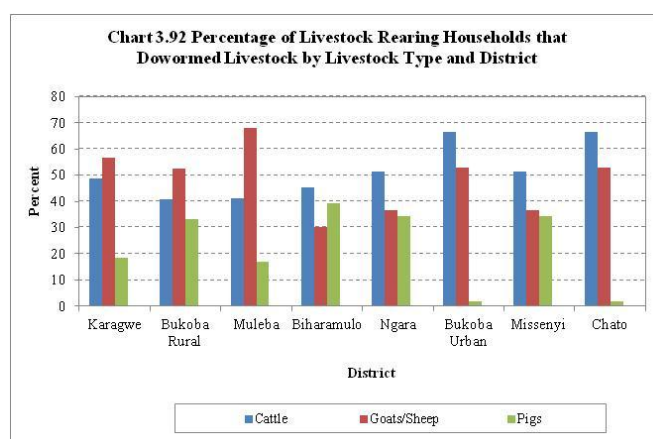
Incidences of ticks and tsetse flies were reported by livestock keeping households in the region. With regard to incidences of ticks, Biharamulo and Chato districts had the largest number of households reporting incidences of tick infestation (48% of the livestock rearing households in each district) followed by Karagwe district (43%), Ngara (42%), Muleba (35%), Bukoba Rural (34%) and Missenyi (22%). Bukoba Urban had the lowest percentage (20%) of the households rearing livestock in the district which reported tick problem, (Chart 3.91 and Map 3.41).



Tsetse flies problem was reported in small percentages in all the districts (i.e. 4.5 percent of the total number of livestock rearing households in the region. Biharamulo and Ngara districts each had the highest percentage of 6% of the households reporting incidences of Tsetse Flies, followed by Karagwe and Muleba (5%) while Bukoba Urban recorded the lowest percentage (2%). Generally, in all the districts incidences of ticks were much higher than those of Tsetse Flies, (Chart 3.91).

3.10.7.2 Deworming

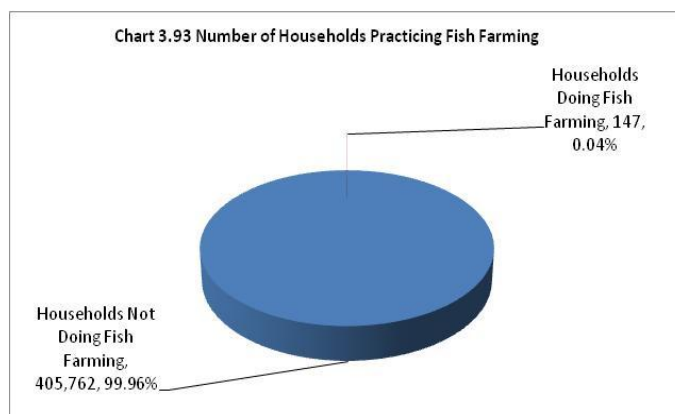
A total of 104,416 livestock keeping households reported having dewormed their livestock. Specifically, a total of 46,952, 63,915/18,588, and 15,488 households reported deworming cattle, goats/sheep, and pigs respectively in the region. Bukoba Urban and Chato recorded the highest percentage of



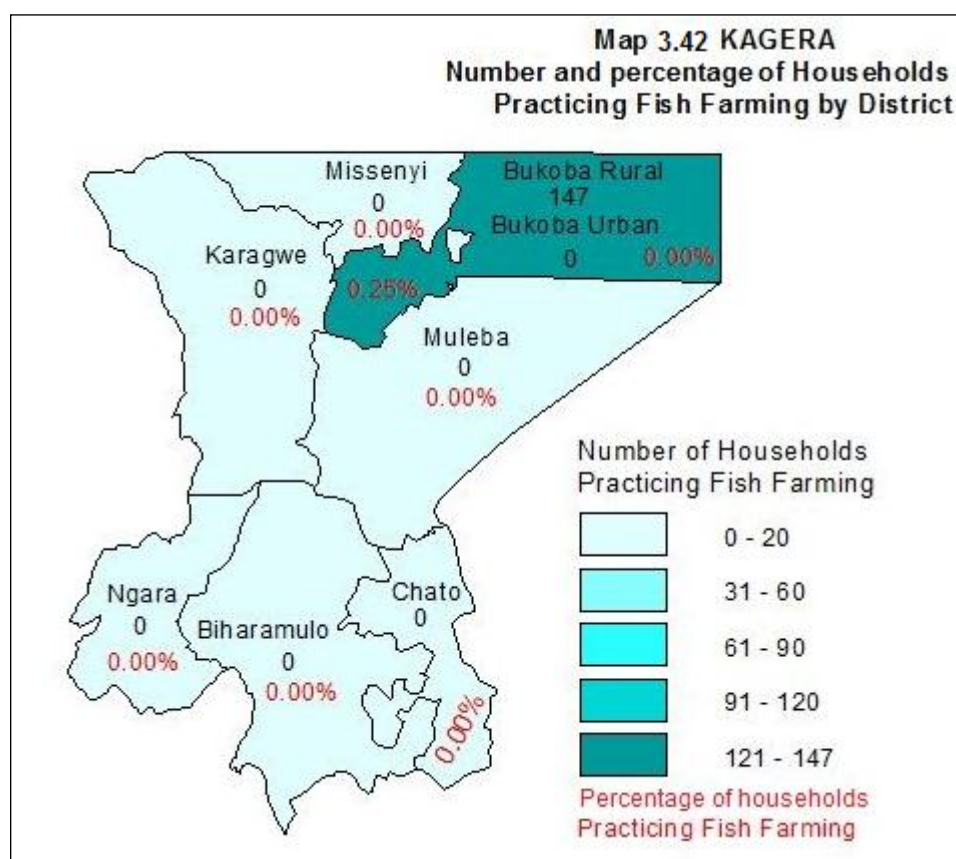
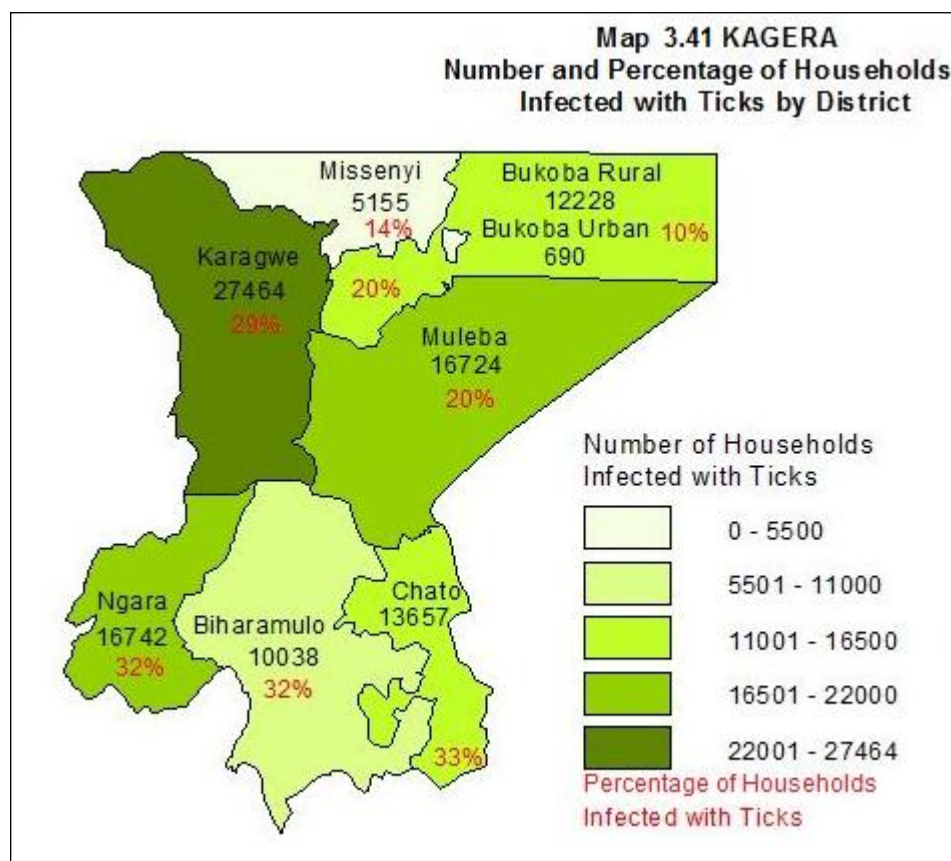
the households reporting deworming of cattle, followed by Ngara, Missenyi and Karagwe while the lowest percentage was in Bukoba Rural and Muleba each with 41%. Furthermore, Muleba recorded the highest percentage of the households reporting deworming of goat/sheep. Biharamulo had the highest percentage of the households reporting deworming of pigs while the lowest percent was recorded in Bukoba Urban and Chato each with 2%, (Chart 3.92).

3.11 Fish Farming

The number of households involved in fish farming in the region was 147 representing 0.04% of the total agricultural households in the region. Fish farming was only practiced in Bukoba Rural by 147 households in natural fish ponds. Majority of the households (405,762, 99.96%) did not practice fish farming, (Chart 3.93 and Map



3.42). The fish stocked in these ponds were of *Tillapia* type. A total of 12,670 fish weighing 18,005 kg were harvested and about 17,679 kg were sold.



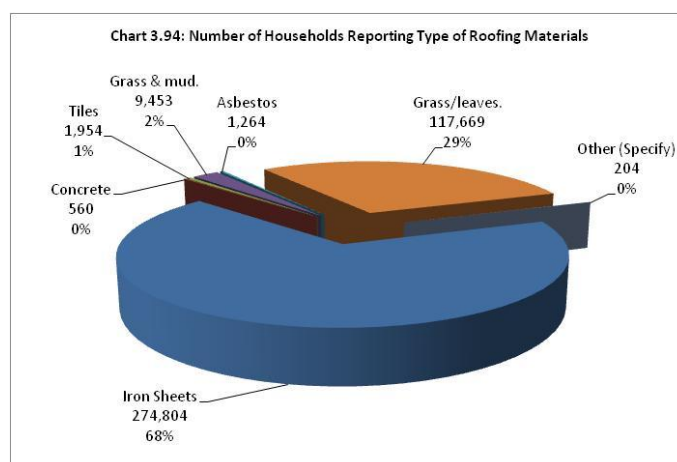
3.12 POVERTY INDICATORS

Data on poverty were collected for the purpose of providing a base for tracking progress in poverty reduction strategies undertaken by the Government. Specific attention was paid to indicators such as housing characteristics, household property, energy use and availability in the household, availability of drinking water, toilet facilities, eating patterns and main source of household cash income.

3.12.1 Housing Characteristics

Roofing Materials

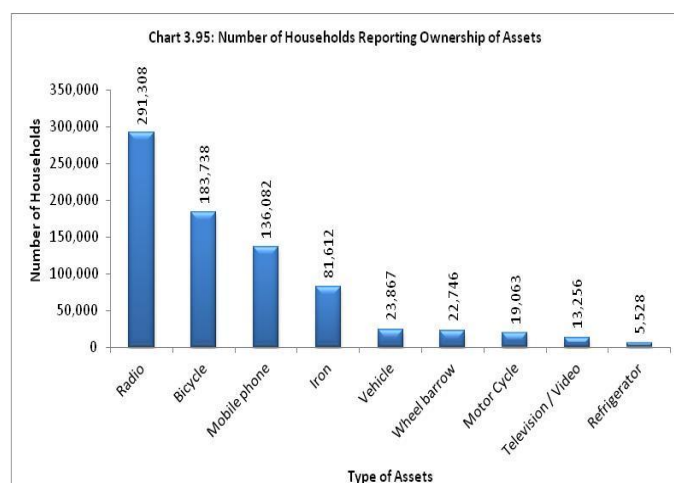
Different types of roofing materials were used in the region including iron sheets, grass/leaves, grass and mud, concrete, tiles etc. However, the most used roofing material was iron sheets accounting for 68 percent of the total agricultural households in the region followed by grass/leaves 29%. Other types of roofing materials were used



in small numbers. Karagwe district had the largest number of households using iron sheets followed by Muleba and Bukoba rural. Ngara had the largest number of households using leaves or grass for roofing (25,758), followed by Muleba (19,987) and Chato (17,224) while the smallest number was recorded in Bukoba Urban (518), (Chart 3.94, 3.46).

3.12.2 Household Property/Assets

Radios were owned by most of the rural agricultural households in region with 291,308 households (72% of the agricultural households owning assets in the region) followed by bicycles (183,738), mobile phones (136,082), iron (81,612), vehicles (23,867), wheel barrows (22,867), motor

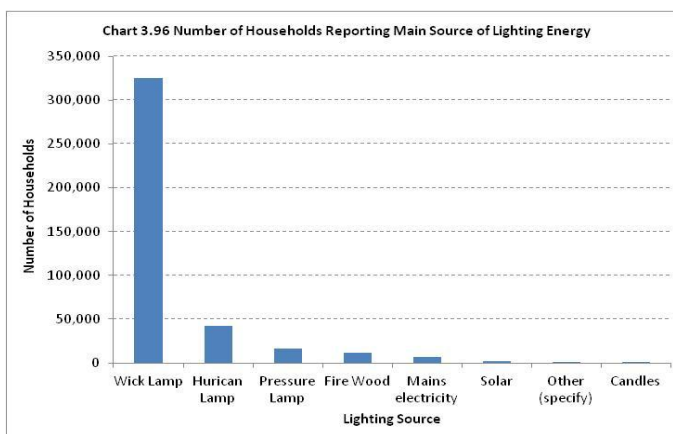


cycles (19,063), televisions (13,256) and refrigerators (5,528). Karagwe had the highest number of households owning bicycles followed by Muleba, Bukoba Rural and Chato. Mobile phones were mostly owned in Muleba, Karagwe and Bukoba Rural, (Chart 3.95).

3.12.3 Energy use and Availability in the Household

Source of Lighting Energy

Wick lamp was the most common source of lighting energy in the region with 80 percent of the total agricultural households using this type of energy for lighting followed by hurricane lamp (10%), pressure pump (4%), fire wood (3%), main electricity (2%) and solar (1%). Wick lamps were mostly used in Karagwe and Muleba districts while hurricane lamps were commonly used in Karagwe, Chato, Bukoba Rural and Muleba districts. Mains electricity was widely used in Muleba, Missenyi and Bukoba Urban districts, (Chart 3.96).



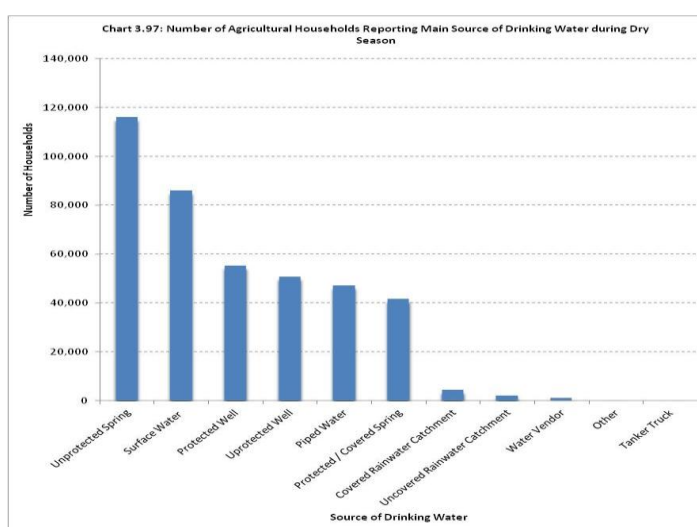
Source of Energy for Cooking

The most common source of energy for cooking was firewood used by 96% of all the agricultural households in the region followed by charcoal (3%) while other sources accounted for only 1 (one) percent

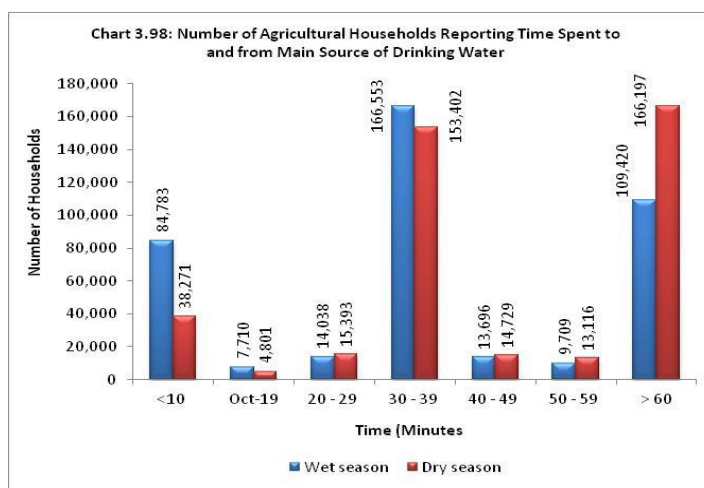
3.12.4 Availability of Drinking Water

Access to Drinking Water

There were various sources of drinking water in the region. However, the main source of drinking water reported by the agricultural households during the dry season was unprotected springs (29%) followed by surface water (e.g. lake/dam/river/stream) (21%), protected wells (14%), unprotected well (13%), piped water (12%), protected/covered springs (10%), uncovered rain water catchments and covered rain water catchment (1%), (Chart 3.97).



The most common distance to the source of drinking water was between 1 and 2 km. The highest percentage of the households both during the wet season (33%) and dry season (35%) obtained water within a distance of 1 to 1.99 km. Households spending more than one hour to and from the source of water accounted for 27% (166,038 hh) in wet season and 41% (153,402 hh) in dry season while those spending 30 to 39 minutes accounted for 41% (166,038 hh) and 38% (153,402 hh), (Chart 3.98).



3.12.5 Toilet Facilities

Traditional pit latrines were commonly used by most of the households in the region accounting for 89% of the households which reported types of toilets that they normally used followed by improved pit latrines (household owned) (4%) and flush toilets (1%). Karagwe had the highest number of households using flush toilets while about 6% (25,339 households) had no toilets or they used bushes or other facilities. Karagwe district had the largest number of households without toilets (6,051 hh) followed by Chato (5,096), Muleba (4,895 hh), Bukoba Rural (3,389 hh), Ngara (2,962 hh) and Biharamulo (2,117 hh). Missenyi had the smallest number of households without toilets (829 hh), (Table 3.23, Chart 3.99 and Map 3.43).

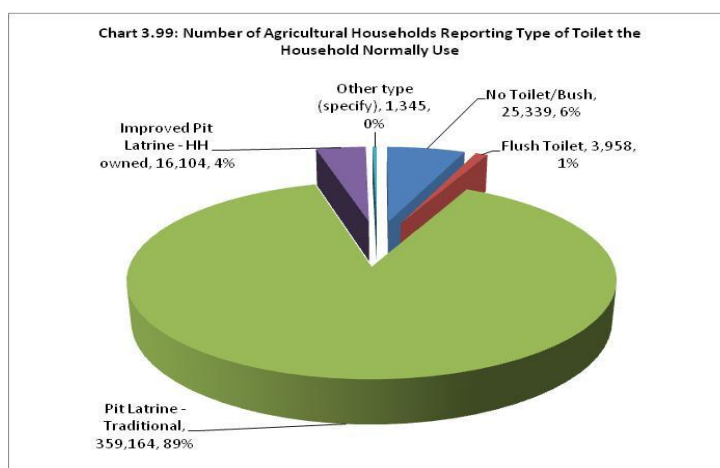


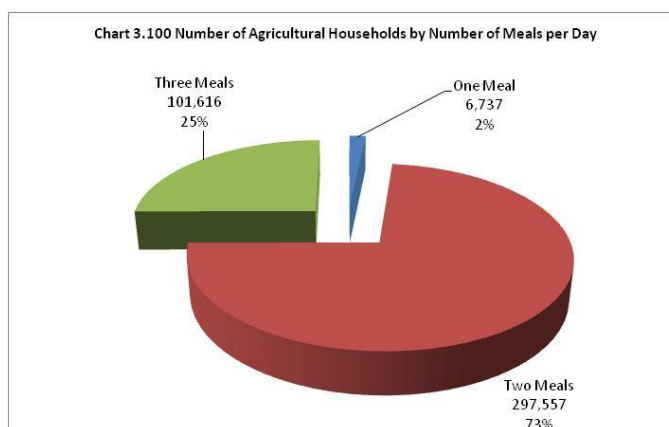
Table 3.22: Number of Agricultural Households Reporting Type of Toilet the Household Normally Use by District, 2007/08 Agricultural Year

District	No Toilet/Bush		Flush Toilet		Pit Latrine - Traditional		Improved Pit Latrine - Hh owned		Other Type (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	6,051	6	1,396	1	82,858	88	3,491	4	465	0	94,263	100
Bukoba Rural	3,389	6	589	1	53,627	90	2,063	3	0	0	59,667	100
Muleba	4,895	6	816	1	75,053	91	1,836	2	0	0	82,599	100
Biharamulo	2,117	7	235	1	27,919	88	1,255	4	235	1	31,762	100
Ngara	2,962	6	129	0	46,750	90	1,674	3	644	1	52,159	100
Bukoba Urban	0	0	230	3	5,406	78	1,265	18	0	0	6,902	100
Missenyi	829	2	460	1	34,429	92	1,565	4	0	0	37,283	100
Chato	5,096	12	102	0	33,123	80	2,956	7	0	0	41,276	100
Total	25,339	6	3,958	1	359,164	88	16,104	4	1,345	0	405,910	100

3.12.6 Food Consumption Pattern

3.12.6.1 Number of Meals per Day

The majority of households in the region had two (2) meals per day (73%) while 25% (101,616 households) had three meals per day. On the other hand, only two percent (6,737 households) had one meal per day, (Chart 3.100).



Ngara district had the highest percentage of the households eating one meal per day while none of the households in Bukoba Urban belonged to this category. Furthermore, Ngara had the highest percentage of households which had two meals per day (92%) while the lowest percentage was recorded in Missenyi (42%). The highest percentage of the households which had three meals per day was in Missenyi (57%) while Ngara had the lowest percentage of the households in this category (4%), (Table 3.24).

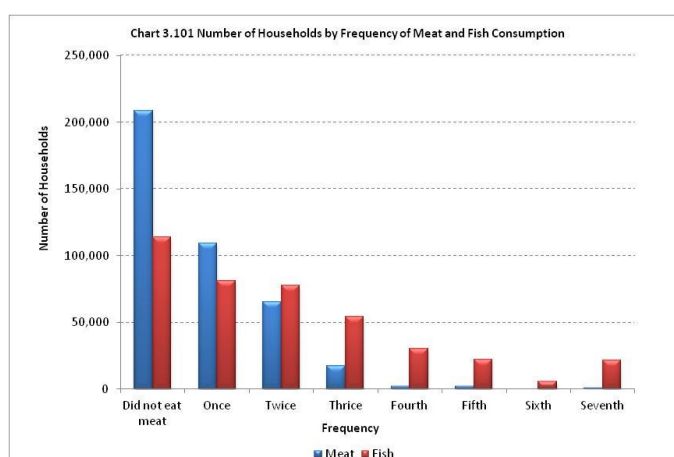
Table 3.23: Number of Agricultural Households Reporting Number of Meals the Household Normally has per day by District, 2007/08 Agricultural Year

District	Number of Meals							
	1		2		3		Total	
	Number	%	Number	%	Number	%	Number	%
Karagwe	2,327	2	69,824	74	22,111	23	94,263	100
Bukoba Rural	589	1	42,725	72	16,353	27	59,667	100
Muleba	1,020	1	58,941	71	22,638	27	82,599	100
Biharamulo	314	1	24,233	76	7,215	23	31,762	100
Ngara	1,803	3	48,167	92	2,189	4	52,159	100
Bukoba Urban	0	0	5,924	86	978	14	6,902	100
Missenyi	276	1	15,742	42	21,265	57	37,283	100
Chato	408	1	32,002	78	8,867	21	41,276	100
Total	6,737	2	297,557	73	101,616	25	405,910	100

3.12.6.2 Meat and Fish Consumption Frequency

A total of 208,665 accounting for 51.4% of the agricultural households reported not to have eaten meat during the week preceding the census.

On the other hand, those which did not eat fish were 114,045 accounting for 28.2% of the agricultural households. Furthermore, those who reported eating meat once or more were 197,245 while those who ate fish once or more were 291,044 suggesting more households ate fish compared to those who ate meat, (Chart 3.101).



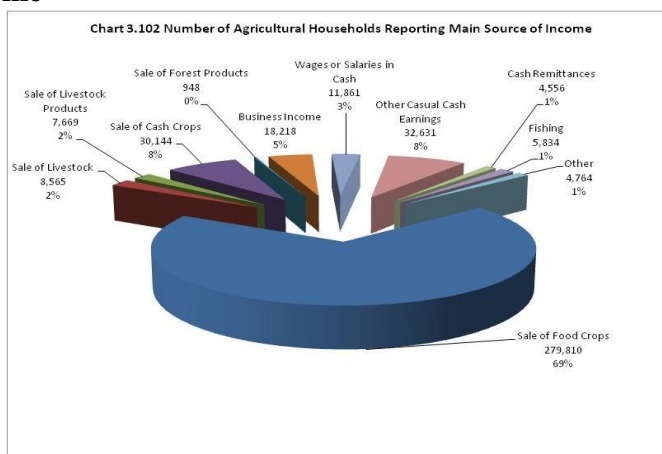
Karagwe had the largest number of households which ate meat once (23,275) while the smallest number was recorded in Bukoba Urban (24160 hh). However, Missenyi had the highest percentage of the households which reported eating meat once per week while the lowest percentage was recorded in Muleba district (21.48%),

3.12.6.3 Fish Consumption Frequency

Karagwe had the largest number of households reporting eating fish once per week (19,551) while Bukoba Urban had the smallest number (1,840). On the other hand, the highest percent of households reporting eating fish once per week was recorded in Biharamulo (32.81%) while Chato had the lowest percent (16.54%), Chart 3.102, and map 3.44).

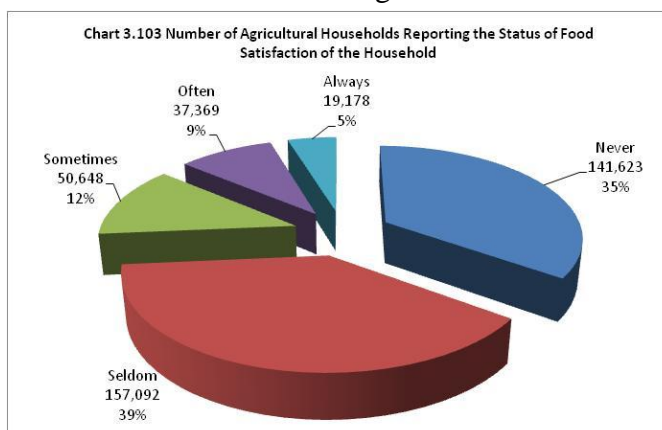
3.12.7 Main Source of Household Cash Income

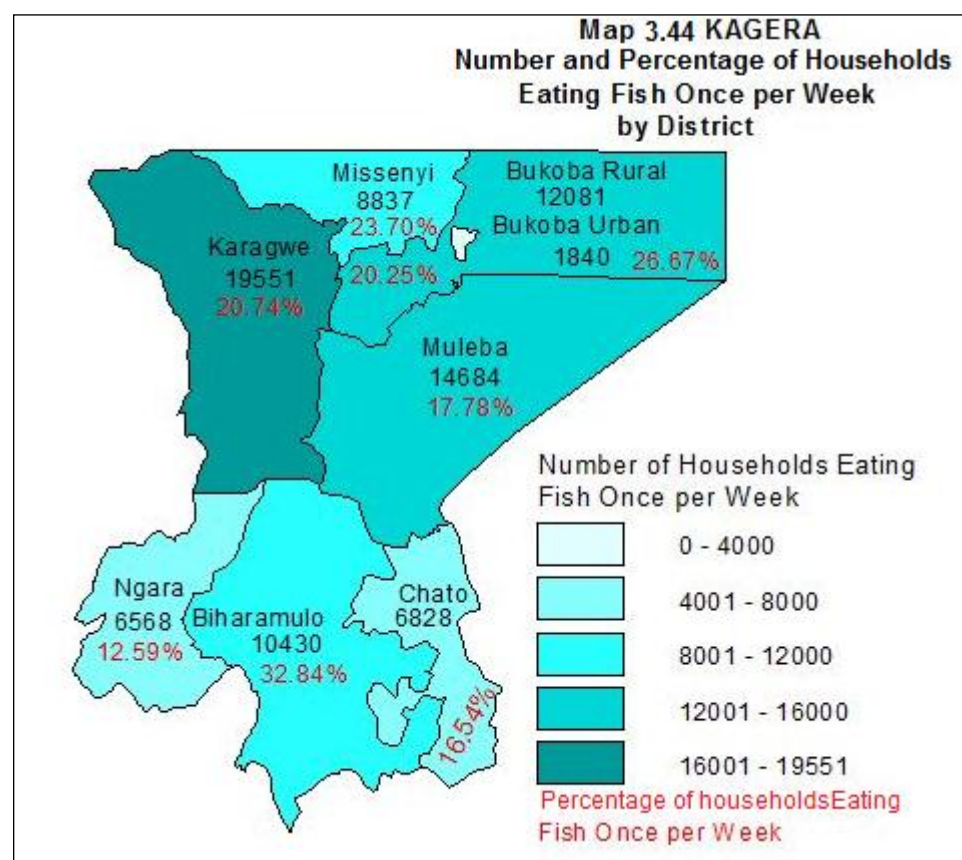
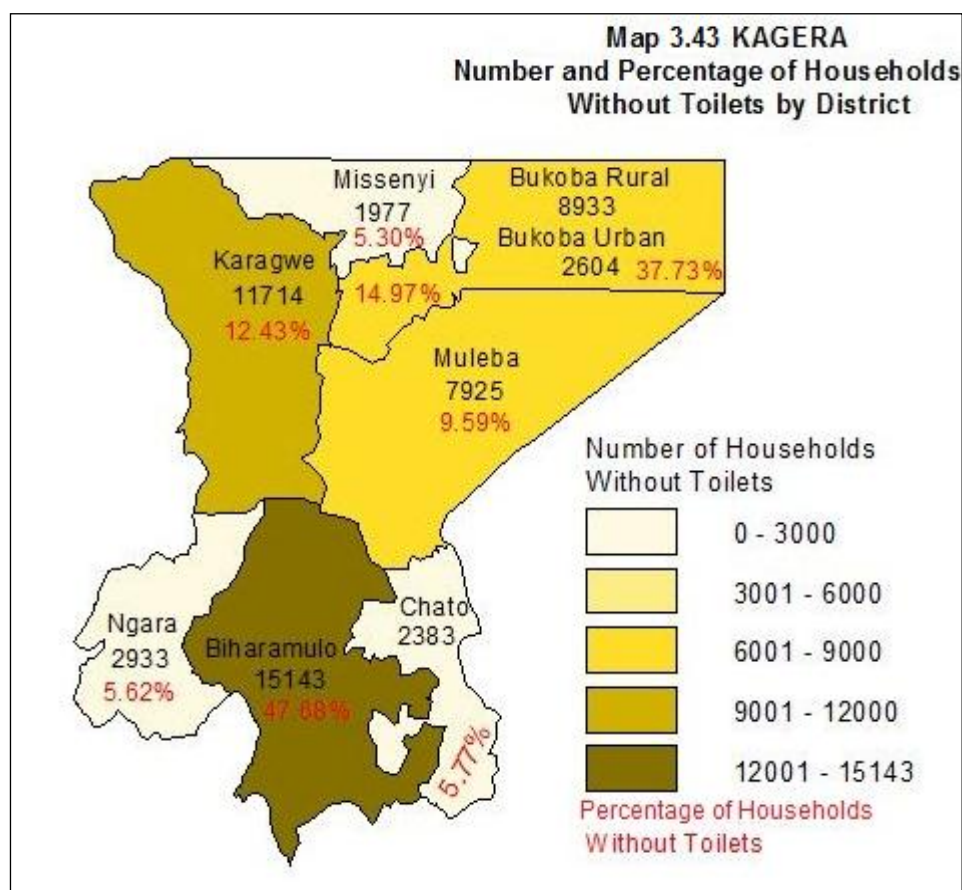
The main source of cash income of the households in region was from sales food crops (69% of the total agricultural households) followed by other casual cash earnings (8%), sale of cash crops (7%), business income (4%) and wage salary in cash (3%), (Chart 3.102).



3.12.8 Food Security

About 157,092 households equivalent to 39% of the total agricultural households in the region reported that they seldom experienced problems in satisfying household food requirement. Other households reported experiencing food problems at different levels including those households that “sometimes” experienced food satisfaction (50,648 households; 12%), “often” experienced satisfaction (37,369 households; 9%) and “always” experienced satisfaction (19,178 households; 5%). Nevertheless, 141,623 households (35%) reported to have never experienced any food problems. In fact, most of the districts reported that they never experienced food problems, (Chart 3.103).





4 PROFILES

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

4.1 Regional Profile

Kagera region had large concentration of households engaged in agriculture falling in the range of 400 -500,000 households.

Kagera had the first largest number of households growing coffee (223,137), followed by Kilimanjaro (104,061) and Mbeya (79,175) and had the first highest percentage of households growing banana (38.55%).

Also, it had the third highest percentage of households using oxen/bulls in land cultivation (7.3%) after Shinyanga (8.8%) and Mbeya (8.3%) and higher than Mwanza (7.2%). Besides, Kagera is one of the regions with the highest percentage of farming households involved in selling crops.

4.2 District Profiles

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

4.2.1 Karagwe

Karagwe had the largest number of agricultural households (94,263, 23.2%) followed by Muleba (82,598, 20.2%). It had the largest number of households engaged in maize production (82,858) while the smallest number of households engaged in maize production was in Bukoba Urban (2,991). Also, it had the largest number of households engaged in sorghum production (12,103 households) and the second largest planted area with sorghum after Biharamulo.

It had the first highest percentage of the total area planted with perennial crops (30%) and the fifth with highest percentage of the area planted with improved seeds during the short rainy season.

The district had the second highest percentage of the households reporting storing crops (95%) after Chato (96%). It had the largest number of households storing crops (126,847). Besides, it had the largest number of households (116,141) and highest percentage (87.4%) of the households that sold crops respectively.

The district had the largest number of households that received extension advice (55,859, 24.7%) and the third largest number of households with water harvesting facilities (6,750, 16%) after Muleba 8,770, 21%) and Ngara (9,917, 24%).

It had the largest population of cattle in the region heads (318,166 heads). It also recorded the largest number of improved dairy cattle (10,241 heads). Furthermore, it had the largest number of goats (189,689) accounting for 23% of the total goats in the region and had the largest number of sheep (35,843, 46.7%) as well as the second largest number of pigs (15,129) after Bukoba Rural (15,617, 24%).

Karagwe had the highest number of households owning bicycles followed by Muleba, Bukoba Rural and Chato. Also, it had the highest number of households using flush toilet. However, it recorded the largest number of households without toilets (6,051). Also, it had the largest number of households that consumed meat once (23,275) as well as the largest number of households reporting eating fish once per week (19,551).

4.2.2 Bukoba Rural

Bukoba Rural District recorded the fourth largest number of agricultural households in region (59,667, 14.7%) after Muleba (82,598, 20.2%).

It had the fourth highest percentage of the total area planted with perennial crops (12.55%) after Missenyi (12.77%), Muleba (19.28%), and Karagwe (30%). It was the sixth with highest percentage of the area planted with improved seeds during the short rainy season (3.3%) lower than Bukoba Urban (15.4%), Chato (14.95), Missenyi (5.7%), Biharamulo (4.9%), and Karagwe (3.3%) but higher than Ngara (2.5%) and Muleba (1.1%).

Moreover, the district recorded the smallest area planted using organic fertilizer during the short rainy season. Also, it had the fourth largest number of households which stored crops (70,127).

Bukoba Rural recorded the seventh with highest percentage of the households that sold crops (53.9%) as well as the sixth with largest number of households which sold crops (41,546, 10%).

The district was the third with largest number of households which received extension advice (40,220, 17.8%). It had the fourth largest number of households with water harvesting facilities (5,746, 14%) followed by Chato (4,382, 11%), Biharamulo (3,059, 7%), Missenyi (1,565, 4%) and Bukoba Urban (805, 2%).

Most of the cattle kept in the region were indigenous type. Bukoba Rural was the seventh with largest number of cattle (36,684), which was larger than that of Bukoba Urban (5,061). However, it was the third with largest number of beef cattle (2,799) but less than Muleba (4,079).

The total population of pigs in the region was 64,432 with Bukoba Rural having the largest number of pigs (15,617), which accounted for 24% of the total pig population in the region.

Bukoba Rural was the third with largest number of households using iron sheets for roofing after Muleba and Karagwe. Also, it was the third with largest number of households owning bicycles. Furthermore, it is one of the three districts where mobile phones were mostly owned. The other two districts were Muleba and Karagwe

The District was the fourth with largest number of households without toilets (3,389) compared to Karagwe (6,051), Chato (5,096), Muleba (4,895), Ngara (2,962) and Biharamulo (2,117). Also, it was the second highest with percentage of the households which reported eating three meals per day.

4.2.3 Muleba

The number of agricultural households in the region was 405,910. Muleba was the second with largest number of agricultural households (82,598, 20.2%) after Karagwe, which had the largest number of agricultural households (94,263, 23.2%).

Sorghum was the third most important cereal crop in the region with Muleba district being the fifth with largest planted area (1,165 ha). However, the district was the second with highest percentage of the total area planted with perennial crops (19.28%). On the other hand, it had the lowest percentage (1.1%) of the area planted with improved seeds during the short rainy season.

In terms of crop storage, it was the third with largest number of households storing crops (84,842). Besides, it was the third with largest number of households which reported selling crops (61,388, 15%). However, it was the sixth with highest percentage of crop selling households (65.9%).

Muleba was the second with largest number of households that received extension advice (49,151, 21.7%) and the second with largest number of households having water harvesting facilities (8,770, 21%).

In terms of livestock keeping, it was the fifth with largest population of cattle (61,796 heads). Improved dairy cattle represented only 2.9% of the cattle population in the region with Muleba recording the second largest number (4,079 herds).

Also, the district was the third with largest number of goats 144,599 accounting for 18% of the goats in the region, the third with largest number of sheep (8,770 sheep) accounting for (11.4%) of the total sheep in the region. Furthermore, the district was the fifth with largest number of pigs (7,138 pigs, 11%).

Muleba is one among the three districts where mains electricity was widely used. The other two districts were Missenyi and Bukoba Urban. In addition, the district was the third with largest number of households without toilets (4,895). The district recorded the lowest percentage of the households which reported eating meat once per week (21.48%) and the second with highest percentage of the households which reported eating 3 meals per day (27%).

4.2.4 Biharamulo

Biharamulo was the seventh with largest number of agricultural households (31,762, 7.8%). It recorded the largest planted area per household (2.6ha). Also it had the largest planted area per maize growing household (0.59 ha) as well as the largest planted area with sorghum (4,912 ha). The district was the seventh with highest percentage of the total area planted with perennial crops (6.46%) and the fourth with highest percentage of area planted using improved seeds during the short rainy season (4.9%).

Biharamulo recorded the smallest area under irrigation (87ha), which accounted for only 3.07% of the total area under irrigation and had the smallest planted area using organic fertilizer in the long rainy season. Moreover, it was the seventh with largest number of households which stored crops (38,663) as compared to Bukoba Urban, which reported the smallest number of households (4,084).

The district was the seventh with largest number of households which sold crops (32,468, 8%). It was the fourth with highest percentage of crop selling households (77.8%). Also, the district was the fifth with largest number of households that received extension advice (20,155, 8.9%) followed by Chato (19,364, 8.5%), Missenyi (16,110, 7.1%), and Bukoba Urban (2,991, 1.3%).

It was the sixth with largest number of households having water harvesting facilities (3,059, 7%) and was the fourth with largest population of cattle (77,405 heads). The district was the sixth with largest number of households without toilets (2,117) as compared to Karagwe (6,051), Chato (5,096), Muleba (4,895), Bukoba Rural (3,389), and Ngara (2,962). On the other hand, it had the highest percentage of the households which reported eating fish once per week (32.81%) and the third with highest percentage of the households which reported eating three meals per day (23%).

4.2.5 Ngara

Ngara district was the fourth with largest number of agricultural households (52,159, 12.8%). It recorded the highest percentage of dependence on crop farming as the main occupation (50%) while Bukoba Urban had the lowest at only 33%.

The district was the second with largest planted area per household (the average for the two seasons) (1.4 ha). Besides, it recorded the largest planted area with sorghum (2,240 ha) and was the fifth with highest percentage of total area planted with perennial crops (9.42%); the seventh with highest percentage of the area planted using improved seeds during the short rainy season (2.55); and the second with largest number of households storing crops (92,341).

Also, it was the second with largest number of households which reported selling crops (63,879, 15%) and was the fifth with highest percentage of crop selling households (66.5%). It had the highest percentage of the households which received all its agricultural credit from one main source - the Bank.

The district was the fourth with largest number of households that received extension advice (22,667, 10%) and had the largest number of households with water harvesting facilities (9,917, 24%) as well as the sixth with largest population of cattle (50,061).

Beef cattle were in insignificant number in the region and were only kept in Ngara district. It had the second largest number of goats 165,234 accounting for 20% of the total number of goats in the region. Besides, the district was the fourth with largest number of pigs (7,985 pigs; 12%).

Ngara had the highest percentage of the households eating one meal per day. Furthermore, the district had the highest percentage of households which had two meals per day (92%). Besides, it had the lowest percentage of the households which had three meals per day (4%).

4.2.6 Bukoba Urban

Bukoba Urban had the smallest number of agricultural households (6,902, 1.7%). It recorded the lowest percentage of dependence on crop farming as the main occupation at only 33% while Ngara had the highest percentage (50%).

The district had the smallest average planted area per household (1.2ha), had the smallest number of households engaged in maize production (2,991) and there was no production of paddy in the district.

The district was the seventh with largest planted area with sorghum (6 ha), had the lowest percentage (0.91%) of the total area planted with perennial crops. Besides, it had the smallest planted area per perennial crops growing household (0.12 ha).

It had the highest percentage of the area planted using improved seeds during the short rainy season (15.4%). At the same time it reported the smallest number of households storing crops (4,084) and had the smallest number of households receiving extension advice (2,991, 1.3%).

The district had the smallest number of households with water harvesting facilities (805, 2%), smallest number of households that sold crops (1,035). Also, it had the lowest percentage of the households which reported selling of crops (23.4%).

In addition, all the agricultural households in Bukoba Urban district did not receive credit from any of the main sources. It had the smallest number of households receiving extension advice (2,991, 1.3%).

Bukoba Urban had the smallest population of cattle (5,061 heads). It recorded the smallest number of households using leaves or grass for roofing (518). Also, it is one among the three districts where mains electricity was widely used.

4.2.7 Chato

Chato had the fifth largest number of agricultural households (41,276, 10.2%) compared to Missenyi (37,282, 9.2%), Biharamulo (31,762, 7.8%), and Bukoba Urban (6,902, 1.7%).

Paddy was the second most important cereal crop grown in region after maize with Chato recording the largest area planted with paddy (11,117 ha). Also, the district had the fourth largest planted area with sorghum (1,265 ha).

It had the sixth highest percentage of the total area planted with perennial crops (8.23%). It had the largest planted area per household growing perennial crops (0.57ha).

Furthermore, Chato had the second highest percentage of the area planted using improved seeds during the short rainy season (14.95). The district recorded almost over a third of the area under irrigation for annual crops (1,128 ha, 39.72%).

Chato had the highest percentage of the households storing crops (96%). Also, it had the fifth largest number of households storing crops (53,506); the fifth largest number of households that sold crops (46,270, 11%); and the third highest percentage of households selling crops (81.1%).

The district had the sixth largest number of households that received extension advice (19,364, 8.5%) and the fifth with largest number of households with water harvesting facilities (9,917, 24%).

It was the third largest population of cattle (127,191 heads) and was the second with largest number of sheep (17,224 sheep, 22.5%).

Chato had the third largest number of households using leaves or grass for roofing (17,224) and had the fourth largest number of households owning bicycles in the region. In addition, it recorded the second with largest number of households without toilets (5,096). It recorded the lowest percentage of the households which reported eating fish once per week (16.54%).

4.2.8 Missenyi

Missenyi had the sixth largest number of agricultural households (37,282, 9.2%) exceeding only Biharamulo (31,762, 7.8%), and Bukoba Urban (6,902, 1.7%).

Agricultural households in Missenyi were also involved in sorghum production with the district being the sixth in terms of area planted with sorghum (835 ha). In addition, production of perennial crops was important. In this regard, Missenyi recorded the third with highest percentage of the total area planted with perennial crops (12.77%).

As in other districts, farming households in Missenyi used improved seeds and fertilizer in crop production. Missenyi had the third highest percentage of the area planted using improved seeds during the short rainy season (5.7%). It had the largest area planted with organic fertilizer in both short and long rainy seasons.

The district reported the lowest percentage of households storing crops. However, Missenyi had the sixth largest number of households storing crops (53,392). Regarding crop marketing, it had the fourth largest number of households that sold crops (50,723, 12%).

Furthermore, Missenyi was the seventh with largest number of households reporting access to extension advice (16,110, 7.1%) and was the seventh with largest number of households with water harvesting facilities (1,565, 4%).

It was the second with largest population of cattle (160,545). Regarding pig population, Missenyi had the third largest number of pigs (12,612 pigs, 20%).

The district had the smallest number of households without toilets (829). It had the lowest percentage of the households which had two meals per day (42%) compared to Ngara (92%). However, it had the highest percentage of the households which had three meals per day (57%) as compared to Ngara (4%). In addition, Missenyi had the highest percentage of the households which reported eating meat once per week.

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Appendix II: TABLES

2.1: Number of Households by type of Household and District during 2007/08 Agriculture year

District	Rural Households involved in Agriculture	% of Total Rural Households	Rural households NOT involved in Agriculture	% of Total Rural Households	Total Rural Households	% of TotalHouseholds	Number of Urban Households	% of TotalHouseholds	Total Number of Households
Karagwe	94,263	99.1	899	0.9	95,162	93.3	6,795	6.66	101,956
Bukoba Rural	59,667	97.7	1,382	2.3	61,049	96.3	2,335	3.68	63,384
Muleba	82,599	98.6	1,178	1.4	83,777	94.6	4,741	5.36	88,518
Biharamulo	31,762	97.7	735	2.3	32,497	97.9	690	2.08	33,187
Ngara	52,159	99.3	365	0.7	52,524	93.9	3,440	6.15	55,964
Bukoba Urban	6,902	96.1	277	3.9	7,179	24.3	22,416	75.74	29,595
Missenyi	37,283	98.5	573	1.5	37,856	95.6	1,749	4.42	39,605
Chato	41,276	90.7	4,242	9.3	45,518	97.2	1,289	2.75	46,807
Total	405,910	97.7	9,651	2.3	415,561	90.5	43,455	9.47	459,015

2.2: Number of Agriculture Households by type of Holding by District during 2007/08 Agriculture year

District	Crops Only		Livestock Only		Pastoralist		Crops & Livestock		Total Number of Households	Total Number of Households Growing Crops	Total Number of Households Rearing Livestock
	Number of households	%	Number of households	%	Number of households	%	Number of households	%			
Karagwe	68,195	72	1,629	2	2,095	2	22,344	24	94,263	90,539	26,068
Bukoba Rural	47,881	80	147	0	0	0	11,639	20	59,667	59,520	11,786
Muleba	64,243	78	0	0	0	0	18,355	22	82,599	82,599	18,355
Biharamulo	19,841	62	0	0	0	0	11,921	38	31,762	31,762	11,921
Ngara	31,553	60	0	0	0	0	20,606	40	52,159	52,159	20,606
Bukoba Urban	5,349	78	58	1	0	0	1,495	22	6,902	6,844	1,553
Missenyi	26,696	72	276	1	0	0	10,310	28	37,283	37,006	10,586
Chato	25,479	62	0	0	102	0	15,695	38	41,276	41,174	15,797
Total	289,238	71	2,110	1	2,197	1	112,365	28	405,910	401,603	116,672

2.3: Number of Agriculture Households By Type and Size of Holding, 2007/08 Agricultural Year

District	2.1 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	88	1,544	2	2,197	3	6,005	8	79,821	100
0.51 - 1.00	78,839	79	58	0	0	0	21,164	21	100,060	100
1.01 - 1.50	66,681	74	0	0	0	0	23,911	26	90,593	100
1.51 - 2.00	25,370	64	0	0	0	0	14,448	36	39,819	100
2.01 - 2.50	26,414	63	0	0	0	0	15,222	37	41,635	100
2.51 - 3.00	7,518	53	0	0	0	0	6,775	47	14,293	100
3.01 - 3.50	5,521	59	0	0	0	0	3,869	41	9,390	100
3.51 - 4.00	2,114	43	0	0	0	0	2,802	57	4,916	100
4.01 - 4.50	2,322	29	0	0	0	0	5,580	71	7,902	100
4.51 - 5.00	633	17	0	0	0	0	3,040	83	3,673	100
Above 5	3,750	27	509	4	0	0	9,549	69	13,808	100
Total	289,238	71	2,110	1	2,197	1	112,365	28	405,910	100

2.4: Number of Agriculture Households By Type and Size of Holding, 2007/08 Agricultural Year

District	2.1 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

HOUSEHOLDS DEMOGRAPHICS

3.1: Number of Heads of Agricultural Households by sex of head and District, 2007/08 Agricultural Year

District	Male		Female		Total
	Number	Percent	Number	Percent	
Karagwe	78,901	84	15,361	16	94,263
Bukoba Rural	44,345	74	15,322	26	59,667
Muleba	65,875	80	16,724	20	82,599
Biharamulo	28,468	90	3,294	10	31,762
Ngara	39,023	75	13,136	25	52,159
Bukoba Urban	4,774	69	2,128	31	6,902
Missenyi	25,960	70	11,323	30	37,283
Chato	36,180	88	5,096	12	41,276
Total	323,526	80	82,384	20	405,910

3.2: Number of Household Members classified by District and Sex

District	Male		Female		Total
	Number	Percent	Number	Percent	
Karagwe	238,799	51	231,816	49	470,615
Bukoba Rural	130,826	47	144,969	53	275,795
Muleba	204,967	49	211,697	51	416,665
Biharamulo	93,326	51	90,424	49	183,749
Ngara	123,636	48	131,363	52	254,999
Bukoba Urban	14,206	48	15,414	52	29,620
Missenyi	83,310	49	85,059	51	168,370
Chato	140,134	51	132,185	49	272,319
Total	1,029,204	50	1,042,927	50	2,072,132

3.3: Number of Agricultural Household Members By Sex and Age Group, 2007/08 Agricultural Year, Kagera Region

Age Group	Sex					
	Male		Female		Total	
	Number	%	Number	%	Number	%
Less than 4	155,313	50	156,718	50	312,031	100
5 - 9	159,699	50	158,702	50	318,400	100
10 - 14	163,007	50	161,323	50	324,330	100
15 - 19	136,386	54	117,221	46	253,607	100
20 - 24	68,502	44	86,474	56	154,976	100
25 - 29	60,689	45	74,397	55	135,086	100
30 - 34	50,293	46	59,789	54	110,081	100
35 - 39	54,369	50	53,506	50	107,875	100
40 - 44	42,716	51	40,785	49	83,502	100
45 - 49	39,395	52	36,185	48	75,581	100
50 - 54	26,976	52	25,042	48	52,017	100
55 - 59	18,616	55	15,346	45	33,962	100
60 - 64	15,049	49	15,825	51	30,874	100
65 - 69	13,858	48	15,075	52	28,933	100
70 - 74	8,663	45	10,720	55	19,383	100
75 - 79	9,247	66	4,826	34	14,073	100
80 - 84	3,734	40	5,628	60	9,362	100
Above 85	2,692	33	5,368	67	8,060	100
Total	1,029,204	50	1,042,928	50	2,072,132	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	
Karagwe	65,868	91	6,284	9	72,152	100	1,629	70	698	30	2,327	100
Bukoba Rural	39,189	92	3,536	8	42,725	100	1,915	87	295	13	2,210	100
Muleba	58,941	95	3,059	5	62,000	100	3,059	88	408	12	3,467	100
Biharamulo	27,057	98	549	2	27,606	100	314	67	157	33	471	100
Ngara	36,576	87	5,409	13	41,985	100	902	70	386	30	1,288	100
Bukoba Urban	3,738	86	633	14	4,371	100	345	67	173	33	518	100
Missenyi	21,909	92	1,933	8	23,842	100	1,197	62	736	38	1,933	100
Chato	33,021	97	1,019	3	34,040	100	713	88	102	13	815	100
Total	286,298	93	22,422	7	308,720	100	10,074	77	2,955	23	13,029	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	
Karagwe	Male		Female		Total		1,396	46	1,629	54	3,026	100
Bukoba Rural	8,379	95	465	5	8,844	100	2,357	57	1,768	43	4,125	100
Muleba	0	0	147	100	147	100	2,243	42	3,059	58	5,303	100
Biharamulo	408	100	0	0	408	100	706	50	706	50	1,412	100
Ngara	0	0	0	0	0	0	773	35	1,417	65	2,189	100
Bukoba Urban	0	0	0	0	0	0	230	40	345	60	575	100
Missenyi	288	100	0	0	288	100	1,197	48	1,289	52	2,486	100
Chato	368	80	92	20	460	100	713	32	1,529	68	2,242	100
Total	1,019	100	0	0	1,019	100	9,616	45	11,741	55	21,357	100

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

District	Widowed						Total					
	Male		Female		Total		Male		Female		Total	
Karagwe	1,629	21	6,284	79	7,913	100	78,901	84	15,361	16	94,263	100
Bukoba Rural	884	8	9,576	92	10,460	100	44,345	74	15,322	26	59,667	100
Muleba	1,224	11	10,197	89	11,421	100	65,875	80	16,724	20	82,599	100
Biharamulo	392	17	1,882	83	2,274	100	28,468	90	3,294	10	31,762	100
Ngara	773	12	5,924	88	6,697	100	39,023	75	13,136	25	52,159	100
Bukoba Urban	173	15	978	85	1,150	100	4,774	69	2,128	31	6,902	100
Missenyi	1,289	15	7,272	85	8,561	100	25,960	70	11,323	30	37,283	100
Chato	713	23	2,446	77	3,159	100	36,180	88	5,096	12	41,276	100
Total	7,076	14	44,560	86	51,637	100	323,526	80	82,384	20	405,910	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	
Karagwe	36,309	91	3,491	9	39,800	100	42,360	78	11,870	22	54,230	100
Bukoba Rural	13,259	81	3,094	19	16,353	100	30,939	72	12,228	28	43,167	100
Muleba	26,921	87	3,875	13	30,796	100	38,954	75	12,849	25	51,803	100
Biharamulo	14,352	94	941	6	15,293	100	14,038	86	2,353	14	16,391	100
Ngara	14,553	85	2,576	15	17,129	100	24,470	70	10,432	30	34,901	100
Bukoba Urban	1,725	73	633	27	2,358	100	3,048	67	1,495	33	4,544	100
Missenyi	9,758	86	1,565	14	11,323	100	16,202	62	9,758	38	25,960	100
Chato	15,491	91	1,529	9	17,020	100	20,485	85	3,567	15	24,052	100
Total	132,368	88	17,703	12	150,072	100	190,495	75	64,552	25	255,047	100

...Cont. 3.5 Number of Heads of Agricultural Households by Survival of Female Parent, sex of head and District, 2007/08 Agricultural Year

District	Don't know						Total					
	Male		Female		Total		Male		Female		Total	
Karagwe	233	100	0	0	233	100	78,901	84	15,361	16	94,263	100
Bukoba Rural	147	100	0	0	147	100	44,345	74	15,322	26	59,667	100
Muleba	0	0	0	0	0	0	65,875	80	16,724	20	82,599	100
Biharamulo	78	100	0	0	78	100	28,468	90	3,294	10	31,762	100
Ngara	0	0	129	100	129	100	39,023	75	13,136	25	52,159	100
Bukoba Urban	0	0	0	0	0	0	4,774	69	2,128	31	6,902	100
Missenyi	0	0	0	0	0	0	25,960	70	11,323	30	37,283	100
Chato	204	100	0	0	204	100	36,180	88	5,096	12	41,276	100
Total	662	84	129	16	791	100	323,526	80	82,384	20	405,910	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	%
Karagwe	47,015	86	7,913	14	54,928	100	31,421	81	7,448	19	38,869	100
Bukoba Rural	24,751	82	5,598	18	30,349	100	19,594	67	9,724	33	29,318	100
Muleba	38,342	85	6,526	15	44,868	100	27,533	73	10,197	27	37,730	100
Biharamulo	18,195	92	1,568	8	19,763	100	10,274	86	1,725	14	11,999	100
Ngara	19,705	80	4,894	20	24,598	100	19,318	70	8,242	30	27,561	100
Bukoba Urban	2,588	76	805	24	3,393	100	2,186	62	1,323	38	3,508	100
Missenyi	13,256	80	3,314	20	16,570	100	12,704	61	8,009	39	20,713	100
Chato	19,874	90	2,242	10	22,116	100	16,205	85	2,854	15	19,058	100
Total	183,725	85	32,862	15	216,587	100	139,234	74	49,522	26	188,756	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	%
Karagwe	465	100	0	0	465	100	78,901	84	15,361	16	94,263	100
Bukoba Rural	0	0	0	0	0	0	44,345	74	15,322	26	59,667	100
Muleba	0	0	0	0	0	0	65,875	80	16,724	20	82,599	100
Biharamulo	0	0	0	0	0	0	28,468	90	3,294	10	31,762	100
Ngara	0	0	0	0	0	0	39,023	75	13,136	25	52,159	100
Bukoba Urban	0	0	0	0	0	0	4,774	69	2,128	31	6,902	100
Missenyi	0	0	0	0	0	0	25,960	70	11,323	30	37,283	100
Chato	102	100	0	0	102	100	36,180	88	5,096	12	41,276	100
Total	567	100	0	0	567	100	323,526	80	82,384	20	405,910	100

3.7: Number of Household Members Who Can Read and Write languages by type of language and District

District	Swahili		Swahili & English		Any Other Language		Don't Read / Write		Total
	Number	%	Number	%	Number	%	Number	%	
Karagwe	269,754	66.8	34,679	8.6	233	0.1	99,383	24.6	404,049
Bukoba Rural	183,421	76.8	14,585	6.1	0	0.0	40,809	17.1	238,816
Muleba	251,059	70.5	17,539	4.9	204	0.1	87,290	24.5	356,092
Biharamulo	94,502	62.6	7,294	4.8	78	0.1	49,172	32.6	151,046
Ngara	125,825	60.2	12,106	5.8	129	0.1	70,962	33.9	209,022
Bukoba Urban	22,143	80.4	2,531	9.2	0	0.0	2,876	10.4	27,550
Missenyi	111,111	74.9	13,716	9.2	276	0.2	23,290	15.7	148,394
Chato	135,548	60.2	17,835	7.9	0	0.0	71,749	31.9	225,132
Total	1,193,364	67.8	120,286	6.8	920	0.1	445,531	25.3	1,760,101

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	%
Karagwe	58,652	90	6,750	10	65,402	100	5,819	96	233	4	6,051	100
Bukoba Rural	35,064	77	10,460	23	45,524	100	3,683	93	295	7	3,978	100
Muleba	49,559	86	8,158	14	57,717	100	4,079	91	408	9	4,487	100
Biharamulo	22,116	94	1,490	6	23,606	100	863	100	0	0	863	100
Ngara	26,788	82	5,924	18	32,712	100	2,705	91	258	9	2,962	100
Bukoba Urban	3,796	71	1,553	29	5,349	100	748	93	58	7	805	100
Missenyi	20,436	72	7,917	28	28,353	100	3,222	90	368	10	3,590	100
Chato	23,543	95	1,121	5	24,664	100	2,446	92	204	8	2,650	100
Total	239,954	85	43,373	15	283,327	100	23,564	93	1,822	7	25,386	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

District	Any Other Language						Don't Read / Write					
	Male	%	Female	%	Total	%	Male	%	Female	%	Total	%
Karagwe	233	100	0	0	233	100	13,965	63	8,379	38	22,344	100
Bukoba Rural	0	0	0	0	0	0	5,598	55	4,567	45	10,166	100
Muleba	204	100	0	0	204	100	12,033	60	8,158	40	20,191	100
Biharamulo	0	0	0	0	0	0	5,490	75	1,804	25	7,294	100
Ngara	0	0	0	0	0	0	9,530	58	6,955	42	16,485	100
Bukoba Urban	0	0	0	0	0	0	230	31	518	69	748	100
Missenyi	0	0	276	100	276	100	2,209	44	2,762	56	4,971	100
Chato	0	0	0	0	0	0	10,192	73	3,771	27	13,962	100
Total	437	61	276	39	713	100	59,247	62	36,912	38	96,160	100

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

District	Total					
	Male	%	Female	%	Total	%
Karagwe	78,901	84	15,361	16	94,263	100
Bukoba	44,345	74	15,322	26	59,667	100
Rural						
Muleba	65,875	80	16,724	20	82,599	100
Biharamulo	28,468	90	3,294	10	31,762	100
Ngara	39,023	75	13,136	25	52,159	100
Bukoba	4,774	69	2,128	31	6,902	100
Urban						
Missenyi	25,960	70	11,323	30	37,283	100
Chato	36,180	88	5,096	12	41,276	100
Total	323,526	80	82,384	20	405,910	100

3.9: Number of Agricultural Household Members reporting Literacy levels by Sex of Member and District, 2007/08 Agricultural Year

District	Male						Female						Total					
	Can Read and Write		Can not Read and Write		Total		Can Read and Write		Can not Read and Write		Total		Can Read and Write		Can not Read and Write		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	160,130	79	43,524	21	203,654	100	144,536	72	55,859	28	200,395	100	304,666	75	99,383	25	404,049	100
Bukoba	96,499	84	17,826	16	114,325	100	101,508	82	22,983	18	124,491	100	198,007	83	40,809	17	238,816	100
Rural																		
Muleba	134,809	78	38,750	22	173,559	100	133,994	73	48,540	27	182,533	100	268,803	75	87,290	25	356,092	100
Biharamulo	55,133	72	21,332	28	76,464	100	46,741	63	27,841	37	74,582	100	101,874	67	49,172	33	151,046	100
Ngara	72,894	72	28,333	28	101,227	100	65,167	60	42,629	40	107,795	100	138,060	66	70,962	34	209,022	100
Bukoba	12,423	92	1,035	8	13,458	100	12,251	87	1,840	13	14,091	100	24,674	90	2,876	10	27,550	100
Urban																		
Missenyi	63,426	87	9,758	13	73,184	100	61,677	82	13,532	18	75,209	100	125,104	84	23,290	16	148,394	100
Chato	85,100	72	32,919	28	118,018	100	68,284	64	38,830	36	107,113	100	153,383	68	71,749	32	225,132	100
Total	680,414	78	193,477	22	873,891	100	634,157	72	252,054	28	886,210	100	1,314,571	75	445,531	25	1,760,101	100

3.10: Number of heads of Agricultural households reporting Literacy levels by Sex of Member and District, 2007/08 Agricultural Year

District	Male						Female						Total					
	Can Read and Write		Can not Read and Write		Total		Can Read and Write		Can not Read and Write		Total		Can Read and Write		Can not Read and Write		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	64,937	82	13,965	18	78,901	100	6,982	45	8,379	55	15,361	100	71,919	76	22,344	24	94,263	100
Bukoba	38,747	87	5,598	13	44,345	100	10,755	70	4,567	30	15,322	100	49,502	83	10,166	17	59,667	100
Rural																		
Muleba	53,842	82	12,033	18	65,875	100	8,566	51	8,158	49	16,724	100	62,408	76	20,191	24	82,599	100
Biharamulo	22,978	81	5,490	19	28,468	100	1,490	45	1,804	55	3,294	100	24,469	77	7,294	23	31,762	100
Ngara	29,492	76	9,530	24	39,023	100	6,182	47	6,955	53	13,136	100	35,674	68	16,485	32	52,159	100
Bukoba	4,544	95	230	5	4,774	100	1,610	76	518	24	2,128	100	6,154	89	748	11	6,902	100
Urban																		
Missenyi	23,750	91	2,209	9	25,960	100	8,561	76	2,762	24	11,323	100	32,312	87	4,971	13	37,283	100
Chato	25,989	72	10,192	28	36,180	100	1,325	26	3,771	74	5,096	100	27,313	66	13,962	34	41,276	100
Total	264,279	82	59,247	18	323,526	100	45,471	55	36,912	45	82,384	100	309,750	76	96,160	24	405,910	100

3.11: Number of Household Members by Education Status and District

District	Attending School	%	Completed	%	Never Attended to School	%	Total
Karagwe	158,268	39	161,527	40	84,255	21	404,049
Bukoba Rural	89,869	38	114,178	48	34,769	15	238,816
Muleba	135,013	38	143,783	40	77,296	22	356,092
Biharamulo	51,290	34	58,583	39	41,173	27	151,046
Ngara	72,250	35	79,848	38	56,924	27	209,022
Bukoba Urban	11,388	41	13,861	50	2,301	8	27,550
Missenyi	65,175	44	67,385	45	15,834	11	148,394
Chato	84,590	38	73,889	33	66,653	30	225,132
Total	667,844	38	713,054	41	379,204	22	1,760,101

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

District	Attending School						Completed					
	Male		Female		Total		Male		Female		Total	
Karagwe	1,629	100	0	0	1,629	100	64,471	90	6,982	10	71,453	100
Bukoba Rural	442	75	147	25	589	100	38,158	78	10,755	22	48,912	100
Muleba	816	80	204	20	1,020	100	53,638	86	8,770	14	62,408	100
Biharamulo	0	0	0	0	0	0	22,978	94	1,568	6	24,547	100
Ngara	644	100	0	0	644	100	29,621	82	6,439	18	36,061	100
Bukoba Urban	115	67	58	33	173	100	4,429	73	1,610	27	6,039	100
Missenyi	736	73	276	27	1,013	100	23,106	73	8,377	27	31,483	100
Chato	510	100	0	0	510	100	25,785	95	1,325	5	27,110	100
Total	4,892	88	685	12	5,577	100	262,186	85	45,827	15	308,013	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	
Karagwe	12,801	60	8,379	40	21,180	100	78,901	84	15,361	16	94,263	100
Bukoba Rural	5,746	57	4,420	43	10,166	100	44,345	74	15,322	26	59,667	100
Muleba	11,421	60	7,750	40	19,171	100	65,875	80	16,724	20	82,599	100
Biharamulo	5,490	76	1,725	24	7,215	100	28,468	90	3,294	10	31,762	100
Ngara	8,758	57	6,697	43	15,455	100	39,023	75	13,136	25	52,159	100
Bukoba Urban	230	33	460	67	690	100	4,774	69	2,128	31	6,902	100
Missenyi	2,117	44	2,670	56	4,787	100	25,960	70	11,323	30	37,283	100
Chato	9,886	72	3,771	28	13,657	100	36,180	88	5,096	12	41,276	100
Total	56,448	61	35,872	39	92,320	100	323,526	80	82,384	20	405,910	100

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

District	Education Level											
	Under Standard One		Standard One		Standard Two		Standard Three		Standard Four		Standard Five	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	0	0.0	2,095	1.3	3,957	2.4	5,819	3.6	15,827	9.8	2,560	1.6
Bukoba	0	0.0	295	0.3	1,179	1.0	2,505	2.2	10,755	9.4	1,326	1.2
Rural Muleba	0	0.0	1,224	0.9	2,243	1.6	2,651	1.8	16,316	11.3	2,243	1.6
Biharamulo	0	0.0	706	1.2	1,961	3.3	1,412	2.4	3,921	6.7	1,333	2.3
Ngara	644	0.8	773	1.0	2,318	2.9	1,932	2.4	7,598	9.5	1,803	2.3
Bukoba	0	0.0	173	1.2	230	1.7	115	0.8	920	6.6	0	0.0
Urban Missenyi	0	0.0	736	1.1	644	1.0	1,473	2.2	4,971	7.4	1,565	2.3
Chato	102	0.1	1,223	1.7	2,344	3.2	3,057	4.1	7,848	10.6	3,975	5.4
Total	746	0.1	7,224	1.0	14,876	2.1	18,963	2.7	68,156	9.6	14,805	2.1

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

District	Education Level											
	Standard Six		Standard Seven		Standard Eight		Training After Primary Education		Pre Form One		Form One	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	2,793	1.7	115,443	71.5	1,164	0.7	1,164	0.7	465	0.3	698	0.4
Bukoba	2,357	2.1	85,302	74.7	2,063	1.8	442	0.4	147	0.1	0	0.0
Rural Muleba	2,651	1.8	106,053	73.8	3,059	2.1	0	0.0	612	0.4	408	0.3
Biharamulo	1,333	2.3	44,467	75.9	235	0.4	235	0.4	0	0.0	78	0.1
Ngara	2,189	2.7	56,151	70.3	902	1.1	1,030	1.3	0	0.0	0	0.0
Bukoba	345	2.5	9,260	66.8	460	3.3	58	0.4	0	0.0	58	0.4
Urban Missenyi	829	1.2	47,409	70.4	2,209	3.3	368	0.5	0	0.0	92	0.1
Chato	2,650	3.6	48,512	65.7	408	0.6	102	0.1	0	0.0	204	0.3
Total	15,148	2.1	512,596	71.9	10,499	1.5	3,399	0.5	1,225	0.2	1,538	0.2

...cont. 3.13: 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	%
Karagwe	1,164	0.7	233	0.1	3,491	2.2	0	0.0	465	0.3	1,164	0.7
Bukoba Rural	737	0.6	0	0.0	4,862	4.3	0	0.0	442	0.4	147	0.1
Muleba	1,020	0.7	0	0.0	3,467	2.4	0	0.0	0	0.0	1,020	0.7
Biharamulo	627	1.1	78	0.1	1,176	2.0	0	0.0	235	0.4	314	0.5
Ngara	515	0.6	0	0.0	1,674	2.1	0	0.0	258	0.3	902	1.1
Bukoba Urban	230	1.7	0	0.0	1,725	12.4	0	0.0	115	0.8	58	0.4
Missenyi	1,197	1.8	276	0.4	3,038	4.5	92	0.1	92	0.1	644	1.0
Chato	102	0.1	204	0.3	1,936	2.6	0	0.0	102	0.1	408	0.6
Total	5,591	0.8	791	0.1	21,370	3.0	92	0.0	1,709	0.2	4,656	0.7

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

District	Education Level							
	University & Other Tertiary Education		Adult Education		Not applicable		Total	
	Number	%	Number	%	Number	%	Number	%
Karagwe	233	0.1	1,629	1.0	1,164	0.7	161,527	100
Bukoba Rural	147	0.1	1,473	1.3	0	0.0	114,178	100
Muleba	0	0.0	612	0.4	204	0.1	143,783	100
Biharamulo	0	0.0	314	0.5	157	0.3	58,583	100
Ngara	0	0.0	902	1.1	258	0.3	79,848	100
Bukoba Urban	58	0.4	0	0.0	58	0.4	13,861	100
Missenyi	368	0.5	1,105	1.6	276	0.4	67,385	100
Chato	0	0.0	408	0.6	306	0.4	73,889	100
Total	806	0.1	6,442	0.9	2,422	0.3	713,054	100

3.14: 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	%
Karagwe	179,914	45	14,430	4	56,558	14	153,148	38	404,049	100
Bukoba Rural	119,334	50	5,893	2	60,698	25	52,890	22	238,816	100
Muleba	157,244	44	12,441	3	55,678	16	130,730	37	356,092	100
Biharamulo	72,935	48	3,451	2	32,860	22	41,800	28	151,046	100
Ngara	106,507	51	3,735	2	31,167	15	67,613	32	209,022	100
Bukoba Urban	8,972	33	2,301	8	3,451	13	12,826	47	27,550	100
Missenyi	70,607	48	7,364	5	19,884	13	50,539	34	148,394	100
Chato	104,362	46	7,542	3	52,283	23	60,946	27	225,132	100
Total	819,875	47	57,157	3	312,578	18	570,492	32	1,760,101	100

3.15: Number of Agricultural Household Members By Main Activity and District, 2007/08 Agricultural Year

District	Main Activity									
	Crop/Seaweed Farming		Livestock Keeping / Herding		Livestock Pastoralist		Fishing		Fish Farming	
	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	185,267	46	9,077	2	3,491	1	465	0	0	0
Bukoba Rural	117,124	49	295	0	0	0	2,357	1	0	0
Muleba	159,691	45	816	0	0	0	4,283	1	0	0
Biharamulo	74,504	49	471	0	0	0	157	0	0	0
Ngara	104,447	50	3,220	2	0	0	0	0	0	0
Bukoba Urban	9,145	33	115	0	0	0	518	2	58	0
Missenyi	70,054	47	1,749	1	0	0	829	1	0	0
Chato	103,852	46	1,529	1	204	0	2,242	1	0	0
Total	824,084	47	17,271	1	3,695	0	10,851	1	58	0

...Cont.3.15: Number of Agricultural Household Members By Main Activity and District, 2007/08 Agricultural Year

District	Main Activity									
	Government / Parastatal		Private - NGO / Mission / etc		Self Employed (Non Farming) with Employees		Self Employed (Non Farming) without Employees		Unpaid Family Helper (Non Agriculture)	
	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	2,095	1	1,862	0	2,560	1	6,051	1	1,862	0
Bukoba Rural	2,652	1	4,567	2	2,357	1	1,621	1	442	0
Muleba	2,855	1	6,526	2	4,691	1	4,283	1	816	0
Biharamulo	941	1	1,725	1	1,098	1	941	1	78	0
Ngara	2,061	1	2,318	1	1,030	0	515	0	515	0
Bukoba Urban	920	3	2,416	9	1,035	4	230	1	173	1
Missenyi	2,117	1	1,841	1	921	1	644	0	368	0
Chato	1,019	0	917	0	1,121	0	1,529	1	611	0
Total	14,660	1	22,173	1	14,813	1	15,814	1	4,866	0

...Cont.3.15: Number of Agricultural Household Members By Main Activity and District, 2007/08 Agricultural Year

District	Main Activity													
	Not Working & Available		Not Working & Unavailable		House maker / Housewife		Student		Unable to Work / Too Old / Retired / Sick / Disabled		Other		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	465	0	233	0	233	0	156,872	39	32,119	8	1,396	0	404,049	100
Bukoba Rural	295	0	1,768	1	295	0	86,333	36	17,385	7	1,326	1	238,816	100
Muleba	204	0	816	0	816	0	129,915	36	38,954	11	1,428	0	356,092	100
Biharamulo	157	0	235	0	314	0	50,976	34	19,449	13	0	0	151,046	100
Ngara	129	0	386	0	129	0	71,477	34	22,280	11	515	0	209,022	100
Bukoba Urban	0	0	58	0	288	1	11,043	40	1,495	5	58	0	27,550	100
Missenyi	368	0	184	0	0	0	61,125	41	7,917	5	276	0	148,394	100
Chato	0	0	408	0	1,019	0	83,775	37	26,804	12	102	0	225,132	100
Total	1,618	0	4,087	0	3,092	0	651,515	37	166,403	9	5,101	0	1,760,101	100

LAND ACCESS/OWNERSHIP/TENURE

4.1: Number of Agriculture households by type of land Ownership/Tenure and District for the 2007/08 agriculture year

District	Land ownership/tenure														Total number of households
	Leased / Certificate of Ownership		Owned under Customary Law		Bought		Rented		Borrowed		Households with area Share - cropped		Households with area under Other forms of Tenure		
	No of Households	%	No of Households	%	No of Households	%	No of Households	%	No of Households	%	No of Households	%	No of Households	%	
Karagwe	2,327	2.5	64,006	67.9	47,480	50.4	3,491	3.7	5,586	5.9	931	1.0	931	1.0	94,263
Bukoba Rural	737	1.2	51,122	85.7	16,353	27.4	442	0.7	10,607	17.8	442	0.7	1,179	2.0	59,667
Muleba	2,855	3.5	70,362	85.2	31,408	38.0	2,243	2.7	15,296	18.5	612	0.7	2,039	2.5	82,599
Biharamulo	941	3.0	22,586	71.1	13,411	42.2	1,568	4.9	2,588	8.1	235	0.7	235	0.7	31,762
Ngara	258	0.5	44,045	84.4	19,576	37.5	7,985	15.3	3,220	6.2	258	0.5	1,288	2.5	52,159
Bukoba Urban	115	1.7	5,751	83.3	1,323	19.2	115	1.7	173	2.5	0	0.0	173	2.5	6,902
Missenyi	2,670	7.2	28,813	77.3	11,691	31.4	184	0.5	6,352	17.0	0	0.0	921	2.5	37,283
Chato	917	2.2	19,874	48.1	20,485	49.6	9,784	23.7	5,911	14.3	306	0.7	713	1.7	41,276
Total	10,820	2.7	306,560	75.5	161,727	39.8	25,813	6.4	49,733	12.3	2,783	0.7	7,479	1.8	405,910

4.2: Area of land (ha) by Ownership/Tenure and District for the 2007/08 agriculture year

Land Ownership/Tenure								
District	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
Karagwe	5,748	73,504	54,600	1,885	3,121	518	316	139,692
Bukoba Rural	261	36,620	16,518	60	2,457	149	620	56,685
Muleba	3,086	53,913	32,396	813	4,472	103	929	95,712
Biharamulo	1,619	56,286	35,118	1,294	1,611	111	48	96,088
Ngara	65	50,485	20,306	4,497	1,525	130	1,079	78,089
Bukoba Urban	58	3,945	710	17	116	.	81	4,929
Missenyi	2,144	29,835	16,056	140	23,291	.	566	72,031
Chato	557	44,418	54,278	7,829	4,048	268	1,083	112,481
Total	13,539	349,006	229,983	16,535	40,642	1,280	4,722	655,708

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
Karagwe	52,834	56	41,429	44	94,263
Bukoba Rural	46,997	79	12,670	21	59,667
Muleba	56,290	68	26,309	32	82,599
Biharamulo	14,195	45	17,567	55	31,762
Ngara	27,174	52	24,985	48	52,159
Bukoba Urban	6,212	90	690	10	6,902
Missenyi	22,554	60	14,729	40	37,283
Chato	23,746	58	17,530	42	41,276
Total	250,001	62	155,909	38	405,910

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
Karagwe	29,326	31	64,937	69	94,263
Bukoba Rural	23,720	40	35,948	60	59,667
Muleba	21,211	26	61,388	74	82,599
Biharamulo	14,979	47	16,783	53	31,762
Ngara	17,644	34	34,515	66	52,159
Bukoba Urban	1,783	26	5,119	74	6,902
Missenyi	15,834	42	21,449	58	37,283
Chato	13,555	33	27,721	67	41,276
Total	138,051	34	267,859	66	405,910

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

District	Do any Female Members of the Hh own or have customary right to Land				
	Yes	%	No	%	Total
Karagwe	24,904	26	69,359	74	94,263
Bukoba Rural	17,679	30	41,988	70	59,667
Muleba	26,309	32	56,290	68	82,599
Biharamulo	4,470	14	27,292	86	31,762
Ngara	14,167	27	37,992	73	52,159
Bukoba Urban	2,876	42	4,026	58	6,902
Missenyi	7,180	19	30,102	81	37,283
Chato	8,051	20	33,225	80	41,276
Total	105,637	26	300,273	74	405,910

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

District	Type of land use												
	Househol ds under Temporary Mono Crops	Househol ds under Temporary Mixed Crops	Househol ds under Permanent Mono Crops	Househol ds under Permanent Mixed Crops	Househol ds under Permanent / Annual Mix	Househol ds under Pasture	Househol ds under Fallow	Househol ds under Natural Bush	Househol ds under Planted Trees	Househol ds Rented to Others	Househol ds Unusable	Household s of Uncultivated Usable Land	Total number of households
Karagwe	30,024	40,964	15,129	41,895	43,058	3,724	18,853	3,724	6,982	1,164	4,888	10,241	220,645
Bukoba Rural	22,099	19,594	10,313	16,206	35,800	884	6,188	589	2,947	589	442	5,304	120,955
Muleba	27,329	25,697	12,849	22,434	49,967	1,020	8,158	1,428	8,158	0	2,651	10,197	169,888
Biharamulo	18,900	17,802	6,901	3,451	8,156	1,882	9,097	2,039	471	706	2,745	5,803	77,954
Ngara	33,614	39,280	14,038	22,280	12,492	3,477	13,523	1,545	4,636	1,159	3,220	5,280	154,545
Bukoba Urban	920	1,783	1,035	3,451	3,278	288	173	58	575	58	0	288	11,906
Missenyi	10,402	20,344	3,590	12,704	18,043	736	6,444	368	3,590	184	921	5,984	83,310
Chato	27,721	30,167	5,198	2,344	3,261	2,854	11,007	3,363	408	3,363	2,548	6,013	98,247
Total	171,010	195,632	69,052	124,764	174,057	14,865	73,441	13,114	27,767	7,223	17,414	49,110	937,450

4.7: Area of Land (ha) by land use and District for the 2007/08 agriculture year

District	Land use area												
	Area under Temporary Mono Crops	Area under Temporary Mixed Crops	Area under Permanent Mono Crops	Area under Permanent Mixed Crops	Area under Permanent / Annual Mix	Area under Pasture	Area under Fallow	Area under Natural Bush	Area under Planted Trees	Area Rented to Others	Area Unusable	Area of Uncultivated Usable Land	Total area (ha)
Karagwe	12,119	21,674	7,165	30,884	34,849	4,759	13,786	2,002	2,709	400	2,898	6,447	139,691.77
Bukoba Rural	6,618	7,650	3,456	6,422	23,586	358	2,292	212	3,109	239	75	2,670	56,685.46
Muleba	10,024	12,717	5,823	10,595	41,216	991	4,398	970	3,134	.	908	4,938	95,712.48
Biharamulo	20,604	18,151	3,130	1,328	7,450	15,328	11,076	6,168	437	984	1,426	10,006	96,087.84
Ngara	19,171	21,543	4,984	9,956	6,800	1,317	6,658	681	1,043	508	1,421	4,236	78,317.98
Bukoba Urban	208	716	320	1,504	1,633	81	23	23	326	23	.	70	4,928.80
Missenyi	4,769	9,898	1,703	7,135	16,479	22,175	3,830	79	2,031	65	228	3,656	72,050.07
Chato	32,124	33,561	3,090	1,131	3,419	5,653	15,818	4,724	227	3,766	1,294	7,675	112,481.19
Total	105,636	125,909	29,672	68,954	135,433	50,661	57,882	14,860	13,015	5,986	8,249	39,698	655,955.59

PLANTED AREA AND CROP OWNERSHIP

5.1: Planted Area by Crop and Sex of Household members owning most of the crop for the agriculture year 2007/08 Short and Long Season- Karagwe

Crop	SHORT RAINY SEASON				LONG RAINY SEASON			
	Male		Female		Male		Female	
	No. of Hholds	Planted Area	No. of Hholds	Planted Area	No. of Hholds	Planted Area	No. of Hholds	Planted Area
Maize	40,265	8,713	20,016	3,242	16,525	4,263	6,051	1,021
Paddy	0	.	0	.	233	66	0	.
Sorghum	4,888	1,097	1,164	221	4,655	1,294	1,396	259
Bulrush Millet	0	.	0	.	0	.	0	.
Finger Millet	698	72	1,164	151	1,629	270	931	118
Wheat	0	.	0	.	0	.	0	.
Barley	0	.	0	.	0	.	0	.
CEREALS	45,851	9,882	22,344	3,615	23,042	5,893	8,379	1,397
Yam	0	.	0	.	0	.	0	.
Cassava	0	.	0	.	0	.	0	.
Sweet Potato	0	.	931	66	698	83	698	52
Irish potatoes	465	71	1,164	75	465	28	233	24
Yams	233	9	0	.	0	.	233	24
Coco Yam	1,862	433	465	38	3,258	278	931	129
ROOTS & TUBERS	2,560	513	2,560	179	4,422	389	2,095	228
Mung Bean	465	41	0	.	0	.	0	.
Beans	44,687	16,669	29,559	9,169	30,490	11,227	16,758	4,813
Cowpeas	0	.	0	.	0	.	0	.
Green gram	0	.	0	.	0	.	0	.
Chick peas	0	.	0	.	0	.	0	.
Bambaranuts	0	.	465	30	0	.	0	.
Field Peas	1,164	188	2,095	243	1,629	283	1,629	259
PULSES	46,317	16,898	32,119	9,443	32,119	11,510	18,387	5,072
Sunflower	0	.	0	.	0	.	0	.
Simsim	0	.	0	.	0	.	0	.
Groundnut	3,491	578	6,517	814	4,888	825	3,258	517
Soya Beans	0	.	0	.	0	.	0	.
OIL SEEDS & OIL NUTS	3,491	578	6,517	814	4,888	825	3,258	517
Okra	0	.	233	24	0	.	0	.
Bitteer Aubergine	233	9	0	.	233	19	0	.
Onion	465	57	0	.	233	19	0	.
Ginger	0	.	0	.	0	.	0	.
Cabbage	698	141	233	1	465	61	233	1
Tomatoes	698	85	0	.	465	47	465	49
Spinach	0	.	0	.	0	.	0	.
Carrot	0	.	0	.	0	.	0	.
Chillies	0	.	0	.	0	.	0	.
Amaranths	0	.	0	.	233	9	0	.
Pumpkins	0	.	0	.	0	.	0	.
Cucumber	0	.	0	.	0	.	0	.
Egg Plant	0	.	0	.	233	38	0	.
Water Mellon	0	.	0	.	0	.	0	.
FRUITS & VEGETABLES	2,095	292	465	24	1,862	193	698	50
Cotton	0	.	0	.	0	.	0	.
Tobacco	0	.	0	.	0	.	0	.
CASH CROPS	0	.	0	.	0	.	0	.
Total	100,314	28,162	64,006	14,075	66,333	18,810	32,817	7,265

5.2: Planted Area by Crop and Sex of Household members owning most of the crop for the agriculture year 2007/08 Short and Long Season- Bukoba Rural

Crop	SHORT RAINY SEASON				LONG RAINY SEASON			
	Male		Female		Male		Female	
	No. of Hholds	Planted Area	No. of Hholds	Planted Area	No. of Hholds	Planted Area	No. of Hholds	Planted Area
Maize	14,438	2,318	31,381	3,887	1,621	233	1,179	314
Paddy	0	.	147	7	0	.	147	30
Sorghum	0	.	0	.	0	.	0	.
Bulrush Millet	0	.	0	.	0	.	0	.
Finger Millet	0	.	147	16	0	.	0	.
Wheat	0	.	0	.	0	.	0	.
Barley	0	.	0	.	0	.	0	.
CEREALS	14,438	2,318	31,675	3,909	1,621	233	1,326	344
Yam	0	.	0	.	0	.	0	.
Cassava	295	37	147	30	0	.	147	30
Sweet Potato	7,366	824	15,617	1,440	2,357	379	8,692	758
Irish potatoes	0	.	0	.	0	.	147	2
Yams	1,621	133	4,125	515	442	47	589	134
Coco Yam	7,366	484	11,786	694	1,768	199	2,210	191
ROOTS & TUBERS	16,648	1,477	31,675	2,679	4,567	624	11,786	1,115
Mung Bean	0	.	0	.	0	.	0	.
Beans	12,228	3,053	35,211	10,126	1,915	613	7,661	2,006
Cowpeas	147	38	0	.	0	.	0	.
Green gram	0	.	0	.	0	.	0	.
Chick peas	0	.	0	.	0	.	0	.
Bambaranuts	295	10	1,621	243	0	.	295	20
Field Peas	0	.	0	.	0	.	0	.
PULSES	12,670	3,100	36,832	10,369	1,915	613	7,956	2,026
Sunflower	0	.	0	.	0	.	0	.
Simsim	0	.	0	.	0	.	0	.
Groundnut	1,031	57	1,768	106	147	30	295	45
Soya Beans	0	.	0	.	0	.	0	.
OIL SEEDS & OIL NUTS	1,031	57	1,768	106	147	30	295	45
Okra	0	.	0	.	0	.	0	.
Bitteer Aubergine	589	30	295	10	295	20	147	15
Onion	0	.	0	.	0	.	0	.
Ginger	0	.	0	.	0	.	0	.
Cabbage	737	64	147	23	147	8	295	32
Tomatoes	1,473	130	0	.	442	23	295	70
Spinach	0	.	0	.	0	.	0	.
Carrot	0	.	0	.	0	.	0	.
Chillies	0	.	0	.	147	15	0	.
Amaranths	0	.	0	.	0	.	0	.
Pumpkins	0	.	0	.	0	.	0	.
Cucumber	0	.	0	.	0	.	0	.
Egg Plant	0	.	0	.	0	.	0	.
Water Mellon	147	15	0	.	0	.	0	.
FRUITS & VEGETABLES	2,947	239	442	33	1,031	66	737	116
Cotton	0	.	0	.	0	.	0	.
Tobacco	0	.	0	.	0	.	147	15
CASH CROPS	0	.	0	.	0	.	147	15
Total	47,734	7,190	102,392	17,096	9,282	1,566	22,246	3,660

5.3: Planted Area by Crop and Sex of Household members owning most of the crop for the agriculture year 2007/08 Short and Long Season- Muleba

Crop	SHORT RAINY SEASON				LONG RAINY SEASON			
	Male		Female		Male		Female	
	No. of Hholds	Planted Area	No. of Hholds	Planted Area	No. of Hholds	Planted Area	No. of Hholds	Planted Area
Maize	35,283	7,131	32,632	4,885	1,224	119	1,836	366
Paddy	816	599	0	.	0	.	0	.
Sorghum	1,632	412	408	231	1,836	522	0	.
Bulrush Millet	0	.	0	.	0	.	0	.
Finger Millet	1,224	372	0	.	0	.	204	21
Wheat	0	.	0	.	0	.	0	.
Barley	0	.	0	.	0	.	0	.
CEREALS	38,954	8,513	33,039	5,116	3,059	641	2,039	386
Yam	0	.	0	.	0	.	0	.
Cassava	408	83	612	87	0	.	0	.
Sweet Potato	5,099	694	14,888	1,831	1,020	165	7,342	701
Irish potatoes	0	.	0	.	0	.	0	.
Yams	408	36	1,224	92	0	.	0	.
Coco Yam	2,243	144	4,487	315	204	21	612	50
ROOTS & TUBERS	8,158	957	21,211	2,325	1,224	186	7,954	751
Mung Bean	0	.	0	.	0	.	0	.
Beans	28,757	9,795	39,158	11,012	2,447	462	3,263	862
Cowpeas	204	30	0	.	0	.	0	.
Green gram	204	21	0	.	0	.	0	.
Chick peas	0	.	0	.	0	.	0	.
Bambaranuts	408	17	1,632	154	204	17	1,020	101
Field Peas	0	.	0	.	0	.	0	.
PULSES	29,572	9,862	40,789	11,167	2,651	478	4,283	963
Sunflower	0	.	0	.	0	.	0	.
Simsim	0	.	0	.	0	.	0	.
Groundnut	3,467	622	5,303	940	408	116	3,059	477
Soya Beans	204	21	0	.	0	.	0	.
OIL SEEDS & OIL NUTS	3,671	642	5,303	940	408	116	3,059	477
Okra	0	.	0	.	0	.	0	.
Bitteer Aubergine	204	11	0	.	204	12	0	.
Onion	0	.	0	.	204	21	0	.
Ginger	0	.	0	.	0	.	0	.
Cabbage	0	.	0	.	0	.	0	.
Tomatoes	1,428	195	408	25	816	83	0	.
Spinach	0	.	0	.	0	.	0	.
Carrot	0	.	0	.	0	.	0	.
Chillies	0	.	0	.	0	.	0	.
Amaranths	204	21	0	.	0	.	0	.
Pumpkins	0	.	0	.	0	.	0	.
Cucumber	204	21	204	4	0	.	0	.
Egg Plant	0	.	0	.	0	.	0	.
Water Mellon	0	.	0	.	0	.	0	.
FRUITS & VEGETABLES	2,039	247	612	29	1,224	116	0	.
Cotton	0	.	0	.	0	.	0	.
Tobacco	204	83	0	.	0	.	0	.
CASH CROPS	204	83	0	.	0	.	0	.
Total	82,599	20,304	100,954	19,576	8,566	1,536	17,336	2,577

5.4: Planted Area by Crop and Sex of Household members owning most of the crop for the agriculture year 2007/08 Short and Long Season- Biharamulo

Crop	SHORT RAINY SEASON				LONG RAINY SEASON			
	Male		Female		Male		Female	
	No. of Hholds	Planted Area	No. of Hholds	Planted Area	No. of Hholds	Planted Area	No. of Hholds	Planted Area
Maize	23,998	15,355	5,176	1,849	627	429	78	0
Paddy	2,510	1,802	392	413	78	32	0	.
Sorghum	1,020	535	471	151	4,784	3,839	1,020	387
Bulrush Millet	0	.	0	.	0	.	0	.
Finger Millet	0	.	0	.	0	.	0	.
Wheat	0	.	0	.	0	.	0	.
Barley	0	.	0	.	0	.	0	.
CEREALS	27,527	17,692	6,039	2,412	5,490	4,299	1,098	388
Yam	0	.	0	.	0	.	0	.
Cassava	471	671	235	68	78	48	0	.
Sweet Potato	1,725	347	2,666	429	627	65	941	113
Irish potatoes	0	.	0	.	0	.	0	.
Yams	235	20	78	8	78	24	78	24
Coco Yam	1,098	120	627	61	0	.	78	8
ROOTS & TUBERS	3,529	1,158	3,608	566	784	137	1,098	144
Mung Bean	0	.	0	.	0	.	0	.
Beans	15,058	6,033	8,391	2,812	2,510	1,014	784	145
Cowpeas	78	38	0	.	0	.	0	.
Green gram	0	.	0	.	0	.	0	.
Chick peas	0	.	0	.	0	.	0	.
Bambaranuts	0	.	157	5	0	.	0	.
Field Peas	0	.	0	.	0	.	0	.
PULSES	15,136	6,071	8,548	2,817	2,510	1,014	784	145
Sunflower	0	.	78	16	0	.	0	.
Simsim	0	.	0	.	0	.	0	.
Groundnut	3,137	1,077	1,647	353	1,255	500	78	16
Soya Beans	0	.	0	.	0	.	0	.
OIL SEEDS & OIL NUTS	3,137	1,077	1,725	369	1,255	500	78	16
Okra	78	16	0	.	0	.	0	.
Bitteer Aubergine	0	.	0	.	0	.	78	8
Onion	0	.	0	.	0	.	0	.
Ginger	0	.	0	.	0	.	0	.
Cabbage	0	.	0	.	157	40	0	.
Tomatoes	157	56	78	8	78	40	78	5
Spinach	0	.	0	.	157	60	0	.
Carrot	0	.	0	.	0	.	0	.
Chillies	0	.	0	.	78	1	0	.
Amaranths	78	24	0	.	78	1	157	8
Pumpkins	0	.	0	.	0	.	0	.
Cucumber	0	.	0	.	0	.	0	.
Egg Plant	0	.	0	.	78	1	0	.
Water Mellon	0	.	0	.	0	.	0	.
FRUITS & VEGETABLES	314	95	78	8	627	143	314	21
Cotton	784	556	0	.	0	.	0	.
Tobacco	235	127	157	79	0	.	78	32
CASH CROPS	1,020	683	157	79	0	.	78	32
Total	50,662	26,776	20,155	6,252	10,666	6,093	3,451	746

5.5: Planted Area by Crop and Sex of Household members owning most of the crop for the agriculture year 2007/08 Short and Long Season- Ngara

Crop	SHORT RAINY SEASON				LONG RAINY SEASON			
	Male		Female		Male		Female	
	No. of Hholds	Planted Area	No. of Hholds	Planted Area	No. of Hholds	Planted Area	No. of Hholds	Planted Area
Maize	30,909	7,716	15,970	3,820	4,636	1,188	2,318	644
Paddy	129	21	0	.	0	.	0	.
Sorghum	1,417	425	386	99	4,121	1,207	2,447	508
Bulrush Millet	0	.	0	.	0	.	0	.
Finger Millet	386	52	515	196	386	65	515	70
Wheat	0	.	0	.	0	.	129	13
Barley	0	.	0	.	0	.	0	.
CEREALS	32,841	8,214	16,871	4,115	9,144	2,461	5,409	1,236
Yam	0	.	0	.	0	.	0	.
Cassava	129	10	0	.	0	.	129	6
Sweet Potato	2,447	309	5,280	558	1,803	194	3,992	338
Irish potatoes	1,030	193	258	26	386	65	258	26
Yams	0	.	0	.	0	.	0	.
Coco Yam	5,280	798	8,629	2,048	773	94	902	91
ROOTS & TUBERS	8,886	1,311	14,167	2,632	2,962	354	5,280	462
Mung Bean	129	42	258	47	0	.	0	.
Beans	30,780	10,446	18,417	5,348	23,439	9,602	14,167	4,583
Cowpeas	0	.	0	.	129	26	0	.
Green gram	0	.	0	.	0	.	0	.
Chick peas	0	.	0	.	0	.	0	.
Bambaranuts	0	.	0	.	0	.	129	6
Field Peas	1,030	125	1,159	172	644	112	1,803	348
PULSES	31,939	10,613	19,833	5,567	24,212	9,740	16,098	4,938
Sunflower	0	.	0	.	0	.	0	.
Simsim	0	.	0	.	0	.	0	.
Groundnut	5,538	1,166	3,606	703	3,220	738	2,318	502
Soya Beans	129	26	0	.	129	13	0	.
OIL SEEDS & OIL NUTS	5,667	1,192	3,606	703	3,348	751	2,318	502
Okra	0	.	0	.	0	.	0	.
Bitteer Aubergine	0	.	0	.	0	.	0	.
Onion	0	.	0	.	129	4	0	.
Ginger	0	.	0	.	0	.	0	.
Cabbage	0	.	129	13	258	20	515	57
Tomatoes	515	50	0	.	515	71	258	65
Spinach	0	.	129	1	0	.	0	.
Carrot	0	.	0	.	0	.	0	.
Chillies	0	.	0	.	0	.	0	.
Amaranths	0	.	0	.	0	.	0	.
Pumpkins	129	26	129	2	258	6	0	.
Cucumber	0	.	0	.	0	.	0	.
Egg Plant	0	.	0	.	0	.	0	.
Water Mellon	0	.	0	.	0	.	0	.
FRUITS & VEGETABLES	644	76	386	16	1,159	100	773	123
Cotton	0	.	0	.	0	.	0	.
Tobacco	0	.	0	.	0	.	0	.
CASH CROPS	0	.	0	.	0	.	0	.
Total	79,977	21,406	54,864	13,033	40,826	13,405	29,879	7,260

5.6: Planted Area by Crop and Sex of Household members owning most of the crop for the agriculture year 2007/08 Short and Long Season- BukobaU								
Crop	SHORT RAINY SEASON				LONG RAINY SEASON			
	Male		Female		Male		Female	
	No. of Hholds	Planted Area	No. of Hholds	Planted Area	No. of Hholds	Planted Area	No. of Hholds	Planted Area
Maize	1,265	182	1,208	148	345	81	173	17
Paddy	0	.	0	.	0	.	0	.
Sorghum	0	.	58	6	0	.	0	.
Bulrush Millet	0	.	0	.	0	.	0	.
Finger Millet	0	.	0	.	0	.	0	.
Wheat	0	.	0	.	0	.	0	.
Barley	0	.	0	.	0	.	0	.
CEREALS	1,265	182	1,265	154	345	81	173	17
Yam	0	.	0	.	0	.	0	.
Cassava	58	6	0	.	0	.	0	.
Sweet Potato	403	85	173	17	0	.	58	12
Irish potatoes	0	.	0	.	0	.	0	.
Yams	58	6	115	29	58	23	0	.
Coco Yam	288	44	115	29	115	9	0	.
ROOTS & TUBERS	805	141	403	76	173	33	58	12
Mung Bean	0	.	0	.	0	.	0	.
Beans	1,265	293	1,323	254	230	64	173	17
Cowpeas	0	.	0	.	0	.	0	.
Green gram	0	.	0	.	0	.	0	.
Chick peas	0	.	0	.	0	.	0	.
Bambaranuts	0	.	115	12	0	.	0	.
Field Peas	0	.	0	.	0	.	0	.
PULSES	1,265	293	1,438	265	230	64	173	17
Sunflower	0	.	0	.	0	.	0	.
Simsim	0	.	0	.	0	.	0	.
Groundnut	0	.	58	6	0	.	0	.
Soya Beans	0	.	0	.	0	.	0	.
OIL SEEDS & OIL NUTS	0	.	58	6	0	.	0	.
Okra	0	.	0	.	0	.	0	.
Bitteer	115	17	173	4	0	.	0	.
Aubergine	0	.	0	.	0	.	0	.
Onion	0	.	0	.	0	.	0	.
Ginger	0	.	0	.	0	.	0	.
Cabbage	0	.	0	.	0	.	0	.
Tomatoes	115	47	173	22	288	29	58	6
Spinach	0	.	58	12	0	.	0	.
Carrot	0	.	115	5	58	6	0	.
Chillies	0	.	0	.	0	.	0	.
Amaranths	0	.	58	9	0	.	0	.
Pumpkins	0	.	0	.	0	.	0	.
Cucumber	0	.	0	.	0	.	0	.
Egg Plant	0	.	0	.	0	.	0	.
Water Mellon	0	.	0	.	0	.	0	.
FRUITS & VEGETABLES	230	64	575	52	345	35	58	6
Cotton	0	.	0	.	0	.	0	.
Tobacco	0	.	0	.	0	.	0	.
CASH CROPS	0	.	0	.	0	.	0	.
Total	3,566	680	3,738	553	1,093	213	460	52

5.7: Planted Area by Crop and Sex of Household members owning most of the crop for the agriculture year 2007/08 Short and Long Season- Missenyi

Crop	SHORT RAINY SEASON				LONG RAINY SEASON			
	Male		Female		Male		Female	
	No. of Hholds	Planted Area	No. of Hholds	Planted Area	No. of Hholds	Planted Area	No. of Hholds	Planted Area
Maize	15,649	3,935	14,637	2,547	6,444	1,244	6,076	948
Paddy	92	19	0	.	0	.	0	.
Sorghum	1,289	355	552	57	1,565	328	1,013	95
Bulrush Millet	0	.	0	.	0	.	0	.
Finger Millet	184	37	184	37	92	19	0	.
Wheat	0	.	0	.	0	.	0	.
Barley	0	.	0	.	0	.	0	.
CEREALS	17,214	4,346	15,373	2,642	8,101	1,591	7,088	1,042
Yam	92	112	0	.	0	.	0	.
Cassava	184	41	644	48	92	5	368	25
Sweet Potato	6,536	822	9,021	768	3,682	507	6,168	680
Irish potatoes	184	13	92	4	829	69	184	10
Yams	2,762	208	3,222	234	2,025	142	2,301	157
Coco Yam	1,473	100	2,025	92	829	45	2,209	82
ROOTS & TUBERS	11,231	1,296	15,005	1,146	7,457	768	11,231	954
Mung Bean	184	37	184	11	0	.	0	.
Beans	13,348	3,981	18,227	4,969	6,168	1,255	6,260	1,359
Cowpeas	184	7	276	15	92	9	184	11
Green gram	0	.	0	.	0	.	0	.
Chick peas	0	.	0	.	0	.	0	.
Bambaranuts	2,025	338	1,473	227	1,841	307	1,381	210
Field Peas	368	112	92	19	184	6	184	9
PULSES	16,110	4,475	20,252	5,241	8,285	1,577	8,009	1,589
Sunflower	0	.	0	.	92	0	0	.
Simsim	0	.	0	.	0	.	0	.
Groundnut	4,695	612	6,720	622	3,038	398	4,050	389
Soya Beans	92	6	0	.	92	9	0	.
OIL SEEDS & OIL NUTS	4,787	618	6,720	622	3,222	407	4,050	389
Okra	184	37	92	15	0	.	92	4
Bitteer Aubergine	1,657	109	1,381	62	2,578	156	3,498	179
Onion	0	.	0	.	736	42	92	4
Ginger	0	.	92	7	0	.	92	1
Cabbage	2,762	233	1,565	133	1,933	121	1,657	99
Tomatoes	3,590	299	4,050	324	2,854	257	3,130	249
Spinach	0	.	0	.	0	.	92	4
Carrot	92	9	0	.	0	.	92	0
Chillies	460	63	1,657	115	552	28	1,473	101
Amaranths	1,105	117	2,946	228	1,013	48	2,946	148
Pumpkins	1,197	68	1,841	109	552	23	1,105	66
Cucumber	184	13	460	41	184	11	368	26
Egg Plant	92	0	0	.	92	0	0	.
Water Mellon	0	.	0	.	0	.	0	.
FRUITS & VEGETABLES	11,323	949	14,085	1,035	10,494	687	14,637	880
Cotton	0	.	0	.	0	.	0	.
Tobacco	0	.	0	.	0	.	0	.
CASH CROPS	0	.	0	.	0	.	0	.
Total	60,665	11,684	71,435	10,685	37,559	5,030	45,015	4,855

5.8: Planted Area by Crop and Sex of Household members owning most of the crop for the agriculture year 2007/08 Short and Long Season- Chato								
Crop	SHORT RAINY SEASON				LONG RAINY SEASON			
	Male		Female		Male		Female	
	No. of Hholds	Planted Area	No. of Hholds	Planted Area	No. of Hholds	Planted Area	No. of Hholds	Planted Area
Maize	31,084	18,893	7,134	3,499	1,733	734	408	124
Paddy	5,402	4,879	510	279	8,459	5,515	1,019	446
Sorghum	1,223	491	102	41	1,223	681	204	52
Bulrush Millet	306	371	102	41	0	.	0	.
Finger Millet	0	.	408	113	0	.	102	21
Wheat	0	.	0	.	0	.	0	.
Barley	0	.	102	17	0	.	0	.
CEREALS	38,015	24,634	8,357	3,990	11,415	6,929	1,733	642
Yam	0	.	0	.	0	.	0	.
Cassava	306	58	102	83	0	.	0	.
Sweet Potato	3,363	1,075	5,402	1,239	2,242	656	5,605	1,861
Irish potatoes	0	.	102	21	0	.	0	.
Yams	102	10	0	.	0	.	0	.
Coco Yam	0	.	0	.	0	.	0	.
ROOTS & TUBERS	3,771	1,143	5,605	1,342	2,242	656	5,605	1,861
Mung Bean	102	10	306	103	0	.	0	.
Beans	13,045	3,397	13,555	4,044	204	41	611	146
Cowpeas	204	15	611	67	102	41	102	10
Green gram	0	.	0	.	204	43	0	.
Chick peas	0	.	0	.	102	83	0	.
Bambaranuts	0	.	408	27	0	.	204	12
Field Peas	0	.	0	.	0	.	0	.
PULSES	13,351	3,422	14,880	4,242	611	208	917	169
Sunflower	0	.	0	.	0	.	0	.
Simsim	0	.	102	4	0	.	102	21
Groundnut	4,790	1,176	4,688	1,445	102	43	408	56
Soya Beans	0	.	0	.	0	.	0	.
OIL SEEDS & OIL NUTS	4,790	1,176	4,790	1,450	102	43	510	76
Okra	0	.	102	62	0	.	0	.
Bitteer Aubergine	0	.	102	10	0	.	0	.
Onion	102	10	0	.	204	15	0	.
Ginger	0	.	0	.	0	.	0	.
Cabbage	102	10	0	.	306	36	0	.
Tomatoes	306	41	0	.	713	103	102	10
Spinach	0	.	0	.	0	.	0	.
Carrot	0	.	0	.	0	.	0	.
Chillies	102	10	0	.	0	.	0	.
Amaranths	0	.	0	.	0	.	0	.
Pumpkins	0	.	0	.	0	.	0	.
Cucumber	102	10	0	.	0	.	0	.
Egg Plant	0	.	0	.	0	.	0	.
Water Mellon	0	.	0	.	102	10	0	.
FRUITS & VEGETABLES	713	83	204	72	1,325	165	102	10
Cotton	6,828	5,723	713	578	0	.	0	.
Tobacco	0	.	0	.	0	.	0	.
CASH CROPS	6,828	5,723	713	578	0	.	0	.
Total	67,468	36,181	34,549	11,674	15,695	8,002	8,867	2,758

5.9: Number of Household members owning most of the crop by Sex of the Main Owner, Season and District for the agriculture year 2007/08

District	SHORT RAINY SEASON						LONG RAINY SEASON					
	Male		Female		Total		Male		Female		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	53,765	62	33,050	38	86,815	100	39,800	66	20,249	34	60,049	100
Bukoba Rural	21,215	35	39,189	65	60,404	100	7,072	30	16,206	70	23,278	100
Muleba	39,974	46	47,724	54	87,697	100	6,526	33	13,257	67	19,783	100
Biharamulo	26,037	68	12,156	32	38,193	100	8,470	76	2,745	24	11,215	100
Ngara	35,803	58	25,500	42	61,303	100	28,462	59	19,447	41	47,909	100
Bukoba Urban	1,840	52	1,725	48	3,566	100	633	69	288	31	920	100
Missenyi	18,135	45	22,370	55	40,504	100	10,034	40	14,821	60	24,855	100
Chato	34,142	64	18,956	36	53,098	100	12,638	65	6,930	35	19,568	100
Total	230,911	54	200,670	46	431,580	100	113,634	55	93,942	45	207,576	100

5.10: Planted Area by District, season and Sex of Household members owning most of the crop for the agriculture year 2007/08

District	SHORT RAINY SEASON						LONG RAINY SEASON					
	Male		Female		Total		Male		Female		Total	
	Area (ha)	%	Area (ha)	%	Area (ha)	%	Area (ha)	%	Area (ha)	%	Area (ha)	%
Karagwe	28,162	62	14,075	38	42,238	100	18,810	66	7,265	34	26,075	100
Bukoba Rural	7,190	35	17,096	65	24,286	100	1,566	30	3,660	70	5,226	100
Muleba	20,304	46	19,576	54	39,880	100	1,536	33	2,577	67	4,113	100
Biharamulo	26,776	68	6,252	32	33,028	100	6,093	76	746	24	6,839	100
Ngara	21,406	58	13,033	42	34,439	100	13,405	59	7,260	41	20,665	100
Bukoba Urban	680	52	553	48	1,233	100	213	69	52	31	265	100
Missenyi	11,684	45	10,685	55	22,368	100	5,030	40	4,855	60	9,885	100
Chato	36,181	64	11,674	36	47,854	100	8,002	65	2,758	35	10,760	100
Total	152,383	54	92,944	46	245,327	100	54,654	55	29,174	45	83,828	100

ANNUAL CROP AND VEGETABLE PRODUCTION

5.11: 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)		
Karagwe	77,272	42,238	55,627	26,075	68,313	61.83
Bukoba Rural	55,689	24,286	21,362	5,226	29,512	82.29
Muleba	75,053	39,880	18,151	4,113	43,993	90.65
Biharamulo	30,978	33,028	10,744	6,839	39,866	82.85
Ngara	50,871	34,439	45,204	20,665	55,104	62.50
Bukoba Urban	3,508	1,233	920	265	1,499	82.29
Missenyi	36,362	22,368	22,830	9,885	32,253	69.35
Chato	40,562	47,854	16,510	10,760	58,614	81.64
Total	370,296	245,327	191,349	83,828	329,155	74.53

5.12: 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	
Karagwe	77,272	13,267	55,627	34,912	90,539
Bukoba Rural	55,689	3,830	21,362	38,158	59,520
Muleba	75,053	7,546	18,151	64,447	82,599
Biharamulo	30,978	784	10,744	21,018	31,762
Ngara	50,871	1,288	45,204	6,955	52,159
Bukoba Urban	3,508	3,336	920	5,924	6,844
Missenyi	36,362	644	22,830	14,177	37,006
Chato	40,562	611	16,510	24,664	41,174
Total	370,296	31,307	191,349	210,254	401,603

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

Crop	SHORT RAINY		LONG RAINY		SHORT & LONG SEASON	
	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)
Maize	1,608,934	883,130	3,479,383	3,199,370	5,088,317	4,082,500
Maize	60,282	11,956	22,576	5,283	82,858	17,239
Paddy	-	-	233	66	233	66
Sorghum	6,051	1,318	6,051	1,553	12,103	2,871
Bulrush Millet	-	-	-	-	-	-
Finger Millet	1,862	222	2,560	388	4,422	611
Wheat	-	-	-	-	-	-
Barley	-	-	-	-	-	-
CEREALS		13,497		7,291		20,787
Yam	-	-	-	-	-	-
Cassava	-	-	7,448	1,022	7,448	1,022
Sweet Potato	931	66	1,396	135	2,327	201
Irish potatoes	1,629	146	698	52	2,327	198
Yams	233	9	233	24	465	33
Coco Yam	2,327	470	4,189	407	6,517	877
ROOTS & TUBERS		692		1,640		2,331
Mung Bean	465	41	-	-	465	41
Beans	74,246	25,839	47,248	16,041	121,494	41,879
Cowpeas	-	-	-	-	-	-
Green gram	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-
Bambaranuts	465	30	-	-	465	30
Field Peas	3,258	432	3,258	542	6,517	973
PULSES		26,341		16,583		42,924
Sunflower	-	-	-	-	-	-
Simsim	-	-	-	-	-	-
Groundnut	10,008	1,392	8,146	1,342	18,154	2,734
Soya Beans	-	-	-	-	-	-
OIL SEEDS & OIL NUTS		1,392		1,342		2,734
Okra	233	24	-	-	233	24
Bitteer Aubergine	233	9	233	19	465	28
Onion	465	57	233	19	698	75
Ginger	-	-	-	-	-	-
Cabbage	931	142	698	62	1,629	204
Tomatoes	698	85	931	96	1,629	181
Spinach	-	-	-	-	-	-
Carrot	-	-	-	-	-	-
Chillies	-	-	-	-	-	-
Amaranth	-	-	233	9	233	9
Pumpkins	-	-	-	-	-	-
Cucumber	-	-	-	-	-	-
Egg Plant	-	-	233	38	233	38
Water Mellon	-	-	-	-	-	-
FRUITS & VEGETABLES		317		243		560
Cotton	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-
CASH CROPS						
Total		42,238		26,075		68,313

5.14: Number of Agriculture Households by Area Planted (ha) and crop for the agriculture year 2007/08 Short and Long Season - Bukoba Rural

Crop	SHORT RAINY		LONG RAINY		SHORT & LONG SEASON	
	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)
Maize	45,819	6,204	2,799	547	48,618	6,751
Paddy	147	7	147	30	295	37
Sorghum	0	.	0	.	0	.
Bulrush Millet	0	.	0	.	0	.
Finger Millet	147	16	0	.	147	16
Wheat	0	.	0	.	0	.
Barley	0	.	0	.	0	.
CEREALS		6,227		577		6,804
Yam	0	.	0	.	0	.
Cassava			33,443	4,094	33,443	4,094
Sweet Potato	22,983	2,264	11,049	1,137	34,032	3,402
Irish potatoes	0	.	147	2	147	2
Yams	5,746	648	1,031	181	6,777	829
Coco Yam	19,152	1,177	3,978	389	23,130	1,567
ROOTS & TUBERS		4,090		5,802		9,893
Mung Bean	0	.	0	.	0	.
Beans	47,439	13,179	9,576	2,619	57,015	15,798
Cowpeas	147	38	0	.	147	38
Green gram	0	.	0	.	0	.
Chick peas	0	.	0	.	0	.
Bambaranuts	1,915	252	295	20	2,210	272
Field Peas	0	.	0	.	0	.
PULSES		13,469		2,639		16,107
Sunflower	0	.	0	.	0	.
Simsim	0	.	0	.	0	.
Groundnut	2,799	162	442	75	3,241	237
Soya Beans	0	.	0	.	0	.
OIL SEEDS & OIL NUTS		162		75		237
Okra	0	.	0	.	0	.
Bitteer Aubergine	884	39	442	35	1,326	74
Onion	0	.	0	.	0	.
Ginger	0	.	0	.	0	.
Cabbage	884	87	442	39	1,326	126
Tomatoes	1,473	130	737	93	2,210	223
Spinach	0	.	0	.	0	.
Carrot	0	.	0	.	0	.
Chillies	0	.	147	15	147	15
Amaranths	0	.	0	.	0	.
Pumpkins	0	.	0	.	0	.
Cucumber	0	.	0	.	0	.
Egg Plant	0	.	0	.	0	.
Water Mellon	147	15	0	.	147	15
FRUITS & VEGETABLES		271		182		453
Cotton	0	.	0	.	0	.
Tobacco	0	.	147	15	147	15
CASH CROPS		.		15		15

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

Crop	SHORT RAINY		LONG RAINY		SHORT & LONG SEASON	
	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)
Maize	67,915	12,016	3,059	485	70,974	12,500
Paddy	816	599	-	-	816	599
Sorghum	2,039	643	1,836	522	3,875	1,165
Bulrush Millet	-	-	-	-	-	-
Finger Millet	1,224	372	204	21	1,428	392
Wheat	-	-	-	-	-	-
Barley	-	-	-	-	-	-
CEREALS		13,629		1,027		14,656
Yam	-	-	-	-	-	-
Cassava	-	-	41,197	7,369	41,197	7,369
Sweet Potato	19,987	2,526	8,362	866	28,349	3,392
Irish potatoes	-	-	-	-	-	-
Yams	1,632	128	-	-	1,632	128
Coco Yam	6,730	459	816	70	7,546	529
ROOTS & TUBERS		3,282		8,305		11,418
Mung Bean	-	-	-	-	-	-
Beans	67,915	20,808	5,711	1,324	73,625	22,131
Cowpeas	204	30	-	-	204	30
Green gram	204	21	-	-	204	21
Chick peas	-	-	-	-	-	-
Bambaranuts	2,039	171	1,224	117	3,263	288
Field Peas	-	-	-	-	-	-
PULSES		21,029		1,441		22,470
Sunflower	-	-	-	-	-	-
Simsim	-	-	-	-	-	-
Groundnut	8,770	1,561	3,467	593	12,237	2,154
Soya Beans	204	21	-	-	204	21
OIL SEEDS & OIL NUTS		1,582		593		2,175
Okra	-	-	-	-	-	-
Bitteer Aubergine	204	11	204	12	408	23
Onion	-	-	204	21	204	21
Ginger	-	-	-	-	-	-
Cabbage	-	-	-	-	-	-
Tomatoes	1,836	220	816	83	2,651	302
Spinach	-	-	-	-	-	-
Carrot	-	-	-	-	-	-
Chillies	-	-	-	-	-	-
Amaranths	204	21	-	-	204	21
Pumpkins	-	-	-	-	-	-
Cucumber	408	25	-	-	408	25
Egg Plant	-	-	-	-	-	-
Water Mellon	-	-	-	-	-	-
FRUITS & VEGETABLES		276		116		391
Cotton	-	-	-	-	-	-
Tobacco	204	83	-	-	204	83
CASH CROPS		83				83
Total		39,880		4,113		43,993

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

Crop	SHORT RAINY		LONG RAINY		SHORT & LONG SEASON	
	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)
Maize	29,174	17,204	706	429	29,880	17,633
Paddy	2,902	2,215	78	32	2,980	2,246
Sorghum	1,490	686	5,803	4,226	7,294	4,912
Bulrush Millet	-	-	-	-	-	-
Finger Millet	-	-	-	-	-	-
Wheat	-	-	-	-	-	-
Barley	-	-	-	-	-	-
CEREALS		20,104		4,687		24,791
Yam	-	-	-	-	-	-
Cassava	-	-	16,861	10,071	16,861	10,071
Sweet Potato	4,392	776	1,568	178	5,960	954
Irish potatoes	-	-	-	-	-	-
Yams	314	28	157	48	471	75
Coco Yam	1,725	181	78	8	1,804	189
ROOTS & TUBERS		1,724		10,305		11,289
Mung Bean	-	-	-	-	-	-
Beans	23,449	8,845	3,294	1,159	26,743	10,005
Cowpeas	78	38	-	-	78	38
Green gram	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-
Bambaranuts	157	5	-	-	157	5
Field Peas	-	-	-	-	-	-
PULSES		8,888		1,159		10,047
Sunflower	78	16	-	-	78	16
Simsim	-	-	-	-	-	-
Groundnut	4,784	1,431	1,333	516	6,117	1,947
Soya Beans	-	-	-	-	-	-
OIL SEEDS & OIL NUTS		1,447		516		1,963
Okra	78	16	-	-	78	16
Bitteer Aubergine	-	-	78	8	78	8
Onion	-	-	-	-	-	-
Ginger	-	-	-	-	-	-
Cabbage	-	-	157	40	157	40
Tomatoes	235	64	157	44	392	108
Spinach	-	-	157	60	157	60
Carrot	-	-	-	-	-	-
Chillies	-	-	78	1	78	1
Amaranths	78	24	235	10	314	33
Pumpkins	-	-	-	-	-	-
Cucumber	-	-	-	-	-	-
Egg Plant	-	-	78	1	78	1
Water Mellon	-	-	-	-	-	-
FRUITS & VEGETABLES		103		164		267
Cotton	784	556	-	-	784	556
Tobacco	392	206	78	32	471	238
CASH CROPS		762		32		794
Total		33,028		6,839		39,866

5.17: Number of Agriculture Households by Area Planted (ha) and crop for the agriculture year 2007/08 Short and Long Season – Ngara

Crop	SHORT RAINY		LONG RAINY		SHORT & LONG SEASON	
	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)
Maize	46,879	11,536	6,955	1,832	53,833	13,368
Paddy	129	21	-	-	129	21
Sorghum	1,803	525	6,568	1,715	8,371	2,240
Bulrush Millet	-	-	-	-	-	-
Finger Millet	902	248	902	136	1,803	383
Wheat	-	-	129	13	129	13
Barley	-	-	-	-	-	-
CEREALS		12,329		3,696		16,025
Yam	-	-	-	-	-	-
Cassava	-	-	16,742	3,504	16,742	3,504
Sweet Potato	7,727	868	5,795	532	13,523	1,400
Irish potatoes	1,288	219	644	91	1,932	310
Yams	-	-	-	-	-	-
Coco Yam	13,909	2,846	1,674	186	15,583	3,031
ROOTS & TUBERS		3,943		4,313		8,245
Mung Bean	386	89	-	-	386	89
Beans	49,197	15,794	37,606	14,185	86,803	29,980
Cowpeas	-	-	129	26	129	26
Green gram	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-
Bambaranuts	-	-	129	6	129	6
Field Peas	2,189	297	2,447	460	4,636	758
PULSES		16,180		14,678		30,858
Sunflower	-	-	-	-	-	-
Simsim	-	-	-	-	-	-
Groundnut	9,144	1,869	5,538	1,239	14,682	3,109
Soya Beans	129	26	129	13	258	39
OIL SEEDS & OIL NUTS		1,895		1,252		3,148
Okra	-	-	-	-	-	-
Bitter AuberGINE	-	-	-	-	-	-
Onion	-	-	129	4	129	4
Ginger	-	-	-	-	-	-
Cabbage	129	13	773	77	902	90
Tomatoes	515	50	773	136	1,288	186
Spinach	129	1	-	-	129	1
Carrot	-	-	-	-	-	-
Chillies	-	-	-	-	-	-
Amaranths	-	-	-	-	-	-
Pumpkins	258	28	258	6	515	34
Cucumber	-	-	-	-	-	-
Egg Plant	-	-	-	-	-	-
Water Mellon	-	-	-	-	-	-
FRUITS & VEGETABLES		92		223		314
Cotton	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-
CASH CROPS						
Total		34,439		20,665		55,104

5.18: Number of Agriculture Households by Area Planted (ha) and crop for the agriculture year 2007/08 Short and Long Season - Bukoba Urban

Crop	SHORT RAINY		LONG RAINY		SHORT & LONG SEASON	
	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)
Maize	2,473	330	518	99	2,991	429
Paddy	-	-	-	-	-	-
Sorghum	58	6	-	-	58	6
Bulrush Millet	-	-	-	-	-	-
Finger Millet	-	-	-	-	-	-
Wheat	-	-	-	-	-	-
Barley	-	-	-	-	-	-
CEREALS		336		99		435
Yam	-	-	-	-	-	-
Cassava	-	-	2,071	126	2,071	126
Sweet Potato	575	102	58	12	633	114
Irish potatoes	-	-	-	-	-	-
Yams	173	35	58	23	230	58
Coco Yam	403	73	115	9	518	83
ROOTS & TUBERS		216		170		381
Mung Bean	-	-	-	-	-	-
Beans	2,588	547	403	81	2,991	629
Cowpeas	-	-	-	-	-	-
Green gram	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-
Bambaranuts	115	12	-	-	115	12
Field Peas	-	-	-	-	-	-
PULSES		559		81		640
Sunflower	-	-	-	-	-	-
Simsim	-	-	-	-	-	-
Groundnut	58	6	-	-	58	6
Soya Beans	-	-	-	-	-	-
OIL SEEDS & OIL NUTS		6				6
Okra	-	-	-	-	-	-
Bitteer Aubergine	288	21	-	-	288	21
Onion	-	-	-	-	-	-
Ginger	-	-	-	-	-	-
Cabbage	-	-	-	-	-	-
Tomatoes	288	69	345	35	633	104
Spinach	58	12	-	-	58	12
Carrot	115	5	58	6	173	11
Chillies	-	-	-	-	-	-
Amaranths	58	9	-	-	58	9
Pumpkins	-	-	-	-	-	-
Cucumber	-	-	-	-	-	-
Egg Plant	-	-	-	-	-	-
Water Mellon	-	-	-	-	-	-
FRUITS & VEGETABLES		116		41		157
Cotton	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-
CASH CROPS						
Total		1,233		265		1,499

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

Crop	SHORT RAINY		LONG RAINY		SHORT & LONG SEASON	
	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)
Maize	30,286	6,482	12,520	2,192	42,806	8,674
Paddy	92	19	-	-	92	19
Sorghum	1,841	412	2,578	423	4,419	835
Bulrush Millet	-	-	-	-	-	-
Finger Millet	368	75	92	19	460	93
Wheat	-	-	-	-	-	-
Barley	-	-	-	-	-	-
CEREALS		6,987		2,633		9,621
Yam	92	112	-	-	92	112
Cassava			17,951	2,169	17,951	2,169
Sweet Potato	15,557	1,590	9,850	1,187	25,407	2,777
Irish potatoes	276	17	1,013	79	1,289	95
Yams	5,984	442	4,327	299	10,310	741
Coco Yam	3,498	192	3,038	127	6,536	319
ROOTS & TUBERS		2,442		3,861		6,213
Mung Bean	368	48	-	-	368	48
Beans	31,575	8,950	12,428	2,614	44,003	11,564
Cowpeas	460	22	276	20	736	43
Green gram	-	-	-	-	-	-
Chick peas	-	-	-	-	-	-
Bambaranuts	3,498	565	3,222	517	6,720	1,082
Field Peas	460	130	368	15	829	145
PULSES		9,716		3,166		12,882
Sunflower	-	-	92	0	92	0
Simsim	-	-	-	-	-	-
Groundnut	11,415	1,234	7,088	787	18,503	2,021
Soya Beans	92	6	92	9	184	15
OIL SEEDS & OIL NUTS		1,240		797		2,036
Okra	276	52	92	4	368	56
Bitter Aubergine	3,038	171	6,076	335	9,114	506
Onion	-	-	829	46	829	46
Ginger	92	7	92	1	184	8
Cabbage	4,327	366	3,590	220	7,917	586
Tomatoes	7,641	623	5,984	505	13,624	1,128
Spinach	-	-	92	4	92	4
Carrot	92	9	92	0	184	10
Chillies	2,117	178	2,025	129	4,143	306
Amaranths	4,050	345	3,958	196	8,009	542
Pumpkins	3,038	177	1,657	89	4,695	266
Cucumber	644	54	552	37	1,197	91
Egg Plant	92	0	92	0	184	1
Water Mellon	-	-	-	-	-	-
FRUITS & VEGETABLES		1,983		1,567		3,550
Cotton	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-
CASH CROPS						
Total		22,368		9,885		32,253

5.20: Number of Agriculture Households by Area Planted (ha) and crop for the agriculture year 2007/08 Short and Long Season – Chato

Crop	SHORT RAINY		LONG RAINY		SHORT & LONG SEASON	
	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)
Maize	38,218	22,392	2,140	857	40,359	23,250
Paddy	5,911	5,157	9,478	5,960	15,389	11,117
Sorghum	1,325	532	1,427	732	2,752	1,265
Bulrush Millet	408	413	-	-	408	413
Finger Millet	408	113	102	21	510	134
Wheat	-	-	-	-	-	-
Barley	102	17	-	-	102	17
CEREALS		28,624		7,571		36,195
Yam	-	-	-	-	-	-
Cassava	-	-	22,829	17,433	22,829	17,433
Sweet Potato	8,765	2,314	7,848	2,517	16,612	4,831
Irish potatoes	102	21	-	-	102	21
Yams	102	10	-	-	102	10
Coco Yam	-	-	-	-	-	-
ROOTS & TUBERS		2,485		19,950		22,295
Mung Bean	408	113	-	-	408	113
Beans	26,600	7,441	815	188	27,415	7,629
Cowpeas	815	82	204	52	1,019	134
Green gram	-	-	204	43	204	43
Chick peas	-	-	102	83	102	83
Bambaranuts	408	27	204	12	611	40
Field Peas	-	-	-	-	-	-
PULSES		7,664		378		8,041
Sunflower	-	-	-	-	-	-
Simsim	102	4	102	21	204	25
Groundnut	9,478	2,621	510	99	9,988	2,720
Soya Beans	-	-	-	-	-	-
OIL SEEDS & OIL NUTS		2,625		120		2,745
Okra	102	62	-	-	102	62
Bitteer Aubergine	102	10	-	-	102	10
Onion	102	10	204	15	306	26
Ginger	-	-	-	-	-	-
Cabbage	102	10	306	36	408	47
Tomatoes	306	41	815	113	1,121	155
Spinach	-	-	-	-	-	-
Carrot	-	-	-	-	-	-
Chillies	102	10	-	-	102	10
Amaranths	-	-	-	-	-	-
Pumpkins	-	-	-	-	-	-
Cucumber	102	10	-	-	102	10
Egg Plant	-	-	-	-	-	-
Water Mellon	-	-	102	10	102	10
FRUITS & VEGETABLES		155		175		330
Cotton	7,542	6,301	-	-	7,542	6,301
Tobacco	-	-	-	-	-	-
CASH CROPS		6,301				6,301
Total		47,854		10,760		58,614

5.21: Number of Agriculture Households by Area Planted (ha) and crop for the agriculture year 2007/08 Short and Long Season - KAGERA REGION

Crop	SHORT RAINY		LONG RAINY		SHORT & LONG SEASON	
	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)
Maize	321,045	88,120	51,273	11,725	372,318	99,844
Paddy	9,997	8,017	9,937	6,088	19,933	14,105
Sorghum	14,608	4,122	24,263	9,171	38,870	13,293
Bulrush Millet	408	413	-	-	408	413
Finger Millet	4,910	1,045	3,860	584	8,770	1,629
Wheat	-	-	129	13	129	13
Barley	102	17	-	-	102	17
CEREALS		101,733		27,581		129,314
Yam	92	112	-	-	92	112
Cassava			158,543	45,788	158,543	45,788
Sweet Potato	80,917	10,506	45,927	6,564	126,844	17,070
Irish potatoes	3,295	402	2,502	224	5,797	626
Yams	14,182	1,300	5,805	574	19,987	1,875
Coco Yam	47,745	5,399	13,889	1,197	61,634	6,595
ROOTS & TUBERS		18,941		54,347		72,066
Mung Bean	1,628	291	-	-	1,628	291
Beans	323,009	101,403	117,080	38,211	440,089	139,615
Cowpeas	1,705	210	609	98	2,314	308
Green gram	204	21	204	43	408	64
Chick peas	-	-	102	83	102	83
Bambaranuts	8,598	1,062	5,073	672	13,671	1,734
Field Peas	5,908	859	6,074	1,017	11,982	1,876
PULSES		103,846		40,124		143,970
Sunflower	78	16	92	0	170	16
Simsim	102	4	102	21	204	25
Groundnut	56,455	10,277	26,524	4,651	82,980	14,927
Soya Beans	425	52	221	22	646	75
OIL SEEDS & OIL NUTS		10,349		4,694		15,043
Okra	689	154	92	4	781	157
Bitteer Aubergine	4,748	262	7,033	409	11,781	671
Onion	567	67	1,598	105	2,165	171
Ginger	92	7	92	1	184	8
Cabbage	6,372	619	5,966	475	12,338	1,094
Tomatoes	12,991	1,280	10,557	1,106	23,548	2,386
Spinach	186	13	249	63	435	76
Carrot	207	15	150	6	357	21
Chillies	2,219	188	2,251	145	4,470	333
Amaranths	4,390	399	4,426	215	8,817	615
Pumpkins	3,295	205	1,915	95	5,210	300
Cucumber	1,154	89	552	37	1,707	126
Egg Plant	92	0	403	39	495	40
Water Mellon	147	15	102	10	249	25
FRUITS & VEGETABLES		3,313		2,710		6,023
Cotton	8,326	6,856	-	-	8,326	6,856
Tobacco	596	289	226	47	822	336
CASH CROPS		7,145		47		7,192
Total		245,327		83,828		329,155

5.22: Area planted (ha) and Quantity Harvested by Season and Crop for the 2007/08 agriculture year - KARAGWE

Crop	SHORT RAINY			LONG RAINY			SHORT & LONG RAINY SEASON		
	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Maize	11,956	15,508	1.3	5,283	6,014	1.1	17,239	21,522	1.2
Paddy				66	63	1.0	66	63	1.0
Sorghum	1,318	2,211	1.7	1,553	2,335	1.5	2,871	4,546	1.6
Bulrush Millet									
Finger Millet	222	145	0.7	388	314	0.8	611	459	0.8
Wheat									
Barley									
CEREALS	13,497	17,865	1.3	7,291	8,726	1.2	20,787	26,590	1.3
Yam									
Cassava				1,022	1,704	1.7	1,022	1,704	1.7
Sweet Potato	66	146	2.2	135	239	1.8	201	384	1.9
Irish potatoes	146	219	1.5	52	243	4.7	198	462	2.3
Yams	9	42	4.5	24	26	1.1	33	68	2.1
Coco Yam	470	459	1.0	407	391	1.0	877	850	1.0
ROOTS & TUBERS	692	866	1.3	1,640	2,603	10.3	2,331	3,468	9
Mung Bean	41	56	1.4				41	56	1.4
Beans	25,839	27,218	1.1	16,041	14,987	0.9	41,879	42,205	1.0
Cowpeas									
Green gram									
Chick peas									
Bambaranuts	30	8	0.3				30	8	0.3
Field Peas	432	206	0.5	542	261	0.5	973	468	0.5
PULSES	26,341	27,489	1.0	16,583	15,248	0.9	42,924	42,737	1.0
Sunflower									
Simsim									
Groundnut	1,392	916	0.7	1,342	890	0.7	2,734	1,806	0.7
Soya Beans									
OIL SEEDS & OIL NUTS	1,392	916	0.7	1,342	890	0.7	2,734	1,806	0.7
Okra	24	13	0.5				24	13	0.5
Bitteer Aubergine	9	8	0.9	19	98	5.2	28	106	3.7
Onion	57	79	1.4	19	132	7.0	75	211	2.8
Ginger									
Cabbage	142	431	3.0	62	1,122	18.0	204	1,553	7.6
Tomatoes	85	2,454	28.9	96	826	8.6	181	3,281	18.1
Spinach									
Carrot									
Chillies									
Amaranths				9	21	2.2	9	21	2.2
Pumpkins									
Cucumber									
Egg Plant				38	33	0.9	38	33	0.9
Water Mellon									
FRUITS & VEGETABLES	317	2,985	9.4	243	2,232	9.2	560	5,217	9.3
Cotton									
Tobacco									
CASH CROPS									
Total	42,238	50,121	1.2	26,075	27,993	1.1	68,313	78,114	1.1

5.23: Area planted (ha) and Quantity Harvested by Season and Crop for the 2007/08 agriculture year -BUKOKA RURAL

Crop	SHORT RAINY			LONG RAINY			SHORT & LONG RAINY SEASON		
	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Maize	6,204	5,052	0.8	547	573	1.0	6,751	5,625	0.8
Paddy	7	12	1.6	30	37	1.2	37	49	1.3
Sorghum									
Bulrush Millet									
Finger Millet	16	6	0.4				16	6	0.4
Wheat									
Barley									
CEREALS	6,227	5,070	0.8	577	610	1.1	6,804	5,680	0.8
Yam									
Cassava				4,094	17,155	4.2	4,094	17,155	4.2
Sweet Potato	2,264	5,506	2.4	1,137	2,888	2.5	3,402	8,394	2.5
Irish potatoes				2	12	6.6	2	12	6.6
Yams	648	896	1.4	181	231	1.3	829	1,127	1.4
Coco Yam	1,177	816	0.7	389	362	0.9	1,567	1,179	0.8
ROOTS & TUBERS	4,157	7,253	1.7	5,803	20,648	15.5	9,894	27,867	16
Mung Bean									
Beans	13,179	8,348	0.6	2,619	1,401	0.5	15,798	9,749	0.6
Cowpeas	38	11	0.3				38	11	0.3
Green gram									
Chick peas									
Bambaranuts	252	79	0.3	20	12	0.6	272	90	0.3
Field Peas									
PULSES	13,469	8,438	0.6	2,639	1,413	0.5	16,107	9,851	0.6
Sunflower									
Simsim									
Groundnut	162	141	0.9	75	40	0.5	237	181	0.8
Soya Beans									
OIL SEEDS & OIL NUTS	162	141	0.9	75	40	0.5	237	181	0.8
Okra									
Bitteer Aubergine	39	302	7.7	35	245	7.1	74	547	7.4
Onion									
Ginger									
Cabbage	87	832	9.6	39	309	7.9	126	1,142	9.0
Tomatoes	130	1,650	12.7	93	502	5.4	223	2,152	9.6
Spinach									
Carrot									
Chillies				15	29	2.0	15	29	2.0
Amaranths									
Pumpkins									
Cucumber									
Egg Plant									
Water Mellon	15	133	8.9				15	133	8.9
FRUITS & VEGETABLES	271	2,917	10.7	182	1,086	6.0	453	4,002	8.8
Cotton									
Tobacco				15	21	1.4	15	21	1.4
CASH CROPS				15	21	1.4	15	21	1.4
Total	24,286	23,818	1.0	5,226	6,713	1.3	29,512	30,531	1.0

5.24: Area planted (ha) and Quantity Harvested by Season and Crop for the 2007/08 agriculture year - MULEBA

Crop	SHORT RAINY			LONG RAINY			SHORT & LONG RAINY SEASON		
	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/a)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Maize	12,016	13,715	1.1	485	440	0.9	12,500	14,154	1.1
Paddy	599	245	0.4				599	245	0.4
Sorghum	643	799	1.2	522	432	0.8	1,165	1,232	1.1
Bulrush Millet									
Finger Millet	372	153	0.4	21	24	1.2	392	178	0.5
Wheat									
Barley									
CEREALS	13,629	14,912	1.1	1,027	897	0.9	14,656	15,809	1.1
Yam									
Cassava				7,369	18,877	2.6	7,369	18,877	2.6
Sweet Potato	2,526	4,369	1.7	866	1,789	2.1	3,392	6,158	1.8
Irish potatoes									
Yams	128	264	2.1				128	264	2.1
Coco Yam	459	543	1.2	70	91	1.3	529	633	1.2
ROOTS & TUBERS	3,282	5,363	1.6	8,305	20,757	6	11,418	25,932	8
Mung Bean									
Beans	20,808	14,905	0.7	1,324	945	0.7	22,131	15,850	0.7
Cowpeas	30	16	0.5				30	16	0.5
Green gram	21	12	0.6				21	12	0.6
Chick peas									
Bambaranuts	171	220	1.3	117	117	1.0	288	338	1.2
Field Peas									
PULSES	21,029	15,154	0.7	1,441	1,062	0.7	22,470	16,216	0.7
Sunflower									
Simsim									
Groundnut	1,561	1,146	0.7	593	462	0.8	2,154	1,608	0.7
Soya Beans	21	10	0.5				21	10	0.5
OIL SEEDS & OIL NUTS	1,582	1,156	0.7	593	462	0.8	2,175	1,618	0.7
Okra									
Bitteer Aubergine	11	41	3.8	12	92	7.4	23	133	5.7
Onion				21	65	3.2	21	65	3.2
Ginger									
Cabbage									
Tomatoes	220	3,731	17.0	83	688	8.3	302	4,420	14.6
Spinach									
Carrot									
Chillies									
Amaranths	21	6	0.3				21	6	0.3
Pumpkins									
Cucumber	25	82	3.3				25	82	3.3
Egg Plant									
Water Mellon									
FRUITS & VEGETABLES	276	3,860	14.0	116	845	7.3	391	4,705	12.0
Cotton									
Tobacco	83	29	0.3				83	29	0.3
CASH CROPS	83	29	0.3				83	29	0.3
Total	39,880	40,473	1.0	4,113	5,145	1.3	43,993	45,619	1.0

5.25: Area planted (ha) and Quantity Harvested by Season and Crop for the 2007/08 agriculture year - BIHARAMULO

Crop	SHORT RAINY			LONG RAINY			SHORT & LONG RAINY SEASON		
	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Maize	17,204	20,292	1.2	429	381	0.9	17,633	20,673	1.2
Paddy	2,215	3,731	1.7	32	47	1.5	2,246	3,778	1.7
Sorghum	686	404	0.6	4,226	4,735	1.1	4,912	5,138	1.0
Bulrush Millet									
Finger Millet									
Wheat									
Barley									
CEREALS	20,104	24,427	1.2	4,687	5,163	1.1	24,791	29,590	1.2
Yam									
Cassava				10,071	19,121	1.9	10,071	19,121	1.9
Sweet Potato	776	2,150	2.8	178	442	2.5	954	2,592	2.7
Irish potatoes									
Yams	28	73	2.6	48	121	2.5	75	193	2.6
Coco Yam	181	266	1.5	8	14	1.8	189	280	1.5
ROOTS & TUBERS	1,724	2,696	1.6	10,305	19,698	8.7	11,289	22,186	9
Mung Bean									
Beans	8,845	4,596	0.5	1,159	536	0.5	10,005	5,132	0.5
Cowpeas	38	60	1.6				38	60	1.6
Green gram									
Chick peas									
Bambaranuts	5	7	1.5				5	7	1.5
Field Peas									
PULSES	8,888	4,663	0.5	1,159	536	0.5	10,047	5,199	0.5
Sunflower	16	27	1.7				16	27	1.7
Simsim									
Groundnut	1,431	1,425	1.0	516	259	0.5	1,947	1,684	0.9
Soya Beans									
OIL SEEDS & OIL NUTS	1,447	1,452	1.0	516	259	0.5	1,963	1,711	0.9
Okra	16	27	1.7				16	27	1.7
Bitter Aubergine				8	20	2.6	8	20	2.6
Onion									
Ginger									
Cabbage				40	639	16.1	40	639	16.1
Tomatoes	64	1,039	16.4	44	1,261	28.4	108	2,299	21.3
Spinach				60	53	0.9	60	53	0.9
Carrot									
Chillies				1	27	21.6	1	27	21.6
Amaranths	24	472	19.8	10	77	8.1	33	550	16.5
Pumpkins									
Cucumber									
Egg Plant				1	20	15.4	1	20	15.4
Water Mellon									
FRUITS & VEGETABLES	103	1,538	14.9	164	2,097	12.8	267	3,635	13.6
Cotton	556	547	1.0				556	547	1.0
Tobacco	206	290	1.4	32	24	0.7	238	314	1.3
CASH CROPS	762	837	1.1	32	24	0.7	794	861	1.1
Total	33,028	35,613	1.1	6,839	8,664	1.3	39,866	44,277	1.1

5.26: Area planted (ha) and Quantity Harvested by Season and Crop for the 2007/08 agriculture year - NGARA

Crop	SHORT RAINY			LONG RAINY			SHORT & LONG RAINY SEASON		
	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Maize	11,536	10,862	0.9	1,832	654	0.4	13,368	11,516	0.9
Paddy	21	8	0.4				21	8	0.4
Sorghum	525	227	0.4	1,715	2,211	1.3	2,240	2,438	1.1
Bulrush Millet									
Finger Millet	248	31	0.1	136	17	0.1	383	48	0.1
Wheat				13	5	0.4	13	5	0.4
Barley									
CEREALS	12,329	11,127	0.9	3,696	2,887	0.8	16,025	14,014	0.9
Yam									
Cassava				3,504	7,742	2.2	3,504	7,742	2.2
Sweet Potato	868	1,542	1.8	532	1,005	1.9	1,400	2,547	1.8
Irish potatoes	219	260	1.2	91	137	1.5	310	397	1.3
Yams									
Coco Yam	2,846	2,270	0.8	186	274	1.5	3,031	2,544	0.8
ROOTS & TUBERS	3,943	4,137	1.0	4,313	9,158	7.1	8,245	13,230	6
Mung Bean	89	75	0.8				89	75	0.8
Beans	15,794	10,559	0.7	14,185	7,345	0.5	29,980	17,904	0.6
Cowpeas				26	1	0.0	26	1	0.0
Green gram									
Chick peas									
Bambaranuts				6	0	0.1	6	0	0.1
Field Peas	297	74	0.2	460	125	0.3	758	199	0.3
PULSES	16,180	10,708	0.7	14,678	7,472	0.5	30,858	18,180	0.6
Sunflower									
Simsim									
Groundnut	1,869	1,058	0.6	1,239	832	0.7	3,109	1,890	0.6
Soya Beans	26	4	0.1	13	1	0.1	39	5	0.1
OIL SEEDS & OIL NUTS	1,895	1,062	0.6	1,252	833	0.7	3,148	1,895	0.6
Okra									
Bitteer									
Aubergine									
Onion				4	10	2.8	4	10	2.8
Ginger									
Cabbage	13	2	0.1	77	990	12.8	90	992	11.0
Tomatoes	50	502	10.1	136	1,122	8.2	186	1,624	8.8
Spinach	1	10	9.3				1	10	9.3
Carrot									
Chillies									
Amaranths									
Pumpkins	28	52	1.8	6	135	23.6	34	187	5.5
Cucumber									
Egg Plant									
Water Mellon									
FRUITS & VEGETABLES	92	565	6.2	223	2,258	10.1	314	2,823	9.0
Cotton									
Tobacco									
CASH CROPS									
Total	34,439	27,599	0.8	20,665	14,879	0.7	55,104	42,478	0.8

5.27: Area planted (ha) and Quantity Harvested by Season and Crop for the 2007/08 agriculture year -BUKOKA URBAN

Crop	SHORT RAINY			LONG RAINY			SHORT & LONG RAINY SEASON		
	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Maize	330	212	0.6	99	162	1.6	429	374	0.9
Paddy									
Sorghum	6	7	1.2				6	7	1.2
Bulrush Millet									
Finger Millet									
Wheat									
Barley									
CEREALS	336	219	0.7	99	162	1.6	435	381	0.9
Yam									
Cassava				126	602	4.8	126	602	4.8
Sweet Potato	102	52	0.5	12	12	1.0	114	64	0.6
Irish potatoes									
Yams	35	7	0.2	23	3	0.1	58	11	0.2
Coco Yam	73	59	0.8	9	12	1.3	83	72	0.9
ROOTS & TUBERS	216	136	0.6	170	629	7.2	381	749	6.5
Mung Bean									
Beans	547	246	0.4	81	66	0.8	629	311	0.5
Cowpeas									
Green gram									
Chick peas									
Bambaranuts	12	24	2.0				12	24	2.0
Field Peas									
PULSES	559	269	0.5	81	66	0.8	640	335	0.5
Sunflower									
Simsim									
Groundnut	6	3	0.6				6	3	0.6
Soya Beans									
OIL SEEDS & OIL NUTS	6	3	0.6				6	3	0.6
Okra									
Bitter Aubergine	21	73	3.4				21	73	3.4
Onion									
Ginger									
Cabbage									
Tomatoes	69	512	7.5	35	148	4.2	104	660	6.4
Spinach	12	26	2.2				12	26	2.2
Carrot	5	13	2.4	6	4	0.7	11	17	1.5
Chillies									
Amaranths	9	17	1.9				9	17	1.9
Pumpkins									
Cucumber									
Egg Plant									
Water Mellon									
FRUITS & VEGETABLES	116	641	5.5	41	152	3.7	157	793	5.0
Cotton									
Tobacco									
CASH CROPS									
Total	1,233	1,268	1.0	265	408	1.5	1,499	1,676	1.1

5.28: Area planted (ha) and Quantity Harvested by Season and Crop for the 2007/08 agriculture year - MISSENYI

Crop	SHORT RAINY			LONG RAINY			SHORT & LONG RAINY SEASON		
	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Maize	6,482	8,605	1.3	2,192	2,493	1.1	8,674	11,098	1.3
Paddy	19	23	1.2				19	23	1.2
Sorghum	412	517	1.3	423	714	1.7	835	1,231	1.5
Bulrush Millet									
Finger Millet	75	72	1.0	19	6	0.3	93	77	0.8
Wheat									
Barley									
CEREALS	6,987	9,217	1.3	2,633	3,213	1.2	9,621	12,429	1.3
Yam	112	6	0.1				112	6	0.1
Cassava				2,169	9,389	4.3	2,169	9,389	4.3
Sweet Potato	1,590	3,697	2.3	1,187	2,683	2.3	2,777	6,380	2.3
Irish potatoes	17	92	5.5	79	418	5.3	95	509	5.3
Yams	442	658	1.5	299	365	1.2	741	1,023	1.4
Coco Yam	192	244	1.3	127	166	1.3	319	409	1.3
ROOTS & TUBERS	2,442	4,969	2.0	3,861	13,021	14.4	6,101	17,710	15
Mung Bean	48	99	2.1				48	99	2.1
Beans	8,950	8,081	0.9	2,614	2,333	0.9	11,564	10,413	0.9
Cowpeas	22	1	0.0	20	0	0.0	43	1	0.0
Green gram									
Chick peas									
Bambaranuts	565	153	0.3	517	154	0.3	1,082	307	0.3
Field Peas	130	178	1.4	15	5	0.3	145	183	1.3
PULSES	9,716	8,512	0.9	3,166	2,491	0.8	12,882	11,003	0.9
Sunflower				0	1	1.5	0	1	1.5
Simsim									
Groundnut	1,234	1,242	1.0	787	454	0.6	2,021	1,696	0.8
Soya Beans	6	4	0.7	9	-	-	15	4	0.2
OIL SEEDS & OIL NUTS	1,240	1,246	1.0	797	454	0.6	2,036	1,700	0.8
Okra	52	64	1.2	4	0	0.0	56	65	1.2
Bitteer Aubergine	171	158	0.9	335	923	2.8	506	1,081	2.1
Onion				46	303	6.6	46	303	6.6
Ginger	7	-	-	1	5	6.8	8	5	0.6
Cabbage	366	556	1.5	220	285	1.3	586	841	1.4
Tomatoes	623	1,544	2.5	505	1,229	2.4	1,128	2,773	2.5
Spinach				4	-	-	4	-	-
Carrot	9	2	0.2	0	1	2.0	10	3	0.3
Chillies	178	94	0.5	129	1	0.0	306	95	0.3
Amaranths	345	207	0.6	196	40	0.2	542	247	0.5
Pumpkins	177	897	5.1	89	30	0.3	266	927	3.5
Cucumber	54	27	0.5	37	1	0.0	91	28	0.3
Egg Plant	0	6	14.8	0	7	19.8	1	13	17.3
Water Mellon									
FRUITS & VEGETABLES	1,983	3,556	1.8	1,567	2,824	1.8	3,550	6,380	1.8
Cotton									
Tobacco									
CASH CROPS									
Total	22,368	27,499	1.2	9,885	12,693	1.3	32,253	40,192	1.2

5.29: Area planted (ha) and Quantity Harvested by Season and Crop for the 2007/08 agriculture year - CHATO

Crop	SHORT RAINY			LONG RAINY			SHORT & LONG RAINY SEASON		
	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Maize	22,392	34,611	1.5	857	1,574	1.8	23,250	36,185	1.6
Paddy	5,157	14,332	2.8	5,960	12,308	2.1	11,117	26,640	2.4
Sorghum	532	762	1.4	732	1,647	2.2	1,265	2,409	1.9
Bulrush Millet	413	553	1.3				413	553	1.3
Finger Millet	113	82	0.7	21	15	0.7	134	97	0.7
Wheat									
Barley	17	30	1.8				17	30	1.8
CEREALS	28,624	50,370	1.8	7,571	15,544	2.1	36,195	65,914	1.8
Yam									
Cassava				17,433	40,054	2.3	17,433	40,054	2.3
Sweet Potato	2,314	7,172	3.1	2,517	7,465	3.0	4,831	14,636	3.0
Irish potatoes	21	12	0.6				21	12	0.6
Yams	10	10	1.0				10	10	1.0
Coco Yam									
ROOTS & TUBERS	2,485	7,596	3.1	19,950	47,519	5.3	22,295	54,712	7
Mung Bean	113	91	0.8				113	91	0.8
Beans	7,441	5,786	0.8	188	112	0.6	7,629	5,899	0.8
Cowpeas	82	44	0.5	52	26	0.5	134	70	0.5
Green gram				43	36	0.8	43	36	0.8
Chick peas				83	36	0.4	83	36	0.4
Bambaranuts	27	31	1.1	12	16	1.3	40	47	1.2
Field Peas									
PULSES	7,664	5,952	0.8	378	227	0.6	8,041	6,178	0.8
Sunflower									
Simsim	4	3	0.6	21	15	0.7	25	18	0.7
Groundnut	2,621	2,074	0.8	99	62	0.6	2,720	2,136	0.8
Soya Beans									
OIL SEEDS & OIL NUTS	2,625	2,077	0.8	120	77	0.6	2,745	2,154	0.8
Okra	62	51	0.8				62	51	0.8
Bitteer Aubergine	10	5	0.5				10	5	0.5
Onion	10	12	1.2	15	64	4.2	26	76	3.0
Ginger									
Cabbage	10	82	7.9	36	441	12.2	47	523	11.2
Tomatoes	41	378	9.2	113	659	5.8	155	1,037	6.7
Spinach									
Carrot									
Chillies	10	31	3.0				10	31	3.0
Amaranths									
Pumpkins									
Cucumber	10	71	6.9				10	71	6.9
Egg Plant									
Water Mellon				10	206	20.0	10	206	20.0
FRUITS & VEGETABLES	155	630	4.1	175	1,370	7.8	330	2,000	6.1
Cotton	6,301	5,926	0.9				6,301	5,926	0.9
Tobacco									
CASH CROPS	6,301	5,926	0.9				6,301	5,926	0.9
Total	47,854	72,551	1.5	10,760	24,683	2.3	58,614	97,234	1.7

5.30: Area planted (ha) and Quantity Harvested by Season and Crop for the 2007/08 agriculture year - KAGERA REGION

Crop	SHORT RAINY			LONG RAINY			SHORT & LONG RAINY SEASON		
	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Maize	88,120	108,856	1.2	11,725	12,292	1.0	99,844	121,148	1.2
Paddy	8,017	18,351	2.3	6,088	12,454	2.0	14,105	30,805	2.2
Sorghum	4,122	4,927	1.2	9,171	12,074	1.3	13,293	17,001	1.3
Bulrush Millet	413	553	1.3				413	553	1.3
Finger Millet	1,045	489	0.5	584	376	0.6	1,629	865	0.5
Wheat				13	5	0.4	13	5	0.4
Barley	17	30	1.8				17	30	1.8
CEREALS	101,733	133,206	1.3	27,581	37,200	1.3	129,314	170,406	1.3
Yam	112	6	0.1				112	6	0.1
Cassava				45,788	114,644	2.5	45,788	114,644	2.5
Sweet Potato	10,506	24,635	2.3	6,564	16,522	2.5	17,070	41,156	2.4
Irish potatoes	402	583	1.4	224	809	3.6	626	1,392	2.2
Yams	1,300	1,951	1.5	574	746	1.3	1,875	2,697	1.4
Coco Yam	5,399	4,656	0.9	1,197	1,311	1.1	6,595	5,967	0.9
ROOTS & TUBERS	18,941	33,015	1.7	54,347	134,032	11	71,954	165,856	9
Mung Bean	291	321	1.1				291	321	1.1
Beans	101,403	79,739	0.8	38,211	27,724	0.7	139,615	107,463	0.8
Cowpeas	210	132	0.6	98	28	0.3	308	160	0.5
Green gram	21	12	0.6	43	36	0.8	64	48	0.8
Chick peas				83	36	0.4	83	36	0.4
Bambaranuts	1,062	522	0.5	672	300	0.4	1,734	822	0.5
Field Peas	859	459	0.5	1,017	391	0.4	1,876	849	0.5
PULSES	103,846	81,184	0.8	40,124	28,514	0.7	143,970	109,699	0.8
Sunflower	16	27	1.7	0	1	1.5	16	28	1.7
Simsim	4	3	0.6	21	15	0.7	25	18	0.7
Groundnut	10,277	8,005	0.8	4,651	2,999	0.6	14,927	11,004	0.7
Soya Beans	52	18	0.3	22	1	0.0	75	19	0.3
OIL SEEDS & OIL NUTS	10,349	8,052	0.8	4,694	3,016	0.6	15,043	11,068	0.7
Okra	154	155	1.0	4	0	0.0	157	156	1.0
Bitteer Aubergine	262	588	2.2	409	1,377	3.4	671	1,965	2.9
Onion	67	91	1.4	105	574	5.5	171	665	3.9
Ginger	7	-	-	1	5	6.8	8	5	0.6
Cabbage	619	1,903	3.1	475	3,787	8.0	1,094	5,690	5.2
Tomatoes	1,280	11,810	9.2	1,106	6,436	5.8	2,386	18,246	7.6
Spinach	13	36	2.8	63	53	0.8	76	88	1.2
Carrot	15	15	1.0	6	5	0.8	21	20	0.9
Chillies	188	125	0.7	145	58	0.4	333	183	0.5
Amaranths	399	703	1.8	215	138	0.6	615	841	1.4
Pumpkins	205	948	4.6	95	165	1.7	300	1,113	3.7
Cucumber	89	180	2.0	37	1	0.0	126	181	1.4
Egg Plant	0	6	14.8	39	60	1.5	40	65	1.6
Water Mellon	15	133	8.9	10	206	20.0	25	339	13.4
FRUITS & VEGETABLES	3,313	16,692	5.0	2,710	12,865	4.7	6,023	29,557	4.9
Cotton	6,856	6,473	0.9				6,856	6,473	0.9
Tobacco	289	319	1.1	47	44	0.9	336	363	1.1
CASH CROPS	7,145	6,792	1.0	47	44	0.9	7,192	6,836	1.0
Total	245,327	278,942	1.1	83,828	101,178	1.2	329,155	380,120	1.2

ANNUAL CROP AND VEGETABLE PRODUCTION BY DISTRICT

5.31: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short and Long RainySEASON Agricultural Year 2007/08

District	Maize				Paddy			
	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)
Karagwe	82,858	17,239	21,522.15	1.25	233	66	62.84	0.95
Bukoba Rural	48,618	6,751	5,625.07	0.83	295	37	48.62	1.31
Muleba	70,974	12,500	14,154.36	1.13	816	599	244.74	0.41
Biharamulo	29,880	17,633	20,673.25	1.17	2,980	2,246	3,778.04	1.68
Ngara	53,833	13,368	11,515.54	0.86	129	21	7.73	0.37
Bukoba Urban	2,991	429	374.13	0.87	0	.	.	.
Missenyi	42,806	8,674	11,098.22	1.28	92	19	23.01	1.24
Chato	40,359	23,250	36,184.79	1.56	15,389	11,117	26,640.28	2.40
Total	372,318	99,844	121,147.52	1.21	19,933	14,105	30,805.25	2.18

Cont..5.31: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short and Long RainySEASON Agricultural Year 2007/08

District	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)
Karagwe	12,103	2,871	4,546.49	1.58	0	.	.	.
Bukoba Rural	0	.	.	.	0	.	.	.
Muleba	3,875	1,165	1,231.64	1.06	0	.	.	.
Biharamulo	7,294	4,912	5,138.39	1.05	0	.	.	.
Ngara	8,371	2,240	2,437.56	1.09	0	.	.	.
Bukoba Urban	58	6	6.73	1.16	0	.	.	.
Missenyi	4,419	835	1,230.88	1.47	0	.	.	.
Chato	2,752	1,265	2,408.88	1.90	408	413	553.40	1.34
Total	38,870	13,293	17,000.57	1.28	408	413	553.40	1.34

Cont 5.31: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short and Long RainySEASON Agricultural Year 2007/08

District	Finger Millet				Wheat			
	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)
Karagwe	4,422	611	458.98	0.75	0	.	.	.
Bukoba Rural	147	16	5.89	0.38	0	.	.	.
Muleba	1,428	392	177.84	0.45	0	.	.	.
Biharamulo	0	.	.	.	0	.	.	.
Ngara	1,803	383	47.65	0.12	129	13	5.15	0.40
Bukoba Urban	0	.	.	.	0	.	.	.
Missenyi	460	93	77.23	0.83	0	.	.	.
Chato	510	134	97.33	0.73	0	.	.	.
Total	8,770	1,629	864.93	0.53	129	13	5.15	0.40

Cont. 5.31: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short and Long RainySEASON Agricultural Year 2007/08

District	Barley				Cassava			
	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)
Karagwe	0	.	.		7,448	1,022	1,704	1.7
Bukoba Rural	0	.	.		33,443	4,094	17,155	4.2
Muleba	0	.	.		41,197	7,369	18,877	2.6
Biharamulo	0	.	.		16,861	10,071	19,121	1.9
Ngara	0	.	.		16,742	3,504	7,742	2.2
Bukoba Urban	0	.	.		2,071	126	602	4.8
Missenyi	0	.	.		17,951	2,169	9,389	4.3
Chato	102	17	29.66	1.80	22,829	17,433	40,054	2.3
Total	102	17	29.66	1.80	158,543	45,788	114,644	2.5

Cont. 5.31: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short and Long RainySEASON Agricultural Year 2007/08

District	Yams				Coco Yam			
	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)
Karagwe	465	33	67.96	2.06	6,517	877	849.99	0.97
Bukoba Rural	6,777	829	1,127.19	1.36	23,130	1,567	1,178.91	0.75
Muleba	1,632	128	264.32	2.07	7,546	529	633.05	1.20
Biharamulo	471	75	193.16	2.57	1,804	189	280.05	1.48
Ngara	0	.	.		15,583	3,031	2,543.94	0.84
Bukoba Urban	230	58	10.81	0.19	518	83	71.84	0.87
Missenyi	10,310	741	1,023.38	1.38	6,536	319	409.46	1.28
Chato	102	10	10.19	0.99	0	.	.	
Total	19,987	1,875	2,697.02	1.44	61,634	6,595	5,967.25	0.90

Cont 5. 31: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short and Long RainySEASON Agricultural Year 2007/08

District	Sweet Potato				Irish potatoes			
	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)
Karagwe	2,327	201	384.50	1.92	2,327	198	461.77	2.33
Bukoba Rural	34,032	3,402	8,394.21	2.47	147	2	11.79	6.59
Muleba	28,349	3,392	6,157.79	1.82	0	.	.	
Biharamulo	5,960	954	2,592.02	2.72	0	.	.	
Ngara	13,523	1,400	2,547.16	1.82	1,932	310	397.18	1.28
Bukoba Urban	633	114	64.19	0.56	0	.	.	
Missenyi	25,407	2,777	6,380.19	2.30	1,289	95	509.34	5.34
Chato	16,612	4,831	14,636.33	3.03	102	21	11.72	0.57
Total	126,844	17,070	41,156.38	2.41	5,797	626	1,391.80	2.22

Cont 5.31: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short and Long RainySEASON Agricultural Year 2007/08

District	Mung Bean				Beans			
	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)
Karagwe	465	41	55.86	1.38	121,494	41,879	42,205.01	1.01
Bukoba Rural	0	.	.		57,015	15,798	9,749.18	0.62
Muleba	0	.	.		73,625	22,131	15,849.78	0.72
Biharamulo	0	.	.		26,743	10,005	5,131.88	0.51
Ngara	386	89	75.34	0.85	86,803	29,980	17,904.05	0.60
Bukoba Urban	0	.	.		2,991	629	311.27	0.50
Missenyi	368	48	99.42	2.05	44,003	11,564	10,413.23	0.90
Chato	408	113	90.71	0.80	27,415	7,629	5,898.68	0.77
Total	1,628	291	321.33	1.10	440,089	139,615	107,463.09	0.77

Cont 5.31: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short and Long RainySEASON Agricultural Year 2007/08

District	Cowpeas				Green gram			
	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)
Karagwe	0	.	.		0	.	.	
Bukoba Rural	147	38	11.05	0.29	0	.	.	
Muleba	204	30	16.32	0.55	204	21	12.24	0.59
Biharamulo	78	38	59.99	1.59	0	.	.	
Ngara	129	26	1.29	0.05	0	.	.	
Bukoba Urban	0	.	.		0	.	.	
Missenyi	736	43	1.10	0.03	0	.	.	
Chato	1,019	134	70.02	0.52	204	43	35.77	0.83
Total	2,314	308	159.77	0.52	408	64	48.01	0.75

Cont 5.31: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short and Long Rainy SEASON Agricultural Year 2007/08

District	Chick peas				Bambaranuts			
	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)
Karagwe	0	.	.		465	30	8.15	0.27
Bukoba Rural	0	.	.		2,210	272	90.46	0.33
Muleba	0	.	.		3,263	288	337.53	1.17
Biharamulo	0	.	.		157	5	7.06	1.48
Ngara	0	.	.		129	6	.39	0.06
Bukoba Urban	0	.	.		115	12	23.52	2.02
Missenyi	0	.	.		6,720	1,082	306.91	0.28
Chato	102	83	35.67	0.43	611	40	47.49	1.20
Total	102	83	35.67	0.43	13,671	1,734	821.51	0.47

Cont 5.31: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short and Long Rainy SEASON Agricultural Year 2007/08

District	Field Peas				Sunflower			
	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)
Karagwe	6,517	973	467.59	0.48	0	.	.	
Bukoba Rural	0	.	.		0	.	.	
Muleba	0	.	.		0	.	.	
Biharamulo	0	.	.		78	16	26.98	1.70
Ngara	4,636	758	199.11	0.26	0	.	.	
Bukoba Urban	0	.	.		0	.	.	
Missenyi	829	145	182.64	1.26	92	0	.55	1.48
Chato	0	.	.		0	.	.	
Total	11,982	1,876	849.33	0.45	170	16	27.53	1.69

Cont 5.31: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short and Long Rainy SEASON Agricultural Year 2007/08

District	Simsim				Groundnut			
	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)
Karagwe	0	.	.		18,154	2,734	1,805.65	0.66
Bukoba Rural	0	.	.		3,241	237	181.36	0.77
Muleba	0	.	.		12,237	2,154	1,607.51	0.75
Biharamulo	0	.	.		6,117	1,947	1,684.02	0.87
Ngara	0	.	.		14,682	3,109	1,889.96	0.61
Bukoba Urban	0	.	.		58	6	3.28	0.56
Missenyi	0	.	.		18,503	2,021	1,695.66	0.84
Chato	204	25	17.84	0.72	9,988	2,720	2,136.36	0.79
Total	204	25	17.84	0.72	82,980	14,927	11,003.80	0.74

Cont. 5.31: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short and Long Rainy SEASON Agricultural Year 2007/08

District	Soya Beans				Okra			
	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)
Karagwe					233	24	12.57	0.53
Bukoba Rural	0	.	.		0	.	.	
Muleba	204	21	10.20	0.49	0	.	.	
Biharamulo	0	.	.		78	16	27.45	1.73
Ngara	258	39	4.89	0.13	0	.	.	
Bukoba Urban					0	.	.	
Missenyi	184	15	3.68	0.25	368	56	64.53	1.15
Chato	0	.	.		102	62	50.96	0.82
Total	646	75	18.77	0.25	781	157	155.51	0.99

Cont . 5.31: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short and Long Rainy SEASON Agricultural Year 2007/08

District	Bitter Aubergine				Onion			
	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)
Karagwe	465	28	105.90	3.75	698	75	210.87	2.80
Bukoba Rural	1,326	74	546.58	7.39	0	.	.	.
Muleba	408	23	132.57	5.73	204	21	65.26	3.16
Biharamulo	78	8	20.39	2.57	0	.	.	.
Ngara	0	.	.	.	129	4	10.30	2.82
Bukoba Urban	288	21	73.33	3.42	0	.	.	.
Missenyi	9,114	506	1,081.19	2.14	829	46	302.86	6.55
Chato	102	10	5.10	0.49	306	26	75.83	2.96
Total	11,781	671	1,965.06	2.93	2,165	171	665.12	3.88

Cont 5.31: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short and Long Rainy SEASON Agricultural Year 2007/08

District	Ginger				Cabbage			
	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)
Karagwe	0	.	.	.	1,629	204	1,553.36	7.60
Bukoba Rural	0	.	.	.	1,326	126	1,141.78	9.03
Muleba	0	.	.	.	0	.	.	.
Biharamulo	0	.	.	.	157	40	638.53	16.09
Ngara	0	.	.	.	902	90	992.31	11.00
Bukoba Urban	0	.	.	.	0	.	.	.
Missenyi	184	8	5.06	0.62	7,917	586	841.20	1.43
Chato	0	.	.	.	408	47	522.93	11.22
Total	184	8	5.06	0.62	12,338	1,094	5,690.11	5.20

Cont 5.31: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short and Long Rainy SEASON Agricultural Year 2007/08

District	Tomatoes				Spinach			
	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)
Karagwe	1,629	181	3,280.57	18.13	0	.	.	.
Bukoba Rural	2,210	223	2,152.00	9.65	0	.	.	.
Muleba	2,651	302	4,419.54	14.62	0	.	.	.
Biharamulo	392	108	2,299.49	21.30	157	60	52.54	0.88
Ngara	1,288	186	1,624.40	8.75	129	1	9.66	9.26
Bukoba Urban	633	104	660.27	6.37	58	12	25.88	2.22
Missenyi	13,624	1,128	2,772.62	2.46	92	4	.00	-
Chato	1,121	155	1,037.30	6.70	0	.	.	.
Total	23,548	2,386	18,246.19	7.65	435	76	88.09	1.16

Cont 5.31: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short and Long Rainy SEASON Agricultural Year 2007/08

District	Carrot				Chillies			
	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)
Karagwe	0	.	.	.	0	.	.	.
Bukoba Rural	0	.	.	.	147	15	29.47	1.98
Muleba	0	.	.	.	0	.	.	.
Biharamulo	0	.	.	.	78	1	27.45	21.61
Ngara	0	.	.	.	0	.	.	.
Bukoba Urban	173	11	16.56	1.48	0	.	.	.
Missenyi	184	10	2.95	0.30	4,143	306	95.37	0.31
Chato	0	.	.	.	102	10	30.57	2.96
Total	357	21	19.51	0.93	4,470	333	182.86	0.55

Cont 5.31: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short and Long Rainy SEASON Agricultural Year 2007/08

District	Amaranths				Pumpkins			
	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)
Karagwe	233	9	20.95	2.22	0	.	.	.
Bukoba Rural	0	.	.	.	0	.	.	.
Muleba	204	21	6.12	0.30	0	.	.	.
Biharamulo	314	33	549.68	16.49	0	.	.	.
Ngara	0	.	.	.	515	34	186.74	5.51
Bukoba Urban	58	9	17.25	1.85	0	.	.	.
Missenyi	8,009	542	247.45	0.46	4,695	266	926.54	3.49
Chato	0	.	.	.	0	.	.	.
Total	8,817	615	841.44	1.37	5,210	300	1,113.28	3.72

Cont. 5.31: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short and Long Rainy SEASON Agricultural Year 2007/08

District	Cucumber				Egg Plant			
	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)
Karagwe	0	.	.	.	233	38	32.58	0.86
Bukoba Rural	0	.	.	.	0	.	.	.
Muleba	408	25	81.58	3.29	0	.	.	.
Biharamulo	0	.	.	.	78	1	19.61	15.44
Ngara	0	.	.	.	0	.	.	.
Bukoba Urban	0	.	.	.	0	.	.	.
Missenyi	1,197	91	27.62	0.30	184	1	12.89	17.29
Chato	102	10	71.34	6.92	0	.	.	.
Total	1,707	126	180.54	1.43	495	40	65.08	1.64

Cont 5.31: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short and Long Rainy SEASON Agricultural Year 2007/08

District	Water Mellon				Cotton				Tobacco			
	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)
Karagwe	0	.	.									
Bukoba Rural	147	15	132.59	8.89	0	.	.		147	15	20.63	1.38
Muleba	0	.	.		0	.	.		204	83	28.55	0.35
Biharamulo	0	.	.		784	556	546.86	0.98	471	238	314.01	1.32
Ngara	0	.	.		0	.	.		0	.	.	
Bukoba Urban	0	.	.									
Missenyi	0	.	.		0	.	.		0	.	.	
Chato	102	10	206.28	20.00	7,542	6,301	5,926.10	0.94	0	.	.	
Total	249	25	338.87	13.43	8,326	6,856	6,472.95	0.94	822	336	363.19	1.08

CROP STORAGE

5.32: Number of households Storing Crops by Season and District

District	SHORT RAINY SEASON					LONG RAINY SEASON					SHORT & LONG SEASON				
	Number of households storing crops	%	Number of households not storing crops	%	Total	Number of households storing crops	%	Number of households not storing crops	%	Total	Number of households storing crops	%	Number of households not storing crops	%	Total
Karagwe	75,177	97	2,095	3	77,272	51,670	93	3,957	7	55,627	126,847	95	6,051	5	132,899
Bukoba Rural	53,332	96	2,357	4	55,689	16,795	79	4,567	21	21,362	70,127	91	6,924	9	77,052
Muleba	71,178	95	3,875	5	75,053	13,664	75	4,487	25	18,151	84,842	91	8,362	9	93,204
Biharamulo	30,272	98	706	2	30,978	8,391	78	2,353	22	10,744	38,663	93	3,059	7	41,722
Ngara	49,970	98	902	2	50,871	42,371	94	2,833	6	45,204	92,341	96	3,735	4	96,076
Bukoba Urban	3,393	97	115	3	3,508	690	75	230	25	920	4,084	92	345	8	4,429
Missenyi	34,889	96	1,473	4	36,362	18,503	81	4,327	19	22,830	53,392	90	5,800	10	59,192
Chato	38,830	96	1,733	4	40,562	14,676	89	1,834	11	16,510	53,506	94	3,567	6	57,073
Total	357,041	96	13,255	4	370,296	166,761	87	24,588	13	191,349	523,803	93	37,843	7	561,645

5.33: Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season - KAGERA

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	112,610	35.1	5,905	1.8	351	0.1	177,774	55.4	1,717	0.5	1,469	0.5	20,325	6.3	895	0.3	321,045	100
Paddy	2,152	21.5	408	4.1	0	0.0	6,645	66.5	0	0.0	102	1.0	690	6.9	0	0.0	9,997	100
Sorghum	4,639	31.8	204	1.4	102	0.7	4,836	33.1	92	0.6	0	0.0	4,735	32.4	0	0.0	14,608	100
Bulrush	306	75.0	0	0.0	0	0.0	102	25.0	0	0.0	0	0.0	0	0.0	0	0.0	408	100
Millet																		
Finger Millet	1,038	21.1	0	0.0	0	0.0	3,615	73.6	0	0.0	0	0.0	258	5.2	0	0.0	4,910	100
Wheat	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	0
Barley	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	102	100.0	0	0.0	102	100
CEREALS	120,745	34.4	6,517	1.9	453	0.1	192,971	55.0	1,809	0.5	1,570	0.4	26,109	7.4	895	0.3	351,069	100
Yam	92	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	92	100
Cassava	1,203	33.5	306	8.5	0	0.0	1,348	37.6	0	0.0	0	0.0	733	20.4	0	0.0	3,590	100
Sweet Potato	22,498	27.8	4,637	5.7	764	0.9	21,610	26.7	0	0.0	1,819	2.2	27,222	33.6	2,367	2.9	80,917	100
Irish potatoes	907	27.5	0	0.0	0	0.0	956	29.0	0	0.0	748	22.7	684	20.8	0	0.0	3,295	100
Yams	4,386	30.9	986	7.0	0	0.0	2,591	18.3	0	0.0	387	2.7	5,832	41.1	0	0.0	14,182	100
Coco Yam	12,150	25.4	2,669	5.6	520	1.1	14,067	29.5	0	0.0	1,654	3.5	14,836	31.1	1,848	3.9	47,745	100
ROOTS & TUBERS	41,237	27.5	8,598	5.7	1,284	0.9	40,572	27.1	0	0.0	4,607	3.1	49,307	32.9	4,216	2.8	149,821	100
Mung Bean	405	24.9	102	6.3	0	0.0	900	55.3	0	0.0	0	0.0	221	13.6	0	0.0	1,628	100
Beans	103,309	32.0	4,143	1.3	0	0.0	198,078	61.3	1,099	0.3	1,628	0.5	14,390	4.5	362	0.1	323,009	100
Cowpeas	525	30.8	0	0.0	0	0.0	996	58.4	92	5.4	0	0.0	92	5.4	0	0.0	1,705	100
Green gram	204	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	204	100
Chick peas	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	0
Bambaranuts	6,394	74.4	0	0.0	0	0.0	1,393	16.2	0	0.0	276	3.2	443	5.2	92	1.1	8,598	100
Field Peas	693	11.7	0	0.0	0	0.0	4,027	68.2	0	0.0	0	0.0	1,189	20.1	0	0.0	5,908	100
PULSES	111,530	32.7	4,245	1.2	0	0.0	205,393	60.2	1,191	0.3	1,905	0.6	16,334	4.8	454	0.1	341,052	100
Sunflower	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	78	100.0	0	0.0	78	100
Simsim	102	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	102	100
Groundnut	21,137	37.4	1,025	1.8	92	0.2	29,837	52.9	454	0.8	368	0.7	3,359	5.9	184	0.3	56,455	100
Soya Beans	129	30.3	0	0.0	0	0.0	296	69.7	0	0.0	0	0.0	0	0.0	0	0.0	425	100
OIL SEEDS & OIL NUTS	21,368	37.4	1,025	1.8	92	0.2	30,133	52.8	454	0.8	368	0.6	3,437	6.0	184	0.3	57,061	100

Cont. 5.33: Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season - KAGERA

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	184	26.7	102	14.8	0	0.0	233	33.8	0	0.0	0	0.0	170	24.7	0	0.0	689	100
Bitteer Aubergine	354	7.5	0	0.0	0	0.0	380	8.0	0	0.0	0	0.0	3,921	82.6	92	1.9	4,748	100
Onion	233	41.0	0	0.0	0	0.0	233	41.0	0	0.0	0	0.0	102	18.0	0	0.0	567	100
Ginger	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	92	100.0	0	0.0	92	100
Cabbage	1,123	17.6	147	2.3	0	0.0	129	2.0	0	0.0	0	0.0	4,697	73.7	276	4.3	6,372	100
Tomatoes	2,913	22.4	0	0.0	0	0.0	147	1.1	0	0.0	0	0.0	9,692	74.6	239	1.8	12,991	100
Spinach	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	186	100.0	0	0.0	186	100
Carrot	207	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	207	100
Chillies	1,013	45.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,207	54.4	0	0.0	2,219	100
Amaranths	1,070	24.4	204	4.6	0	0.0	92	2.1	0	0.0	0	0.0	3,024	68.9	0	0.0	4,390	100
Pumpkins	1,326	40.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,970	59.8	0	0.0	3,295	100
Cucumber	184	16.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	970	84.0	0	0.0	1,154	100
Egg Plant	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	92	100.0	0	0.0	92	100
Water Mellon	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	147	100.0	0	0.0	147	100
FRUITS & VEGETABLES	8,607	23.2	453	1.2	0	0.0	1,214	3.3	0	0.0	0	0.0	26,271	70.7	608	1.6	37,152	100
Cotton	408	4.9	102	1.2	0	0.0	0	0.0	0	0.0	204	2.4	7,613	91.4	0	0.0	8,326	100
Tobacco	0	0.0	0	0.0	0	0.0	78	13.2	0	0.0	0	0.0	518	86.8	0	0.0	596	100
CASH CROPS	408	4.6	102	1.1	0	0.0	78	0.9	0	0.0	204	2.3	8,130	91.1	0	0.0	8,922	100
Total	303,895	32.2	20,939	2.2	1,830	0.2	470,362	49.8	3,454	0.4	8,655	0.9	129,589	13.7	6,356	0.7	945,078	100

5.34: Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season - KAGERA

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	20,451	39.9	659	1.3	0	0.0	23,398	45.6	186	0.4	184	0.4	6,161	12.0	233	0.5	51,273	100
Paddy	1,733	17.4	306	3.1	0	0.0	6,850	68.9	102	1.0	0	0.0	946	9.5	0	0.0	9,937	100
Sorghum	7,965	32.8	0	0.0	0	0.0	9,249	38.1	0	0.0	184	0.8	6,865	28.3	0	0.0	24,263	100
Bulrush	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	0
Millet																		
Finger Millet	567	14.7	0	0.0	0	0.0	2,544	65.9	0	0.0	0	0.0	748	19.4	0	0.0	3,860	100
Wheat	0	0.0	0	0.0	0	0.0	129	100.0	0	0.0	0	0.0	0	0.0	0	0.0	129	100
Barley	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	0
CEREALS	30,716	34.3	965	1.1	0	0.0	42,170	47.1	288	0.3	368	0.4	14,720	16.5	233	0.3	89,461	100
Yam	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	0
Cassava	184	22.6	0	0.0	0	0.0	355	43.5	0	0.0	0	0.0	276	33.9	0	0.0	815	100
Sweet Potato	7,791	17.0	2,660	5.8	461	1.0	9,338	20.3	204	0.4	1,106	2.4	22,110	48.1	2,257	4.9	45,927	100
Irish potatoes	792	31.6	0	0.0	0	0.0	362	14.4	0	0.0	570	22.8	778	31.1	0	0.0	2,502	100
Yams	1,438	24.8	387	6.7	0	0.0	1,160	20.0	0	0.0	460	7.9	2,268	39.1	92	1.6	5,805	100
Coco Yam	1,511	10.9	1,088	7.8	0	0.0	1,528	11.0	129	0.9	221	1.6	9,412	67.8	0	0.0	13,889	100
ROOTS & TUBERS	11,716	17.0	4,134	6.0	461	0.7	12,742	18.5	333	0.5	2,357	3.4	34,844	50.5	2,349	3.4	68,937	100
Mung Bean	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	0
Beans	31,125	26.6	1,265	1.1	258	0.2	74,575	63.7	877	0.7	557	0.5	8,062	6.9	362	0.3	117,080	100
Cowpeas	286	47.0	0	0.0	0	0.0	231	37.9	0	0.0	0	0.0	92	15.1	0	0.0	609	100
Green gram	204	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	204	100
Chick peas	0	0.0	0	0.0	0	0.0	102	100.0	0	0.0	0	0.0	0	0.0	0	0.0	102	100
Bambaranuts	3,382	66.7	0	0.0	0	0.0	1,231	24.3	92	1.8	276	5.4	0	0.0	92	1.8	5,073	100
Field Peas	778	12.8	0	0.0	0	0.0	2,709	44.6	129	2.1	0	0.0	2,457	40.5	0	0.0	6,074	100
PULSES	35,775	27.7	1,265	1.0	258	0.2	78,848	61.1	1,098	0.8	833	0.6	10,611	8.2	454	0.4	129,141	100
Sunflower	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	92	100.0	0	0.0	92	100
Simsim	102	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	102	100
Groundnut	9,484	35.8	233	0.9	0	0.0	11,692	44.1	129	0.5	730	2.8	4,165	15.7	92	0.3	26,524	100
Soya Beans	129	58.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	92	41.7	0	0.0	221	100
OIL SEEDS & OIL NUTS	9,714	36.1	233	0.9	0	0.0	11,692	43.4	129	0.5	730	2.7	4,349	16.1	92	0.3	26,939	100

...Cont. 5.34: Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season - KAGERA

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	92	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	92	100
Bitteer	608	8.6	92	1.3	0	0.0	92	1.3	0	0.0	0	0.0	6,241	88.7	0	0.0	7,033	100
Aubergine																		
Onion	552	34.6	0	0.0	0	0.0	0	0.0	0	0.0	184	11.5	861	53.9	0	0.0	1,598	100
Ginger	92	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	92	100
Cabbage	1,160	19.4	0	0.0	92	1.5	184	3.1	102	1.7	0	0.0	4,428	74.2	0	0.0	5,966	100
Tomatoes	2,273	21.5	0	0.0	0	0.0	184	1.7	0	0.0	0	0.0	8,008	75.9	92	0.9	10,557	100
Spinach	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	249	100.0	0	0.0	249	100
Carrot	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	150	100.0	0	0.0	150	100
Chillies	184	8.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2,067	91.8	0	0.0	2,251	100
Amaranths	460	10.4	0	0.0	0	0.0	170	3.9	0	0.0	0	0.0	3,796	85.8	0	0.0	4,426	100
Pumpkins	276	14.4	0	0.0	0	0.0	258	13.5	0	0.0	0	0.0	1,381	72.1	0	0.0	1,915	100
Cucumber	0	0.0	0	0.0	0	0.0	92	16.7	0	0.0	0	0.0	460	83.3	0	0.0	552	100
Egg Plant	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	403	100.0	0	0.0	403	100
Water Mellon	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	102	100.0	0	0.0	102	100
FRUITS & VEGETABLES	5,697	16.1	92	0.3	92	0.3	980	2.8	102	0.3	184	0.5	28,145	79.5	92	0.3	35,385	100
Cotton	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	0
Tobacco	147	65.3	0	0.0	0	0.0	78	34.7	0	0.0	0	0.0	0	0.0	0	0.0	226	100
CASH CROPS	147	65.3	0	0.0	0	0.0	78	34.7	0	0.0	0	0.0	0	0.0	0	0.0	226	100
Total	93,766	26.8	6,689	1.9	811	0.2	146,511	41.8	1,949	0.6	4,472	1.3	92,670	26.5	3,220	0.9	350,089	100

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

District	Organic Fertilizer Use						% of Planted area using Organic Fertilizer
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area NOT Applied with Organic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Karagwe	931	148	76,341	42,089	77,272	42,238	0.4
Bukoba Rural	5,598	1,273	50,091	23,013	55,689	24,286	5.2
Muleba	5,711	1,853	69,342	38,028	75,053	39,880	4.6
Biharamulo	1,020	983	29,958	32,045	30,978	33,028	3.0
Ngara	3,735	719	47,136	33,720	50,871	34,439	2.1
Bukoba Urban	1,035	241	2,473	992	3,508	1,233	19.6
Missenyi	8,377	3,992	27,985	18,377	36,362	22,368	17.8
Chato	1,834	1,439	38,728	46,415	40,562	47,854	3.0
Total	28,241	10,649	342,055	234,678	370,296	245,327	4.3

5.36: Number of Households and Planted Area by Organic Fertilizer Use and District - LONG RAINY SEASON

District	Organic Fertilizer Use						% of Planted area using Organic Fertilizer
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area NOT Applied with Organic Fertilizer	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Karagwe	1,396	296	54,230	54,230	55,627	26,075	1.1
Bukoba Rural	1,915	405	19,447	19,447	21,362	5,226	7.7
Muleba	612	78	17,539	17,539	18,151	4,113	1.9
Biharamulo	157	11	10,587	10,587	10,744	6,839	0.2
Ngara	1,288	252	43,917	43,917	45,204	20,665	1.2
Bukoba Urban	345	48	575	575	920	265	18.1
Missenyi	4,787	1,257	18,043	18,043	22,830	9,885	12.7
Chato	713	209	15,797	15,797	16,510	10,760	1.9
Total	11,214	2,556	180,136	180,136	191,349	83,828	3.0

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

District	Inorganic Fertilizer Use						% of Planted area using Inorganic Fertilizer
	Number of Households using Inorganic Fertilizer	Planted Area Applied with Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area NOT Applied with Inorganic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Karagwe	77,272	0	0	42,238	77,272	42,238	0.0
Bukoba Rural	55,689	213	0	24,073	55,689	24,286	0.9
Muleba	75,053	62	0	39,818	75,053	39,880	0.2
Biharamulo	30,978	254	0	32,774	30,978	33,028	0.8
Ngara	50,871	227	0	34,213	50,871	34,439	0.7
Bukoba Urban	3,508	23	0	1,210	3,508	1,233	1.9
Missenyi	36,362	339	0	22,029	36,362	22,368	1.5
Chato	40,562	62	0	47,792	40,562	47,854	0.1
Total	370,296	1,180	0	244,147	370,296	245,327	0.5

5.38: Number of Households and Planted Area by Inorganic Fertilizer Use and District - LONG RAINY SEASON

District	Inorganic Fertilizer Fertilizer Use						% of Planted area using Inorganic Fertilizer
	Number of Households using Inorganic Fertilizer	Planted Area Applied with Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area NOT Applied with Inorganic Fertilizer	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Karagwe	55,627	0	0	26,075	55,627	26,075	0.0
Bukoba Rural	21,362	30	0	5,196	21,362	5,226	0.6
Muleba	18,151	31	0	4,081	18,151	4,113	0.8
Biharamulo	10,744	13	0	6,826	10,744	6,839	0.2
Ngara	45,204	0	0	20,665	45,204	20,665	0.0
Bukoba Urban	920	12	0	254	920	265	4.4
Missenyi	22,830	60	0	9,825	22,830	9,885	0.6
Chato	16,510	93	0	10,667	16,510	10,760	0.9
Total	191,349	238	0	83,590	191,349	83,828	0.3

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

District	Fungicide Use						% of Planted area using Fungicide
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Number of Households NOT using Fungicide	Planted Area NOT Applied with Fungicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Karagwe	465	24	76,807	42,238	77,272	42,238	0.1
Bukoba Rural	1,179	110	54,511	24,073	55,689	24,286	0.5
Muleba	612	99	74,441	39,818	75,053	39,880	0.2
Biharamulo	157	40	30,821	32,774	30,978	33,028	0.1
Ngara	515	50	50,356	34,213	50,871	34,439	0.1
Bukoba Urban	173	27	3,336	1,210	3,508	1,233	2.2
Missenyi	1,749	567	34,613	22,029	36,362	22,368	2.5
Chato	306	36	40,257	47,792	40,562	47,854	0.1
Total	5,155	953	365,141	244,147	370,296	245,327	0.4

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

District	Fungicide Use						% of Planted area using Fungicide
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Number of Households NOT using Fungicide	Planted Area NOT Applied with Fungicide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Karagwe	698	129	54,928	25,946	55,627	26,075	0.5
Bukoba Rural	295	11	21,068	5,215	21,362	5,226	0.2
Muleba	408	21	17,743	4,092	18,151	4,113	0.5
Biharamulo	78	5	10,666	6,834	10,744	6,839	0.1
Ngara	515	110	44,689	20,555	45,204	20,665	0.5
Bukoba Urban	173	12	748	253	920	265	4.7
Missenyi	1,565	359	21,265	9,526	22,830	9,885	3.6
Chato	510	88	16,001	10,672	16,510	10,760	0.8
Total	4,241	735	187,108	83,094	191,349	83,828	0.9

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

District	Herbicide Use						% of Planted area using Herbicide
	Number of Households using Herbicide	Planted Area Applied with Herbicide	Number of Households NOT using Herbicides	Planted Area NOT Applied with Herbicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Karagwe	0	.	77,272	42,238	77,272	42,238	.
Bukoba Rural	295	39	55,395	24,073	55,689	24,286	0.2
Muleba	204	21	74,849	39,818	75,053	39,880	0.1
Biharamulo	0	.	30,978	32,774	30,978	33,028	.
Ngara	0	.	50,871	34,213	50,871	34,439	.
Bukoba Urban	0	.	3,508	1,210	3,508	1,233	.
Missenyi	0	.	36,362	22,029	36,362	22,368	.
Chato	102	10	40,461	47,792	40,562	47,854	0.0
Total	601	70	369,695	244,147	370,296	245,327	0.0

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

District	Herbicide Use						% of Planted area using Herbicide
	Number of Households using Herbicide	Planted Area Applied with Herbicide	Number of Households NOT using Herbicides	Planted Area NOT Applied with Herbicide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Karagwe	465	50	55,161	26,075	55,627	26,075	0.2
Bukoba Rural	0	.	21,362	5,196	21,362	5,226	.
Muleba	204	41	17,947	4,081	18,151	4,113	1.0
Biharamulo	0	.	10,744	6,826	10,744	6,839	.
Ngara	0	.	45,204	20,665	45,204	20,665	.
Bukoba Urban	58	1	863	254	920	265	0.5
Missenyi	92	5	22,738	9,825	22,830	9,885	0.0
Chato	102	10	16,408	10,667	16,510	10,760	0.1
Total	921	108	190,428	83,590	191,349	83,828	0.1

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

District	Improved Seed						% of area planted using improved seed
	Number of Households using Improved Seed	Planted Area Improved Seed Used	Number of Households NOT using Improved Seeds	Planted Area Improved Seed not Used	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Karagwe	3,258	1,397	74,014	40,840	77,272	42,238	3.3
Bukoba Rural	5,304	717	50,386	23,569	55,689	24,286	3.0
Muleba	2,447	435	72,605	39,446	75,053	39,880	1.1
Biharamulo	2,196	1,603	28,782	31,425	30,978	33,028	4.9
Ngara	1,803	845	49,068	33,594	50,871	34,439	2.5
Bukoba Urban	1,150	190	2,358	1,043	3,508	1,233	15.4
Missenyi	4,511	1,269	31,851	21,100	36,362	22,368	5.7
Chato	8,765	7,134	31,798	40,720	40,562	47,854	14.9
Total	29,434	13,589	340,862	231,738	370,296	245,327	5.5

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

District	Improved Seed						% of area planted using improved seed
	Number of Households using Improved Seed	Planted Area Improved Seed Used	Number of Households NOT using Improved Seeds	Planted Area Improved Seed not Used	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Karagwe	1,862	776	53,765	25,300	55,627	26,075	3.0
Bukoba Rural	3,389	263	17,974	4,963	21,362	5,226	5.0
Muleba	2,039	358	16,112	3,755	18,151	4,113	8.7
Biharamulo	314	53	10,430	6,786	10,744	6,839	0.8
Ngara	773	206	44,432	20,459	45,204	20,665	1.0
Bukoba Urban	345	64	575	201	920	265	24.1
Missenyi	3,222	487	19,608	9,398	22,830	9,885	4.9
Chato	1,325	240	15,185	10,520	16,510	10,760	2.2
Total	13,268	2,446	178,081	81,382	191,349	83,828	2.9

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

District	Using Local seed		Not using Local seed		TOTAL		% of Planted Area Using Local seeds
	Number of Households	Planted Area (ha)	Number of Households	Planted Area (ha)	Number of Households	Planted Area (ha)	
Karagwe	76,108	40,588	1,164	1,649	77,272	42,238	96.1
Bukoba Rural	54,805	23,014	884	1,273	55,689	24,286	94.8
Muleba	74,849	38,343	204	1,537	75,053	39,880	96.1
Biharamulo	30,429	31,353	549	1,674	30,978	33,028	94.9
Ngara	50,098	33,363	773	1,077	50,871	34,439	96.9
Bukoba Urban	2,933	851	575	382	3,508	1,233	69.0
Missenyi	36,086	19,427	276	2,941	36,362	22,368	86.9
Chato	38,524	40,104	2,038	7,750	40,562	47,854	83.8
Total	363,833	227,043	6,463	18,284	370,296	245,327	92.5

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

District	Using Local seed		Not using Local seed		TOTAL		% of Planted Area Using Local seeds
	Number of Households	Planted Area (ha)	Number of Households	Planted Area (ha)	Number of Households	Planted Area (ha)	
Karagwe	54,696	25,155	931	920	55,627	26,075	96.5
Bukoba Rural	19,447	4,943	1,915	283	21,362	5,226	94.6
Muleba	17,336	3,693	816	420	18,151	4,113	89.8
Biharamulo	10,509	6,777	235	62	10,744	6,839	99.1
Ngara	44,947	20,276	258	389	45,204	20,665	98.1
Bukoba Urban	748	179	173	87	920	265	67.3
Missenyi	22,370	8,673	460	1,212	22,830	9,885	87.7
Chato	16,001	10,433	510	328	16,510	10,760	97.0
Total	186,052	80,129	5,297	3,699	191,349	83,828	95.6

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

District	Insecticide Use						% of Planted area using Insecticides
	Number of Households using Insecticides	Planted Area Applied with Insecticides	Number of Households NOT using Insecticides	Planted Area Without Insecticides	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Karagwe	1,629	260	75,643	41,977	77,272	42,238	0.6
Bukoba Rural	2,357	716	53,332	23,570	55,689	24,286	2.9
Muleba	4,079	1,454	70,974	38,426	75,053	39,880	3.6
Biharamulo	1,020	797	29,958	32,231	30,978	33,028	2.4
Ngara	3,091	1,101	47,780	33,338	50,871	34,439	3.2
Bukoba Urban	345	113	3,163	1,120	3,508	1,233	9.2
Missenyi	92	0	36,270	22,368	36,362	22,368	0.0
Chato	4,586	3,916	35,976	43,938	40,562	47,854	8.2
Total	17,199	8,358	353,097	236,969	370,296	245,327	3.4

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

District	Insecticide Use						% of Planted area using Insecticides
	Number of Households using Insecticides	Planted Area Applied with Insecticides	Number of Households NOT using Insecticides	Planted Area Without Insecticides	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Karagwe	931	201	54,696	25,875	55,627	26,075	0.8
Bukoba Rural	1,179	270	20,184	4,956	21,362	5,226	5.2
Muleba	1,020	108	17,132	4,005	18,151	4,113	2.6
Biharamulo	78	5	10,666	6,834	10,744	6,839	0.1
Ngara	2,061	550	43,144	20,115	45,204	20,665	2.7
Bukoba Urban	173	17	748	248	920	265	6.6
Missenyi	92	0	22,738	9,885	22,830	9,885	0.0
Chato	611	129	15,899	10,631	16,510	10,760	1.2
Total	6,144	1,280	185,205	82,548	191,349	83,828	1.5

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

District	Irrigation use						% of area planted under irrigation in Short rainy season
	Number of Households using Irrigation	Planted Area with Irrigation	Number of Households NOT using Irrigation	Planted Area with no Irrigation	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Karagwe	465	24	76,807	42,213	77,272	42,238	0.1
Bukoba Rural	1,768	276	53,921	24,010	55,689	24,286	1.1
Muleba	1,224	88	73,829	39,793	75,053	39,880	0.2
Biharamulo	235	56	30,743	32,972	30,978	33,028	0.2
Ngara	1,030	364	49,841	34,075	50,871	34,439	1.1
Bukoba Urban	345	76	3,163	1,157	3,508	1,233	6.2
Missenyi	1,381	171	34,981	22,198	36,362	22,368	0.8
Chato	1,325	786	39,238	47,068	40,562	47,854	1.6
Total	7,773	1,842	362,522	243,485	370,296	245,327	0.8

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

District	Irrigation use						% of area planted under irrigation in long rainy season
	Number of Households using Irrigation	Planted Area with Irrigation	Number of Households NOT using Irrigation	Planted Area with no Irrigation	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Karagwe	698	177	54,928	25,898	55,627	26,075	0.7
Bukoba Rural	589	81	20,773	5,146	21,362	5,226	1.5
Muleba	612	69	17,539	4,044	18,151	4,113	1.7
Biharamulo	314	32	10,430	6,807	10,744	6,839	0.5
Ngara	515	60	44,689	20,605	45,204	20,665	0.3
Bukoba Urban	230	20	690	245	920	265	7.7
Missenyi	1,473	218	21,357	9,667	22,830	9,885	2.2
Chato	1,121	341	15,389	10,419	16,510	10,760	3.2
Total	5,552	998	185,797	82,830	191,349	83,828	1.2

MARKETING

5.51: Number of Crop Producing households reporting Selling agricultural produce during 2007/08 by region and Season

SHORT RAINY SEASON							LONG RAINY SEASON				
District	Number of households that sold	%	Number of households that did not sold	%	Total number of households		Number of households that sold	%	Number of households that did not sold	%	Total number of households
Karagwe	66,798	86	10,474	14	77,272		49,342	89	6,284	11	55,627
Bukoba	28,729	52	26,961	48	55,689		12,817	60	8,545	40	21,362
Rural											
Muleba	48,336	64	26,717	36	75,053		13,053	72	5,099	28	18,151
Biharamulo	24,076	78	6,901	22	30,978		8,391	78	2,353	22	10,744
Ngara	35,159	69	15,712	31	50,871		28,720	64	16,485	36	45,204
Bukoba	518	15	2,991	85	3,508		518	56	403	44	920
Urban											
Missenyi	30,747	85	5,615	15	36,362		19,976	88	2,854	13	22,830
Chato	32,002	79	8,561	21	40,562		14,268	86	2,242	14	16,510
Total	266,364	72	103,932	28	370,296		147,085	77	44,264	23	191,349

5.52: Planted Area & Number of Households by Insecticide Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - KAGERA REGION

Crop	Insecticide							% of area planted Insecticide
	Number of Households using Insecticide	Planted Area Insecticide Used	Cost of Insecticide	Number of Households NOT using Insecticide	Planted Area Insecticide not Used	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	1,559	339	2,966,635	49,714	11,386	51,273	11,725	2.9
Paddy	0	.	815,326	9,937	6,088	9,937	6,088	-
Sorghum	0	.	0	24,263	9,171	24,263	9,171	-
Bulrush Millet	0	.	.	0	.	0	-	-
Finger Millet	0	.	.	3,860	584	3,860	584	-
Wheat	0	.	.	129	13	129	13	-
Barley	0	.	.	0	.	0	-	-
CEREALS		339	3,781,961		27,242	89,461	27,581	1.2
Yam	0	.	.	0	.	0	-	-
Cassava	0	.	.	815	114	815	114	-
Sweet Potato	0	.	.	45,927	6,564	45,927	6,564	-
Irish potatoes	0	.	.	2,502	224	2,502	224	-
Yams	0	.	.	5,805	574	5,805	574	-
Coco Yam	147	15	294,653	13,741	1,182	13,889	1,197	1.2
ROOTS & TUBERS		15	294,653		8,658	68,937	8,673	0.2
Mung Bean	0	.	.	0	.	0	-	-
Beans	1,190	368	1,819,522	115,890	37,843	117,080	38,211	1.0
Cowpeas	0	.	.	609	98	609	98	-
Green gram	0	.	.	204	43	204	43	-
Chick peas	0	.	.	102	83	102	83	-
Bambaranuts	0	.	.	5,073	672	5,073	672	-
Field Peas	0	.	.	6,074	1,017	6,074	1,017	-
PULSES		368	1,819,522		39,756	129,141	40,124	0.9
Sunflower	0	.	.	92	0	92	0	-
Simsim	0	.	.	102	21	102	21	-
Groundnut	0	.	.	26,524	4,651	26,524	4,651	-
Soya Beans	0	.	.	221	22	221	22	-
OIL SEEDS & OIL NUTS		.	.		4,694	26,939	4,694	-
Okra	0	.	.	92	4	92	4	-
Bitteer Aubergine	527	39	28,380,726	6,505	370	7,033	409	9.4
Onion	335	21	2,371,558	1,365	83	1,700	105	20.5
Ginger	0	.	.	92	1	92	1	-
Cabbage	1,350	130	13,529,124	4,744	345	6,094	475	27.4
Tomatoes	2,594	306	25,698,614	8,064	800	10,659	1,106	27.7
Spinach	0	.	.	249	63	249	63	-
Carrot	0	.	.	150	6	150	6	-
Chillies	147	15	3,535,833	2,104	130	2,251	145	10.3
Amaranths	233	9	465,495	4,194	206	4,426	215	4.4
Pumpkins	0	.	.	1,915	95	1,915	95	-
Cucumber	0	.	.	552	37	552	37	-
Egg Plant	233	38	930,990	170	2	403	39	95.8
Water Mellon	0	.	.	102	10	102	10	-
FRUITS & VEGETABLES		558	74,912,339		2,152	35,718	2,710	20.6
Cotton	0	.	.	0	.	0	-	-
Tobacco	0	.	.	226	47	226	47	-
CASH CROPS		.	.		47	226	47	-
Total		1,280	80,808,475		82,548	350,421	83,828	1.5

5.53: Planted Area & Number of Households by Fungicide Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - KAGERA REGION

Crop	Fungicide							% of area planted Fungicide
	Number of Households using Fungicide	Planted Area Fungicide Used	Cost of Fungicide	Number of Households NOT using Fungicide	Planted Area Fungicide not Used	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	921	236	5,155,112	50,352	11,489	50,588	11,725	2.0
Paddy	0	.	.	9,937	6,088	9,937	6,088	-
Sorghum	0	.	.	24,263	9,171	24,263	9,171	-
Bulrush Millet	0	.	.	0	.	0	0	-
Finger Millet	0	.	.	3,860	584	3,860	584	-
Wheat	0	.	.	129	13	129	13	-
Barley	0	.	.	0	.	0	0	-
CEREALS		236	5,155,112		27,345	88,776	27,581	0.9
Yam	0	.	.	0	.	0	0	-
Cassava	0	.	.	815	114	815	114	-
Sweet Potato	92	1	.	45,927	6,563	45,928	6,564	0.0
Irish potatoes	0	.	.	2,502	224	2,502	224	-
Yams	0	.	.	5,805	574	5,805	574	-
Coco Yam	147	1	.	13,889	1,196	13,889	1,197	0.1
ROOTS & TUBERS		2	.		8,671	68,939	8,673	0.0
Mung Bean	0	.	.	0	.	0	0	-
Beans	129	7	.	117,080	38,205	117,086	38,211	0.0
Cowpeas	0	.	.	609	98	609	98	-
Green gram	0	.	.	204	43	204	43	-
Chick peas	0	.	.	102	83	102	83	-
Bambaranuts	0	.	.	5,073	672	5,073	672	-
Field Peas	0	.	.	6,074	1,017	6,074	1,017	-
PULSES		7	.		40,118	129,147	40,124	0.0
Sunflower	0	.	.	92	0	92	0	-
Simsim	0	.	.	102	21	102	21	-
Groundnut	0	.	.	26,524	4,651	26,524	4,651	-
Soya Beans	0	.	.	221	22	221	22	-
OIL SEEDS & OIL NUTS		.	.		4,694	26,939	4,694	-
Okra	0	.	.	92	4	92	4	-
Bitteer								
Aubergine	1,245	59	6,875,516	5,972	349	6,031	409	14.5
Onion	335	21	1,556,942	1,365	83	1,386	105	20.5
Ginger	0	.	.	92	1	92	1	-
Cabbage	102	21	713,411	5,864	454	5,884	475	4.3
Tomatoes	2,953	351	71,163,883	7,856	755	8,207	1,106	31.8
Spinach	0	.	.	249	63	249	63	-
Carrot	0	.	.	150	6	150	6	-
Chillies	0	.	.	2,251	145	2,251	145	-
Amaranths	0	.	.	4,426	215	4,426	215	-
Pumpkins	0	.	.	1,915	95	1,915	95	-
Cucumber	0	.	.	552	37	552	37	-
Egg Plant	233	38	523,682	170	2	208	39	95.8
Water Mellon	0	.	.	102	10	102	10	-
FRUITS & VEGETABLES		490	80,833,433		2,220	31,546	2,710	18.1
Cotton	0	.	.	0	.	0	0	-
Tobacco	0	.	.	226	47	226	47	-
CASH CROPS		.	.		47	226	47	-
Total		735	85,988,545		83,094	345,573	83,828	0.9

5.54: Planted Area & Number of Households by Improved Seeds Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - KAGERA REGION

Crop	Improved Seed							% of area planted using improved seed
	Number of Households using Improved Seed	Planted Area Improved Seed Used	Cost of Improved Seeds	Number of Households NOT using Improved Seeds	Planted Area Improved Seed not Used	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	4,472	779	34,687,068	47,119	10,946	51,592	11,725	6.64
Paddy	0	.	.	9,937	6,088	9,937	6,088	-
Sorghum	102	10	254,789	24,161	9,161	24,263	9,171	0.11
Bulrush Millet	0	.	.	0	.	-	-	-
Finger Millet	0	.	.	3,860	584	3,860	584	-
Wheat	0	.	.	129	13	129	13	-
Barley	0	.	.	0	.	-	-	-
CEREALS		789	34,941,857		26,791		27,581	2.86
Yam	0	.	.	0	.	-	-	-
Cassava	0	.	.	815	114	815	114	-
Sweet Potato	3,122	194	47,699,346	43,376	6,370	46,497	6,564	2.96
Irish potatoes	92	5	184,111	2,410	219	2,502	224	2.17
Yams	92	1	5,799,501	5,805	573	5,897	574	0.20
Coco Yam	0	.	.	13,889	1,197	13,889	1,197	-
ROOTS & TUBERS		200	53,682,958		8,472		8,673	2.31
Mung Bean	0	.	.	0	.	-	-	-
Beans	3,981	804	50,940,814	113,099	37,407	117,080	38,211	2.10
Cowpeas	0	.	.	609	98	609	98	-
Green gram	0	.	.	204	43	204	43	-
Chick peas	0	.	.	102	83	102	83	-
Bambaranuts	184	6	3,682,223	4,889	667	5,073	672	0.83
Field Peas	0	.	.	6,074	1,017	6,074	1,017	-
PULSES		810	54,623,037		39,315		40,124	2.02
Sunflower	0	.	.	92	0	92	0	-
Simsim	0	.	.	102	21	102	21	-
Groundnut	276	19	6,121,696	26,248	4,632	26,524	4,651	0.40
Soya Beans	0	.	.	221	22	221	22	-
OIL SEEDS & OIL NUTS		19	6,121,696		4,675		4,694	0.40
Okra	0	.	.	92	4	92	4	-
Bitteer Aubergine	437	28	218,347	6,800	381	7,237	409	6.88
Onion	861	54	7,348,295	838	51	1,700	105	51.47
Ginger	0	.	.	92	1	92	1	-
Cabbage	1,591	184	6,151,210	4,614	290	6,205	475	38.87
Tomatoes	3,357	295	15,329,831	7,986	811	11,343	1,106	26.69
Spinach	78	4	39,212	170	59	249	63	6.51
Carrot	150	6	178,328	92	0	242	6	94.74
Chillies	226	16	481,192	2,025	129	2,251	145	11.18
Amaranths	249	2	60,182	4,270	214	4,518	215	0.76
Pumpkins	0	.	.	1,915	95	1,915	95	-
Cucumber	0	.	.	552	37	552	37	-
Egg Plant	311	39	155,586	92	0	403	39	99.05
Water Mellon	0	.	.	102	10	102	10	-
FRUITS & VEGETABLES		628	29,962,182		2,082		2,710	23.19
Cotton	0	.	.	0	.	-	-	-
Tobacco	0	.	.	226	47	226	47	-
CASH CROPS					47		47	-
Total		2,446	179,331,730		81,382		83,828	2.92

5.55: Planted Area & Number of Households by Local Seeds Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - KAGERA REGION

Crop	Local Seed							% of area planted using Local seed
	Number of Households using Local Seed	Planted Area Local Seed Used	Cost of Local Seeds	Number of Households NOT using Local Seeds	Planted Area Local Seed not Used	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	46,858	10,855	165,488,648	5,658	896	51,592	11,725	92.6
Paddy	9,937	6,088	128,112,925	0	.	9,937	6,088	100.0
Sorghum	24,161	9,120	103,439,039	500	52	24,263	9,171	99.4
Bulrush Millet	0	.	.	0	.	0	0	-
Finger Millet	3,860	584	13,631,537	0	.	3,860	584	100.0
Wheat	129	13	1,287,876	0	.	129	13	100.0
Barley	0	.	.	0	.	0	0	-
CEREALS		26,659	411,960,024		948	89,780	27,581	96.7
Yam	0	.	.	0	.	0	0	-
Cassava	815	114	3,670,241	0	.	815	114	100.0
Sweet Potato	42,805	6,253	470,959,587	4,791	311	46,497	6,564	95.3
Irish potatoes	2,410	218	13,518,538	184	5	2,502	224	97.7
Yams	5,713	525	39,299,263	886	49	5,897	574	91.4
Coco Yam	13,889	1,148	65,343,255	1,807	49	13,889	1,197	95.9
ROOTS & TUBERS		8,258	592,790,883		414	69,600	8,673	95.2
Mung Bean	0	.	.	0	.	0	0	-
Beans	113,099	37,210	1,398,152,128	5,706	1,001	117,080	38,211	97.4
Cowpeas	609	94	2,254,771	92	4	609	98	96.2
Green gram	204	43	611,495	0	.	204	43	100.0
Chick peas	102	83	815,326	0	.	102	83	100.0
Bambaranuts	4,889	667	31,011,208	184	6	5,073	672	99.2
Field Peas	6,074	973	75,748,491	619	44	6,074	1,017	95.7
PULSES		39,070	1,508,593,419		1,054	129,141	40,124	97.4
Sunflower	92	0	18,411	92	0	92	0	12.5
Simsim	102	21	244,598	0	.	102	21	100.0
Groundnut	26,248	4,563	338,061,733	865	88	26,524	4,651	98.1
Soya Beans	221	22	616,502	0	.	221	22	100.0
OIL SEEDS & OIL NUTS		4,606	338,941,244		88	26,939	4,694	98.1
Okra	92	4	9,206	0	.	92	4	100.0
Bitteer Aubergine	6,596	315	22,864,653	1,633	93	7,237	409	77.2
Onion	736	41	1,468,286	953	63	1,700	105	39.6
Ginger	92	1	331,400	0	.	92	1	100.0
Cabbage	4,375	268	18,745,824	1,683	207	6,205	475	56.4
Tomatoes	7,200	619	25,024,195	5,828	487	11,343	1,106	55.9
Spinach	170	59	24,891	78	4	249	63	93.5
Carrot	0	.	.	150	6	242	6	-
Chillies	2,025	38	2,067,568	1,975	107	2,251	145	25.9
Amaranths	4,178	94	3,093,063	3,011	121	4,518	215	43.7
Pumpkins	1,915	37	517,767	1,326	58	1,915	95	38.8
Cucumber	552	5	561,539	552	33	552	37	12.5
Egg Plant	92	0	55,233	311	39	403	39	0.9
Water Mellon	102	8	713,411	102	3	102	10	75.0
FRUITS & VEGETABLES		1,488	75,477,035		1,222	36,901	2,710	54.9
Cotton	0	.	.	0	.	0	0	-
Tobacco	226	47	1,000,476	0	.	226	47	100.0
CASH CROPS		47	1,000,476		.	226	47	100.0
Total		80,129	2,928,763,081		3,726	352,586	83,828	95.6

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

Crop	Organic Fertilizer							% of area planted Organic Fertilizer
	Number of Households using Organic Fertilizer	Planted Area Organic Fertilizer Used	Cost of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Organic Fertilizer not Used	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	2,597	614	32,183,302	48,768	11,111	51,273	51,887	1.18
Paddy	0	.	.	9,937	6,088	9,937	9,937	-
Sorghum	553	117	5,134,789	24,059	9,055	24,263	24,380	0.48
Bulrush Millet	0	.	.	0	.	0	0	-
Finger Millet	0	.	.	3,860	584	3,860	3,860	-
Wheat	0	.	.	129	13	129	129	-
Barley	0	.	.	0	.	0	0	-
CEREALS		731	37,318,092		26,850	89,461	90,191	0.81
Yam	0	.	.	0	.	0	0	-
Cassava	0	.	.	815	114	815	815	-
Sweet Potato	1,649	220	56,381,163	44,462	6,345	45,927	46,146	0.48
Irish potatoes	129	26	1,803,026	2,373	197	2,502	2,528	1.03
Yams	423	63	35,726,551	5,566	512	5,805	5,868	1.07
Coco Yam	239	6	801,052	13,741	1,191	13,889	13,894	0.04
ROOTS & TUBERS		314	94,711,792		8,359	68,937	69,251	0.45
Mung Bean	0	.	.	0	.	0	0	-
Beans	1,467	204	35,454,545	116,391	38,007	117,080	117,284	0.17
Cowpeas	0	.	.	609	98	609	609	-
Green gram	0	.	.	204	43	204	204	-
Chick peas	0	.	.	102	83	102	102	-
Bambaranuts	0	.	.	5,073	672	5,073	5,073	-
Field Peas	0	.	.	6,074	1,017	6,074	6,074	-
PULSES		204	35,454,545		39,920	129,141	129,345	0.16
Sunflower	0	.	.	92	0	92	92	-
Simsim	0	.	.	102	21	102	102	-
Groundnut	92	4	2,540,734	26,432	4,646	26,524	26,529	0.02
Soya Beans	0	.	.	221	22	221	221	-
OIL SEEDS & OIL NUTS		4	2,540,734		4,690	26,939	26,943	0.02
Okra	0	.	.	92	4	92	92	-
Bitteer Aubergine	3,456	187	11,962,451	3,577	221	7,033	7,220	2.59
Onion	556	37	3,170,227	1,042	67	1,598	1,635	2.28
Ginger	0	.	.	92	1	92	92	-
Cabbage	3,845	272	45,927,315	2,379	203	5,966	6,237	4.35
Tomatoes	6,426	714	60,733,391	4,698	392	10,557	11,271	6.33
Spinach	78	4	62,740	170	59	249	253	1.63
Carrot	150	6	86,288	0	.	150	156	3.98
Chillies	226	16	2,997,504	2,025	129	2,251	2,267	0.71
Amaranths	574	18	509,127	3,853	198	4,426	4,444	0.40
Pumpkins	0	.	.	1,915	95	1,915	1,915	-
Cucumber	0	.	.	552	37	552	552	-
Egg Plant	311	39	291,566	92	0	403	442	8.81
Water Mellon	102	10	1,528,737	0	.	102	112	9.19
FRUITS & VEGETABLES		1,303	127,269,346		1,407	35,385	36,689	3.55
Cotton	0	.	.	0	.	0	0	-
Tobacco	0	.	.	226	47	226	226	-
CASH CROPS		.	.		47	226	226	-
Total		2,556	297,294,509		81,272	350,089	352,645	0.72

5.57: Planted Area & Number of Households by Inorganic Fertilizer Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - KAGERA REGION

Crop	Inorganic Fertilizer							% of area planted Inorganic Fertilizer
	Number of Households using Inorganic Fertilizer	Planted Area Inorganic Fertilizer Used	Cost of Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area Inorganic Fertilizer not Used	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	695	155	6,150,070	50,578	11,570	51,273	51,887	0.30
Paddy	0	.	.	9,937	6,088	9,937	9,937	-
Sorghum	0	.	.	24,263	9,171	24,263	24,380	-
Bulrush Millet	0	.	.	0	.	0	0	-
Finger Millet	0	.	.	3,860	584	3,860	3,860	-
Wheat	0	.	.	129	13	129	129	-
Barley	0	.	.	0	.	0	0	-
CEREALS		155	6,150,070		27,426	89,461	90,191	0.17
Yam	0	.	.	0	.	0	0	-
Cassava	0	.	.	815	114	815	815	-
Sweet Potato	92	4	0	45,835	6,560	45,927	46,146	0.01
Irish potatoes	0	.	.	2,502	224	2,502	2,528	-
Yams	0	.	.	5,805	574	5,805	5,868	-
Coco Yam	0	.	.	13,889	1,197	13,889	13,894	-
ROOTS & TUBERS		4	0		8,668	68,937	69,251	0.01
Mung Bean	0	.	.	0	.	0	0	-
Beans	0	.	.	117,080	38,211	117,080	117,284	-
Cowpeas	0	.	.	609	98	609	609	-
Green gram	0	.	.	204	43	204	204	-
Chick peas	0	.	.	102	83	102	102	-
Bambaranuts	0	.	.	5,073	672	5,073	5,073	-
Field Peas	0	.	.	6,074	1,017	6,074	6,074	-
PULSES					40,124	129,141	129,345	
Sunflower	0	.	.	92	0	92	92	-
Simsim	0	.	.	102	21	102	102	-
Groundnut	0	.	.	26,524	4,651	26,524	26,529	-
Soya Beans	0	.	.	221	22	221	221	-
OIL SEEDS & OIL NUTS					4,694	26,939	26,943	
Okra	0	.	.	92	4	92	92	-
Bitteer Aubergine	276	9	1,381,754	6,849	400	7,033	7,220	0.12
Onion	0	.	.	1,598	105	1,598	1,635	-
Ginger	0	.	.	92	1	92	92	-
Cabbage	180	18	567,693	5,785	456	5,966	6,237	0.29
Tomatoes	534	52	16,940,969	10,115	1,054	10,557	11,271	0.46
Spinach	0	.	.	249	63	249	253	-
Carrot	0	.	.	150	6	150	156	-
Chillies	0	.	.	2,251	145	2,251	2,267	-
Amaranth	0	.	.	4,426	215	4,426	4,444	-
Pumpkins	0	.	.	1,915	95	1,915	1,915	-
Cucumber	0	.	.	552	37	552	552	-
Egg Plant	0	.	.	403	39	403	442	-
Water Mellon	0	.	.	102	10	102	112	-
FRUITS & VEGETABLES		79	18,890,417		2,631	35,385	36,689	0.22
Cotton	0	.	.	0	.	0	0	-
Tobacco	0	.	.	226	47	226	226	-
CASH CROPS					47	226	226	
Total		238	25,040,487		83,590	350,089	352,645	0.07

5.58: Planted Area & Number of Households by Herbicide Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - KAGERA REGION

Crop	Herbicide							% of area planted Herbicide
	Number of Households using Herbicide	Planted Area Herbicide Used	Cost of Herbicide	Number of Households NOT using Herbicide	Planted Area Herbicide not Used	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	0	.	.	51,273	11,725	51,273	51,887	-
Paddy	0	.	.	9,937	6,088	9,937	9,937	-
Sorghum	0	.	.	24,263	9,171	24,263	24,380	-
Bulrush Millet	0	.	.	0	.	0	0	-
Finger Millet	0	.	.	3,860	584	3,860	3,860	-
Wheat	0	.	.	129	13	129	129	-
Barley	0	.	.	0	.	0	0	-
CEREALS		.	.		27,581	89,461	90,191	-
Yam	0	.	.	0	.	0	0	-
Cassava	0	.	.	815	114	815	815	-
Sweet Potato	0	.	.	45,927	6,564	45,927	46,146	-
Irish potatoes	0	.	.	2,502	224	2,502	2,528	-
Yams	0	.	.	5,805	574	5,805	5,868	-
Coco Yam	0	.	.	13,889	1,197	13,889	13,894	-
ROOTS & TUBERS		.	.		8,673	68,937	69,251	-
Mung Bean	0	.	.	0	.	0	0	-
Beans	0	.	.	117,080	38,211	117,080	117,284	-
Cowpeas	0	.	.	609	98	609	609	-
Green gram	0	.	.	204	43	204	204	-
Chick peas	0	.	.	102	83	102	102	-
Bambaranuts	0	.	.	5,073	672	5,073	5,073	-
Field Peas	0	.	.	6,074	1,017	6,074	6,074	-
PULSES		.	.		40,124	129,141	129,345	-
Sunflower	0	.	.	92	0	92	92	-
Simsim	0	.	.	102	21	102	102	-
Groundnut	0	.	.	26,524	4,651	26,524	26,529	-
Soya Beans	0	.	.	221	22	221	221	-
OIL SEEDS & OIL NUTS		.	.		4,694	26,939	26,943	-
Okra	0	.	.	92	4	92	92	-
Bitteer Aubergine	0	.	.	7,033	409	7,033	7,220	-
Onion	0	.	.	1,598	105	1,598	1,635	-
Ginger	0	.	.	92	1	92	92	-
Cabbage	233	1	186,198	5,733	474	5,966	6,237	0.0
Tomatoes	921	107	12,810,707	9,694	999	10,557	11,271	0.9
Spinach	0	.	.	249	63	249	253	-
Carrot	0	.	.	150	6	150	156	-
Chillies	0	.	.	2,251	145	2,251	2,267	-
Amaranths	0	.	.	4,426	215	4,426	4,444	-
Pumpkins	0	.	.	1,915	95	1,915	1,915	-
Cucumber	0	.	.	552	37	552	552	-
Egg Plant	0	.	.	403	39	403	442	-
Water Mellon	0	.	.	102	10	102	112	-
FRUITS & VEGETABLES		108	12,996,905		2,602	35,385	36,689	0.3
Cotton	0	.	.	0	.	0	0	-
Tobacco	0	.	.	226	47	226	226	-
CASH CROPS		.	.		47	226	226	-
Total		108	12,996,905		83,720	350,089	352,645	0.0

5.59: Planted Area & Number of Households by Insecticide Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - KAGERA REGION

Crop	Insecticide							% of area planted Insecticide
	Number of Households using Insecticide	Planted Area Insecticide Used	Cost of Insecticide	Number of Households NOT using Insecticide	Planted Area Insecticide not Used	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	7,927	2,468	31,209,270	313,835	85,652			
Paddy	0	.	.	9,997	8,017	321,762	88,120	2.8
Sorghum	129	104	321,969	14,479	4,018	9,997	8,017	-
Bulrush Millet	0	.	.	408	413	14,608	4,122	2.5
Finger Millet	0	.	.	4,910	1,045	408	413	-
Wheat	0	.	.	0	.	4,910	1,045	-
Barley	0	.	.	102	17	0	0	-
CEREALS		2,572	31,531,239		99,161	351,786	101,733	2.5
Yam	0	.	.	92	112	92	112	-
Cassava	0	.	.	3,590	1,222	3,590	1,222	-
Sweet Potato	0	.	.	80,917	10,506	80,917	10,506	-
Irish potatoes	0	.	.	3,295	402	3,295	402	-
Yams	0	.	.	14,182	1,300	14,182	1,300	-
Coco Yam	147	15	294,653	47,598	5,384	47,745	5,399	0.3
ROOTS & TUBERS		15	294,653		18,926	149,821	18,941	0.1
Mung Bean	0	.	.	1,628	291	1,628	291	-
Beans	1,927	1,115	5,539,431	321,919	100,288	323,847	101,403	1.1
Cowpeas	0	.	.	1,705	210	1,705	210	-
Green gram	0	.	.	204	21	204	21	-
Chick peas	0	.	.	0	.	0	0	-
Bambaranuts	0	.	.	8,598	1,062	8,598	1,062	-
Field Peas	0	.	.	5,908	859	5,908	859	-
PULSES		1,115	5,539,431		102,731	341,890	103,846	1.1
Sunflower	0	.	.	78	16	78	16	-
Simsim	0	.	.	102	4	102	4	-
Groundnut	0	.	.	56,455	10,277	56,455	10,277	-
Soya Beans	0	.	.	425	52	425	52	-
OIL SEEDS & OIL NUTS		.	.		10,349	57,061	10,349	-
Okra	0	.	.	689	154	689	154	-
Bitteer Aubergine	615	17	6,834,968	4,191	245	4,805	262	6.6
Onion	0	.	.	567	67	567	67	-
Ginger	0	.	.	92	7	92	7	-
Cabbage	721	30	4,598,671	5,900	589	6,622	619	4.8
Tomatoes	3,062	394	31,271,796	10,527	887	13,588	1,280	30.7
Spinach	129	1	64,394	58	12	186	13	8.2
Carrot	0	.	.	207	15	207	15	-
Chillies	102	3	356,705	2,219	186	2,321	188	1.4
Amaranths	0	.	.	4,390	399	4,390	399	-
Pumpkins	0	.	.	3,295	205	3,295	205	-
Cucumber	102	3	1,630,653	1,154	87	1,256	89	2.9
Egg Plant	0	.	.	92	0	92	0	-
Water Mellon	0	.	.	147	15	147	15	-
FRUITS & VEGETABLES		447	44,757,186		2,867	38,260	3,313	13.5
Cotton	4,626	4,082	68,588,658	3,904	2,774	8,530	6,856	59.5
Tobacco	235	127	2,823,293	361	162	596	289	44.0
CASH CROPS		4,209	71,411,951		2,936	9,126	7,145	58.9
Total		8,358	153,534,460		236,969	947,944	245,327	3.4

5.60: Planted Area & Number of Households by Fungicide Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - KAGERA REGION

Crop	Fungicide							% of area planted Fungicide
	Number of Households using Fungicide	Planted Area Fungicide Used	Cost of Fungicide	Number of Households NOT using Fungicide	Planted Area Fungicide not Used	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	1,657	409	18,209,053	319,664	87,710	321,762	88,120	0.5
Paddy	0	.	.	9,997	8,017	9,997	8,017	-
Sorghum	92	19	10,126,389	14,515	4,104	14,608	4,122	0.5
Bulrush Millet	0	.	.	408	413	408	413	-
Finger Millet	0	.	.	4,910	1,045	4,910	1,045	-
Wheat	0	.	.	0	.	0	0	-
Barley	0	.	.	102	17	102	17	-
CEREALS		428	28,335,442		101,305	351,786	101,733	0.4
Yam	0	.	.	92	112	92	112	-
Cassava	0	.	.	3,590	1,222	3,590	1,222	-
Sweet Potato	92	19	20,264,193	80,825	10,487	80,917	10,506	0.2
Irish potatoes	0	.	.	3,295	402	3,295	402	-
Yams	0	.	.	14,182	1,300	14,182	1,300	-
Coco Yam	0	.	.	47,745	5,399	47,745	5,399	-
ROOTS & TUBERS		19	20,264,193		18,922	149,821	18,941	0.1
Mung Bean	0	.	.	1,628	291	1,628	291	-
Beans	276	37	39,400,061	322,733	101,366	323,847	101,403	0.0
Cowpeas	0	.	.	1,705	210	1,705	210	-
Green gram	0	.	.	204	21	204	21	-
Chick peas	0	.	.	0	.	0	0	-
Bambaranuts	0	.	.	8,598	1,062	8,598	1,062	-
Field Peas	0	.	.	5,908	859	5,908	859	-
PULSES		37	39,400,061		103,809	341,890	103,846	0.0
Sunflower	0	.	.	78	16	78	16	-
Simsim	0	.	.	102	4	102	4	-
Groundnut	92	9	0	56,363	10,267	56,455	10,277	0.1
Soya Beans	0	.	.	425	52	425	52	-
OIL SEEDS & OIL NUTS		9	0		10,339	57,061	10,349	0.1
Okra	0	.	.	689	154	689	154	-
Bitteer Aubergine	1,367	53	8,757,061	3,531	209	4,805	262	20.3
Onion	0	.	.	567	67	567	67	-
Ginger	0	.	.	92	7	92	7	-
Cabbage	335	2	975,074	6,140	617	6,622	619	0.4
Tomatoes	3,279	370	136,220,938	10,104	911	13,588	1,280	28.9
Spinach	0	.	.	186	13	186	13	-
Carrot	0	.	.	207	15	207	15	-
Chillies	102	1	305,747	2,219	187	2,321	188	0.7
Amaranth	0	.	.	4,390	399	4,390	399	-
Pumpkins	0	.	.	3,295	205	3,295	205	-
Cucumber	102	1	163,065	1,154	88	1,256	89	1.4
Egg Plant	0	.	.	92	0	92	0	-
Water Mellon	0	.	.	147	15	147	15	-
FRUITS & VEGETABLES		428	146,421,885		2,886	38,260	3,313	12.9
Cotton	0	.	.	8,326	6,856	8,530	6,856	-
Tobacco	78	32	548,974	518	257	596	289	11.0
CASH CROPS		32	548,974		7,113	9,126	7,145	0.4
Total		953	234,970,555		244,374	947,944	245,327	0.4

5.61: Planted Area & Number of Households by Irrigation Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - KAGERA REGION

Crop	Irrigation use						% of Planted area using Irrigation
	Number of Households using Irrigation	Planted Area Irrigated	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	1,763	454	319,726	87,666	321,762	88,120	0.5
Paddy	0	.	9,997	8,017	9,997	8,017	-
Sorghum	0	.	14,608	4,122	14,608	4,122	-
Bulrush Millet	0	.	408	413	408	413	-
Finger Millet	92	19	4,818	1,026	4,910	1,045	1.8
Wheat	0	.	0	.	-	0	-
Barley	0	.	102	17	102	17	-
CEREALS		473		101,261		101,733	0.5
Yam	0	.	92	112	92	112	-
Cassava	0	.	3,590	1,222	3,590	1,222	-
Sweet Potato	453	65	80,464	10,441	80,917	10,506	0.6
Irish potatoes	0	.	3,295	402	3,295	402	-
Yams	0	.	14,182	1,300	14,182	1,300	-
Coco Yam	147	11	47,598	5,388	47,745	5,399	0.2
ROOTS & TUBERS		76		18,865		18,941	0.4
Mung Bean	0	.	1,628	291	1,628	291	-
Beans	1,090	323	322,215	101,080	323,847	101,403	0.3
Cowpeas	0	.	1,705	210	1,705	210	-
Green gram	0	.	204	21	204	21	-
Chick peas	0	.	0	.	-	-	-
Bambaranuts	204	8	8,394	1,054	8,598	1,062	0.8
Field Peas	0	.	5,908	859	5,908	859	-
PULSESES	1,294	331	340,054	103,514	341,890	103,846	0.3
Sunflower	0	.	78	16	78	16	-
Simsim	0	.	102	4	102	4	-
Groundnut	194	46	56,262	10,231	56,455	10,277	0.4
Soya Beans	0	.	425	52	425	52	-
OIL SEEDS & OIL NUTS		46		10,303		10,349	0.4
Okra	0	.	689	154	689	154	-
Bitteer Aubergine	1,705	62	3,307	200	4,805	262	23.6
Onion	102	10	465	57	567	67	15.4
Ginger	0	.	92	7	92	7	-
Cabbage	2,121	147	4,446	472	6,622	619	23.8
Tomatoes	3,656	304	10,152	976	13,588	1,280	23.7
Spinach	186	13	0	.	186	13	100.0
Carrot	115	3	150	11	207	15	22.6
Chillies	102	3	2,219	186	2,321	188	1.4
Amaranths	58	9	4,333	390	4,390	399	2.3
Pumpkins	0	.	3,295	205	3,295	205	-
Cucumber	102	3	1,154	87	1,256	89	2.9
Egg Plant	0	.	92	0	92	0	-
Water Mellon	0	.	147	15	147	15	-
FRUITS & VEGETABLES		554		2,759		3,313	16.7
Cotton	306	330	8,122	6,526	8,530	6,856	4.8
Tobacco	78	32	518	257	596	289	11.0
CASH CROPS		362		6,783		7,145	5.1
Total		1,842		243,485		245,327	0.8

5.62: Planted Area & Number of Households by Improved Seeds Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - KAGERA REGION

Crop	Improved Seed							% of area planted using improved seed
	Number of Households using Improved Seed	Planted Area Improved Seed Used	Cost of Improved Seeds	Number of Households NOT using Improved Seeds	Planted Area Improved Seed not Used	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	15,386	5,827	174,080,761	308,213	82,293	321,762	88,120	6.61
Paddy	0	.	.	9,997	8,017	9,997	8,017	-
Sorghum	0	.	.	14,608	4,122	14,608	4,122	-
Bulrush Millet	0	.	.	408	413	408	413	-
Finger Millet	0	.	.	4,910	1,045	4,910	1,045	-
Wheat	0	.	.	0	.	-	-	-
Barley	0	.	.	102	17	102	17	-
CEREALS		5,827	174,080,761		95,906		101,733	5.73
Yam	92	112	55,233,344	0	.	92	112	100.00
Cassava	0	.	.	3,590	1,222	3,590	1,222	-
Sweet Potato	649	64	5,325,459	80,475	10,442	80,917	10,506	0.61
Irish potatoes	0	.	.	3,295	402	3,295	402	-
Yams	0	.	.	14,182	1,300	14,182	1,300	-
Coco Yam	405	30	28,325,477	47,469	5,369	47,745	5,399	0.55
ROOTS & TUBERS		206	88,884,280		18,735		18,941	1.09
Mung Bean	0	.	.	1,628	291	1,628	291	-
Beans	3,409	1,192	58,108,765	319,807	100,212	323,847	101,403	1.18
Cowpeas	0	.	.	1,705	210	1,705	210	-
Green gram	0	.	.	204	21	204	21	-
Chick peas	0	.	.	0	.	-	-	-
Bambaranuts	204	8	305,921	8,394	1,054	8,598	1,062	0.78
Field Peas	460	65	28,399,144	5,908	794	5,908	859	7.59
PULSES		1,265	86,813,830		102,581		103,846	1.22
Sunflower	0	.	.	78	16	78	16	-
Simsim	0	.	.	102	4	102	4	-
Groundnut	1,796	184	135,137,287	54,660	10,093	56,455	10,277	1.79
Soya Beans	0	.	.	425	52	425	52	-
OIL SEEDS & OIL NUTS		184	135,137,287		10,165		10,349	1.77
Okra	78	16	117,637	611	138	689	154	10.34
Bitteer	288	9	331,860	4,690	253	4,805	262	-
Aubergine								3.52
Onion	335	20	2,445,268	233	47	567	67	29.52
Ginger	0	.	.	92	7	92	7	-
Cabbage	2,543	307	28,876,583	4,496	312	6,622	619	49.60
Tomatoes	4,204	402	19,091,789	9,755	878	13,588	1,280	31.39
Spinach	186	2	327,089	58	10	186	13	19.69
Carrot	207	10	1,323,158	115	5	207	15	68.06
Chillies	194	4	140,055	2,219	184	2,321	188	1.99
Amaranths	412	82	5,794,625	4,128	317	4,390	399	20.55
Pumpkins	0	.	.	3,295	205	3,295	205	-
Cucumber	102	3	254,789	1,154	87	1,256	89	2.89
Egg Plant	0	.	.	92	0	92	0	-
Water Mellon	147	15	368,316	0	.	147	15	100.00
FRUITS & VEGETABLES		870	59,071,171		2,444		3,313	26.24
Cotton	6,209	5,032	33,301,403	2,117	1,825	8,530	6,856	73.39
Tobacco	392	206	656,808	204	83	596	289	71.42
CASH CROPS		5,238	33,958,211		1,907		7,145	73.31
Total		13,589	577,945,539		231,738		245,327	5.54

5.63: Planted Area & Number of Households by Local Seeds Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - KAGERA REGION

Crop	Local Seed							% of area planted using Local seed
	Number of Households using Local Seed	Planted Area Local Seed Used	Cost of Local Seeds	Number of Households NOT using Local Seeds	Planted Area Local Seed not Used	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	305,846	80,693	1,126,207,509	27,813	7,488	321,762	88,120	91.6
Paddy	9,997	8,017	171,565,975	0	.	9,997	8,017	100.0
Sorghum	14,608	4,009	74,608,323	977	113	14,608	4,122	97.3
Bulrush Millet	408	413	10,191,579	0	.	408	413	100.0
Finger Millet	4,910	1,036	21,745,400	92	9	4,910	1,045	99.1
Wheat	0	.	.	0	.	0	0	-
Barley	102	17	1,019,158	0	.	102	17	100.0
CEREALS		94,184	1,405,337,944		7,610	351,786	101,733	92.6
Yam	0	.	.	92	112	92	112	-
Cassava	3,590	1,204	33,604,814	354	18	3,590	1,222	98.5
Sweet Potato	80,268	10,153	824,360,788	3,914	353	80,917	10,506	96.6
Irish potatoes	3,295	361	26,681,274	233	41	3,295	402	89.8
Yams	14,182	1,263	90,547,305	1,290	37	14,182	1,300	97.1
Coco Yam	47,340	5,215	402,152,644	2,859	183	47,745	5,399	96.6
ROOTS & TUBERS		18,196	1,377,346,825		745	149,821	18,941	96.1
Mung Bean	1,628	287	20,406,632	92	4	1,628	291	98.7
Beans	319,600	98,970	3,783,681,657	13,650	2,433	323,847	101,403	97.6
Cowpeas	1,705	206	1,615,487	92	3	1,705	210	98.4
Green gram	204	21	1,019,737	0	.	204	21	100.0
Chick peas	0	.	.	0	.	0	0	-
Bambaranuts	8,394	1,047	41,897,367	296	15	8,598	1,062	98.6
Field Peas	5,448	674	49,413,421	951	185	5,908	859	78.4
PULSES		101,206	3,898,034,302		2,640	341,890	103,846	97.5
Sunflower	78	16	392,124	0	.	78	16	100.0
Simsim	102	4	50,958	0	.	102	4	100.0
Groundnut	54,660	9,966	565,202,346	2,776	311	56,455	10,277	97.0
Soya Beans	425	42	1,559,609	204	10	425	52	80.3
OIL SEEDS & OIL NUTS		10,028	567,205,037		321	57,061	10,349	96.9
Okra	611	138	2,656,678	78	16	689	154	89.7
Bitteer Aubergine	4,460	233	8,102,703	380	30	4,805	262	88.7
Onion	233	47	116,374	335	20	567	67	70.5
Ginger	92	7	506,306	0	.	92	7	100.0
Cabbage	3,830	245	26,553,505	2,911	374	6,622	619	39.6
Tomatoes	8,787	566	45,964,605	7,446	714	13,588	1,280	44.2
Spinach	0	.	.	186	13	186	13	-
Carrot	0	.	.	207	15	207	15	-
Chillies	2,025	36	2,489,183	1,943	152	2,321	188	19.2
Amaranths	3,978	110	2,721,058	3,286	289	4,390	399	27.7
Pumpkins	3,295	125	2,683,384	1,326	80	3,295	205	60.9
Cucumber	1,052	36	1,525,022	858	53	1,256	89	40.5
Egg Plant	92	0	46,028	92	0	92	0	12.5
Water Mellon	0	.	.	147	15	147	15	-
FRUITS & VEGETABLES		1,543	93,364,844		1,770	38,260	3,313	46.6
Cotton	2,117	1,804	13,114,272	6,311	5,052	8,530	6,856	26.3
Tobacco	204	83	6,118,425	392	206	596	289	28.6
CASH CROPS		1,887	19,232,697		5,259	9,126	7,145	26.4
Total		227,043	7,360,521,649		18,345	947,944	245,327	92.5

5.64: Planted Area & Number of Households by Organic Fertilizer Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - KAGERA REGION

Crop	Organic Fertilizer							% of area planted Organic Fertilizer
	Number of Households using Organic Fertilizer	Planted Area Organic Fertilizer Used	Cost of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Organic Fertilizer not Used	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	18,006	4,579	417,910,915	309,392	83,540	321,045	88,120	5.2
Paddy	170	73	508,107	9,918	7,944	9,997	8,017	0.9
Sorghum	736	163	2,905,274	14,055	3,959	14,608	4,122	4.0
Bulrush Millet	0	.	.	408	413	408	413	-
Finger Millet	92	19	354,414	4,818	1,026	4,910	1,045	1.8
Wheat	0	.	.	0	.	0	0	-
Barley	0	.	.	102	17	102	17	-
CEREALS		4,834	421,678,711		96,899	351,069	101,733	4.8
Yam	92	112	1,104,667	0	.	92	112	100.0
Cassava	0	.	.	3,590	1,222	3,590	1,222	-
Sweet Potato	2,871	476	57,620,667	78,856	10,030	80,917	10,506	4.5
Irish potatoes	0	.	.	3,295	402	3,295	402	-
Yams	1,441	272	50,159,495	12,888	1,028	14,182	1,300	20.9
Coco Yam	651	107	3,976,695	47,187	5,292	47,745	5,399	2.0
ROOTS & TUBERS		967	112,861,523		17,974	149,821	18,941	5.1
Mung Bean	0	.	.	1,628	291	1,628	291	-
Beans	10,491	3,087	258,172,285	317,220	98,316	323,009	101,403	3.0
Cowpeas	102	10	.	1,603	199	1,705	210	4.9
Green gram	0	.	.	204	21	204	21	-
Chick peas	0	.	.	0	.	0	0	-
Bambaranuts	296	27	920,556	8,302	1,035	8,598	1,062	2.5
Field Peas	0	.	.	5,908	859	5,908	859	-
PULSES		3,125	259,092,841		100,721	341,052	103,846	3.0
Sunflower	0	.	.	78	16	78	16	-
Simsim	0	.	.	102	4	102	4	-
Groundnut	729	205	3,020,173	55,828	10,071	56,455	10,277	2.0
Soya Beans	0	.	.	425	52	425	52	-
OIL SEEDS & OIL NUTS		205	3,020,173		10,144	57,061	10,349	2.0
Okra	0	.	.	689	154	689	154	-
Bitteer	3,657	168	11,526,988	1,206	94			
Aubergine						4,748	262	64.2
Onion	102	10	794,943	465	57	567	67	15.4
Ginger	0	.	.	92	7	92	7	-
Cabbage	4,661	359	34,244,593	2,144	260	6,372	619	58.0
Tomatoes	6,866	598	52,362,290	7,070	682	12,991	1,280	46.7
Spinach	186	13	480,755	0	.	186	13	100.0
Carrot	207	12	1,791,501	58	3	207	15	81.9
Chillies	102	3	254,789	2,219	186	2,219	188	1.4
Amaranths	426	89	2,448,118	4,057	311	4,390	399	22.2
Pumpkins	129	2	19,318	3,167	203	3,295	205	1.0
Cucumber	102	3	229,311	1,154	87	1,154	89	2.9
Egg Plant	0	.	.	92	0	92	0	-
Water Mellon	147	15	736,632	0	.	147	15	100.0
FRUITS & VEGETABLES		1,271	104,889,238		2,042	37,152	3,313	38.4
Cotton	408	248	6,216,863	8,020	6,609	8,326	6,856	3.6
Tobacco	0	.	.	596	289	596	289	-
CASH CROPS		248	6,216,863		6,898	8,922	7,145	3.5
Total		10,649	907,759,349		234,678	945,078	245,327	4.3

5.65: Planted Area & Number of Households by Inorganic Fertilizer Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - KAGERA REGION

Crop	Inorganic Fertilizer							% of area planted Inorganic Fertilizer
	Number of Households using Inorganic Fertilizer	Planted Area Inorganic Fertilizer Used	Cost of Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area Inorganic Fertilizer not Used	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	2,346	662	102,809,475	318,920	87,457	321,045	88,120	0.8
Paddy	0	.	.	9,997	8,017	9,997	8,017	-
Sorghum	0	.	.	14,608	4,122	14,608	4,122	-
Bulrush Millet	0	.	.	408	413	408	413	-
Finger Millet	0	.	.	4,910	1,045	4,910	1,045	-
Wheat	0	.	.	0	.	0	0	-
Barley	0	.	.	102	17	102	17	-
CEREALS		662	102,809,475		101,071	351,069	101,733	0.7
Yam	0	.	.	92	112	92	112	-
Cassava	0	.	.	3,590	1,222	3,590	1,222	-
Sweet Potato	0	.	.	80,917	10,506	80,917	10,506	-
Irish potatoes	0	.	.	3,295	402	3,295	402	-
Yams	0	.	.	14,182	1,300	14,182	1,300	-
Coco Yam	0	.	.	47,745	5,399	47,745	5,399	-
ROOTS & TUBERS		.	.		18,941	149,821	18,941	-
Mung Bean	0	.	.	1,628	291	1,628	291	-
Beans	462	184	20,221,289	322,676	101,220	323,009	101,403	0.2
Cowpeas	0	.	.	1,705	210	1,705	210	-
Green gram	0	.	.	204	21	204	21	-
Chick peas	0	.	.	0	.	0	0	-
Bambaranuts	0	.	.	8,598	1,062	8,598	1,062	-
Field Peas	0	.	.	5,908	859	5,908	859	-
PULSES		184	20,221,289		103,662	341,052	103,846	0.2
Sunflower	0	.	.	78	16	78	16	-
Simsim	0	.	.	102	4	102	4	-
Groundnut	0	.	.	56,455	10,277	56,455	10,277	-
Soya Beans	0	.	.	425	52	425	52	-
OIL SEEDS & OIL NUTS		.	.		10,349	57,061	10,349	-
Okra	0	.	.	689	154	689	154	-
Bitteer	0	.	.	4,748	262	4,748	262	-
Aubergine	0	.	.	567	67	567	67	-
Onion	0	.	.	92	7	92	7	-
Ginger	0	.	.	6,372	619	6,372	619	-
Cabbage	0	.	.	12,239	1,152	12,991	1,280	10.0
Tomatoes	753	128	11,596,430	186	13	186	13	-
Spinach	0	.	.	207	15	207	15	-
Carrot	0	.	.	2,219	188	2,219	188	-
Chillies	0	.	.	4,390	399	4,390	399	-
Amaranths	0	.	.	3,295	205	3,295	205	-
Pumpkins	0	.	.	1,154	89	1,154	89	-
Cucumber	0	.	.	92	0	92	0	-
Egg Plant	0	.	.	147	15	147	15	-
Water Mellon	0	.	.					-
FRUITS & VEGETABLES		128	11,596,430		3,186	37,152	3,313	3.9
Cotton	0	.	.	8,326	6,856	8,326	6,856	-
Tobacco	392	206	54,756,194	204	83	596	289	71.4
CASH CROPS		206	54,756,194		6,939	8,922	7,145	2.9
Total		1,180	189,383,388		244,147	945,078	245,327	0.5

5.66: Planted Area & Number of Households by Herbicide Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - KAGERA REGION

Crop	Herbicide							% of area planted Herbicide
	Number of Households using Herbicide	Planted Area Herbicide Used	Cost of Herbicide	Number of Households NOT using Herbicide	Planted Area Herbicide not Used	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	147	10	368,316	320,898	88,109	321,045	88,120	0.0
Paddy	0	.	0	9,997	8,017	9,997	8,017	-
Sorghum	0	.	0	14,608	4,122	14,608	4,122	-
Bulrush Millet	0	.	.	408	413	408	413	-
Finger Millet	0	.	0	4,910	1,045	4,910	1,045	-
Wheat	0	.	.	0	.	0	0	-
Barley	0	.	.	102	17	102	17	-
CEREALS		10	368,316		101,723	351,069	101,733	0.0
Yam	0	.	.	92	112	92	112	-
Cassava	0	.	.	3,590	1,222	3,590	1,222	-
Sweet Potato	0	.	0	80,917	10,506	80,917	10,506	-
Irish potatoes	0	.	.	3,295	402	3,295	402	-
Yams	0	.	0	14,182	1,300	14,182	1,300	-
Coco Yam	0	.	0	47,745	5,399	47,745	5,399	-
ROOTS & TUBERS		.	0		18,941	149,821	18,941	-
Mung Bean	0	.	.	1,628	291	1,628	291	-
Beans	0	.	0	323,009	101,403	323,009	101,403	-
Cowpeas	0	.	.	1,705	210	1,705	210	-
Green gram	0	.	.	204	21	204	21	-
Chick peas	0	.	.	0	.	0	0	-
Bambaranuts	0	.	.	8,598	1,062	8,598	1,062	-
Field Peas	0	.	.	5,908	859	5,908	859	-
PULSES		.	0		103,846	341,052	103,846	-
Sunflower	0	.	.	78	16	78	16	-
Simsim	0	.	.	102	4	102	4	-
Groundnut	0	.	0	56,455	10,277	56,455	10,277	-
Soya Beans	0	.	.	425	52	425	52	-
OIL SEEDS & OIL NUTS		.	0		10,349	57,061	10,349	-
Okra	0	.	.	689	154	689	154	-
Bitteer	147	6	1,473,26	4,601	256			-
Aubergine			4			4,748	262	2.3
Onion	0	.	.	567	67	567	67	-
Ginger	0	.	.	92	7	92	7	-
Cabbage	249	26	2,367,28	6,225	593			-
			4			6,372	619	4.2
Tomatoes	306	23	6,727,48	12,787	1,257			-
			5			12,991	1,280	1.8
Spinach	0	.	.	186	13	186	13	-
Carrot	0	.	.	207	15	207	15	-
Chillies	102	3	81,533	2,219	186	2,219	188	1.4
Amaranths	0	.	0	4,390	399	4,390	399	-
Pumpkins	0	.	.	3,295	205	3,295	205	-
Cucumber	102	3	1,630,65	1,154	87			-
			3			1,154	89	2.9
Egg Plant	0	.	.	92	0	92	0	-
Water Mellon	0	.	.	147	15	147	15	-
FRUITS & VEGETABLES		60	12,280,219		3,253	37,152	3,313	1.8
Cotton	0	.	.	8,326	6,856	8,326	6,856	-
Tobacco	0	.	.	596	289	596	289	-
CASH CROPS		.	.		7,145	8,922	7,145	-
Total		70	12,648,535		245,257	945,078	245,327	0.0

PERMANENT CROPS

5.67: Number of Households Planting Permanent Crops by District, 2007/08 Agriculture Year - Kagera

District	Have Crops/Fruit Trees		Does Not Have Crops/Fruit Trees		Total	
	Number	%	Number	%	Number	%
Karagwe	89,375	95	4,888	5.2	94,263	100.0
Bukoba Rural	59,078	99	589	1.0	59,667	100.0
Muleba	77,908	94	4,691	5.7	82,599	100.0
Biharamulo	24,390	77	7,372	23.2	31,762	100.0
Ngara	47,523	91	4,636	8.9	52,159	100.0
Bukoba Urban	6,557	95	345	5.0	6,902	100.0
Missenyi	35,902	96	1,381	3.7	37,283	100.0
Chato	24,154	59	17,122	41.5	41,276	100.0
Total	364,886	90	41,024	10.1	405,910	100.0

5.68: 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	
Karagwe	16,758	9,129	82,858	63,801	89,142	72,930.0	45,082
Bukoba Rural	10,902	3,993	56,868	26,117	59,078	30,110.8	7,154
Muleba	11,829	4,947	73,217	41,311	77,500	46,257.8	29,278
Biharamulo	13,881	10,485	12,783	5,009	24,390	15,493.6	12,054
Ngara	17,258	7,899	38,894	14,704	47,523	22,602.2	14,157
Bukoba Urban	863	272	5,982	1,910	6,557	2,181.6	935
Missenyi	8,561	3,355	33,324	27,275	35,902	30,630.0	16,394
Chato	15,185	12,687	11,822	7,049	24,154	19,736.5	15,721
Total	95,237	52,767	315,748	187,175	364,245	239,942.4	140,775

5.69: Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop - Kagera

Crop	Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)	Quantity Harvested (kgs)	Yield (tons/Ha)	Yield (Kg/Ha)
	Number of households	Area					
Banana	313,849	118,072	69,221	1,093,395	1,093,395,037	15.8	15,796
Coffee	223,137	47,949	26,840	101,561	101,560,691	3.8	3,784
Mango	71,304	8,577	3,046	21,478	21,477,511	7.1	7,052
Pigeon pea	1,311	278	102	154	154,368	1.5	1,516
Orange	14,031	1,061	480	4,700	4,699,523	9.8	9,786
Sugarcane	11,430	770	528	8,759	8,759,344	16.6	16,601
Palm oil	8,580	278	70	663	662,526	9.5	9,493
Tea	333	66	66	194	194,485	2.9	2,941
Others	350,935	62,891	40,424	169,257	169,257,115	4.2	4,187
Total	994,912	239,942	140,775	1,400,161	1,400,160,600	71.2	71,155

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

District	Banana							
	Area of Plants/Trees/Bushes in Mono Crop (ha)		Area Covered by Permanent Crop in Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)
	Number of households	Area	Number of households	Area	Number of households	Area	Area	tons
Karagwe	14,896	5,794	79,832	38,984	88,677	44,778	27,390	448,579
Bukoba Rural	6,335	992	55,984	12,443	58,047	13,434	3,527	150,298
Muleba	5,507	1,690	68,934	23,573	72,605	25,263	17,032	215,237
Biharamulo	3,215	3,156	8,235	2,246	11,136	5,401	3,040	18,625
Ngara	10,045	3,513	34,000	10,811	40,826	14,323	9,975	125,564
Bukoba Urban	633	181	5,924	1,043	6,499	1,224	619	13,295
Missenyi	5,339	1,587	31,667	11,905	34,429	13,492	7,538	121,017
Chato	815	128	815	26	1,631	155	101	781
Total	46,786	17,041	285,392	101,031	313,849	118,072	69,221	1,093,395

...cont. 5.70: Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District

District	Coffee							
	Area of Plants/Trees/Bushes in Mono Crop (ha)		Area Covered by Permanent Crop in Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)
	Number of households	Area	Number of households	Area	Number of households	Area	Area	tons
Karagwe	5,353	1,846	63,307	17,165	65,635	19,011	12,848	45,330
Bukoba Rural	4,420	601	50,828	7,289	51,712	7,890	1,729	13,935
Muleba	3,467	837	58,125	9,459	59,757	10,296	6,355	19,979
Biharamulo	471	239	1,490	135	1,961	375	353	1,015
Ngara	1,417	292	7,598	735	8,886	1,027	566	1,885
Bukoba Urban	288	91	3,048	386	3,336	476	236	1,227
Missenyi	3,314	612	30,747	8,263	31,851	8,875	4,752	18,190
Chato								
Total	18,729	4,518	215,143	43,431	223,137	47,949	26,840	101,561

...cont. 5.70: Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District

District	Mango							
	Area of Plants/Trees/Bushes in Mono Crop (ha)		Area Covered by Permanent Crop in Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)
	Number of households	Area	Number of households	Area	Number of households	Area	Area	tons
Karagwe	1,396	292	19,318	2,612	19,551	2,905	1,500	5,044
Bukoba Rural	1,473	57	12,523	711	12,523	767	156	1,126
Muleba	204	2	8,566	508	8,770	510	74	1,567
Biharamulo	314	47	706	50	1,020	96	73	223
Ngara	1,545	477	11,076	605	11,333	1,082	174	3,003
Bukoba Urban	0	.	575	22	575	22	.	60
Missenyi	552	62	12,335	1,277	12,335	1,339	688	3,810
Chato	1,223	1,320	4,586	535	5,198	1,856	380	6,645
Total	6,708	2,257	69,685	6,320	71,304	8,577	3,046	21,478

cont. 5.70: Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District

Districts	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 (tons)
	Number of households	Area	Number of households	Area	Number of households	Area	Area	tons
Karagwe								
Bukoba Rural	147	52	147	49	147	101	.	66
Muleba	0	.	204	75	204	75	.	49
Biharamulo	0	.	627	77	627	77	77	29
Ngara	129	13	0	.	129	13	13	5
Bukoba Urban								
Missenyi								
Chato	102	2	102	10	204	12	12	4
Total	378	66	1,081	211	1,311	278	102	154

...cont. 5.70: Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District

District	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 (tons)
	Number of households	Area	Number of households	Area	Number of households	Area	Area	tons
Karagwe	233	23	4,655	279	4,655	302	173	573
Bukoba Rural	147	12	1,326	73	1,326	85	30	114
Muleba	204	40	408	64	612	104	61	526
Biharamulo	0	.	78	1	78	1	.	6
Ngara	386	152	1,932	30	1,932	182	3	1,282
Bukoba Urban	0	.	115	1	115	1	.	0
Missenyi	276	20	3,682	228	3,682	249	196	733
Chato	204	24	1,427	113	1,631	137	17	1,465
Total	1,450	271	13,623	789	14,031	1,061	480	4,700

cont.... 5.70: Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District

District	Sugar cane							
	Area of Plants/Trees/Bushes in Mono Crop (ha)		Area Covered by Permanent Crop in Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)
	Number of households	Area	Number of households	Area	Number of households	Area	Area	tons
Karagwe	465	32	4,655	256	4,655	288	115	1,241
Bukoba Rural	295	16	3,094	6	3,094	21	13	175
Muleba	204	161	1,020	49	1,224	210	161	2,493
Biharamulo	157	62	78	3	235	65	65	2,831
Ngara	0	.	386	1	386	1	0	19
Bukoba Urban	0	.	58	0	58	0	.	1
Missenyi	0	.	1,473	44	1,473	44	33	397
Chato	306	140	0	.	306	140	140	1,603
Total	1,427	411	10,764	360	11,430	770	528	8,759

...cont. 5.70: Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District - Kagera

District	Palm oil							
	Area of Plants/Trees/Bushes in Mono Crop (ha)		Area Covered by Permanent Crop in Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)
	Number of households	Area	Number of households	Area	Number of households	Area	Area	tons
Karagwe	0	.	233	2	233	2	.	9
Bukoba Rural	147	2	3,241	93	3,241	95	.	411
Muleba	0	.	1,632	31	1,632	31	8	80
Biharamulo								
Ngara								
Bukoba Urban	0	.	345	4	345	4	.	6
Missenyi	460	50	3,130	96	3,130	146	62	156
Chato								
Total	608	52	8,580	226	8,580	278	70	663

cont...

District	Tea							
	Area of Plants/Trees/Bushes in Mono Crop (ha)		Area Covered by Permanent Crop in Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)
	Number of households	Area	Number of households	Area	Number of households	Area	Area	tons
Karagwe								
Bukoba Rural								
Muleba	0	.	204	28	204	28	28	98
Biharamulo								
Ngara	0	.	129	38	129	38	38	97
Bukoba Urban								
Missenyi								
Chato								
Total	0	.	333	66	333	66	66	194

ACCESS TO AGRICULTURAL EQUIPMENTS

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

District	Equipment/Asset Name												Total number of Agricultural Households
	Sword		Hand Hoe		Hand Sprayer		Grater, Chiper, Oil Press na Oil Mill		Oxplough		Oxplanter		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Karagwe	92,866	98.5	91,470	97.0	6,982	7.4	233	0.2	233	0.2	0	0.0	94,263
Bukoba Rural	58,783	98.5	58,783	98.5	3,830	6.4	737	1.2	0	0.0	147	0.2	59,667
Muleba	79,743	96.5	78,928	95.6	4,487	5.4	204	0.2	0	0.0	408	0.5	82,599
Biharamulo	30,194	95.1	31,448	99.0	2,510	7.9	235	0.7	1,098	3.5	78	0.2	31,762
Ngara	49,712	95.3	51,644	99.0	2,833	5.4	0	0.0	0	0.0	129	0.2	52,159
Bukoba Urban	6,787	98.3	6,672	96.7	345	5.0	0	0.0	0	0.0	0	0.0	6,902
Missenyi	37,098	99.5	36,730	98.5	2,209	5.9	92	0.2	92	0.2	92	0.2	37,283
Chato	39,951	96.8	40,970	99.3	5,402	13.1	204	0.5	4,484	10.9	0	0.0	41,276
Total	395,135	97.3	396,645	97.7	28,599	7.0	1,704	0.4	5,907	1.5	854	0.2	405,910

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

District	Equipment/Asset Name												Total number of Agricultural Households
	Ox cart		Trekta		Tractor plough		Tractor Harrow		Castrated bulls		Uncastrated bulls		
	Numb er	%	Numb er	%	Numb er	%	Numb er	%	Numb er	%	Numb er	%	
Karagwe	0	0.0	232.7	0.2	232.7	0.2	931.0	1.0	0.0	0.0	465.5	0.5	94,263
Bukoba Rural	147	0.2	0.0	0.0	147.3	0.2	147.3	0.2	294.7	0.5	589.3	1.0	59,667
Muleba	0	0.0	203.9	0.2	203.9	0.2	203.9	0.2	0.0	0.0	611.8	0.7	82,599
Biharamulo	314	1.0	78.4	0.2	156.8	0.5	78.4	0.2	1,411.6	4.4	313.7	1.0	31,762
Ngara	129	0.2	0.0	0.0	128.8	0.2	257.6	0.5	386.4	0.7	643.9	1.2	52,159
Bukoba Urban	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5	0.8	0.0	0.0	6,902
Missenyi	0	0.0	184.1	0.5	0.0	0.0	92.1	0.2	184.1	0.5	368.2	1.0	37,283
Chato	917	2.2	0.0	0.0	305.7	0.7	305.7	0.7	4,484.3	10.9	3,261.3	7.9	41,276
Total	1,507	0.4	699	0.2	1,175	0.3	2,016	0.5	6,819	1.7	6,254	1.5	405,910

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

District	Equipment/Asset Name										Total number of Agricultural Households
	Cow		Donkey		Thrasher		Power tiller		Rigder		
	Number	%	Number	%	Number	%	Number	%	Number	%	
Karagwe	1,629	1.7	0	0.0	233	0.2	465	0.5	0	0.0	94,263
Bukoba Rural	442	0.7	147	0.2	147	0.2	0	0.0	147	0.2	59,667
Muleba	1,836	2.2	204	0.2	408	0.5	408	0.5	0	0.0	82,599
Biharamulo	471	1.5	0	0.0	0	0.0	0	0.0	235	0.7	31,762
Ngara	1,159	2.2	129	0.2	129	0.2	386	0.7	0	0.0	52,159
Bukoba Urban	58	0.8	0	0.0	0	0.0	0	0.0	0	0.0	6,902
Missenyi	368	1.0	0	0.0	0	0.0	92	0.2	0	0.0	37,283
Chato	2,752	6.7	102	0.2	102	0.2	204	0.5	306	0.7	41,276
Total	8,714	2.1	582	0.1	1,019	0.3	1,556	0.4	688	0.2	405,910

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

District	Equipment/Asset Name											
	Sword		Hand Hoe		Hand Sprayer		Grater, Chipper, Oil Press na Oil Mill		Oxplough		Oxplanter	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	163,156	35.4	249,040	54.1	8,146	1.8	5,120	1.1	465	.1	.	.
Bukoba Rural	125,669	40.7	160,144	51.9	4,567	1.5	737	.2	.	.	3,241	1.0
Muleba	136,441	35.9	212,717	56.0	4,487	1.2	204	.1	.	.	8,974	2.4
Biharamulo	50,741	27.6	110,108	59.8	2,980	1.6	392	.2	1,647	.9	2,510	1.4
Ngara	78,432	30.0	147,977	56.6	8,371	3.2	258	.1
Bukoba Urban	11,388	39.0	16,852	57.7	748	2.6
Missenyi	77,603	35.0	120,317	54.2	4,419	2.0	184	.1	2,025	.9	2,025	.9
Chato	72,564	21.3	178,251	52.3	8,051	2.4	2,344	.7	8,357	2.5	.	.
Total	715,993	32.7	1,195,405	54.7	41,769	1.9	8,981	.4	12,495	.6	17,007	.8

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

District	Equipment/Asset Name											
	Ox cart		Trekta		Tractor plough		Tractor Harrow		Castrated bulls		Uncastrated bulls	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	.	.	465	.1	465	.1	17,689	3.8	.	.	931	.2
Bukoba Rural	3,241	1.0	.	.	295	.1	2,947	1.0	295	.1	3,978	1.3
Muleba	.	.	408	.1	2,039	.5	204	.1	.	.	816	.2
Biharamulo	314	.2	157	.1	2,039	1.1	1,725	.9	6,196	3.4	1,647	.9
Ngara	2,576	1.0	.	.	258	.1	515	.2	386	.1	3,606	1.4
Bukoba Urban	58	.2	.	.
Missenyi	.	.	2,117	1.0	.	.	2,025	.9	2,946	1.3	2,393	1.1
Chato	917	.3	.	.	3,057	.9	4,892	1.4	22,421	6.6	8,459	2.5
Total	7,048	.3	3,148	.1	8,154	.4	29,997	1.4	32,301	1.5	21,830	1.0

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

District	Equipment/Asset Name									
	Cow		Donkey		Thrasher		Power tiller		Rigder	
	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	12,568	2.7	.	.	465	.1	1,862	.4	.	.
Bukoba Rural	1,915	.6	295	.1	589	.2	.	.	884	.3
Muleba	7,954	2.1	4,487	1.2	612	.2	816	.2	.	.
Biharamulo	3,215	1.7	314	.2
Ngara	8,114	3.1	258	.1	2,833	1.1	7,985	3.1	.	.
Bukoba Urban	173	.6
Missenyi	3,222	1.5	2,762	1.2	.	.
Chato	29,963	8.8	204	.1	204	.1	408	.1	917	.3
Total	67,124	3.1	5,243	.2	4,704	.2	13,832	.6	2,115	.1

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

District	Oxen		Bulls		Cows		Donkeys		Tractor		Power Tiller	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	0	.	0	.	0	.	0	—	0	.	0	—
Bukoba Rural	0	.0	147	50.0	147	50.0	0	—	0	.0	0	—
Muleba	204	100.0	0	.0	0	.0	0	—	0	.0	0	—
Biharamulo	2,666	91.9	157	5.4	0	.0	0	—	78	2.7	0	—
Ngara	0	.	0	.	0	.	0	—	0	.	0	—
Bukoba Urban	0	.	0	.	0	.	0	—	0	.	0	—
Missenyi	0	.	0	.	0	.	0	—	0	.	0	—
Chato	4,994	90.7	306	5.6	204	3.7	0	—	0	.0	0	—
Total	7,864	88.3	610	6.9	351	3.9	0	—	78	.9	0	—

6.4: Number of Tractors/Draft animals owned By Type and District for 2007/08 agriculture year

District	Oxen		Bulls		Cows		Donkeys		Tractor		Power Tiller	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	-	.	-	.	-
Bukoba Rural	.	.	147	10.0	1,326	90.0	.	-	.	-	.	-
Muleba	-	.	-	.	-
Biharamulo	5,411	92.0	471	8.0	.	.	.	-	.	-	.	-
Ngara	-	.	-	.	-
Bukoba Urban	-	.	-	.	-
Missenyi	-	.	-	.	-
Chato	16,205	45.0	2,854	7.9	16,714	46.5	204	.6	.	-	.	-
Total	21,616	49.9	3,472	8.0	18,040	41.6	204	.5	.	-	.	-

IRRIGATION

6.5: Number of Agriculture Households reporting use of Irrigation during 2007/08 agricultural Year by District

District	Households practicing irrigation		Households not practicing irrigation		Total Number of Households	
	Number	%	Number	%	Number	%
Karagwe	1,862	2	92,401	98	94,263	100
Bukoba Rural	2,357	4	57,310	96	59,667	100
Muleba	1,020	1	81,579	99	82,599	100
Biharamulo	392	1	31,370	99	31,762	100
Ngara	2,061	4	50,098	96	52,159	100
Bukoba Urban	288	4	6,614	96	6,902	100
Missenyi	276	1	37,006	99	37,283	100
Chato	1,834	4	39,441	96	41,276	100
Total	10,090	2	395,820	98	405,910	100

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

District	Main Source of Irrigation Water							
	River	Borehole	Lake	Canal	Dam	Tap Water	Well	Total
Karagwe	233	0	233	465	0	465	0	1,396
Bukoba Rural	1,031	0	147	442	0	0	0	1,621
Muleba	816	0	0	0	0	204	0	1,020
Biharamulo	235	0	0	78	0	78	0	392
Ngara	773	0	0	0	0	1,030	0	1,803
Bukoba Urban	230	0	0	0	0	0	58	288
Missenyi	0	0	0	92	0	0	0	92
Chato	306	611	408	306	0	102	0	1,733
Total	3,624	611	788	1,384	0	1,880	58	8,344

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

District	Main method of Obtaining Water					
	Gravity	Hand bucket	Hand pump	motor pump	Other	Total
Karagwe	0	1,396	0	0	0	1,396
Bukoba Rural	147	1,179	295	0	0	1,621
Muleba	204	816	0	0	0	1,020
Biharamulo	78	314	0	0	0	392
Ngara	1,288	515	0	0	0	1,803
Bukoba Urban	0	288	0	0	0	288
Missenyi	0	0	0	0	92	92
Chato	102	1,019	510	102	0	1,733
Total	1,819	5,526	804	102	92	8,344

EROSION

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

District	Have any erosion problem on their farming land		Do not have any erosion problem on their farming land		Total	
	Number	%	Number	%	Number	%
Karagwe	12,801	13.6	81,462	86.4	94,263	100.00
Bukoba Rural	9,871	16.5	49,796	83.5	59,667	100.00
Muleba	8,770	10.6	73,829	89.4	82,599	100.00
Biharamulo	4,470	14.1	27,292	85.9	31,762	100.00
Ngara	19,189	36.8	32,970	63.2	52,159	100.00
Bukoba Urban	748	10.8	6,154	89.2	6,902	100.00
Missenyi	3,498	9.4	33,784	90.6	37,283	100.00
Chato	7,440	18.0	33,836	82.0	41,276	100.00
Total	66,787	16.5	339,123	83.5	405,910	100.00

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

District	Presence of Erosion Control/Water Harvesting Facilities					
	Have any erosion control/water harvesting facilities		Do not have have any erosion control/water harvesting facilities		Total	
	Number	%	Number	%	Number	%
Karagwe	6,750	7	87,513	93	94,263	100
Bukoba Rural	5,746	10	53,921	90	59,667	100
Muleba	8,770	11	73,829	89	82,599	100
Biharamulo	3,059	10	28,703	90	31,762	100
Ngara	9,917	19	42,242	81	52,159	100
Bukoba Urban	805	12	6,097	88	6,902	100
Missenyi	1,565	4	35,718	96	37,283	100
Chato	4,382	11	36,894	89	41,276	100
Total	40,993	10	364,917	90	405,910	100

6.10: 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
Karagwe	6,284	931	0	23,973	13,034	233	7,448	698
Bukoba Rural	737	884	0	0	0	1,915	14,438	884
Muleba	28,349	21,007	0	0	408	1,632	23,862	1,632
Biharamulo	1,255	14,273	0	0	0	2,274	4,705	392
Ngara	6,182	11,720	0	129	1,803	28,204	26,015	1,288
Bukoba Urban	0	2,933	0	0	0	0	4,314	0
Missenyi	1,105	1,105	92	0	0	184	2,393	552
Chato	8,459	99,368	611	0	1,325	1,529	4,280	139,421
Total	52,370	152,220	704	24,102	16,570	35,971	87,456	144,867

AGRICULTURE CREDITS

7.1: Number of Agriculture Households receiving Credit by District During the 2007/08 Agriculture Year

District	Households Receiving Credit					
	borrowed money for agriculture		Did not borrow money for agriculture		Total	
	Number	%	Number	%	Number	%
Karagwe	1,396	1.5	92,866	98.5	94,263	100
Bukoba Rural	884	1.5	58,783	98.5	59,667	100
Muleba	1,428	1.7	81,171	98.3	82,599	100
Biharamulo	627	2.0	31,135	98.0	31,762	100
Ngara	258	0.5	51,901	99.5	52,159	100
Bukoba Urban	0	0.0	6,902	100.0	6,902	100
Missenyi	368	1.0	36,914	99.0	37,283	100
Chato	815	2.0	40,461	98.0	41,276	100
Total	5,777	1.4	400,133	98.6	405,910	100

7.2: Number of Credits by sex of the household Member receiving credit During the 2007/08 Agriculture Year

District	Male		Female		Total	
	Number	%	Number	%	Number	%
Karagwe	1,164	83	233	17	1,396	100
Bukoba Rural	295	33	589	67	884	100
Muleba	816	57	612	43	1,428	100
Biharamulo	471	75	157	25	627	100
Ngara	258	100	0	0	258	100
Missenyi	184	50	184	50	368	100
Chato	510	63	306	38	815	100
Total	3,696	64	2,081	36	5,777	100

7.3: Number of Households receiving Credits by Main Source of credit and District During the 2007/08 Agriculture Year

District	Family, friend or relative		Bank		Cooperative		Savings & credit Soc		Trader/trade store	
	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	1,164	83.3	0	0.0	0	0.0	233	16.7	0	0.0
Bukoba Rural	147	16.7	0	0.0	0	0.0	295	33.3	0	0.0
Muleba	204	14.3	0	0.0	0	0.0	204	14.3	0	0.0
Biharamulo	0	0.0	157	25.0	157	25.0	235	37.5	0	0.0
Ngara	0	0.0	258	100.0	0	0.0	0	0.0	0	0.0
Bukoba Urban	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Missenyi	92	25.0	92	25.0	0	0.0	0	0.0	0	0.0
Chato	306	37.5	0	0.0	0	0.0	102	12.5	102	12.5
Total	1,913	33.1	506	8.8	157	2.7	1,069	18.5	102	1.8

Cont..7.3: Number of Households receiving Credits by Main Source of credit and District During the 2007/08 Agriculture Year

District	Private individual		NGO/Development Project		Other		Total	
	Number	%	Number	%	Number	%	Number	%
Karagwe	0	0.0	0	0.0	0	0.0	1,396	100
Bukoba Rural	0	0.0	442	50.0	0	0.0	884	100
Muleba	0	0.0	1,020	71.4	0	0.0	1,428	100
Biharamulo	0	0.0	78	12.5	0	0.0	627	100
Ngara	0	0.0	0	0.0	0	0.0	258	100
Bukoba Urban	0	0.0	0	0.0	0	0.0	0	0.0
Missenyi	92	25.0	92	25.0	0	0.0	368	100
Chato	204	25.0	102	12.5	0	0.0	815	100
Total	296	5.1	1,734	30.0	0	0.0	5,777	100

7.4: Number of Households Reporting the Main reasons for Not Using Credit by District During the 2007/08 Agriculture Year

District	Not needed		Not available		Did not want to go into debt		Interest rate/cost too high		Did not know how to get credit	
	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	6,051	6.5	9,310	10.0	11,405	12.3	6,982	7.5	30,490	32.8
Bukoba Rural	4,272	7.3	4,272	7.3	15,764	26.8	2,505	4.3	24,014	40.9
Muleba	8,566	10.6	5,914	7.3	9,382	11.6	4,691	5.8	31,408	38.7
Biharamulo	2,823	9.1	3,686	11.8	3,686	11.8	1,255	4.0	9,254	29.7
Ngara	1,803	3.5	4,508	8.7	3,348	6.5	644	1.2	23,697	45.7
Bukoba Urban	1,380	20.0	978	14.2	1,380	20.0	345	5.0	1,265	18.3
Missenyi	1,749	4.7	7,917	21.4	4,879	13.2	1,841	5.0	12,612	34.2
Chato	1,834	4.5	6,828	16.9	4,280	10.6	1,936	4.8	13,147	32.5
Total	28,480	7.1	43,413	10.8	54,124	13.5	20,199	5.0	145,887	36.5

Cont...7.4: 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	
	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	3,957	4.3	931	1.0	465	0.5	23,275	25.1	92,866	100
Bukoba Rural	2,799	4.8	884	1.5	147	0.3	4,125	7.0	58,783	100
Muleba	4,895	6.0	1,224	1.5	204	0.3	14,888	18.3	81,171	100
Biharamulo	1,255	4.0	157	0.5	0	0.0	9,019	29.0	31,135	100
Ngara	644	1.2	773	1.5	515	1.0	15,970	30.8	51,901	100
Bukoba Urban	58	0.8	58	0.8	58	0.8	1,380	20.0	6,902	100
Missenyi	1,841	5.0	276	0.7	184	0.5	5,615	15.2	36,914	100
Chato	1,427	3.5	510	1.3	102	0.3	10,395	25.7	40,461	100
Total	16,875	4.2	4,811	1.2	1,675	0.4	84,668	21.2	400,133	100

CROP EXTENSION

8.1: Number of Agriculture Households that received Crop Advice During the 2007/08 Agriculture Year

District	Households that received Crop Advices		Households that did NOT receive Crop advices		Crop Growing Households
	Number	%	Number	%	
Karagwe	55,859	61.7	34,679	38.3	90,539
Bukoba Rural	40,220	67.6	19,300	32.4	59,520
Muleba	49,151	59.5	33,447	40.5	82,599
Biharamulo	20,155	63.5	11,607	36.5	31,762
Ngara	22,667	43.5	29,492	56.5	52,159
Bukoba Urban	2,991	43.7	3,853	56.3	6,844
Missenyi	16,110	43.5	20,897	56.5	37,006
Chato	19,364	47.0	21,810	53.0	41,174
Total	226,517	56.4	175,086	43.6	401,603

8.2: Number of Agriculture Households Participated in Out Grower Agreement During the 2007/08 Agriculture Year -

District	Number of Households Participated in Out Grower Agreement		Number of Households NOT Participated in Out Grower Agreement		Total Number of Households	
	Number	%	Number	%	Number	%
Karagwe	3,026	3.2	91,237	96.8	94,263	100
Bukoba Rural	1,473	2.5	58,194	97.5	59,667	100
Muleba	1,632	2.0	80,967	98.0	82,599	100
Biharamulo	157	0.5	31,605	99.5	31,762	100
Ngara	0	0.0	52,159	100.0	52,159	100
Bukoba Urban	288	4.2	6,614	95.8	6,902	100
Missenyi	1,841	4.9	35,441	95.1	37,283	100
Chato	306	0.7	40,970	99.3	41,276	100
Total	8,722	2.1	397,188	97.9	405,910	100

8.3: Number of Agriculture Households Participated in Contract Production Agreement During the 2007/08

District	Number of Hholds Participated in Production Agreement		Number of Hholds NOT Participated in Production Agreement		Total Number of Households	
	Number	%	Number	%	Number	%
Karagwe	233	0.2	94,030	99.8	94,263	100
Bukoba Rural	442	0.7	59,225	99.3	59,667	100
Muleba	612	0.7	81,987	99.3	82,599	100
Biharamulo	157	0.5	31,605	99.5	31,762	100
Ngara	773	1.5	51,386	98.5	52,159	100
Bukoba Urban	115	1.7	6,787	98.3	6,902	100
Missenyi	184	0.5	37,098	99.5	37,283	100
Chato	204	0.5	41,072	99.5	41,276	100
Total	2,719	0.7	403,191	99.3	405,910	100

8.4: Number of Agriculture Households By Source of Extension Messages and District During the 2007/08 Agriculture Year

District	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/ NewsPaper		Neighbour		Other (Specify)		Total Households that received advices
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Karagwe	42,826	76.7	8,844	15.8	698	1.2	2,327	4.2	9,775	17.5	11,637	20.8	931	1.7	55,859
Bukoba Rural	30,497	75.8	9,282	23.1	589	1.5	295	0.7	1,915	4.8	12,523	31.1	147	0.4	40,220
Muleba	42,421	86.3	4,079	8.3	612	1.2	1,428	2.9	7,138	14.5	14,888	30.3	408	0.8	49,151
Biharamulo	16,469	81.7	1,647	8.2	78	0.4	0	0.0	392	1.9	5,411	26.8	0	0.0	20,155
Ngara	14,038	61.9	7,212	31.8	258	1.1	386	1.7	6,955	30.7	9,917	43.7	1,159	5.1	22,667
Bukoba Urban	1,035	34.6	460	15.4	58	1.9	0	0.0	1,265	42.3	920	30.8	115	3.8	2,991
Missenyi	15,373	95.4	3,222	20.0	368	2.3	1,289	8.0	2,946	18.3	1,749	10.9	184	1.1	16,110
Chato	13,861	71.6	1,529	7.9	917	4.7	510	2.6	2,854	14.7	5,198	26.8	611	3.2	19,364
Total	176,519	77.9	36,275	16.0	3,578	1.6	6,234	2.8	33,240	14.7	62,243	27.5	3,556	1.6	226,517

8.5: Number of households receiving extension advice on Spacing by District during the 2007/08 agriculture year

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Karagwe	29,326	74.1	3,026	7.6	0	0.0	465	1.2	4,189	10.6	2,560	6.5	0	0.0	39,567
Bukoba Rural	24,014	84.5	2,063	7.3	0	0.0	0	0.0	295	1.0	2,063	7.3	0	0.0	28,434
Muleba	27,737	80.0	612	1.8	0	0.0	204	0.6	1,836	5.3	4,283	12.4	0	0.0	34,671
Biharamulo	15,528	94.7	392	2.4	78	0.5	0	0.0	0	0.0	392	2.4	0	0.0	16,391
Ngara	9,659	62.5	1,803	11.7	129	0.8	258	1.7	1,288	8.3	2,189	14.2	129	0.8	15,455
Bukoba Urban	690	60.0	173	15.0	0	0.0	0	0.0	0	0.0	288	25.0	0	0.0	1,150
Missenyi	13,900	92.1	368	2.4	92	0.6	0	0.0	368	2.4	276	1.8	92	0.6	15,097
Chato	10,293	74.3	815	5.9	0	0.0	0	0.0	713	5.1	1,631	11.8	408	2.9	13,861
Total	131,148	79.7	9,251	5.6	299	0.2	927	0.6	8,689	5.3	13,682	8.3	629	0.4	164,625

8.6: Number of households receiving extension advice Agrochemicals by District during the 2007/08 agriculture year

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Karagwe	13,267	62.6	2,560	12.1	233	1.1	0	0.0	4,422	20.9	698	3.3	0	0.0	21,180
Bukoba Rural	11,639	76.0	1,768	11.5	0	0.0	0	0.0	147	1.0	1,768	11.5	0	0.0	15,322
Muleba	19,579	88.9	612	2.8	0	0.0	0	0.0	612	2.8	1,224	5.6	0	0.0	22,026
Biharamulo	9,725	87.9	392	3.5	78	0.7	0	0.0	78	0.7	784	7.1	0	0.0	11,058
Ngara	3,992	54.4	1,545	21.1	0	0.0	129	1.8	773	10.5	773	10.5	129	1.8	7,341
Bukoba Urban	403	63.6	58	9.1	0	0.0	0	0.0	115	18.2	58	9.1	0	0.0	633
Missenyi	7,549	90.1	368	4.4	0	0.0	184	2.2	0	0.0	184	2.2	92	1.1	8,377
Chato	8,255	80.2	611	5.9	204	2.0	102	1.0	306	3.0	510	5.0	306	3.0	10,293
Total	74,408	77.3	7,915	8.2	515	0.5	415	0.4	6,453	6.7	5,998	6.2	527	0.5	96,230

8.7: Number of households receiving extension advice on Erosion Control by District during the 2007/08 agriculture year

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Karagwe	15,361	62.3	2,560	10.4	0	0.0	465	1.9	4,422	17.9	1,862	7.5	0	0.0	24,671
Bukoba Rural	13,112	73.0	2,357	13.1	0	0.0	0	0.0	442	2.5	2,063	11.5	0	0.0	17,974
Muleba	24,882	83.6	1,020	3.4	0	0.0	408	1.4	816	2.7	2,447	8.2	204	0.7	29,776
Biharamulo	7,607	77.6	78	0.8	78	0.8	0	0.0	0	0.0	2,039	20.8	0	0.0	9,803
Ngara	6,182	51.6	3,220	26.9	129	1.1	0	0.0	1,159	9.7	1,030	8.6	258	2.2	11,977
Bukoba Urban	460	66.7	58	8.3	0	0.0	0	0.0	115	16.7	58	8.3	0	0.0	690
Missenyi	9,850	87.7	368	3.3	92	0.8	184	1.6	368	3.3	276	2.5	92	0.8	11,231
Chato	7,542	80.4	510	5.4	0	0.0	0	0.0	510	5.4	713	7.6	102	1.1	9,376
Total	84,996	73.6	10,171	8.8	299	0.3	1,058	0.9	7,832	6.8	10,488	9.1	655	0.6	115,499

8.8: Number of households receiving extension advice on Organic Fertilizer use by District during the 2007/08 agriculture year

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Karagwe	21,413	64.8	3,026	9.2	0	0.0	931	2.8	5,353	16.2	2,095	6.3	233	0.7	33,050
Bukoba Rural	20,626	71.8	2,063	7.2	0	0.0	0	0.0	884	3.1	5,009	17.4	147	0.5	28,729
Muleba	26,921	76.7	816	2.3	0	0.0	0	0.0	2,039	5.8	5,303	15.1	0	0.0	35,079
Biharamulo	13,097	82.7	549	3.5	0	0.0	0	0.0	157	1.0	2,039	12.9	0	0.0	15,842
Ngara	5,538	45.3	3,091	25.3	0	0.0	129	1.1	1,932	15.8	1,288	10.5	258	2.1	12,235
Bukoba Urban	748	65.0	58	5.0	0	0.0	0	0.0	0	0.0	230	20.0	115	10.0	1,150
Missenyi	10,494	82.6	829	6.5	92	0.7	276	2.2	644	5.1	276	2.2	92	0.7	12,704
Chato	7,338	75.8	713	7.4	0	0.0	102	1.1	510	5.3	1,019	10.5	0	0.0	9,682
Total	106,174	71.5	11,143	7.5	92	0.1	1,438	1.0	11,519	7.8	17,259	11.6	845	0.6	148,470

8.9: Number of households receiving extension advice on Inorganic Fertilizer use by District during the 2007/08 agriculture year

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Karagwe	11,405	57.6	1,629	8.2	0	0.0	233	1.2	4,888	24.7	1,164	5.9	465	2.4	19,784
Bukoba Rural	8,103	72.4	1,031	9.2	147	1.3	0	0.0	295	2.6	1,621	14.5	0	0.0	11,197
Muleba	12,645	73.8	1,224	7.1	0	0.0	408	2.4	1,020	6.0	1,836	10.7	0	0.0	17,132
Biharamulo	9,019	94.3	235	2.5	78	0.8	0	0.0	0	0.0	235	2.5	0	0.0	9,568
Ngara	3,864	53.6	773	10.7	0	0.0	129	1.8	2,061	28.6	386	5.4	0	0.0	7,212
Bukoba Urban	460	40.0	115	10.0	0	0.0	0	0.0	518	45.0	58	5.0	0	0.0	1,150
Missenyi	5,707	83.8	460	6.8	0	0.0	0	0.0	460	6.8	92	1.4	92	1.4	6,812
Chato	5,096	73.5	510	7.4	102	1.5	0	0.0	611	8.8	611	8.8	0	0.0	6,930
Total	56,298	70.6	5,977	7.5	328	0.4	769	1.0	9,852	12.3	6,003	7.5	558	0.7	79,785

8.10: Number of households receiving extension advice on use of Improved Seeds by District during the 2007/08 agriculture year

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Karagwe	15,827	58.6	3,258	12.1	233	0.9	233	0.9	6,517	24.1	931	3.4	0	0.0	26,999
Bukoba Rural	18,710	73.0	2,799	10.9	147	0.6	147	0.6	589	2.3	3,241	12.6	0	0.0	25,635
Muleba	20,395	80.0	816	3.2	408	1.6	204	0.8	2,243	8.8	1,428	5.6	0	0.0	25,493
Biharamulo	14,509	93.4	784	5.1	78	0.5	0	0.0	0	0.0	157	1.0	0	0.0	15,528
Ngara	5,538	56.6	902	9.2	0	0.0	0	0.0	2,833	28.9	386	3.9	129	1.3	9,788
Bukoba Urban	690	32.4	230	10.8	0	0.0	0	0.0	748	35.1	460	21.6	0	0.0	2,128
Missenyi	8,929	77.0	1,565	13.5	92	0.8	0	0.0	552	4.8	368	3.2	92	0.8	11,599
Chato	8,663	68.5	917	7.3	713	5.6	102	0.8	1,223	9.7	917	7.3	102	0.8	12,638
Total	93,261	71.8	11,271	8.7	1,672	1.3	686	0.5	14,706	11.3	7,889	6.1	323	0.2	129,807

8.11: Number of households receiving extension advice on Mechanisation/LST by District during the 2007/08 agriculture year

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Karagwe	12,568	58.7	2,327	10.9	0	0.0	0	0.0	5,586	26.1	931	4.3	0	0.0	21,413
Bukoba Rural	5,451	67.3	1,179	14.5	0	0.0	0	0.0	0	0.0	1,473	18.2	0	0.0	8,103
Muleba	12,849	79.7	612	3.8	204	1.3	204	1.3	1,836	11.4	408	2.5	0	0.0	16,112
Biharamulo	7,607	84.3	314	3.5	78	0.9	0	0.0	235	2.6	784	8.7	0	0.0	9,019
Ngara	4,636	63.2	515	7.0	0	0.0	0	0.0	2,189	29.8	0	0.0	0	0.0	7,341
Bukoba Urban	288	29.4	58	5.9	0	0.0	0	0.0	403	41.2	230	23.5	0	0.0	978
Missenyi	3,866	75.0	460	8.9	0	0.0	92	1.8	460	8.9	184	3.6	92	1.8	5,155
Chato	4,790	73.4	713	10.9	0	0.0	102	1.6	408	6.3	510	7.8	0	0.0	6,523
Total	52,056	69.7	6,178	8.3	282	0.4	398	0.5	11,117	14.9	4,520	6.1	92	0.1	74,643

8.12: Number of households receiving extension advice on Irrigation Technology by District during the 2007/08 agriculture year

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Karagwe	5,819	43.1	2,560	19.0	0	0.0	0	0.0	4,888	36.2	233	1.7	0	0.0	13,499
Bukoba Rural	6,482	72.1	442	4.9	0	0.0	0	0.0	147	1.6	1,915	21.3	0	0.0	8,987
Muleba	5,099	71.4	612	8.6	0	0.0	204	2.9	408	5.7	816	11.4	0	0.0	7,138
Biharamulo	3,686	92.2	78	2.0	0	0.0	0	0.0	78	2.0	157	3.9	0	0.0	4,000
Ngara	3,220	52.1	644	10.4	0	0.0	129	2.1	1,159	18.8	1,030	16.7	0	0.0	6,182
Bukoba Urban	173	42.9	58	14.3	0	0.0	0	0.0	173	42.9	0	0.0	0	0.0	403
Missenyi	1,841	76.9	276	11.5	0	0.0	0	0.0	92	3.8	92	3.8	92	3.8	2,393
Chato	2,854	70.0	611	15.0	0	0.0	0	0.0	306	7.5	306	7.5	0	0.0	4,077
Total	29,173	62.5	5,282	11.3	0	0.0	333	0.7	7,251	15.5	4,549	9.7	92	0.2	46,679

8.13: Number of households receiving extension advice on Crop Storage by District during the 2007/08 agriculture year

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Karagwe	13,732	58.4	2,793	11.9	465	2.0	233	1.0	4,655	19.8	1,629	6.9	0	0.0	23,507
Bukoba Rural	11,344	66.4	1,179	6.9	295	1.7	0	0.0	147	0.9	4,125	24.1	0	0.0	17,090
Muleba	18,559	83.5	612	2.8	0	0.0	408	1.8	0	0.0	2,651	11.9	0	0.0	22,230
Biharamulo	11,764	89.3	235	1.8	78	0.6	0	0.0	0	0.0	1,098	8.3	0	0.0	13,175
Ngara	4,379	37.0	1,288	10.9	0	0.0	0	0.0	1,674	14.1	4,250	35.9	258	2.2	11,848
Bukoba Urban	518	69.2	58	7.7	0	0.0	0	0.0	173	23.1	0	0.0	0	0.0	748
Missenyi	5,247	70.4	460	6.2	0	0.0	460	6.2	644	8.6	552	7.4	92	1.2	7,457
Chato	4,586	70.3	815	12.5	0	0.0	0	0.0	306	4.7	815	12.5	0	0.0	6,523
Total	70,129	68.4	7,440	7.3	839	0.8	1,101	1.1	7,599	7.4	15,121	14.7	350	0.3	102,578

8.14: Number of households receiving extension advice on Vermin Control by District during the 2007/08 agriculture year

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Karagwe	20,016	62.8	2,560	8.0	0	0.0	233	0.7	4,655	14.6	4,422	13.9	0	0.0	31,886
Bukoba Rural	10,313	57.4	589	3.3	0	0.0	147	0.8	147	0.8	6,777	37.7	0	0.0	17,974
Muleba	12,645	66.7	816	4.3	0	0.0	0	0.0	1,428	7.5	3,875	20.4	204	1.1	18,967
Biharamulo	3,451	62.9	157	2.9	78	1.4	0	0.0	78	1.4	1,725	31.4	0	0.0	5,490
Ngara	5,152	43.5	1,030	8.7	129	1.1	0	0.0	1,417	12.0	3,864	32.6	258	2.2	11,848
Bukoba Urban	403	63.6	58	9.1	58	9.1	0	0.0	58	9.1	58	9.1	0	0.0	633
Missenyi	7,180	83.9	276	3.2	184	2.2	184	2.2	276	3.2	276	3.2	184	2.2	8,561
Chato	3,873	61.3	510	8.1	0	0.0	102	1.6	204	3.2	1,529	24.2	102	1.6	6,319
Total	63,032	62.0	5,996	5.9	449	0.4	666	0.7	8,263	8.1	22,526	22.2	748	0.7	101,678

8.15: Number of households receiving extension advice on Other messages by District during the 2007/08 agriculture year

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Karagwe	7,913	66.7	465	3.9	233	2.0	0	0.0	1,396	11.8	1,629	13.7	233	2.0	11,870
Bukoba Rural	3,241	45.8	3,241	45.8	0	0.0	0	0.0	0	0.0	589	8.3	0	0.0	7,072
Muleba	4,691	52.3	612	6.8	0	0.0	0	0.0	612	6.8	2,855	31.8	204	2.3	8,974
Biharamulo	2,666	97.1	0	0.0	0	0.0	0	0.0	78	2.9	0	0.0	0	0.0	2,745
Ngara	3,992	56.4	258	3.6	0	0.0	0	0.0	1,159	16.4	1,545	21.8	129	1.8	7,083
Bukoba Urban	173	60.0	0	0.0	0	0.0	0	0.0	115	40.0	0	0.0	0	0.0	288
Missenyi	2,025	81.5	276	11.1	0	0.0	0	0.0	0	0.0	92	3.7	92	3.7	2,486
Chato	1,529	55.6	306	11.1	0	0.0	0	0.0	408	14.8	510	18.5	0	0.0	2,752
Total	26,231	60.6	5,158	11.9	233	0.5	0	0.0	3,769	8.7	7,221	16.7	658	1.5	43,268

AGRICULTURE CONSTRAINTS

9. 1: Number of Agricultural Households Reporting the FIRST most important Constraint by District, 2007/08 Agricultural Year

District	Constraint																	
	Access to Land		Ownership of Land		Poor Soil Cultivation Equipment		Soil Fertility		Access to Improved Seed		Irrigation Facilities		Access to Chemical Inputs		Cost of Inputs		Extension Services	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	26,766	28.4	2,793	3.0	16,292	17.3	6,051	6.4	3,491	3.7	698	.7	1,862	2.0	3,957	4.2	3,724	4.0
Bukoba Rural	6,188	10.4	295	.5	11,197	18.8	21,215	35.6	1,473	2.5	147	.2	737	1.2	2,210	3.7	1,179	2.0
Muleba	16,724	20.2	4,079	4.9	13,664	16.5	15,500	18.8	2,447	3.0	1,428	1.7	612	.7	4,079	4.9	4,691	5.7
Biharamulo	3,372	10.6	1,176	3.7	14,822	46.7	2,274	7.2	863	2.7	0	.0	627	2.0	3,529	11.1	1,568	4.9
Ngara	5,538	10.6	773	1.5	12,492	24.0	4,894	9.4	4,636	8.9	129	.2	1,803	3.5	2,318	4.4	5,795	11.1
Bukoba Urban	1,438	20.8	403	5.8	1,035	15.0	805	11.7	288	4.2	115	1.7	0	.0	460	6.7	288	4.2
Missenyi	2,301	6.2	276	.7	12,796	34.3	6,536	17.5	1,013	2.7	0	.0	92	.2	829	2.2	3,866	10.4
Chato	13,861	33.6	2,650	6.4	13,657	33.1	2,242	5.4	1,121	2.7	713	1.7	306	.7	1,223	3.0	917	2.2
Total	76,187	18.8	12,444	3.1	95,956	23.6	59,518	14.7	15,332	3.8	3,230	.8	6,039	1.5	18,604	4.6	22,028	5.4

...cont. 9. 1: Number of Agricultural Households Reporting the FIRST most important Constraint by District, 2007/08 Agricultural Year

District	Constraint																	
	Access to Forest Resources		Access to Potable Water		Access to Credit		Access to Off Farm Income		Threshing		Crop Storage		Crop Processing		Marketing Information		Higher Transport Costs	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	0	.0	4,655	4.9	4,655	4.9	2,560	2.7	233	.2	931	1.0	233	.2	3,258	3.5	698	.7
Bukoba Rural	147	.2	1,621	2.7	3,536	5.9	1,179	2.0	0	.0	295	.5	147	.2	295	.5	0	.0
Muleba	0	.0	204	.2	7,138	8.6	1,428	1.7	0	.0	0	.0	0	.0	0	.0	408	.5
Biharamulo	0	.0	78	.2	863	2.7	314	1.0	0	.0	157	.5	0	.0	0	.0	0	.0
Ngara	129	.2	258	.5	3,606	6.9	644	1.2	0	.0	0	.0	0	.0	644	1.2	0	.0
Bukoba Urban	0	.0	0	.0	115	1.7	173	2.5	0	.0	0	.0	0	.0	58	.8	0	.0
Missenyi	0	.0	644	1.7	3,590	9.6	368	1.0	0	.0	0	.0	92	.2	276	.7	460	1.2
Chato	0	.0	204	.5	1,325	3.2	510	1.2	0	.0	0	.0	0	.0	0	.0	0	.0
Total	276	.1	7,664	1.9	24,828	6.1	7,174	1.8	233	.1	1,382	.3	472	.1	4,531	1.1	1,566	.4

...cont. 9.1: Number of Agricultural Households Reporting the FIRST most important Constraint by District, 2007/08 Agricultural Year

District	Constraint													
	Destruction by Animals		Stealing		Pest and Disease		Local Government Taxation		Extended dry spell		Crop Farmers/Livestock keepers Conflicts		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	2,095	2.2	1,164	1.2	2,095	2.2	0	.0	3,491	3.7	2,560	2.7	94,263	100.0
Bukoba Rural	2,947	4.9	737	1.2	2,210	3.7	0	.0	1,915	3.2	0	.0	59,667	100.0
Muleba	1,020	1.2	1,020	1.2	5,099	6.2	0	.0	1,836	2.2	1,224	1.5	82,599	100.0
Biharamulo	706	2.2	235	.7	549	1.7	0	.0	392	1.2	235	.7	31,762	100.0
Ngara	515	1.0	515	1.0	902	1.7	0	.0	6,439	12.3	129	.2	52,159	100.0
Bukoba Urban	748	10.8	0	.0	978	14.2	0	.0	0	.0	0	.0	6,902	100.0
Missenyi	2,762	7.4	184	.5	921	2.5	0	.0	276	.7	0	.0	37,283	100.0
Chato	102	.2	102	.2	306	.7	102	.2	1,529	3.7	408	1.0	41,276	100.0
Total	10,893	2.7	3,957	1.0	13,058	3.2	102	.0	15,878	3.9	4,556	1.1	405,910	100.0

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

District	Constraint																	
	Access to Land		Ownership of Land		Poor Soil Cultivation Equipment		Soil Fertility		Access to Improved Seed		Irrigation Facilities		Access to Chemical Inputs		Cost of Inputs		Extension Services	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	3,724	4.0	5,120	5.4	18,620	19.8	9,310	9.9	10,474	11.1	2,327	2.5	3,491	3.7	5,353	5.7	6,051	6.4
Bukoba Rural	1,473	2.5	1,031	1.7	6,482	10.9	14,880	24.9	5,304	8.9	589	1.0	1,915	3.2	5,451	9.1	1,915	3.2
Muleba	4,283	5.2	3,875	4.7	10,401	12.6	17,743	21.5	5,099	6.2	2,447	3.0	1,428	1.7	6,730	8.1	5,099	6.2
Biharamulo	1,412	4.4	706	2.2	6,509	20.5	2,431	7.7	7,607	24.0	235	.7	1,882	5.9	3,921	12.3	2,196	6.9
Ngara	1,030	2.0	2,189	4.2	8,500	16.3	6,311	12.1	6,955	13.3	258	.5	4,894	9.4	6,182	11.9	6,955	13.3
Bukoba Urban	58	.8	575	8.3	1,495	21.7	1,955	28.3	518	7.5	58	.8	115	1.7	460	6.7	403	5.8
Missenyi	736	2.0	552	1.5	3,038	8.1	9,298	24.9	3,682	9.9	92	.2	921	2.5	3,958	10.6	2,025	5.4
Chato	1,631	4.0	2,956	7.2	10,090	24.4	4,484	10.9	4,179	10.1	1,529	3.7	713	1.7	5,198	12.6	1,733	4.2
Total	14,347	3.5	17,005	4.2	65,136	16.0	66,412	16.4	43,816	10.8	7,535	1.9	15,359	3.8	37,254	9.2	26,376	6.5

...cont. 9.2 : Number of Agricultural Households Reporting the SECOND most important Constraint by District, 2007/08 Agricultural Year

District	Constraint																	
	Access to Forest Resources		Hunting and Gathering		Access to Potable Water		Access to Credit		Access to Off Farm Income		Threshing		Harvesting		Crop Storage		Crop Processing	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	0	.0	233	.2	4,422	4.7	7,913	8.4	2,095	2.2	698	.7	0	.0	1,396	1.5	0	.0
Bukoba Rural	0	.0	0	.0	1,473	2.5	4,420	7.4	737	1.2	0	.0	0	.0	0	.0	147	.2
Muleba	408	.5	0	.0	204	.2	8,566	10.4	2,039	2.5	204	.2	204	.2	408	.5	612	.7
Biharamulo	0	.0	0	.0	235	.7	1,098	3.5	784	2.5	0	.0	0	.0	78	.2	0	.0
Ngara	0	.0	0	.0	129	.2	3,091	5.9	1,417	2.7	0	.0	129	.2	129	.2	0	.0
Bukoba Urban	0	.0	0	.0	115	1.7	403	5.8	0	.0	0	.0	0	.0	0	.0	0	.0
Missenyi	0	.0	0	.0	644	1.7	3,498	9.4	1,473	4.0	0	.0	92	.2	92	.2	184	.5
Chato	204	.5	0	.0	713	1.7	2,344	5.7	1,733	4.2	0	.0	0	.0	102	.2	102	.2
Total	612	.2	233	.1	7,936	2.0	31,333	7.7	10,277	2.5	902	.2	425	.1	2,206	.5	1,045	.3

...cont. 9.2 : Number of Agricultural Households Reporting the SECOND most important Constraint by District, 2007/08 Agricultural Year

District	Constraint																	
	Marketing Information		Higher Transport Costs		Destruction by Animals		Stealing		Pest and Disease		Local Government Taxation		Extended dry spell		Crop Farmers/Livestock keepers Conflicts		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	2,793	3.0	698	.7	1,629	1.7	1,164	1.2	2,793	3.0	0	.0	2,560	2.7	1,396	1.5	94,263	100.0
Bukoba Rural	589	1.0	147	.2	2,799	4.7	1,326	2.2	7,219	12.1	0	.0	1,768	3.0	0	.0	59,667	100.0
Muleba	1,020	1.2	816	1.0	1,632	2.0	1,224	1.5	5,507	6.7	204	.2	1,632	2.0	816	1.0	82,599	100.0
Biharamulo	0	.0	78	.2	784	2.5	0	.0	627	2.0	0	.0	1,098	3.5	78	.2	31,762	100.0
Ngara	386	.7	258	.5	902	1.7	644	1.2	644	1.2	0	.0	1,159	2.2	0	.0	52,159	100.0
Bukoba Urban	58	.8	0	.0	288	4.2	0	.0	403	5.8	0	.0	0	.0	0	.0	6,902	100.0
Missenyi	644	1.7	0	.0	921	2.5	460	1.2	4,235	11.4	0	.0	736	2.0	0	.0	37,283	100.0
Chato	102	.2	204	.5	408	1.0	102	.2	1,121	2.7	102	.2	815	2.0	713	1.7	41,276	100.0
Total	5,592	1.4	2,201	.5	9,362	2.3	4,919	1.2	22,548	5.6	306	.1	9,769	2.4	3,004	.7	405,910	100.0

Table 9.3: 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		Access to Improved Seed		Irrigation Facilities		Access to Chemical Inputs		Cost of Inputs		Extension Services	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	2,560	2.7	1,629	1.7	11,172	11.9	7,215	7.7	9,077	9.6	1,396	1.5	4,655	4.9	6,517	6.9	8,844	9.4
Bukoba Rural	1,621	2.7	147	.2	4,272	7.2	3,978	6.7	8,103	13.6	1,473	2.5	2,947	4.9	7,808	13.1	6,482	10.9
Muleba	3,059	3.7	1,428	1.7	8,770	10.6	10,605	12.8	5,303	6.4	2,243	2.7	2,651	3.2	9,993	12.1	4,079	4.9
Biharamulo	863	2.7	627	2.0	2,353	7.4	1,490	4.7	3,451	10.9	549	1.7	3,843	12.1	7,607	24.0	3,451	10.9
Ngara	515	1.0	258	.5	6,697	12.8	3,992	7.7	8,500	16.3	515	1.0	6,439	12.3	6,568	12.6	6,955	13.3
Bukoba Urban	288	4.2	115	1.7	1,035	15.0	1,438	20.8	748	10.8	58	.8	230	3.3	518	7.5	1,323	19.2
Missenyi	552	1.5	184	.5	2,117	5.7	3,498	9.4	6,904	18.5	184	.5	1,013	2.7	3,682	9.9	2,301	6.2
Chato	510	1.2	408	1.0	3,975	9.6	4,484	10.9	4,790	11.6	1,223	3.0	2,140	5.2	7,746	18.8	2,956	7.2
Total	9,967	2.5	4,796	1.2	40,391	10.0	36,701	9.0	46,875	11.5	7,642	1.9	23,918	5.9	50,439	12.4	36,391	9.0

...cont. 9.3 : Number of Agricultural Households Reporting the THIRD most important Constraint by District, 2007/08 Agricultural Year

District	Constraint																	
	Access to Forest Resources		Hunting and Gathering		Access to Potable Water		Access to Credit		Access to Off Farm Income		Threshing		Harvesting		Crop Storage		Crop Processing	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	0	.0	0	.0	5,819	6.2	11,172	11.9	1,862	2.0	465	.5	0	.0	2,095	2.2	233	.2
Bukoba Rural	0	.0	0	.0	1,915	3.2	6,040	10.1	1,031	1.7	0	.0	0	.0	147	.2	147	.2
Muleba	204	.2	204	.2	408	.5	8,770	10.6	2,855	3.5	408	.5	408	.5	408	.5	4,487	5.4
Biharamulo	0	.0	0	.0	627	2.0	2,745	8.6	392	1.2	0	.0	0	.0	549	1.7	78	.2
Ngara	0	.0	0	.0	0	.0	4,636	8.9	1,159	2.2	0	.0	129	.2	258	.5	129	.2
Bukoba Urban	0	.0	0	.0	0	.0	288	4.2	0	.0	0	.0	0	.0	0	.0	58	.8
Missenyi	92	.2	0	.0	1,013	2.7	5,339	14.3	3,130	8.4	0	.0	92	.2	184	.5	736	2.0
Chato	102	.2	204	.5	815	2.0	4,790	11.6	815	2.0	0	.0	0	.0	408	1.0	102	.2
Total	398	.1	408	.1	10,597	2.6	43,780	10.8	11,245	2.8	873	.2	629	.2	4,048	1.0	5,970	1.5

...cont. 9.3 : Number of Agricultural Households Reporting the THIRD most important Constraint by District, 2007/08 Agricultural Year

District	Constraint																	
	Marketing Information		Higher Transport Costs		Destruction by Animals		Stealing		Pest and Disease		Local Government Taxation		Extended dry spell		Crop Farmers/Livestock keepers Conflicts		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	4,189	4.4	2,327	2.5	1,396	1.5	1,396	1.5	5,586	5.9	233	.2	3,957	4.2	465	.5	94,263	100.0
Bukoba Rural	2,652	4.4	442	.7	2,063	3.5	1,915	3.2	4,420	7.4	0	.0	1,768	3.0	295	.5	59,667	100.0
Muleba	408	.5	1,836	2.2	3,059	3.7	2,651	3.2	5,507	6.7	0	.0	2,651	3.2	204	.2	82,599	100.0
Biharamulo	235	.7	0	.0	157	.5	0	.0	863	2.7	0	.0	1,725	5.4	157	.5	31,762	100.0
Ngara	515	1.0	386	.7	386	.7	1,030	2.0	1,288	2.5	129	.2	1,545	3.0	129	.2	52,159	100.0
Bukoba Urban	58	.8	0	.0	115	1.7	115	1.7	518	7.5	0	.0	0	.0	0	.0	6,902	100.0
Missenyi	552	1.5	92	.2	1,197	3.2	736	2.0	2,762	7.4	0	.0	921	2.5	0	.0	37,283	100.0
Chato	408	1.0	0	.0	1,936	4.7	408	1.0	815	2.0	0	.0	2,038	4.9	204	.5	41,276	100.0
Total	9,017	2.2	5,083	1.3	10,310	2.5	8,252	2.0	21,757	5.4	362	.1	14,606	3.6	1,454	.4	405,910	100.0

LIVESTOCK PRODUCTION

9.4: Total Number of Households Rearing Cattle by District during 2007/08 Agriculture Year

District	Households rearing cattle		Households not rearing cattle		Total Agriculture households	Total Number of Households Rearing Livestock
	Number	%	Number	%		
Karagwe	14,896	15.8	79,367	84.2	94,263	26,068
Bukoba Rural	6,482	10.9	53,185	89.1	59,667	11,786
Muleba	9,178	11.1	73,421	88.9	82,599	18,355
Biharamulo	5,176	16.3	26,586	83.7	31,762	11,921
Ngara	6,311	12.1	45,848	87.9	52,159	20,606
Bukoba Urban	1,208	17.5	5,694	82.5	6,902	1,553
Missenyi	4,327	11.6	32,956	88.4	37,283	10,586
Chato	9,988	24.2	31,288	75.8	41,276	15,797
Total	57,565	14.2	348,345	85.8	405,910	116,672

9.5: Number of Cattle by Type and District as of 1st October 2008

District	Indigenous			Beef			Improved Dairy			Total		
	Number of households	Number of Cattle	%	Number of households	Number of Cattle	%	Number of households	Number of Cattle	%	Number of households	Number of Cattle	%
Karagwe	10,008	307,925	96.8	0	0	0.0	5,819	10,241	3.2	15,827	318,166	100
Bukoba Rural	5,451	33,885	92.4	0	0	0.0	1,326	2,799	7.6	6,777	36,684	100
Muleba	6,322	57,717	93.4	0	0	0.0	3,059	4,079	6.6	9,382	61,796	100
Biharamulo	5,019	76,856	99.3	0	0	0.0	157	549	0.7	5,176	77,405	100
Ngara	5,795	48,295	95.9	129	129	0.3	1,030	1,932	3.8	6,955	50,356	100
Bukoba Urban	690	3,681	72.7	0	0	0.0	575	1,380	27.3	1,265	5,061	100
Missenyi	3,314	157,967	98.4	0	0	0.0	1,105	2,578	1.6	4,419	160,545	100
Chato	9,886	126,885	99.8	0	0	0.0	204	306	0.2	10,090	127,191	100
Total	46,486	813,212	97.1	129	129	0.0	13,275	23,863	2.9	59,890	837,204	100

9.6: Number of Households rearing cattle, Head of Cattle and Average Head per Household by Herd size During the 2007/08 Agricultural Year - Kagera

Herd size	Cattle Rearing Households	%	Herd of Cattle	Average Per Household
1 - 5	28,619	49.7	68,673	2.4
6 - 10	12,437	21.6	97,299	7.8
11 - 15	4,872	8.5	60,866	12.5
16 - 20	3,620	6.3	66,332	18.3
21 - 30	1,945	3.4	50,175	25.8
31 - 40	1,740	3.0	64,027	36.8
41 - 50	902	1.6	42,607	47.2
51 - 60	934	1.6	50,253	53.8
61 -100	1,781	3.1	132,666	74.5
101 -150	313	0.5	37,254	119.1
151+	403	0.7	167,052	414.3
Total	57,565	100.0	837,204	14.5

9.7: Total Number of Cattle by Cattle Types and Category, 2007/08 Agricultural Year- Kagera

Cattle Types	Indigenous	Improved		Total Cattle	%
		Beef	Diary		
Castrated Bulls (Oxen)	57,143	0	987	58,130	7
Uncastrated Bulls	69,258	129	2,857	72,243	9
Cows	379,585	0	9,982	389,567	47
Steers	13,060	0	947	14,007	2
Heifers	126,077	0	4,263	130,340	16
Male Calves	67,974	0	1,969	69,944	8
Female Calves	100,115	0	2,859	102,974	12
Total	813,212	129	23,863	837,204	100

9.8: 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	%
Karagwe	13,965	9	18,620	15	148,260	21	5,120	9	55,859	14	27,697	14	38,403	17	307,925	100
Bukoba Rural	2,505	9	5,746	19	14,880	29	737	3	4,714	16	1,915	10	3,389	14	33,885	100
Muleba	3,263	7	8,362	20	23,046	25	408	1	8,566	17	4,895	15	9,178	16	57,717	100
Biharamulo	6,588	10	5,803	15	31,762	23	1,176	4	13,254	16	7,764	17	10,509	15	76,856	100
Ngara	2,576	2	3,477	15	20,992	31	1,932	1	8,371	19	5,667	16	5,280	15	48,295	100
Bukoba Urban	230	6	403	23	1,208	23	288	6	805	16	403	16	345	10	3,681	100
Missenyi	2,946	9	9,114	23	100,709	30	1,565	4	16,570	10	9,850	10	17,214	15	157,967	100
Chato	25,071	16	17,733	18	38,728	22	1,834	3	17,937	14	9,784	13	15,797	14	126,885	100
Total	57,143	10	69,258	17	379,585	24	13,060	5	126,077	15	67,974	14	100,115	15	813,212	100

9.9: Total Number of 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	%
Karagwe	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bukoba Rural	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Muleba	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Biharamulo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ngara	0	0	129	100	0	0	0	0	0	0	0	0	0	0	129	100
Bukoba Urban	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Missenyi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chato	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	129	100	0	0	0	0	0	0	0	0	0	0	129	100

9.10: Total Number of Dairy 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	%
Karagwe	233	3	931	11	4,189	36	233	3	2,560	28	1,396	11	698	8	10,241	100
Bukoba Rural	147	7	589	20	1,179	40	0	0	442	13	295	13	147	7	2,799	100
Muleba	0	0	612	16	1,428	37	612	16	204	5	0	0	1,224	26	4,079	100
Biharamulo	0	0	78	20	157	20	0	0	157	40	0	0	157	20	549	100
Ngara	515	20	129	10	1,030	50	0	0	129	10	129	10	0	0	1,932	100
Bukoba Urban	0	0	58	6	690	47	0	0	403	24	58	6	173	18	1,380	100
Missenyi	92	5	460	11	1,105	37	0	0	368	21	92	5	460	21	2,578	100
Chato	0	0	0	0	204	50	102	50	0	0	0	0	0	0	306	100
Total	987	4	2,857	13	9,982	38	947	5	4,263	19	1,969	8	2,859	13	23,863	100

9.11: Total Number Households rearing Cattle and Method of Cattle Identification by District during, 2007/08 Agricultural Year

District	Branding		Cattle Clan		Ear notching		Colour		Earrings		Others		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	5,120	34	1,629	11	233	2	4,888	33	1,862	13	1,164	8	14,896	100
Bukoba Rural	589	9	442	7	737	1	3,241	50	442	7	1,031	16	6,482	100
Muleba	816	9	2,039	22	0	0	4,487	49	1,632	18	204	2	9,178	100
Biharamulo	3,215	62	235	5	235	5	1,098	21	157	3	235	5	5,176	100
Ngara	515	8	1,030	16	258	4	3,864	61	386	6	258	4	6,311	100
Bukoba Urban	58	5	58	5	0	0	460	38	633	52	0	0	1,208	100
Missenyi	368	9	1,289	30	552	13	1,013	23	736	17	368	9	4,327	100
Chato	5,300	53	1,121	11	306	3	2,752	27	408	4	204	2	10,090	100
Total	15,981	28	7,844	14	2,320	4	21,802	38	6,256	11	3,464	6	57,667	100

9.12: Number of Goats by Type and District as of 1st October 2008

District	Indigenous			Improved for Meat			Improved Dairy			Total	
	Number of households	Number of Goats	%	Number of households	Number of Goats	%	Number of households	Number of Goats	%	Number of households	Number of Goats
Karagwe	34,447	185,034	97.5	0	0	0.0	233	4,655	2.5	34,679	189,689
Bukoba Rural	19,742	72,190	97.0	147	442	0.6	1,031	1,768	2.4	20,331	74,400
Muleba	30,796	124,000	85.8	204	816	0.6	2,243	19,783	13.7	32,428	144,599
Biharamulo	14,822	101,482	99.6	0	0	0.0	157	392	0.4	14,822	101,874
Ngara	33,227	163,947	99.2	0	0	0.0	129	1,288	0.8	33,227	165,234
Bukoba Urban	920	4,429	92.8	0	0	0.0	173	345	7.2	1,035	4,774
Missenyi	10,034	35,349	96.2	92	92	0.3	368	1,289	3.5	10,218	36,730
Chato	14,982	98,960	100.0	0	0	0.0	0	0	0.0	14,982	98,960
Total	158,970	785,391	96.2	443	1,350	0.2	4,334	29,520	3.6	161,723	816,260

9.13: Number of Households Rearing Goats, Head of Goats and Average Head per Household by Herd Size as of 1st October 2008- Kagera

Herd Size	Goat rearing households		Herd of Goats		Average Goats per household
	Number	%	Number	%	
1 - 4	304,149	91	574,747	70	2
5 - 9	23,503	7	138,919	17	6
10 - 14	4,828	1	52,509	6	11
15 - 19	960	0	14,707	2	15
20 - 24	1,028	0	21,105	3	21
30 - 39	435	0	14,274	2	33
Total	334,904	100	816,260	100	2

9.14: Total Number of Goats by Category and Type of Goat as of 1st October 2008 - Kagera

Category	Indigenous		Improved Meat		Improved Dairy		Total	
	Number	%	Number	%	Number	%	Number	%
Billy Goats	94,336	93.0	.	-	7,046	7.0	101,383	12.4
She Goats	22,923	76.5	.	-	7,046	23.5	29,968	3.7
Castrated Goat	469,888	96.7	942	0.2	14,852	3.1	485,681	59.5
Male Kid	86,596	99.2	204	0.2	484	0.6	87,284	10.7
She Kid	111,647	99.7	204	0.2	92	0.1	111,943	13.7
Total	785,391	96.2	1,350	0.2	29,520	3.6	816,260	100

9.15: Total Number of Indigenous Goat by Category and District as of 1st October 2008

Region	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	%
Karagwe	16,525	9	10,008	5	107,297	58	21,180	11	30,024	16	185,034	100
Bukoba	8,103	11	3,536	5	48,176	67	6,188	9	6,188	9	72,190	100
Rural	14,480	12	1,632	1	79,540	64	15,296	12	13,053	11	124,000	100
Biharamulo	16,156	16	2,117	2	52,937	52	13,803	14	16,469	16	101,482	100
Ngara	15,455	9	4,379	3	102,386	62	14,939	9	26,788	16	163,947	100
Bukoba	575	13	58	1	2,991	68	403	9	403	9	4,429	100
Urban												
Missenyi	5,615	16	276	1	23,566	67	2,762	8	3,130	9	35,349	100
Chato	17,428	18	917	1	52,996	54	12,026	12	15,593	16	98,960	100
Total	94,336	12	22,923	3	469,888	60	86,596	11	111,647	14	785,391	100

9.16: Number of Indigenous Goats by Flock Structure and District as of 1st October 2008

District	Goat Flock Structure											
	Billy Goat		Castrated Goat		She Goat		Male Kid		She Kid		Total	
	Total Goat	%	Total Goat	%	Total Goat	%	Total Goat	%	Total Goat	%	Total Goat	%
Karagwe	16,525	9	10,008	5	107,297	58	21,180	11	30,024	16	185,034	100
Bukoba	8,103	11	3,536	5	48,176	67	6,188	9	6,188	9	72,190	100
Rural	14,480	12	1,632	1	79,540	64	15,296	12	13,053	11	124,000	100
Biharamulo	16,156	16	2,117	2	52,937	52	13,803	14	16,469	16	101,482	100
Ngara	15,455	9	4,379	3	102,386	62	14,939	9	26,788	16	163,947	100
Bukoba	575	13	58	1	2,991	68	403	9	403	9	4,429	100
Urban												
Missenyi	5,615	16	276	1	23,566	67	2,762	8	3,130	9	35,349	100
Chato	17,428	18	917	1	52,996	54	12,026	12	15,593	16	98,960	100
Total	94,336	12	22,923	3	469,888	60	86,596	11	111,647	14	785,391	100

9.17: Number of Improved Goats for Meat by Flock Structure and District as of 1st october 2008

District	Goat Flock Structure											
	Billy Goat		Castrated Goat		She Goat		Male Kid		She Kid		Total	
	Total Goat	%	Total Goat	%	Total Goat	%	Total Goat	%	Total Goat	%	Total Goat	%
Karagwe
Bukoba Rural	442	100	442	100
Muleba	408	50	204	25	204	25	816	100
Biharamulo
Ngara
Bukoba Urban
Missenyi	92	100	92	100
Chato
Total	942	70	204	15	204	15	1,350	100

9.18: Number of Improved Dairy Goats for Meat by Flock Structure and District as of 1st october 2008

District	Goat Flock Structure											
	Billy Goat		Castrated Goat		She Goat		Male Kid		She Kid		Total	
	Total Goat	%	Total Goat	%	Total Goat	%	Total Goat	%	Total Goat	%	Total Goat	%
Karagwe	.	.	4,655	100	4,655	100
Bukoba Rural	589	33	147	8	1,031	58	1,768	100
Muleba	4,283	22	2,243	11	13,257	67	19,783	100
Biharamulo	392	100	.	.	392	100
Ngara	1,288	100	1,288	100
Bukoba Urban	58	17	.	.	288	83	345	100
Missenyi	829	64	.	.	276	21	92	7	92	7	1,289	100
Chato
Total	7,046	24	7,046	24	14,852	50	484	2	92	0	29,520	100

9.19: 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
Karagwe	6,517	6.9	87,746	93.1	94,263	26,068
Bukoba Rural	2,210	3.7	57,457	96.3	59,667	11,786
Muleba	4,079	4.9	78,520	95.1	82,599	18,355
Biharamulo	706	2.2	31,056	97.8	31,762	11,921
Ngara	1,545	3.0	50,614	97.0	52,159	20,606
Bukoba Urban	173	2.5	6,729	97.5	6,902	1,553
Missenyi	736	2.0	36,546	98.0	37,283	10,586
Chato	2,752	6.7	38,524	93.3	41,276	15,797
Total	18,718	4.6	387,192	95.4	405,910	116,672

9.20: Number of Sheep by Type and District as of 1st October 2008

District	Indigenous		Improved for Mutton		Total Sheep
	Number	%	Number	%	
Karagwe	35,843	100.0	0	-	35,843
Bukoba Rural	5,009	100.0	0	-	5009
Muleba	8,770	100.0	0	-	8,770
Biharamulo	2,117	100.0	0	-	2,117
Ngara	4,379	100.0	0	-	4,379
Bukoba Urban	518	100.0	0	-	518
Missenyi	2,854	100.0	0	-	2,854
Chato	17,224	100.0	0	-	17,224
Total	76,713	100.0	0	-	76,713

9.21: Number of Households rearing Sheep, Head of Sheep and Average Head per Household by Herd size During the 2007/08 Agricultural Year - Kagera

Herd size	Sheep Rearing Households	%	Herd of sheep	Average Per Household
1 - 4	14,504	77	28,211	2
5 - 9	3,137	17	19,662	6
10 - 14	408	2	4,994	12
15 - 19	335	2	5,122	15
30 - 34	102	1	3,363	33
40+	233	1	15,361	66
Total	18,718	100	76,713	4

9.22: Total Number of Sheep and Households by Flock Structure and Breed Type as of 1st October 2008 - Kagera

Flock Structure	Indigenous		Improved Beef		Total	
	Number of Households	Number of Sheep	Number of Households	Number of Sheep	Number of Sheep	%
Billy Sheep	7,830	15,776	0	0	15,776	24
Castrated Sheep	833	1,532	0	0	1,532	3
She Sheep	16,228	43,380	0	0	43,380	49
Male Kid	3,468	6,822	0	0	6,822	10
She Kid	4,673	9,203	0	0	9,203	14
Total	33,032	76,713	0	0	76,713	100

9.23: 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	%
Karagwe	10,939	11.6	83,324	88.4	94,263	100.0
Bukoba Rural	8,987	15.1	50,680	84.9	59,667	100.0
Muleba	5,507	6.7	77,092	93.3	82,599	100.0
Biharamulo	471	1.5	31,291	98.5	31,762	100.0
Ngara	5,023	9.6	47,136	90.4	52,159	100.0
Bukoba Urban	1,150	16.7	5,751	83.3	6,902	100.0
Missenyi	5,800	15.6	31,483	84.4	37,283	100.0
Chato	102	0.2	41,174	99.8	41,276	100.0
Total	37,978	9.4	367,932	90.6	405,910	100.0

9.24: Number of Households rearing Pig, Head of Pig and Average Number of Pigs per Household by Herd size During the 2007/08 Agricultural Year - Kagera

Flock Size	Pig rearing households		Herd of pigs		Average per household
	Number	%	Number	%	
1 - 4	36,216	95	49,564	64.3	1
5 - 9	983	3	5,579	7.2	6
10 - 14	686	2	7,448	9.7	11
20 - 24	92	0	1,841	2.4	20
Total	37,978	100	64,432	83.6	2

9.25: Total Number of Pig by Herd Structure During 2007/08 Agricultural Year - Kagera

Pig Structure	Total number of Pigs
Boar	14,267
Castrated Male	2,167
Sow/Gilt	40,460
Male Piglet	3,765
She Piglet	3,774
Total	64,432

9.26: Total Number of Indigenous Pig by Herd Structure and District During the 2007/08 Agricultural Year

District	Pig Herd Structure											
	Boar		Castrated Male		Sow/Gilt		Male Piglet		She Piglet		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	3,026	25	931	6	10,706	67	465	2	0	0	15,129	100
Bukoba Rural	3,683	27	442	4	9,576	58	589	5	1,326	6	15,617	100
Muleba	2,039	31	0	0	4,283	59	816	9	0	0	7,138	100
Biharamulo	627	31	0	0	941	38	549	1	627	1	2,745	100
Ngara	2,061	27	0	0	5,152	63	644	8	129	2	7,985	100
Bukoba Urban	1,265	32	58	3	1,323	52	58	3	403	1	3,106	100
Missenyi	1,565	20	736	9	8,377	61	644	7	1,289	4	12,612	100
Chato	0	0	0	0	102	10	0	0	0	0	102	100
Total	14,267	26	2,167	4	40,460	61	3,765	6	3,774	3	64,432	100

9.27: Number of Pigs per Household by District as of 1st October 2008

District	Number of households	Number of pigs	Total Pig	Average per household
Karagwe	10,939	15,129	15,129	1
Bukoba Rural	8,987	15,617	15,617	2
Muleba	5,507	7,138	7,138	1
Biharamulo	471	2,745	2,745	6
Ngara	5,023	7,985	7,985	2
Bukoba Urban	1,150	3,106	3,106	3
Missenyi	5,800	12,612	12,612	2
Chato	102	102	102	1
Total	37,978	64,432	64,432	2

CHICKEN PRODUCTION AND OTHER LIVESTOCK

9.28: Number of Households Rearing Chicken by District during the 2007/08 Agriculture Year

District	raising chicken		not raising chicken		Total	%
	Number of households	%	Number of households	%		
Karagwe	45,851	49	48,411	51	94,263	100
Bukoba Rural	25,487	43	34,180	57	59,667	100
Muleba	28,553	35	54,046	65	82,599	100
Biharamulo	15,685	49	16,077	51	31,762	100
Ngara	28,462	55	23,697	45	52,159	100
Bukoba Urban	2,243	32	4,659	68	6,902	100
Missenyi	16,938	45	20,344	55	37,283	100
Chato	22,829	55	18,447	45	41,276	100
Total	186,049	46	219,861	54	405,910	100

9.29: Number of Chicken by Type and District as of 1st October 2008

District	Indigenous chicken			Layers			Broilers			Total	
	Number of Households	Number of Indigenous Chicken	%	Number of Households	Number of Layers	%	Number of Households	Number of Broilers	%	Number of Households	Number of Chicken
Karagwe	45,618	302,804	99.8	233	465	0.2	0	0	0.0	45,851	303,270
Bukoba Rural	25,340	166,037	99.4	147	1,031	0.6	0	0	0.0	25,487	167,068
Muleba	28,553	179,066	100.0	0	0	0.0	0	0	0.0	28,553	179,066
Biharamulo	15,685	153,791	99.5	78	784	0.5	0	0	0.0	15,763	154,575
Ngara	28,076	170,515	93.9	773	7,856	4.3	258	3,220	1.8	29,106	181,591
Bukoba Urban	2,243	16,852	100.0	0	0	0.0	0	0	0.0	2,243	16,852
Missenyi	16,846	97,763	99.3	92	644	0.7	0	0	0.0	16,938	98,407
Chato	22,727	239,706	97.5	204	1,325	0.5	306	4,790	1.9	23,237	245,821
Total	185,088	1,326,534	98.5	1,527	12,106	0.9	563	8,010	0.6	187,179	1,346,650

9.30: Number of Households Keeping Chickens and Average Number of Chickens per Household by Flock Size as of 1st October 2008 - Kagera

Heard Size	Indigenous chicken				Layers				Broilers			
	Number of Households	Number of Chicken	%	Number of Chicken Per Household	Number of Households	Number of Chicken	%	Number of Chicken Per Household	Number of Households	Number of Chicken	%	Number of Chicken Per Household
1-49	184,222	1,270,679	98	7	1,527	12,106	1	8	563	8,010	1	14
50-99	719	38,912	100	54	0	0	0	0	0	0	0	0
100-299	147	16,943	100	115	0	0	0	0	0	0	0	0
300-499	0	0	0	0	0	0	0	0	0	0	0	0
500-699	0	0	0	0	0	0	0	0	0	0	0	0
700+	0	0	0	0	0	0	0	0	0	0	0	0
Total	185,088	1,326,534	99	7	1,527	12,106	1	8	563	8,010	1	14

9.31: Number of Other Livestock by Type of Livestock and District as of 1st October 2008

District	Ducks	Guinea pigs	Turkeys	Rabbits	Donkeys	Horses	Dogs
Karagwe	3,026	0	0	2,793	0	0	4,888
Bukoba Rural	295	884	295	1,473	0	0	2,210
Muleba	1,224	0	408	2,039	0	0	4,079
Biharamulo	6,039	0	0	314	0	0	2,745
Ngara	6,826	773	0	2,189	0	0	3,348
Bukoba Urban	0	58	0	0	0	0	58
Missenyi	3,314	0	0	1,013	0	0	644
Chato	20,995	917	0	611	0	0	8,969
Total	41,717	2,631	703	10,433	0	0	26,940

PESTS AND PARASITE DISEASE AND CONTROL

9.32: Number of Livestock Rearing households De-worming Livestock by District during 2007/08 Agriculture Year

District	De-worming Livestock		Not De-worm Livestock		Total	
	Number	%	Number	%	Number of Livestock Rearing households	%
Karagwe	30,490	48	32,817	52	63,307	100
Bukoba Rural	12,375	32	25,782	68	38,158	100
Muleba	18,967	38	31,408	62	50,375	100
Biharamulo	7,529	36	13,411	64	20,939	100
Ngara	16,614	41	23,439	59	40,053	100
Bukoba Urban	1,898	56	1,495	44	3,393	100
Missenyi	6,352	27	16,754	73	23,106	100
Chato	10,192	34	19,568	66	29,759	100
Total	104,416	39	164,675	61	269,091	100

9.33: Number of Livestock Rearing households that de-wormed Livestock by type of livestock and District, 2007/08 Agricultural Year

District	Cattle				Goats/Sheep			
	Households that de-wormed	Households that DID NOT de-worm	Not Applicable	Total	Households that de-wormed	Households that DID NOT de-worm	Not Applicable	Total
Karagwe	14,896	931	14,663	30,490	17,223	3,258	10,008	30,490
Bukoba Rural	5,156	589	6,924	12,670	6,482	1,621	4,272	12,375
Muleba	7,954	0	11,421	19,375	13,053	1,224	4,895	19,171
Biharamulo	3,137	627	3,843	7,607	5,254	784	1,490	7,529
Ngara	4,508	515	11,591	16,614	13,523	1,159	1,803	16,485
Bukoba Urban	863	58	978	1,898	575	58	1,265	1,898
Missenyi	3,406	644	2,578	6,628	2,301	1,105	2,854	6,260
Chato	7,032	306	3,261	10,599	5,503	1,936	2,956	10,395
Total	46,952	3,670	55,259	105,881	63,915	11,145	29,543	104,603

Cont...9.33: Number of Livestock Rearing households that de-wormed Livestock by type of livestock and District, 2007/08 Agricultural Year

District	Pig				Chicken			
	Households that de-wormed	Households that DID NOT de-worm	Not Applicable	Total	Households that de-wormed	Households that DID NOT de-worm	Not Applicable	Total
Karagwe	5,586	2,327	22,576	30,490	3,491	14,896	12,103	30,490
Bukoba Rural	4,125	737	7,514	12,375	1,915	5,746	4,714	12,375
Muleba	3,263	816	15,092	19,171	4,079	5,711	9,382	19,171
Biharamulo	392	78	7,058	7,529	706	4,705	2,117	7,529
Ngara	2,061	1,030	13,394	16,485	1,545	9,015	6,439	17,000
Bukoba Urban	748	58	1,093	1,898	345	805	748	1,898
Missenyi	2,209	736	3,498	6,444	552	3,498	2,301	6,352
Chato	204	1,223	8,969	10,395	2,854	5,707	1,936	10,497
Total	18,588	7,006	79,194	104,787	15,488	50,083	39,741	105,312

9.34: 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	%
Karagwe	27,464	43	16,525	26	19,318	31	63,307	100
Bukoba Rural	12,228	34	13,996	39	10,018	28	36,242	100
Muleba	16,724	35	18,355	38	12,645	26	47,724	100
Biharamulo	10,038	48	6,117	29	4,784	23	20,939	100
Ngara	16,742	42	15,712	39	7,470	19	39,924	100
Bukoba Urban	690	20	1,725	51	978	29	3,393	100
Missenyi	5,155	22	12,059	52	5,892	25	23,106	100
Chato	13,657	48	5,402	19	9,478	33	28,536	100
Total	102,699	39	89,892	34	70,582	27	263,173	100

9.35: 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	%
Karagwe	931	1.5	24,206	38.2	3,724	5.9	34,447	54.4	0	0.0	63,307	100
Bukoba Rural	2,652	7.3	9,134	25.2	1,473	4.1	22,394	61.8	589	1.6	36,242	100
Muleba	1,224	2.6	11,625	24.4	5,711	12.0	28,757	60.3	408	0.9	47,724	100
Biharamulo	157	0.7	8,548	40.8	549	2.6	11,685	55.8	0	0.0	20,939	100
Ngara	1,417	3.5	7,727	19.4	1,803	4.5	26,917	67.4	2,061	5.2	39,924	100
Bukoba Urban	0	0.0	460	13.6	460	13.6	2,473	72.9	0	0.0	3,393	100
Missenyi	1,289	5.6	5,523	23.9	1,473	6.4	14,821	64.1	0	0.0	23,106	100
Chato	204	0.7	12,128	42.5	1,019	3.6	15,084	52.9	102	0.4	28,536	100
Total	7,873	3.0	79,352	30.2	16,212	6.2	156,576	59.5	3,160	1.2	263,173	100

9.36: Number of Livestock Rearing Households Normally Encountering Tsetse Flies Problems by District during 2007/08 Agriculture Year

District	Yes		No		Not Applicable		Total	
	Number	%	Number	%	Number	%	Number	%
Karagwe	3,026	5	33,748	53	26,533	42	63,307	100
Bukoba Rural	1,179	3	17,826	49	17,237	48	36,242	100
Muleba	2,243	5	25,086	53	20,395	43	47,724	100
Biharamulo	1,176	6	12,548	60	7,215	34	20,939	100
Ngara	2,318	6	24,598	62	13,008	33	39,924	100
Bukoba Urban	58	2	1,898	56	1,438	42	3,393	100
Missenyi	921	4	13,808	60	8,377	36	23,106	100
Chato	815	3	15,797	55	11,924	42	28,536	100
Total	11,736	4	145,310	55	106,127	40	263,173	100

9.37: Number of Livestock Rearing Households by Method of Tsetse Flies Control and District during 2007/08 Agriculture Year

District	Dipping		Spraying		Trapping		None		Others		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	0	0	4,189	7	2,327	4	56,325	89	465	1	63,307	100
Bukoba Rural	147	0	884	2	589	2	34,622	96	0	0	36,242	100
Muleba	1,836	4	3,059	6	1,836	4	40,789	85	204	0	47,724	100
Biharamulo	235	1	1,098	5	784	4	18,822	90	0	0	20,939	100
Ngara	902	2	1,159	3	773	2	37,091	93	0	0	39,924	100
Bukoba Urban	58	2	518	1	0	0	2,818	83	0	0	3,393	100
Missenyi	368	2	2,393	1	184	1	20,160	87	0	0	23,106	100
Chato	204	1	1,834	6	1,019	4	25,479	89	0	0	28,536	100
Total	3,749	1	15,135	6	7,513	3	236,106	90	669	0	263,173	100

9.38: Number of Livestock Rearing Households Normally Encountering Newcastle Disease Problems by District during 2007/08 Agriculture Year

District	Yes		No		Not Applicable		Total	
	Number	%	Number	%	Number	%	Number	%
Karagwe	23,507	37	24,206	38	15,594	25	63,307	100
Bukoba Rural	5,598	15	20,920	57	9,871	27	36,390	100
Muleba	7,954	17	23,454	49	16,316	34	47,724	100
Biharamulo	9,882	47	6,666	32	4,392	21	20,939	100
Ngara	11,591	29	17,129	43	11,205	28	39,924	100
Bukoba Urban	288	8	1,955	58	1,150	34	3,393	100
Missenyi	1,013	4	17,491	76	4,603	20	23,106	100
Chato	11,618	41	11,822	41	5,096	18	28,536	100
Total	71,451	27	123,643	47	68,226	26	263,320	100

9.39: 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	%
Karagwe	4,422	7	15,594	25	43,291	68	63,307	100
Bukoba Rural	1,326	4	4,714	13	30,202	83	36,242	100
Muleba	2,447	5	9,789	21	35,487	74	47,724	100
Biharamulo	1,647	8	4,157	20	15,058	72	20,861	100
Ngara	773	2	3,220	8	35,932	90	39,924	100
Bukoba Urban	173	5	1,093	32	2,128	63	3,393	100
Missenyi	1,197	5	4,971	22	16,938	73	23,106	100
Chato	2,854	10	5,503	19	20,179	71	28,536	100
Total	14,838	6	49,041	19	199,215	76	263,094	100

9.40: Number of Livestock Rearing Households normally Encountering Fowl Typhoid Disease Problems by District during 2007/08 Agriculture Year

District	Yes		No		Not Applicable		Total	
	Number	%	Number	%	Number	%	Number	%
Karagwe	8,379	13	37,240	59	17,689	28	63,307	100
Bukoba Rural	2,063	6	23,867	66	10,313	28	36,242	100
Muleba	3,059	6	29,368	62	15,296	32	47,724	100
Biharamulo	2,588	12	13,960	67	4,392	21	20,939	100
Ngara	5,280	13	22,280	56	12,364	31	39,924	100
Bukoba Urban	288	8	1,783	53	1,323	39	3,393	100
Missenyi	460	2	17,767	77	4,879	21	23,106	100
Chato	7,542	26	15,899	56	5,198	18	28,638	100
Total	29,659	11	162,163	62	71,453	27	263,275	100

9.41: Number of Livestock Rearing Households by Method of Fowl Typhoid Disease Control and District During 2007/08 Agriculture Year

District	Vaccination		Local Herbs		None		Total	
	Number	%	Number	%	Number	%	Number	%
Karagwe	3,258	5	6,051	10	53,997	85	63,307	100
Bukoba Rural	589	2	2,357	7	33,296	92	36,242	100
Muleba	2,039	4	5,099	11	40,586	85	47,724	100
Biharamulo	471	2	784	4	19,606	94	20,861	100
Ngara	386	1	1,932	5	37,606	94	39,924	100
Bukoba Urban	58	2	978	29	2,358	69	3,393	100
Missenyi	829	4	3,222	14	19,056	82	23,106	100
Chato	1,427	5	4,892	17	22,218	78	28,536	100
Total	9,057	3	25,315	10	228,722	87	263,094	100

9.42: Number of Livestock Rearing Households Normally Encountering Foot and Mouth Disease Problems by District during 2007/08 Agriculture Year

District	Yes		No		Not Applicable		Total	
	Number	%	Number	%	Number	%	Number	%
Karagwe	10,008	16	8,612	14	44,687	71	63,307	100
Bukoba Rural	2,947	8	5,304	14	28,581	78	36,832	100
Muleba	4,691	10	7,546	16	36,099	75	48,336	100
Biharamulo	235	1	5,490	26	15,214	73	20,939	100
Ngara	1,030	3	6,182	15	32,712	82	39,924	100
Bukoba Urban	633	19	633	19	2,128	63	3,393	100
Missenyi	2,209	10	6,720	29	14,177	61	23,106	100
Chato	1,733	6	9,580	34	17,224	60	28,536	100
Total	23,486	9	50,066	19	190,822	72	264,374	100

9.43: Number of Livestock Rearing Households normally Encountering Lumpy skin Disease Problems by District during 2007/08 Agriculture Year

District	Households Encountering Lumpy skin Disease		Households Not Encountering Lumpy skin Disease		Not Applicable		Total	
	Number	%	Number	%	Number	%	Number	%
Karagwe	931	1	16,758	26	45,618	72	63,307	100
Bukoba Rural	2,063	6	6,188	17	28,434	78	36,684	100
Muleba	612	1	12,033	25	35,895	74	48,540	100
Biharamulo	0	0	5,725	27	15,214	73	20,939	100
Ngara	902	2	6,697	17	32,326	81	39,924	100
Bukoba Urban	403	12	920	27	2,071	61	3,393	100
Missenyi	1,105	5	7,825	34	14,177	61	23,106	100
Chato	815	3	10,599	37	17,020	60	28,435	100
Total	6,830	3	66,745	25	190,754	72	264,328	100

LIVESTOCK EXTENSION SERVICES

9.44: Number of households receiving extension advice by District during the 2007/08 agriculture year

District	Receiving Livestock services		Not Receiving Livestock Extension services		Total
	Number	%	Number	%	
Karagwe	34,679	56	27,464	44	62,144
Bukoba Rural	19,594	55	16,353	45	35,948
Muleba	24,270	50	24,066	50	48,336
Biharamulo	11,372	55	9,333	45	20,704
Ngara	11,205	28	28,591	72	39,795
Bukoba Urban	1,668	49	1,725	51	3,393
Missenyi	8,009	35	14,729	65	22,738
Chato	9,376	33	19,058	67	28,435
Total	120,173	46	141,319	54	261,492

9.45: Number of Households receiving Livestock advice (overall) By Source of Extension and District during the 2007/08 agriculture year

District	Source of Livestock Extension												Number of Household receiving Extension
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbour		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Karagwe	33,050	95.3	4,888	14.1	1,164	3.4	1,164	3.4	1,629	4.7	4,189	12.1	34,679
Bukoba Rural	15,175	77.4	2,357	12.0	0	0.0	442	2.3	442	2.3	4,567	23.3	19,594
Muleba	19,987	82.4	2,855	11.8	612	2.5	1,020	4.2	2,243	9.2	5,507	22.7	24,270
Biharamulo	9,646	84.8	784	6.9	0	0.0	78	0.7	784	6.9	1,647	14.5	11,372
Ngara	7,727	69.0	1,932	17.2	1,417	12.6	0	0.0	3,348	29.9	4,121	36.8	11,205
Bukoba Urban	748	44.8	288	17.2	115	6.9	173	10.3	288	17.2	345	20.7	1,668
Missenyi	7,088	88.5	1,105	13.8	552	6.9	276	3.4	1,289	16.1	552	6.9	8,009
Chato	7,236	77.2	510	5.4	0	0.0	408	4.3	917	9.8	2,956	31.5	9,376
Total	100,657	83.8	14,718	12.2	3,860	3.2	3,560	3.0	10,941	9.1	23,884	19.9	120,173

9.46: Number of Agriculture Households Receiving Advice on Feeds and Proper Feeding by Source and District During 2007/08 agriculture Year

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/ TV/Newspapers		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Karagwe	11,405	90.7	698	5.6	233	1.9	0	0.0	0	0.0	233	1.9	0	0.0	12,568
Bukoba Rural	5,893	71.4	737	8.9	0	0.0	147	1.8	295	3.6	1,179	14.3	0	0.0	8,250
Muleba	9,178	64.3	1,224	8.6	408	2.9	408	2.9	612	4.3	2,447	17.1	0	0.0	14,276
Biharamulo	5,960	95.0	235	3.8	0	0.0	0	0.0	0	0.0	78	1.3	0	0.0	6,274
Ngara	2,061	57.1	129	3.6	0	0.0	0	0.0	773	21.4	644	17.9	0	0.0	3,606
Bukoba Urban	633	55.0	230	20.0	58	5.0	115	10.0	0	0.0	115	10.0	0	0.0	1,150
Missenyi	4,235	86.8	276	5.7	0	0.0	184	3.8	0	0.0	184	3.8	0	0.0	4,879
Chato	1,631	69.6	0	0.0	0	0.0	0	0.0	204	8.7	408	17.4	102	4.3	2,344
Total	40,994	76.8	3,529	6.6	698	1.3	854	1.6	1,883	3.5	5,288	9.9	102	0.2	53,348

9.47: Number of households receiving extension advice on Proper Livestock Housing by District during the 2007/08 agriculture year

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Karagwe	21,180	85.0	698	2.8	233	0.9	698	2.8	0	0.0	2,095	8.4	0	0.0	24,904
Bukoba Rural	10,018	77.3	884	6.8	0	0.0	295	2.3	147	1.1	1,621	12.5	0	0.0	12,965
Muleba	11,829	70.7	816	4.9	204	1.2	204	1.2	204	1.2	3,467	20.7	0	0.0	16,724
Biharamulo	7,058	89.1	314	4.0	0	0.0	0	0.0	78	1.0	471	5.9	0	0.0	7,921
Ngara	3,091	60.0	386	7.5	0	0.0	0	0.0	1,030	20.0	644	12.5	0	0.0	5,152
Bukoba Urban	690	52.2	173	13.0	58	4.3	115	8.7	115	8.7	173	13.0	0	0.0	1,323
Missenyi	5,707	87.3	276	4.2	0	0.0	92	1.4	92	1.4	184	2.8	184	2.8	6,536
Chato	2,752	81.8	102	3.0	0	0.0	0	0.0	102	3.0	408	12.1	0	0.0	3,363
Total	62,326	79.0	3,649	4.6	494	0.6	1,404	1.8	1,769	2.2	9,061	11.5	184	0.2	78,887

9.48: Number of households receiving extension advice on Proper Milking and Milk Hygiene by District during the 2007/08 agriculture year

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Karagwe	9,077	81	465	4	698	6	233	2	233	2	465	4	0	0	11,172
Bukoba Rural	3,094	75	442	11	0	0	0	0	0	0	589	14	0	0	4,125
Muleba	6,118	77	816	10	0	0	0	0	408	5	612	8	0	0	7,954
Biharamulo	2,666	87	314	10	0	0	0	0	0	0	78	3	0	0	3,059
Ngara	2,962	77	258	7	0	0	0	0	258	7	386	10	0	0	3,864
Bukoba Urban	460	47	230	24	58	6	115	12	115	12	0	0	0	0	978
Missenyi	2,762	88	92	3	0	0	92	3	92	3	92	3	0	0	3,130
Chato	2,650	84	0	0	0	0	102	3	0	0	408	13	0	0	3,159
Total	29,790	80	2,617	7	756	2	542	1	1,105	3	2,631	7	0	0	37,440

9.49: Number of households receiving extension advice on Livestock fattening by District during the 2007/08 agriculture year

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV /Newspapers		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Karagwe	5,586	85.7	931	14.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6,517
Bukoba Rural	2,799	79.2	147	4.2	0	0.0	0	0.0	147	4.2	442	12.5	0	0.0	3,536
Muleba	3,059	71.4	408	9.5	0	0.0	0	0.0	816	19.0	0	0.0	0	0.0	4,283
Biharamulo	3,137	88.9	235	6.7	0	0.0	0	0.0	78	2.2	78	2.2	0	0.0	3,529
Ngara	2,061	66.7	129	4.2	0	0.0	0	0.0	644	20.8	258	8.3	0	0.0	3,091
Bukoba Urban	288	71.4	0	0.0	0	0.0	115	28.6	0	0.0	0	0.0	0	0.0	403
Missenyi	1,473	88.9	92	5.6	0	0.0	0	0.0	0	0.0	92	5.6	0	0.0	1,657
Chato	1,223	75.0	0	0.0	0	0.0	204	12.5	102	6.3	102	6.3	0	0.0	1,631
Total	19,625	79.6	1,942	7.9	0	0.0	319	1.3	1,787	7.3	972	3.9	0	0.0	24,646

9.50: Number of households receiving extension advice on Disease control (dipping/spraying) by District during the 2007/08 agriculture year

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Karagwe	21,413	91.1	931	4.0	0	0.0	0	0.0	698	3.0	465	2.0	0	0.0	23,507
Bukoba Rural	9,724	77.6	589	4.7	0	0.0	0	0.0	295	2.4	1,915	15.3	0	0.0	12,523
Muleba	11,625	85.1	408	3.0	0	0.0	0	0.0	612	4.5	1,020	7.5	0	0.0	13,664
Biharamulo	7,529	82.1	235	2.6	0	0.0	0	0.0	314	3.4	1,020	11.1	78	0.9	9,176
Ngara	4,894	73.1	129	1.9	0	0.0	0	0.0	386	5.8	1,288	19.2	0	0.0	6,697
Bukoba Urban	748	54.2	115	8.3	115	8.3	173	12.5	173	12.5	0	0.0	58	4.2	1,380
Missenyi	3,958	87.8	276	6.1	0	0.0	92	2.0	184	4.1	0	0.0	0	0.0	4,511
Chato	5,402	71.6	204	2.7	0	0.0	102	1.4	713	9.5	1,019	13.5	102	1.4	7,542
Total	65,292	82.6	2,887	3.7	115	0.1	367	0.5	3,375	4.3	6,727	8.5	238	0.3	79,000

9.51: Number of households receiving extension advice on Herd/Flock size and selection by District during the 2007/08 agriculture year

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Karagwe	12,801	90.2	465	3.3	0	0.0	0	0.0	465	3.3	465	3.3	0	0.0	14,198
Bukoba Rural	3,978	67.5	589	10.0	0	0.0	0	0.0	295	5.0	1,031	17.5	0	0.0	5,893
Muleba	8,362	70.7	1,224	10.3	0	0.0	0	0.0	816	6.9	1,428	12.1	0	0.0	11,829
Biharamulo	3,137	87.0	235	6.5	0	0.0	0	0.0	157	4.3	78	2.2	0	0.0	3,608
Ngara	3,606	59.6	515	8.5	0	0.0	0	0.0	902	14.9	1,030	17.0	0	0.0	6,053
Bukoba Urban	690	75.0	115	12.5	58	6.3	0	0.0	0	0.0	58	6.3	0	0.0	920
Missenyi	2,025	84.6	184	7.7	0	0.0	0	0.0	184	7.7	0	0.0	0	0.0	2,393
Chato	3,261	86.5	0	0.0	0	0.0	0	0.0	204	5.4	306	8.1	0	0.0	3,771
Total	37,861	77.8	3,328	6.8	58	0.1	0	0.0	3,022	6.2	4,396	9.0	0	0.0	48,665

9.52: Number of households receiving extension advice on Pasture Establishment by District during the 2007/08 agriculture year

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Karagwe	8,379	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	8,379
Bukoba Rural	2,652	62.1	147	3.4	0	0.0	0	0.0	0	0.0	1,473	34.5	0	0.0	4,272
Muleba	4,487	68.8	612	9.4	0	0.0	204	3.1	204	3.1	1,020	15.6	0	0.0	6,526
Biharamulo	2,039	86.7	235	10.0	0	0.0	0	0.0	0	0.0	78	3.3	0	0.0	2,353
Ngara	1,803	60.9	258	8.7	0	0.0	0	0.0	644	21.7	258	8.7	0	0.0	2,962
Bukoba Urban	575	83.3	58	8.3	0	0.0	58	8.3	0	0.0	0	0.0	0	0.0	690
Missenyi	1,657	94.7	92	5.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,749
Chato	1,631	94.1	0	0.0	0	0.0	0	0.0	102	5.9	0	0.0	0	0.0	1,733
Total	23,222	81.0	1,402	4.9	0	0.0	261	0.9	950	3.3	2,829	9.9	0	0.0	28,664

9.53: Number of households receiving extension advice on Group formation by District during the 2007/08 agriculture year

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Karagwe	9,775	76.4	2,095	16.4	233	1.8	0	0.0	0	0.0	698	5.5	0	0.0	12,801
Bukoba Rural	5,893	75.5	1,179	15.1	0	0.0	0	0.0	0	0.0	737	9.4	0	0.0	7,808
Muleba	7,138	79.5	1,224	13.6	0	0.0	0	0.0	204	2.3	408	4.5	0	0.0	8,974
Biharamulo	5,411	82.1	627	9.5	0	0.0	0	0.0	235	3.6	314	4.8	0	0.0	6,588
Ngara	3,992	72.1	386	7.0	258	4.7	0	0.0	515	9.3	386	7.0	0	0.0	5,538
Bukoba	690	80.0	115	13.3	0	0.0	58	6.7	0	0.0	0	0.0	0	0.0	863
Urban															
Missenyi	1,657	52.9	276	8.8	552	17.6	92	2.9	552	17.6	0	0.0	0	0.0	3,130
Chato	1,834	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,834
Total	36,392	76.6	5,902	12.4	1,043	2.2	150	0.3	1,507	3.2	2,543	5.3	0	0.0	47,536

9.54: Number of households receiving extension advice on Calf Rearing by District during the 2007/08 agriculture year

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Karagwe	7,913	75.6	698	6.7	233	2.2	233	2.2	233	2.2	931	8.9	233	2.2	10,474
Bukoba Rural	3,683	73.5	589	11.8	0	0.0	0	0.0	147	2.9	589	11.8	0	0.0	5,009
Muleba	6,118	83.3	816	11.1	204	2.8	0	0.0	0	0.0	204	2.8	0	0.0	7,342
Biharamulo	3,529	88.2	157	3.9	0	0.0	78	2.0	78	2.0	157	3.9	0	0.0	4,000
Ngara	3,735	64.4	0	0.0	1,159	20.0	0	0.0	386	6.7	515	8.9	0	0.0	5,795
Bukoba Urban	345	50.0	173	25.0	58	8.3	58	8.3	0	0.0	58	8.3	0	0.0	690
Missenyi	2,670	82.9	92	2.9	0	0.0	92	2.9	276	8.6	92	2.9	0	0.0	3,222
Chato	2,344	67.6	306	8.8	0	0.0	204	5.9	0	0.0	611	17.6	0	0.0	3,465
Total	30,338	75.8	2,831	7.1	1,653	4.1	665	1.7	1,121	2.8	3,157	7.9	233	0.6	39,997

9.55: Number of households receiving extension advice on Use of improved Bulls by District during the 2007/08 agriculture year

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Karagwe	6,750	90.6	0	0.0	0	0.0	0	0.0	465	6.3	233	3.1	0	0.0	7,448
Bukoba Rural	2,799	82.6	147	4.3	0	0.0	0	0.0	0	0.0	442	13.0	0	0.0	3,389
Muleba	3,875	79.2	204	4.2	0	0.0	0	0.0	0	0.0	816	16.7	0	0.0	4,895
Biharamulo	1,804	88.5	235	11.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2,039
Ngara	2,447	76.0	129	4.0	0	0.0	0	0.0	515	16.0	129	4.0	0	0.0	3,220
Bukoba Urban	518	69.2	115	15.4	58	7.7	58	7.7	0	0.0	0	0.0	0	0.0	748
Missenyi	1,289	73.7	368	21.1	0	0.0	92	5.3	0	0.0	0	0.0	0	0.0	1,749
Chato	611	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	611
Total	20,093	83.4	1,199	5.0	58	0.2	150	0.6	981	4.1	1,619	6.7	0	0.0	24,098

9.56: Number of households receiving extension advice on Livestock Feeds processing by District during the 2007/08 agriculture year

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Karagwe	5,353	88.5	465	7.7	0	0.0	0	0.0	0	0.0	0	0.0	233	3.8	6,051
Bukoba	2,799	76.0	295	8.0	0	0.0	0	0.0	147	4.0	442	12.0	0	0.0	3,683
Rural															
Muleba	2,855	63.6	204	4.5	0	0.0	204	4.5	408	9.1	816	18.2	0	0.0	4,487
Biharamul	2,510	91.4	78	2.9	0	0.0	0	0.0	78	2.9	78	2.9	0	0.0	2,745
o															
Ngara	2,189	77.3	129	4.5	0	0.0	0	0.0	129	4.5	129	4.5	258	9.1	2,833
Bukoba	633	78.6	58	7.1	58	7.1	58	7.1	0	0.0	0	0.0	0	0.0	805
Urban															
Missenyi	1,381	93.8	92	6.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,473
Chato	510	83.3	0	0.0	0	0.0	0	0.0	102	16.7	0	0.0	0	0.0	611
Total	18,230	80.3	1,321	5.8	58	0.3	261	1.2	864	3.8	1,465	6.5	490	2.2	22,689

FISH FARMING

9.57: Number of Agriculture Households Practicing Fish Farming by District during the 2007/08 Agriculture Year

District	Agricultural Households Doing Fish Farming		Agricultural Households NOT Doing Fish Farming		Total Agriculture Households
	Number	%	Number	%	
Karagwe	0	0.0	94,263	100.0	94,263
Bukoba Rural	147	0.2	59,520	99.8	59,667
Muleba	0	0.0	82,599	100.0	82,599
Biharamulo	0	0.0	31,762	100.0	31,762
Ngara	0	0.0	52,159	100.0	52,159
Bukoba Urban	0	0.0	6,902	100.0	6,902
Missenyi	0	0.0	37,283	100.0	37,283
Chato	0	0.0	41,276	100.0	41,276
Total	147	0.0	405,762	100.0	405,910

9.58: Number of Agriculture Households by System of Fish Farming and District during the 2007/08 Agriculture Year

District	system of fish farming			
	Natural Pond	Dug out Pond	Water Reservoir	Total
Karagwe	147	0	0	147
Bukoba Rural	0	0	0	0
Muleba	0	0	0	0
Biharamulo	0	0	0	0
Ngara	0	0	0	0
Bukoba Urban	0	0	0	0
Missenyi	0	0	0	0
Chato	0	0	0	0
Total	147	0	0	147

9.59: Number of Agriculture Households by Source of Fingerling and District during the 2007/08 Agriculture Year

District	Source of fingerlings							Total
	Own Pond	Government Institution	NGOs / Project	Neighbour	Private Trader	Natural pond	Other	
Karagwe	0	0	0	0	0	0	0	0
Bukoba Rural	0	0	0	0	0	147	0	147
Muleba	0	0	0	0	0	0	0	0
Biharamulo	0	0	0	0	0	0	0	0
Ngara	0	0	0	0	0	0	0	0
Bukoba Urban	0	0	0	0	0	0	0	0
Missenyi	0	0	0	0	0	0	0	0
Chato	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	147	0	147

9.60: Number of Agriculture Households by Location of Selling Fish and District during the 2007/08 Agriculture Year

District	where sold								Total
	Neighbour	Local Market	Secondary Market	Processing Industry	Large Scale Farm	Trader at Farm	Did not Sell	Other	
Karagwe	0	0	0	0	0	147	0	0	147
Bukoba Rural	0	0	0	0	0	0	0	0	0
Muleba	0	0	0	0	0	0	0	0	0
Biharamulo	0	0	0	0	0	0	0	0	0
Ngara	0	0	0	0	0	0	0	0	0
Bukoba Urban	0	0	0	0	0	0	0	0	0
Missenyi	0	0	0	0	0	0	0	0	0
Chato	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	147	0	0	147

9.61: 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)	%
Karagwe	0	0	0	0	0	0
Bukoba Rural	12,670	100	19,005	100	17,679	100
Muleba	0	0	0	0	0	0.0
Biharamulo	0	0	0	0	0	0.0
Ngara	0	0	0	0	0	0.0
Bukoba Urban	0	0	0	0	0	0.0
Missenyi	0	0	0	0	0	0.0
Chato	0	0	0	0	0	0.0
Total	12,670	100	19,005	100	17,679	100

9.62: Total Number of Stocked Fish by Type and District during 2007/08 agriculture year

District	Mean Size of Pond (Sq.metre)	Type of Fish								Total
		Tilapia		Milkfish		Prawns/Crabs		Lulu		
		Number	%	Number	%	Number	%	Number	%	
Karagwe	0	0	0	0	0	0	0	0	0	0
Bukoba Rural	182	200	100.0	0	0	0	0	0	0	200
Muleba	0	0	0.0	0	0	0	0	0	0	0
Biharamulo	0	0	0.0	0	0	0	0	0	0	0
Ngara	0	0	0.0	0	0	0	0	0	0	0
Bukoba Urban	0	0	0.0	0	0	0	0	0	0	0
Missenyi	0	0	0.0	0	0	0	0	0	0	0
Chato	0	0	0.0	0	0	0	0	0	0	0
Total	182	200	100.0	0	0	0	0	0		200

9.63: 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	
Karagwe	0	0	0	0	0
Bukoba Rural	147	0	0	0	147
Muleba	0	0	0	0	0
Biharamulo	0	0	0	0	0
Ngara	0	0	0	0	0
Bukoba Urban	0	0	0	0	0
Missenyi	0	0	0	0	0
Chato	0	0	0	0	0
Total	147	0	0	0	147

9.64: Number of Agricultural Households By level of care of fish ponds and District, 2007/08 Agricultural Year

District	Level of care of fish ponds				Total
	High	Medium/Average	Low	Others	
Karagwe	0	0	0	0	0
Bukoba Rural	0	147	0	0	147
Muleba	0	0	0	0	0
Biharamulo	0	0	0	0	0
Ngara	0	0	0	0	0
Bukoba Urban	0	0	0	0	0
Missenyi	0	0	0	0	0
Chato	0	0	0	0	0
Total	0	147	0	0	147

BEE KEEPING

9.65: 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	%
Karagwe	1,629	2	92,633	98	94,263	100
Bukoba Rural	147	0	59,520	100	59,667	100
Muleba	408	0	82,191	100	82,599	100
Biharamulo	1,020	3	30,743	97	31,762	100
Ngara	1,288	2	50,871	98	52,159	100
Bukoba Urban	0	0	6,902	100	6,902	100
Missenyi	0	0	37,283	100	37,283	100
Chato	306	1	40,970	99	41,276	100
Total	4,798	1	401,112	99	405,910	100

9.66: Number of Agriculture Households Harvesting Honey by Type of Bee and District during the 2007/08 Agriculture Year

District	Was Honey Harvested?								
	Number of Agricultural Households that Produced/Collected Honey			Number of Agricultural Households that did NOT Produce/Collect Honey			Total		
	Stingless Bee	Sting Bee	Total	Stingless Bee	Sting Bee	Total	Stingless Bee	Sting Bee	Total
Karagwe	233	1,396	1,629	465	0	465	698	1,396	2,095
Bukoba Rural	0	147	147	0	0	0	0	147	147
Muleba	0	408	408	0	0	0	0	408	408
Biharamulo	78	863	941	78	78	157	157	941	1,098
Ngara	644	515	1,159	0	129	129	644	644	1,288
Bukoba Urban	0	0	0	0	0	0	0	0	0
Missenyi	0	0	0	0	0	0	0	0	0
Chato	0	306	306	0	0	0	0	306	306
Total	955	3,635	4,590	544	207	751	1,499	3,842	5,342

9.67: 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	
	Number of Households	Number of Hives	Number of Households	Number of Hives	Number of Households	Number of Hives	Number of Households	Number of Hives	Number of Households	Number of Hives	Number of Households	Number of Hives
Karagwe	698	0	1,396	232,980	2,095	232,980	698	233	1,396	237,170	2,095	237,402
Bukoba	0	0	147	0	147	0	0	0	147	295	147	295
Rural												
Muleba	0	0	408	0	408	0	0	0	408	2,447	408	2,447
Biharamulo	157	0	941	157,163	1,098	157,163	157	392	941	32,233	1,098	32,625
Ngara	644	0	644	644	1,288	644	644	8,242	644	14,295	1,288	22,538
Chato	0	0	306	0	306	0	0	0	306	3,771	306	3,771
Total	1,499	0	3,842	390,787	5,342	390,787	1,499	8,867	3,842	290,211	5,342	299,078

9.68: Quantity of Honey Harvested and Sold by Size of Bees and District during the 2007/08 Agriculture Year

District	Stingless Bee				Sting Bee				Total	
	Honey Harvested		Honey Sold		Honey Harvested		Honey Sold		Honey Sold	Honey Harvested
	Quantity (lts)	%	Quantity (lts)	%	Quantity (lts)	%	Quantity (lts)	%		
Karagwe	465	8	0	0	5,120	92	2,560	100	2,560	5,586
Bukoba Rural	0	0	0	0	1,621	100	1,473	100	1,473	1,621
Muleba	0	0	0	0	7,138	100	5,099	100	5,099	7,138
Biharamulo	3,137	2	2,353	2	154,575	98	143,596	98	145,949	157,712
Ngara	13,651	45	27,045	63	17,000	55	16,098	37	43,144	30,651
Bukoba Urban	0	0	0	0	0	0	0	0	0	0
Missenyi	0	0	0	0	0	0	0	0	0	0
Chato	0	0	0	0	13,657	100	13,249	100	13,249	13,657
Total	17,254	8	29,398	14	199,111	92	182,075	86	211,474	216,365

9.69: Average price of Honey (Tshs/litre) by Size of Bees and District during the 2007/08 Agriculture Year

District	Stingless Bee (Price per Litre)	Bee (Price per Litre)	Average Price Per Litre
Karagwe	0	1,750	1,500
Bukoba Rural	0	2,000	2,000
Muleba	0	1,375	1,375
Biharamulo	1,400	1,446	1,442
Ngara	1,700	760	1,230
Bukoba Urban	0	0	0
Missenyi	0	0.00	0
Chato	0	1,000	1,000
Total	1,261	1,420	1,388

9.70: 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
Karagwe	931	0	0	0	0	0	0	0	0	0	0	465	233	0	0	1,396	233
Bukoba Rural	147	0	0	0	0	0	0	0	0	0	0	0	0	0	0	147	0
Muleba	408	0	0	0	0	0	0	0	0	0	0	0	0	0	0	408	0
Biharamulo	863	78	78	0	0	0	0	0	0	0	0	0	0	0	0	941	78
Ngara	515	515	0	0	0	129	0	0	0	0	0	129	0	0	0	644	644
Bukoba Urban	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Missenyi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chato	102	0	0	0	0	0	0	0	0	102	0	102	0	0	0	306	0
Total	2,966	594	78	0	0	129	0	0	0	102	0	696	233	0	0	3,842	955

POVERTY MODULE

10.1: Number of households reporting average number of rooms and type of building Materials and District, 2007/08 Agricultural Year

District	Average number of rooms	Iron Sheets		Tiles		Concrete		Asbestos		Grass/leaves.		Grass & mud.		Other		Total	
		Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	3	77,039	82	465	0	233	0	0	0	16,292	17	233	0	0	0	94,263	100
Bukoba Rural	3	40,367	68	884	1	147	0	147	0	16,795	28	1,326	2	0	0	59,667	100
Muleba	3	59,757	72	0	0	0	0	408	0	19,987	24	2,243	3	204	0	82,599	100
Biharamulo	3	17,332	55	78	0	78	0	0	0	12,626	40	1,647	5	0	0	31,762	100
Ngara	3	24,985	48	129	0	0	0	515	1	25,758	49	773	1	0	0	52,159	100
Bukoba Urban	3	6,269	91	0	0	0	0	0	0	518	7	115	2	0	0	6,902	100
Missenyi	3	26,328	71	92	0	0	0	92	0	8,469	23	2,301	6	0	0	37,283	100
Chato	2	22,727	55	306	1	102	0	102	0	17,224	42	815	2	0	0	41,276	100
Total	3	274,804	68	1,954	0	560	0	1,264	0	117,669	29	9,453	2	204	0	405,910	100

10.2: Number of households reporting average number of rooms and type of Floor Materials by District 2007/08 Agricultural Year

District	Average number of rooms	Earth, Sand, Dung		Wood Planks, Bamboo, Palm.		Parquet Or Polished Wood		Ceramic Tiles, Terrazzo		Cement		Other		Total	
		Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	3	83,324	88	1,862	2	0	0	698	1	8,379	9	0	0	94,263	100
Bukoba Rural	3	46,260	78	884	1	442	1	147	0	9,429	16	2,505	4	59,667	100
Muleba	3	68,118	82	1,428	2	0	0	204	0	12,441	15	408	0	82,599	100
Biharamulo	3	28,703	90	78	0	0	0	78	0	2,902	9	0	0	31,762	100
Ngara	3	49,068	94	386	1	129	0	0	0	2,576	5	0	0	52,159	100
Bukoba Urban	3	3,163	46	288	4	58	1	0	0	3,278	47	115	2	6,902	100
Missenyi	3	28,629	77	644	2	0	0	276	1	7,733	21	0	0	37,283	100
Chato	2	35,467	86	611	1	0	0	0	0	5,198	13	0	0	41,276	100
Total	3	342,733	84	6,182	2	628	0	1,404	0	51,935	13	3,027	1	405,910	100

10.3: Number of households by type of Wall Materials and District, 2007/08 Agricultural Year

District	Wall Materials																	
	Grass		Poles And Mud		Sun-Dried Bricks		Baked Bricks		Wood, Timber		Cement Blocks		Stones		Other		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	8,844	9	69,126	73	2,793	3	13,034	14	0	0	465	0	0	0	0	0	94,263	100
Bukoba Rural	6,040	10	27,403	46	10,755	18	14,733	25	0	0	295	0	0	0	442	1	59,667	100
Muleba	5,507	7	53,230	64	5,711	7	17,539	21	408	0	0	0	0	0	204	0	82,599	100
Biharamulo	4,705	15	13,097	41	10,195	32	3,529	11	78	0	78	0	0	0	78	0	31,762	100
Ngara	11,591	22	30,909	59	7,341	14	1,417	3	386	1	129	0	129	0	258	0	52,159	100
Bukoba Urban	58	1	920	13	1,438	21	4,314	63	0	0	115	2	0	0	58	1	6,902	100
Missenyi	5,155	14	16,202	43	6,168	17	9,021	24	184	0	92	0	92	0	368	1	37,283	100
Chato	3,771	9	11,924	29	16,510	40	6,523	16	713	2	204	0	0	0	1,631	4	41,276	100
Total	45,671	11	222,811	55	60,910	15	70,109	17	1,770	0	1,378	0	221	0	3,038	1	405,910	100

10.4: Number of Agricultural Households reporting ownership of Assets by District, 2007/08 Agricultural Year

District	Radio			Landline phone			Mobile phone			Iron			Wheelbarrow		
	Yes	No	Total	Yes	No	Total	Yes	No	Total	Yes	No	Total	Yes	No	Total
Karagwe	72,384	21,878	94,263	1,862	92,401	94,263	27,464	66,798	94,263	19,085	75,177	94,263	3,724	90,539	94,263
Bukoba Rural	45,671	13,996	59,667	442	59,225	59,667	27,255	32,412	59,667	12,965	46,702	59,667	2,947	56,721	59,667
Muleba	58,941	23,658	82,599	1,020	81,579	82,599	29,572	53,026	82,599	14,480	68,118	82,599	5,507	77,092	82,599
Biharamulo	22,273	9,489	31,762	314	31,448	31,762	8,862	22,900	31,762	5,333	26,429	31,762	1,412	30,350	31,762
Ngara	30,909	21,250	52,159	258	51,901	52,159	7,985	44,174	52,159	7,856	44,303	52,159	1,932	50,227	52,159
Bukoba Urban	5,579	1,323	6,902	115	6,787	6,902	4,716	2,186	6,902	3,853	3,048	6,902	1,955	4,946	6,902
Missenyi	27,525	9,758	37,283	184	37,098	37,283	16,570	20,713	37,283	8,561	28,721	37,283	3,130	34,153	37,283
Chato	28,027	13,249	41,276	713	40,562	41,276	13,657	27,619	41,276	9,478	31,798	41,276	2,140	39,136	41,276
Total	291,308	114,601	405,910	4,908	401,002	405,910	136,082	269,828	405,910	81,612	324,298	405,910	22,746	383,164	405,910

...cont 10.4 :Number of Agricultural Households reporting ownership of Assets by District, 2007/08 Agricultural Year

District	Bicycle			Vehicle			Television / Video			Refrigerator			Motor Cycle		
	Yes	No	Total	Yes	No	Total	Yes	No	Total	Yes	No	Total	Yes	No	Total
Karagwe	33,516	60,747	94,263	4,655	89,608	94,263	3,026	91,237	94,263	1,396	92,866	94,263	8,844	85,418	94,263
Bukoba Rural	29,023	30,644	59,667	3,094	56,573	59,667	1,915	57,752	59,667	737	58,931	59,667	2,210	57,457	59,667
Muleba	38,138	44,461	82,599	5,914	76,684	82,599	2,651	79,947	82,599	1,428	81,171	82,599	2,243	80,355	82,599
Biharamulo	19,763	11,999	31,762	863	30,899	31,762	784	30,978	31,762	157	31,605	31,762	863	30,899	31,762
Ngara	13,136	39,023	52,159	3,992	48,167	52,159	1,288	50,871	52,159	515	51,644	52,159	1,417	50,742	52,159
Bukoba Urban	3,681	3,221	6,902	460	6,442	6,902	978	5,924	6,902	345	6,557	6,902	748	6,154	6,902
Missenyi	18,963	18,319	37,283	1,933	35,349	37,283	1,289	35,994	37,283	644	36,638	37,283	2,025	35,257	37,283
Chato	27,517	13,759	41,276	2,956	38,320	41,276	1,325	39,951	41,276	306	40,970	41,276	713	40,562	41,276
Total	183,738	222,172	405,910	23,867	382,043	405,910	13,256	392,654	405,910	5,528	400,382	405,910	19,063	386,846	405,910

10.5: Number of Agricultural Households Reporting Main Source of Energy for Lighting by District, 2007/08 Agricultural Year

District	Electricity		Solar		Hurican Lamp		Pressure Lamp		Wick Lamp		Candles		Fire Wood		Other		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	698	1	465	0	9,310	10	3,258	3	78,203	83	233	0	2,095	2	0	0	94,263	100
Bukoba Rural	884	1	147	0	5,746	10	2,947	5	49,502	83	0	0	442	1	0	0	59,667	100
Muleba	1,632	2	408	0	5,914	7	3,875	5	69,954	85	0	0	816	1	0	0	82,599	100
Biharamulo	392	1	157	0	4,784	15	314	1	25,096	79	0	0	863	3	157	0	31,762	100
Ngara	515	1	386	1	2,705	5	1,674	3	39,667	76	258	0	6,311	1	644	1	52,159	100
Bukoba Urban	1,323	19	173	3	920	13	173	3	4,314	63	0	0	0	0	0	0	6,902	100
Missenyi	1,565	4	368	1	4,695	13	2,117	6	28,353	76	92	0	92	0	0	0	37,283	100
Chato	102	0	0	0	8,459	20	1,529	4	29,759	72	408	1	713	2	306	1	41,276	100
Total	7,111	2	2,105	1	42,533	10	15,886	4	324,847	80	990	0	11,331	3	1,107	0	405,910	100

10.6: Number of Agricultural Households Reporting Main Source of Energy for Cooking by District, 2007/08 Agricultural Year

District	Electricity		Solar		Gas (hh biogas)		Bottled gas		Paraffin/kerosine.		Charcoal		Firewood		Crop Residues		Other		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	233	0	0	0	233	0	0	0	0	0	1,396	1	92,168	98	233	0	0	0	94,263	100
Bukoba Rural	0	0	0	0	0	0	0	0	0	0	147	0	59,520	100	0	0	0	0	59,667	100
Muleba	204	0	0	0	0	0	204	0	204	0	1,632	2	79,540	96	612	1	204	0	82,599	100
Biharamulo	0	0	0	0	0	0	0	0	0	0	1,882	6	29,723	94	157	0	0	0	31,762	100
Ngara	258	0	0	0	0	0	129	0	0	0	644	1	50,485	97	644	1	0	0	52,159	100
Bukoba Urban	0	0	0	0	0	0	0	0	58	1	920	1	5,809	84	115	2	0	0	6,902	100
Missenyi	184	0	92	0	0	0	92	0	0	0	1,013	3	35,902	96	0	0	0	0	37,283	100
Chato	0	0	102	0	0	0	0	0	0	0	4,994	1	35,772	87	408	1	0	0	41,276	100
Total	878	0	194	0	233	0	425	0	261	0	12,628	3	388,918	96	2,168	1	204	0	405,910	100

10.7: Number of Agricultural Households Reporting Main Source of Drinking Water during wet season by District, 2007/08 Agricultural Year

District	Piped Water		Protected Well		Protected / Covered Spring		Unprotected Well		Unprotected Spring		Surface Water (Lake / Dam / River / Stream)	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	13,267	14	6,284	7	3,026	3	1,862	2	15,361	16	31,654	34
Bukoba Rural	6,482	11	5,156	9	4,272	7	10,313	17	21,804	37	6,482	11
Muleba	6,118	7	4,079	5	12,849	16	4,283	5	39,974	48	9,993	12
Biharamulo	4,157	13	6,901	22	1,725	5	8,391	26	6,745	21	2,431	8
Ngara	7,856	15	9,273	18	9,015	17	4,379	8	11,977	23	8,242	16
Bukoba Urban	2,588	37	575	8	1,035	15	288	4	1,035	15	920	13
Missenyi	3,498	9	5,339	14	4,050	11	6,444	17	13,532	36	2,762	7
Chato	5,402	13	12,739	31	1,427	3	16,408	40	3,975	10	917	2
Total	49,368	12	50,347	12	37,400	9	52,368	13	114,403	28	63,402	16

Cont...10.7 Number of Agricultural Households Reporting Main Source of Drinking Water during wet season by District, 2007/08 Agricultural Year

Covered Rainwater Catchment		Uncovered Rainwater Catchment		Water Vendor		Tanker Truck		Other		Total	
Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
3,724	4	14,198	15	0	0	233	0	4,655	5	94,263	100
737	1	1,915	3	0	0	147	0	2,357	4	59,667	100
0	0	0	0	0	0	0	0	5,303	6	82,599	100
863	3	549	2	0	0	0	0	0	0	31,762	100
129	0	1,288	2	0	0	0	0	0	0	52,159	100
173	3	58	1	0	0	0	0	230	3	6,902	100
829	2	184	0	92	0	0	0	552	1	37,283	100
102	0	306	1	0	0	0	0	0	0	41,276	100
6,555	2	18,497	5	92	0	380	0	13,097	3	405,910	100

10.8: Number of Agriculture Households by Distance to Main Source of Drinking Water in wet Season and District during, 2007/08 Agricultural Year

District	Less than 100 Metres		100 - 299 m		300 - 499 m		500 - 999 m		1.00- 1.99 Km		2.00 - 2.99 Km		3.00 - 4.99 Km		5.00 - 9.99 Km		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	41,895	44	6,982	7	0	0	10,474	11	20,947	22	6,982	7	6,982	7	0	0	94,263	100
Bukoba Rural	8,840	15	4,420	7	2,210	4	22,099	37	22,099	37	0	0	0	0	0	0	59,667	100
Muleba	9,178	11	12,237	15	0	0	24,474	30	30,592	37	3,059	4	3,059	4	0	0	82,599	100
Biharamulo	1,176	4	3,529	11	1,176	4	8,235	26	17,646	56	0	0	0	0	0	0	31,762	100
Ngara	1,932	4	1,932	4	1,932	4	9,659	19	21,250	41	7,727	15	3,864	7	3,864	7	52,159	100
Bukoba Urban	2,588	37	3,451	50	0	0	863	13	0	0	0	0	0	0	0	0	6,902	100
Missenyi	6,904	19	2,762	7	0	0	13,808	37	6,904	19	2,762	7	4,143	11	0	0	37,283	100
Chato	3,057	7	7,644	19	1,529	4	12,230	30	13,759	33	1,529	4	1,529	4	0	0	41,276	100
Total	75,570	19	42,956	11	6,847	2	101,841	25	133,197	33	22,059	5	19,576	5	3,864	1	405,910	100

10.9: Number of Agricultural Households Reporting Main Source of Drinking Water during Dry season and District , 2007/08 Agricultural Year

District	Piped Water		Protected Well		Protected / Covered Spring		Uprotected Well		Unprotected Spring		Surface Water (Lake / Dam / River / Stream)	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	12,568	13	6,982	7	2,793	3	1,396	1	18,387	20	47,248	50
Bukoba Rural	5,746	10	5,156	9	5,451	9	10,313	17	22,983	39	8,987	15
Muleba	5,914	7	4,487	5	14,888	18	2,651	3	43,033	52	11,421	14
Biharamulo	4,000	13	9,646	30	1,961	6	9,097	29	4,705	15	2,196	7
Ngara	7,212	14	9,530	18	9,401	18	4,508	9	12,235	23	8,371	16
Bukoba Urban	2,186	32	575	8	1,380	20	288	4	1,323	19	1,035	15
Missenyi	3,498	9	7,917	21	4,050	11	6,536	18	9,666	26	5,063	14
Chato	6,115	15	11,109	27	1,834	4	16,103	39	3,771	9	1,733	4
Total	47,239	12	55,403	14	41,760	10	50,892	13	116,103	29	86,054	21

Cont...10.9: Number of Agricultural Households Reporting Main Source of Drinking Water during Dry season and District , 2007/08 Agricultural Year

Covered Rainwater Catchment		Uncovered Rainwater Catchment		Water Vendor		Tanker Truck		Other		Total	
Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
3,026	3	931	1	698	1	0	0	233	0	94,263	100
737	1	147	0	0	0	0	0	147	0	59,667	100
0	0	0	0	204	0	0	0	0	0	82,599	100
0	0	78	0	0	0	78	0	0	0	31,762	100
129	0	773	1	0	0	0	0	0	0	52,159	100
115	2	0	0	0	0	0	0	0	0	6,902	100
368	1	0	0	92	0	92	0	0	0	37,283	100
102	0	306	1	102	0	102	0	0	0	41,276	100
4,476	1	2,235	1	1,096	0	272	0	380	0	405,910	100

10.10: Number of Agriculture Households Distance by Main by Source of Drinking Water in Dry Season and District during, 2007/08 Agricultural Year

District	Less than 100 Meters		100 - 299 m		300 - 499 m		500 - 999 m		1.00- 1.99 Km		2.00 - 2.99 Km		3.00 - 4.99 Km		5.00 - 9.99 Km		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	17,456	19	3,491	4	0	0	6,982	7	24,438	26	20,947	22	20,947	22	0	0	94,263	100
Bukoba Rural	4,420	7	6,630	11	6,630	1	19,889	33	17,679	30	2,210	4	2,210	4	0	0	59,667	100
Muleba	0	0	9,178	11	0	0	27,533	33	39,770	48	3,059	4	3,059	4	0	0	82,599	100
Biharamulo	0	0	3,529	11	2,353	7	7,058	22	18,822	59	0	0	0	0	0	0	31,762	100
Ngara	3,864	7	3,864	7	1,932	4	9,659	19	17,386	33	7,727	15	5,795	11	1,932	4	52,159	100
Bukoba Urban	2,588	37	2,588	37	0	0	863	13	0	0	863	13	0	0	0	0	6,902	100
Missenyi	4,143	11	2,762	7	0	0	9,666	26	5,523	15	8,285	22	6,904	19	0	0	37,283	100
Chato	1,529	4	6,115	15	1,529	4	10,701	26	16,816	41	1,529	4	3,057	7	0	0	41,276	100
Total	33,999	8	38,156	9	12,443	3	92,351	23	140,435	35	44,620	11	41,973	10	1,932	0	405,910	100

10.11: Number of Agricultural Households Reporting Time Spent to and from Main Source of Drinking Water in Dry season and District , 2007/08 Agricultural Year

District	Less than 10 Minutes		10 - 19 Minutes		20 - 29 Minutes		30 - 39 Minutes		40 - 49 Minutes		50 - 59 Minutes		One hour and above		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	20,947	22	0	0	6,982	7	10,474	11	3,491	4	0	0	52,368	56	94,263	100
Bukoba Rural	0	0	0	0	0	0	33,148	56	2,210	4	0	0	24,309	41	59,667	100
Muleba	9,178	11	0	0	3,059	4	39,770	48	6,118	7	9,178	11	15,296	19	82,599	100
Biharamulo	1,176	4	1,176	4	1,176	4	16,469	52	0	0	1,176	4	10,587	33	31,762	100
Ngara	3,864	7	0	0	1,932	4	19,318	37	0	0	0	0	27,045	52	52,159	100
Bukoba Urban	1,725	25	863	13	863	13	3,451	50	0	0	0	0	0	0	6,902	100
Missenyi	1,381	4	2,762	7	1,381	4	12,428	33	1,381	4	2,762	7	15,189	41	37,283	100
Chato	0	0	0	0	0	0	18,345	44	1,529	4	0	0	21,402	52	41,276	100
Total	38,271	9	4,801	1	15,393	4	153,402	38	14,729	4	13,116	3	166,197	41	405,910	100

10.12: Number of Agricultural Households Reporting type of TOILET the household normally use by District, 2007/08 Agricultural Year

District	No toilet/bush		Flush toilet		Pit latrine - traditional		Improved pit latrine - hh owned		Other		Total	
	Number		Number		Number		Number		Number	%	Number	%
Karagwe	6,051	6	1,396	1	82,858	88	3,491	4	465	0	94,263	100
Bukoba Rural	3,389	6	589	1	53,627	90	2,063	3	0	0	59,667	100
Muleba	4,895	6	816	1	75,053	91	1,836	2	0	0	82,599	100
Biharamulo	2,117	7	235	1	27,919	88	1,255	4	235	1	31,762	100
Ngara	2,962	6	129	0	46,750	90	1,674	3	644	1	52,159	100
Bukoba Urban	0	0	230	3	5,406	78	1,265	18	0	0	6,902	100
Missenyi	829	2	460	1	34,429	92	1,565	4	0	0	37,283	100
Chato	5,096	12	102	0	33,123	80	2,956	7	0	0	41,276	100
Total	25,339	6	3,958	1	359,164	88	16,104	4	1,345	0	405,910	100

10.13: Number of Agricultural Households Reporting Number of meals the household normally has per day by District, 2007/08 Agricultural Year

District	Number of Meals							
	1		2		3		Total	
	Number	%	Number	%	Number	%	Number	%
Karagwe	2,327	2	69,824	74	22,111	23	94,263	100
Bukoba Rural	589	1	42,725	72	16,353	27	59,667	100
Muleba	1,020	1	58,941	71	22,638	27	82,599	100
Biharamulo	314	1	24,233	76	7,215	23	31,762	100
Ngara	1,803	3	48,167	92	2,189	4	52,159	100
Bukoba Urban	0	0	5,924	86	978	14	6,902	100
Missenyi	276	1	15,742	42	21,265	57	37,283	100
Chato	408	1	32,002	78	8,867	21	41,276	100
Total	6,737	2	297,557	73	101,616	25	405,910	100

10.14: Number of Agricultural Households Reporting Number of days the household Consumed Meat during the Preceeding Week by District, 2007/08 Agricultural Year

District	Did not eat meat		Once		Twice		Thrice		Fourth		Fifth		Sixth		Seventh		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	37,472	40	23,275	25	24,206	26	7,448	8	698	1	1,164	1	0	0	0	0	94,263	100
Bukoba Rural	39,925	67	14,291	24	3,683	6	1,031	2	147	0	589	1	0	0	0	0	59,667	100
Muleba	45,888	56	17,743	21	13,664	17	4,487	5	408	0	0	0	0	0	408	0	82,599	100
Biharamulo	14,273	45	12,391	39	3,921	12	941	3	78	0	78	0	0	0	78	0	31,762	100
Ngara	38,121	73	11,720	22	1,545	3	515	1	258	0	0	0	0	0	0	0	52,159	100
Bukoba Urban	1,840	27	2,416	35	1,955	28	518	7	115	2	58	1	0	0	0	0	6,902	100
Missenyi	10,863	29	16,386	44	7,917	21	1,565	4	368	1	0	0	0	0	184	0	37,283	100
Chato	20,281	49	11,211	27	8,357	20	1,121	3	0	0	204	0	0	0	102	0	41,276	100
Total	208,665	51	109,432	27	65,249	16	17,626	4	2,073	1	2,093	1	0	0	772	0	405,910	100

10.15: Number of Agricultural Households Reporting Number of days the household Consumed Fish during the Preceeding Week by District, 2007/08 Agricultural Year

District	Did not eat fish		Once		Twice		Thrice		Fourth		Fifth		Sixth		Seventh		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	28,861	31	19,551	21	24,206	26	12,801	14	3,258	3	3,258	3	465	0	1,862	2	94,263	100
Bukoba Rural	8,987	15	12,081	20	9,871	17	9,576	16	5,746	10	3,683	6	1,326	2	8,398	14	59,667	100
Muleba	9,993	12	14,684	18	16,316	20	17,336	21	10,401	13	8,770	11	1,224	1	3,875	5	82,599	100
Biharamulo	13,175	41	10,430	33	5,019	16	1,647	5	863	3	314	1	314	1	0	0	31,762	100
Ngara	43,015	82	6,568	13	2,447	5	129	0	0	0	0	0	0	0	0	0	52,159	100
Bukoba Urban	460	7	1,840	27	1,610	23	1,093	16	863	13	403	6	230	3	403	6	6,902	100
Missenyi	4,050	11	8,837	24	8,009	21	4,695	13	5,155	14	2,854	8	829	2	2,854	8	37,283	100
Chato	5,503	13	6,828	17	10,090	24	6,726	16	3,873	9	2,854	7	1,427	3	3,975	10	41,276	100
Total	114,045	28	80,821	20	77,567	19	54,003	13	30,159	7	22,135	5	5,814	1	21,366	5	405,910	100

10.16: Number of Agricultural Households Reporting the status of food satisfaction of the household during the Preceeding Year by District, 2007/08 Agricultural Year

District	Never		Seldom		Sometimes		Often		Always		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	28,162	30	35,610	38	16,525	18	7,681	8	6,284	7	94,263	100
Bukoba Rural	24,604	41	21,215	36	8,987	15	3,389	6	1,473	2	59,667	100
Muleba	22,842	28	32,020	39	9,382	11	12,645	15	5,711	7	82,599	100
Biharamulo	12,705	40	12,705	40	2,745	9	2,666	8	941	3	31,762	100
Ngara	13,523	26	24,083	46	4,894	9	7,083	14	2,576	5	52,159	100
Bukoba Urban	4,429	64	1,495	22	633	9	345	5	0	0	6,902	100
Missenyi	15,281	41	17,122	46	3,406	9	1,013	3	460	1	37,283	100
Chato	20,077	49	12,841	31	4,077	10	2,548	6	1,733	4	41,276	100
Total	141,623	35	157,092	39	50,648	12	37,369	9	19,178	5	405,910	100





10.17: Number of Agricultural Households Reporting Main Source of Income by District, 2007/08 Agricultural Year

District	Sale of food crops		Sale of Livestock		Sale of livestock products		Sale of cash crops		Sale of forest products		Business income		Wages or salaries in cash		Other casual cash earnings		Cash remittances	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Karagwe	67,962	72	3,491	4	2,560	3	9,077	1	0	0	3,957	4	1,396	1	4,189	4	233	0
Bukoba Rural	37,568	63	295	0	884	1	8,692	1	147	0	2,799	5	1,621	3	4,420	7	1,179	2
Muleba	53,842	65	1,428	2	1,224	1	6,118	7	0	0	4,079	5	2,447	3	8,770	11	1,224	1
Biharamulo	24,155	76	471	1	235	1	314	1	549	2	1,804	6	863	3	3,059	10	235	1
Ngara	40,439	78	902	2	644	1	773	1	0	0	1,288	2	1,803	3	5,538	11	129	0
Bukoba Urban	2,301	33	0	0	288	4	863	1	58	1	978	14	1,035	15	748	11	403	6
Missenyi	30,102	81	552	1	0	0	1,657	4	92	0	460	1	1,473	4	1,933	5	644	2
Chato	23,441	57	1,427	3	1,834	4	2,650	6	102	0	2,854	7	1,223	3	3,975	10	510	1
Total	279,810	69	8,565	2	7,669	2	30,144	7	948	0	18,218	4	11,861	3	32,631	8	4,556	1

10.18: Number of Agricultural Households Reporting Main Source of Income by District , 2007/08 Agricultural Year

District	Fishing		Other		Not applicable		Total	
	Number	%	Number	%	Number	%	Number	%
Karagwe	233	0	1,164	1	0	0	94,263	100
Bukoba Rural	1,326	2	737	1	0	0	59,667	100
Muleba	1,836	2	1,428	2	204	0	82,599	100
Biharamulo	0	0	0	0	78	0	31,762	100
Ngara	0	0	515	1	129	0	52,159	100
Bukoba Urban	115	2	115	2	0	0	6,902	100
Missenyi	184	0	92	0	92	0	37,283	100
Chato	2,140	5	713	2	408	1	41,276	100
Total	5,834	1	4,764	1	911	0	405,910	100

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							
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">d</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">d</div> <div style="margin: 0 5px;">/</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">m</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">m</div> <div style="margin: 0 5px;">/</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">y</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">y</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">y</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">y</div> </div>	Start Time End Time						
<table border="1" style="margin: auto;"> <thead> <tr> <th style="width: 50px;">Hour</th> <th style="width: 50px;">Minutes</th> </tr> </thead> <tbody> <tr> <td style="border: 1px solid black; width: 50px; height: 30px;"></td> <td style="border: 1px solid black; width: 50px; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; width: 50px; height: 30px;"></td> <td style="border: 1px solid black; width: 50px; height: 30px;"></td> </tr> </tbody> </table>		Hour	Minutes				
Hour	Minutes						
Field level checking by:							
District Supervisor	Name Signature Date / /						
Regional Supervisor	Name Signature Date / /						
National Supervisor	Name Signature Date / /						
District checking in Office							
District Supervisor	Name Signature Date / /						
For Use at Regional Level Only							
Data entered by:	Name Signature Date / /						
Queried	Name Signature Date / /						
Ministry of Agriculture and Food Security, Ministry of Livestock and Fisheries Development, Ministry of Agriculture and Environment of Zanzibar, Ministry of Water and Irrigation, Prime Ministers' Office Regional Administration and Local Government, Ministry of Industry Trade and Marketing, National Bureau of Statistics, and the Office of the Government Statistician General of Revolution Government of Zanzibar							

Definition and working page for page 1

General Definitions

Who is a Smallholder /Small Scale farmer?

Should have one or more of the following: in the 2007/08 farming season had one or more cultivated and planted farms. The farm land may either be owned, rented, borrowed. The farmer may also be raising 1 and 50 head of cattle, and/or between 5 and 100 head of sheep/Goats/Pigs, and/or between 50 and 1000

Household: A group of people who occupy the whole or part one or more housing units and makes joint provision for food and/or other household items. Usually such a group comprises a husband, wife, and their children. Other relatives may be members of the household if they happen to live and get food provisions from the same household. People who live together and eat from the same pot may be considered as members of the same household even if they stay in separate dwellings. An individual who lives and eat alone is considered as an independent household.

Household Head: A person who is acknowledged by all other members of the household either by virtue of his age or standing in the household as the head. He/she should be a permanent resident of the house and he/she is the main person responsible for decision making regarding use of household resources..

Agricultural Holding: This is an economic unit of agricultural production under single management. This unit may have been grown various crops. For the purpose of the survey, the agricultural holdings are restricted to those which meet one of the following conditions:

- Having or operated at least 25 sq meter of arable land
- Own or keep at least one head of cattle or five goats/sheep/five pigs or fifty chicken/ducks/turkeys during the agricultural year 2007/08 (from October 2007 to September 2008).

Question Specific Definitions:

Type of Agriculture holding Codes (Q2.1):

Crops only: A holding is referred to be a crop only holding if it has cultivated at least one piece of land. This also applies to all households owning or have kept livestock whose number does not qualify such households to be an agricultural holding (No cattle, less than 5 goats/sheep/pigs, less than 50 chickens/turkeys/rabbits).

Livestock only: A holding is referred to be a livestock only holding if it has exercised livestock husbandry only during the 2007/08 agricultural year.

NOTE

For agricultural holding only and pastoralist holding only, the number of livestock should be at least one head of cattle, not less than five goats/sheep/pigs, not less than 50 chickens /turkeys /rabbits. This also applies to households having or operated less than 25 sq meter of cultivated land (which does not qualify the household to be considered as agricultural holding) but has the number of livestock that makes the holding qualifies to be considered as livestock holding.

Pastoralist holding: This refers to a household which practices livestock production as its major income generating activity and a means of subsistence, but moves from one place to another searching for water and pasture for the livestock. This movement usually involves long distances and in many cases the whole household unit moves with the livestock and they have no permanent place of residence.

Both crops and livestock: A holding is referred to be a both crops and livestock if it has cultivated a piece of land equal or exceeding 25 sq meter and if such households have own or kept livestock whose number qualify such household be considered as an agricultural holding.

Procedures for questions:

Q 2.1 Type of agriculture household/holding

Using the options under the question classify the type of agriculture household/holding

Note: If the household had an acre of crops and raised 40 chickens during 2007/08, it is classified as 'Crops only' as the number of chickens does not qualify the household as a livestock holding.

1.0 IDENTIFICATION DETAILS		
1.1 Location		Identification <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Na.	Location Name	Codes
1.1.1	Region	<input type="text"/> <input type="text"/>
1.1.2	District	<input type="text"/>
1.1.3	Ward	<input type="text"/> <input type="text"/> <input type="text"/>
1.1.4	Village	<input type="text"/> <input type="text"/> <input type="text"/>
1.2 Details of the respondent or household head		
Na.		Codes
1.2.1	Name and number of local leader	<input type="text"/> <input type="text"/> <input type="text"/>
1.2.2	Name and number of household head	<input type="text"/> <input type="text"/>
1.2.3	Sex of household head	<input type="text"/>
1.2.4	Name of respondent	/
1.2.5	Relationship of Respondent to household head	<input type="text"/> <input type="text"/>
Relationship to household head codes (Q 1.2.5) Head of Household1 Son /Daughter.....3 Grandson/Granddaughter.....5 No relationship.....7 Spouse.....2 Father/Mother.....4 Other relatives.....6		
2.0 ACTIVITIES OF THE HOUSEHOLD		
2.1	Type of Agriculture Household	<input type="text"/> <input type="text"/>
Household agricultural activities codes(Q 2.1) Crops only.....1 Livestock only2 Pastoralist.....3 Crops and Livestock4		

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 correct code is 2. Code 4 should only be used for any other language which is not English or Kiswahili.

Education Level Reached (Col 10):

Ask the respondent the highest educational level reached. This aims at establishing whether at the time of enumeration the member of the household is studying has completed or has never studied. Make further enquiry for the level of education reached for those who have completed studies. Establish if the member had attained any training after graduation for the purposes for completing column number 9. For those who still continue attending studies during the period of this survey, establish their learning stage. For instance for a household member who studied up to Standard Three but did not complete his/her education at this level, then his/her highest education level reached is Standard Two. For those indicated under code 3 (not studied) in column 8 should be marked code 99 (Not applicable) in column 9.

Section 3.0 Note

Make sure that you define the hh proper to ensure that all the members of the hh are included. Ensure that you stress that the hh is not just the hh heads direct family and that it includes other people living and eating together with the family.

If you notice that the hh is large or you see many people around the hh and you have been given a smaller number of the hh members, make further enquiries until you are sure that you have captured all the hh members.

Section 3.0 Household information.

- ii) For each household member complete columns 1, 2, 3 and 3
After completing columns 1, 2, 3 and 3 for each household member, go back to the first household member and complete the remaining columns for that member.
- iii) Repeat step 2 for the rest of the household members.

3.0 HOUSEHOLD INFORMATION													
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	Read and Write	Education status	Level of education attained	On farm engagem ents	Main activity	Off farm income yes=1 no=2
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
01	1											
02												
03												
04												
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33												

Relationship to household head (Col 2)

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

Marital Status(Col 4)

Married.....1
 Single.....2
 Co-habiting3
 Divorced
 Separated.....4
 Widow/widower.....5

Survival of Parents(Col 6 & 7)

Yes.....1 No2
 Don't know3

Education Level(Col 9)

Studying1
 Has completed.....2
 Never been to school3

Reading and writing (Col 8)

Kiswahili.....1
 English2
 Kiswahili and English.....3
 Lugha nyingine.....4
 Cannot read or write.....5

Education Level (Col 10)

Primary education

Below Standard One.....00
 Standard One01
 Standard Two.....02
 Standard Three.....03
 Standard Four.....04
 Standard Five.....05
 Standard Six.....06
 Standard Seven.....07
 Standard Eight.....08
 Education.....19
 Training after Primary Ed...09
 Pre Form One.....10

Secondary Education

Form One.....11
 Form Two12
 Form Three.....13
 Form Four14
 Form Five15
 Form Six16
 Training after Secondary Ed....17
 University and other Tertiary Ed...8
 Adult
 Not applicable99

Involvement in farming activities (Col 11)

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

Off-farm Income (Col 13)

These are income made from activities NOT on the HH's farming activities. This can be from formal employment (e.g. in government etc.), temporary jobs, casual labourers and income generation activity and includes working for cash on other people's farms.

Indicate whether each member was involved in an off farm income generating activity during 2007/08

Main activity (Col 12)

Crop farming:01.
 Livestock farming/herding:02.
 Pastoralist03
 Fishing04
 Fish farming05
 Paid employment/
 Government/parastatal.....06
 Private/NGOs07
 Self employee (Off-farm activities)
 - With employees08
 - Without employees09
 Non paid household member (off-farm activities)10.
 Unemployed but available for work11
 Unemployed but unavailable for work..12
 House mother13
 Student14
 Unable to work too old, too young, retired, disabled, child 15
 Others (specify)98

Definitions and working page for page 3

Definitions for Key Specific Questions

Section 4.1 – Land Access/Ownership

These are areas that were used by the households for the 2007/08 farming season

Lease/Certificate of Ownership: Area under lease/certificate of ownership refers to the areas which were issued by the government. The household possesses government issued leasehold title or certificate of ownership. The land will normally be officially surveyed and boundaries marked. This includes leased land bought from others where the lease/certificate of ownership has been transferred.

Customary Law: This refers to the land which the household does not have an official government but its right of use is granted by the traditional leaders.

Bought: This refers to the areas of customary land that has been bought from others. This land does not have an official title and therefore is not leasehold.

Rented from others: Land rented from others for cash or for a fixed amount in crop produce (e.g. fixed number of bags at harvest).

Borrowed: use granted by land owner free of charge. Land owner can either be a lease holder or has right of access through customary law.

Share cropping: where the household is permitted to use land which is then paid for from a percentage of the harvested crop

Section 4.2 Land Use

Temporary crops: are sown and harvested during the same agricultural year

Permanent crops: are crops once sown or planted last for some years and need not to be replanted after each annual harvest.

Permanent crops /mixed crops: This is a mixture of permanent and seasonal crops. The two crops can either be randomly planted together or in a particular pattern e; for example intercropping (1 row of maize and 1 row of beans). A field that has been divided into plots for different crops is not mixed).

This is further subdivided into:

Mixture of Permanent crops – two or more permanent crops grown together

Mixture of Permanent and Temporary crops – permanent crop and annual crop together

Mixture of Temporary crops– two or more temporary, annual crops grown together

Pasture land: this is an area of owned/allocated land which is set aside for livestock grazing. It can be improved pasture where the farmer has planted grass, applied fertilized or where other means have been applied to improve the pasture. Or it can be natural pasture.

Natural Bush: Land which has naturally grown shrubs and trees and is considered productive but is not utilized for farming or livestock production.

Overview to section 4

Overview to section 4

Section 4.0: Preliminary note

Land Access/Ownership

Land access/ownership refers to the area utilized by the members of the household. This does not include communal land where the resources are shared between household members. It does not include official communal land that the household has sole access to for example a plot for crop farming in the communal area.

Procedures for questions

Section 4.0 – Land Ownership

1. Ask the respondent if he knows the total areas of land the household has sole access to. If he knows make a note in the calculation space
2. Ask the respondent the area of the different land ownership categories the household has sole access to (Q4.1, 1 to 4.1.7) and record in the appropriate spaces.
3. Add up the area of the different categories of land and compare it with the total area obtained in step 1 (if the respondent provided the information)
4. If the total area is different find out which one is correct and make

Section 4.2: Land Use

1. Ask the respondent the area of the different land use categories the household has sole access to (Q4.2.1 to 4.2.12) and record in the appropriate spaces.
2. Add up the area of the different categories of land and compare it with the total area obtained in section 4.0. The total area should be the same.
3. If the total area is different find out which one is correct and make amendments where appropriate.

4.0 LAND ACCESS/OWNERSHIP/TENURE			
4.1 LAND ACCESS/OWNERSHIP/TENURE		Identification <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	
Give details on Area owned by the household during 2007/08 agricultural season.			
Give area as reported by the respondent in acres		Area in Acre	
		4.1.8 Was the whole household area used during the 2007/08 agricultural season? (Yes=1, No=2) <input type="checkbox"/>	
4.1.1	Area under certificate of ownership	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	
4.1.2	Area owned under customary law	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	
4.1.3	Area bought	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	4.1.9 Do you consider to have enough land for your household? (Yes=1, No=2) <input type="checkbox"/>
4.1.4	Area rented from others	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	
4.1.5	Area borrowed from others	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	
4.1.6	Area share cropped from others	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	4.1.10 Is there any female who owns land or has customary rights to land ownership in this household? (Yes=1, No=2) <input type="checkbox"/>
4.1.7	Area under other forms of tenure	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	
Total area		<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	
4.2 LAND USE			
Area used by the household for various agricultural activities during 2007/08 agricultural season			
Enter area as reported by the respondent in acres		Area in acre	Working space for calculations
4.2.1	Area planted temporary monocrops	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	
4.2.2	Area planted temporary mixed crops (e.g. maize and beans)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	
4.2.3	Area planted permanent monocrops	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	
4.2.4	Area planted permanent mixed crops (e.g. banana, coffee, trees)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	
4.2.5	Area planted permanent and temporary mixed crops (e.g. maize and banana)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	
4.2.6	Area under pasture	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	
4.2.7	Area under fallow	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	
4.2.8	Area under natural forest	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	
4.2.9	Area planted trees	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	
4.2.10	Area rented to others	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	
4.2.11	Area unsuitable for agriculture	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	
4.2.12	Uncultivated arable land (minus area under fallow)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	
Total area		<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>	

Definitions and working page for page 4

Working table for the calculation area for annual mixed crops					
Mixed crops 1	Crop Name	Total area of mixed (acre)	Area for plants (acre)	Total number of plants	Total area of plants (acre)
(a)	(b)	(c)	(d)	(e)	(f)=(d)*(e)
Permanent crop 1			0.000		n
Permanent crop 2			0.000		n
Permanent crop 3			0.000		n
Permanent crop 4			0.000		n
Total Area for mixed crops			Total area for permanent crops		n
The remaining area for temp crops					
			% of temporary	Area for permanent crop	
Name of the crop temp/permanent 1					
Name of the crop temp/permanent 2					
Name of the crop temp/permanent 3					
Check total area			Check total area for temporary crops		

Mixed crops	Name of plant	Total area mix (acre)	Area for the plant (acre)	Total of plants	Total area for plants (acre)
(a)	(b)	(c)	(d)	(e)	(f)=(d)*(e)
Permanent crop 1			0.000		n
Permanent crop 2			0.000		n
Permanent crop 3			0.000		n
Permanent crop 4			0.000		n
Total area for mixed crops			Total area for permanent crops		n
The remaining area for temp crops					
			% of temporary	Area for temporary crop	
Name of the crop temp/permanent 1					
Name of the crop temp/permanent 2					
Name of the crop temp/permanent 3					
Check total area			Check total area for temporary crops		

Planted Area: Area in acre the household was able to plant

Harvested Area: Area in acre the household was able to harvest a large portion of harvests. this is the same as the area planted minus the area that was destroyed by floods/ pets /

Temporary/Annual Crops
Crops planted and harvested within 12 months after which time the plants die. Most annual crops are planted and harvested on a seasonal base.

Cash crop codes:

Code	Crop
50	Cotton
51	Tobacco
53	Payrethrum
62	Jute
19	Seaweed

Crop Codes(Cereal / Tubers/ Roots):

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

Vegetable Codes:

Code	Crop
86	Cabbage
87	Tomatoes
88	Spinach
89	Carrot
90	Chillies
91	Amaranth
92	Pumpkin
93	Cucumber
94	Egg plant
95	Water melon
96	Cauliflower
06	Mellon
05	nyanyachungu
02	Oca
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 column b and enter the ground area per acre for each permanent crop (from instructions for page 8) in colum d.

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

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

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

(v) Proceed to step 1 to calculate the area under each temporary crop.

1. Enter the name of each temporary crop in tyhe crop mix and estimate percentages of each crop.

2. Using the percentage for each crop, calculate the are for each crop from the remaining area under tenmporary crop.

3. After completing the excrise for all the fields, sum the area of each crop in tyhe mix plus any monocrops and uenter the totals in section 5.1.1 Collumn 3.

4. Once the quantity harvested is obtained , cakculate the yields (metric tonnes/acre) and compare the figures with the norms given in the crops code box. If there is significantly difference, check the area and the amount harvested..

5.0	PERMANENT AND TEMPORARY CROP PRODUCTION															Identificatioion								
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	Crop code	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				Irriga ted area	Use of fertilisers (If 6 is the answer in col 11 proceed to col 16)				Use of chemicals agaist weeds (If 6 is the answer in col 11 proceed to col 20)											
				The type of seed planted	Use of seeds	Quantity			Cost (Tshs)	Cultiv ated area	Tyep of fertili sers used	Quantity of fertilisers		Coist (Ths)	Cultiv ated areaE neo lililot umik a	Qunaity of agrochemicals		Cost						
						Quant ity	Quantity used					Meas urem ent	Quantity used			Quant ity	Quantity used							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)						
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)

Kg1

Seedlings....2

Gram.....3

Use of farm inputs (SCol10,11 & 16)

For the whole crop.....1

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

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

1/4 ofd the whole crop.....4

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

Not used6

Type of fertilisers (Col 12)

Organic fertiliser.....1

inorganic fertilisers.....2

Kipimo (S/wima 13)

Kilo1

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

Quantity (Col 17)

Kg1

Litre.....2

Gram.....3

Millilitre.....6

Definitions and working page for page 5

Storage (Col. 30, Q 5.1.1):

- **Traditionally Made structures:** The design of storage structures villagers have inherited from forefathers .
- **Improved Traditionally made structures:** The design of traditional storages structures 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 purposes of purchasing inputs/selling/storage of crops aiming at fetching better prices.
- **Cooperative Union:** A large inter-village/community set up in the district/ region or at national level for providing inputs, markets and storage of farmers' crops.
- **Government Regulatory laws for crops marketing:** Government instituted laws for regulating transportation and selling of crops.

Inputs (Q 5.1.1)

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

Planted Area: Area in acre the household was able to plant
Harvested Area: Area in acre the household was able to harvest a large portion of harvests. this is the same as the area planted minus the area that was destroyed by floods/ pests /

Temporary/Annual Crops
 Crops planted and harvested within 12 months after which time the plants die. Most annual crops are planted and harvested on a seasonal base.

Cash crop codes:
 Code Crop
 50 Cotton
 51 Tobacco
 53 Payrethrum
 62 Jute
 19 Seaweed

Crop Codes(Creal / Tubers/ Roots):
 Code Crop
 11 Maize
 12 Paddy
 13 Sorghum
 14 Buirush Millet
 15 Finger Millet
 16 Wheat
 17 Barley
 22 Sweet Potatoes
 23 Irish Potatoes
 24 Yams
 25 Cocoyams
 26 Onions
 27 Ginger

Vegetable Codes:
 Code Crop
 86 Cabbage
 87 Tomatoes
 88 Spinach
 89 Carrot
 90 Chillies
 91 Amaranths
 92 Pumpkin
 93 Cucumber
 94 Egg plant
 95 Water melon
 96 Cauliflower
 06 Melon
 05 nyanyachungu
 02 Ocra
 03 Radish
 01 Green Beans
 04 Bizar

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 calcaulet 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 instructions 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 temporary crops , subtract (-) the area fro permanent crops from thne total area of crop mix and enter the result in in the total area under temporary crops.
 (v) Proceed to step 1 to calculate the area under each temporary crop.
 1. Enter the name of each temporary crop in tyhe crop mix and estimate percentages of each crop.
 2. Using the percentage for each crop, calculate the are for each crop from the remaining area under temporary crop.
 3. After completing the excrise for all the fields, sum the area of each crop in tyhe mix plus any monocrops and uenter the totals in section 5.1.1 Collumn 3.
 4. Once the quantity harvested is obtained , cakculate the yields (metric tonnes/acre) and compare the figures with the norms given in the crops code box. If there is significantly differencece, check the area and the amount harvested..

Kagera Region Agriculture Sample Census - 2007/08

5.3 PERMANENT/PERENNIAL CROPS AND FRUIT TREE PRODUCTION CONTINUED																		Identification <div style="display: flex; justify-content: space-around; width: 100%;"> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> </div>							
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 answer 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 whole crop.....2

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

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

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

Main storage mechanisms (Col 33)

Local storage facilities.....1

Improved Local storage facilities.....2

Modern store.....3

Open drums/sacks.....4

Cealed drums.....5

In heaps.....6

not stored.....7

Other means (Specify).....8

Marketing problems (Col 35)

Very low prices.....01 No problem.....11

No transport.....02 Others (Specify).....98

High transport costs.....03 Not applicable.....99

Lack of crop buyers.....04

Markets located far away.....05

Problems with farmers Associations.....06

Problems with cooperative Unions.....07

Problems with Businessmen Association.....08

Stringent Government Conditions.....09

Quantity (Col 18, 22, & 26)

Kilogram.....1

Litre.....2

Gram.....3

Millilitre.....4

Definitions and working page for page 7

Storage (Col. 30, Q 5.2.1):

- **Traditionally Made structures:** The design of storage structures villagers have inherited from forefathers .
- **Improved Traditionally made structures:** The design of traditional storages structures 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 purposes of purchasing inputs/selling/storage of crops aiming at fetching better prices.
- **Cooperative Union:** A large inter-village/community set up in the district/ region or at national level for providing inputs, markets and storage of farmers' crops.
- **Government Regulatory laws for crops marketing:** Government instituted laws for regulating transportation and selling of crops.

Inputs (Q 5.2.1)

- Farm Yard Manure:** An organics fertiliser made on farm from animal dung. .
- Compost:** An organic fertiliser made on farm from decomposed plant materials.
- Insecticides:** This is the chemical used in protecting plants or killing pests.
- Fungicides:** Protects plants from fungi attack.
- Herbicide:** Chemicals used to control or kills weeds.
- Improved seeds:** Scientifically attested to be suitable for agricultural use.

Questions specific definitions

Q 5.2.1. Instructions on crops storage:

1. For the listed crops establish whether or not the household stored crops for 2007/2008 agricultural season.
2. For the listed crops give explanations on storage.

Crops storage is keeping/reserving crops in a container or a special place for future use.

Q 5.2.1 Col 33

1. For each of crops listed indicate major marketing problems for 2007/2008 agricultural season.

Working area/calculation space

Definitions and working page for page 8																																																																																																																																																						
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>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.</p> <p>Number of Trees: These include manure trees and premature trees.</p> <p>Number of mature plants: A total of fruit bearing tress (e.g. mango trees, orange trees, avocado trees e.t.c).</p> <p>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 calcuation of percentages of each crop OR Enter the number of tree in collumn 5, if the number of plants/ seedlings of permanent crops was excluded</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>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.</p> </div> </div> <div style="width: 50%;"> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p>Permanent crops:(crop oils)</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Code</th> <th style="text-align: left;">Crop</th> <th style="text-align: left;">Area per crop</th> </tr> </thead> <tbody> <tr><td>44</td><td>Palm Trees</td><td>0.00049</td></tr> <tr><td>45</td><td>Coconut tree</td><td>0.00037</td></tr> <tr><td>46</td><td>Cashew nut tress</td><td>0.00062</td></tr> </tbody> </table> </div> <div style="border: 1px solid black; padding: 5px;"> <p>Permanent crops (Cash crops)</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Code</th> <th style="text-align: left;">Crop</th> <th style="text-align: left;">Area per crop</th> </tr> </thead> <tbody> <tr><td>53</td><td>Sisal</td><td>0.00012</td></tr> <tr><td>54</td><td>Coffee</td><td>0.00049</td></tr> <tr><td>55</td><td>Tea</td><td>0.00037</td></tr> <tr><td>56</td><td>Cocoa</td><td>0.00049</td></tr> <tr><td>57</td><td>Rubber</td><td>0.00099</td></tr> <tr><td>58</td><td>Wattle</td><td>0.00099</td></tr> <tr><td>59</td><td>Kapok</td><td>0.00124</td></tr> <tr><td>60</td><td>Sugar-cane</td><td>0.00012</td></tr> <tr><td>61</td><td>Cardamon</td><td>0.00049</td></tr> <tr><td>63</td><td>Tamarin</td><td>0.00099</td></tr> <tr><td>64</td><td>Cinarmon</td><td>0.00124</td></tr> <tr><td>65</td><td>Nutmeg</td><td>0.00099</td></tr> <tr><td>66</td><td>Clove</td><td>0.00074</td></tr> <tr><td>18</td><td>Black pepper</td><td>0.00037</td></tr> <tr><td>34</td><td>Pigeon Peas</td><td>0.00025</td></tr> <tr><td>21</td><td>Cassava</td><td>0.00019</td></tr> <tr><td>75</td><td>Pineapple</td><td>0.00006</td></tr> <tr><td>86</td><td>Lemon Grass</td><td></td></tr> </tbody> </table> </div> </div> <div style="width: 45%;"> <p>Permanent crops:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Code</th> <th style="text-align: left;">Crop</th> <th style="text-align: left;">Area per crop</th> </tr> </thead> <tbody> <tr><td>70</td><td>Passion Fruit</td><td>0.00074</td></tr> <tr><td>71</td><td>Bananas</td><td>0.00037</td></tr> <tr><td>72</td><td>Avocado</td><td>0.00099</td></tr> <tr><td>73</td><td>Mango</td><td>0.00099</td></tr> <tr><td>74</td><td>Pawpaw</td><td>0.00037</td></tr> <tr><td>76</td><td>Orange</td><td>0.00074</td></tr> <tr><td>77</td><td>Grape fruit</td><td>0.00074</td></tr> <tr><td>78</td><td>Grape</td><td>0.00012</td></tr> <tr><td>79</td><td>Mandarin</td><td>0.00074</td></tr> <tr><td>80</td><td>Guava .</td><td>0.00074</td></tr> <tr><td>81</td><td>Plums</td><td>0.00074</td></tr> <tr><td>82</td><td>Apples</td><td>0.00074</td></tr> <tr><td>83</td><td>Peaches</td><td>0.00074</td></tr> <tr><td>84</td><td>Mifyoksi</td><td>0.00074</td></tr> <tr><td>85</td><td>Lime/lemon</td><td>0.00074</td></tr> <tr><td>68</td><td>Pomelo</td><td>0.00099</td></tr> <tr><td>69</td><td>Jack Fruit</td><td>0.00074</td></tr> <tr><td>97</td><td>Durian</td><td>0.00074</td></tr> <tr><td>98</td><td>Bilimbi</td><td>0.00074</td></tr> <tr><td>99</td><td>Rambutan</td><td>0.00074</td></tr> <tr><td>67</td><td>Bread Fruit</td><td>0.00099</td></tr> <tr><td>38</td><td>Malay apple</td><td>0.00074</td></tr> <tr><td>39</td><td>Star Fruit (Sakua)</td><td>0.00074</td></tr> </tbody> </table> </div> </div>										Code	Crop	Area per crop	44	Palm Trees	0.00049	45	Coconut tree	0.00037	46	Cashew nut tress	0.00062	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		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
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Definitions and working page for page 9

Storage (Col. 33, Q 5.3.1):

- **Traditionally Made structures:** The design of storage structures villagers have inherited from forefathers .
- **Improved Traditionally made structures:** The design of traditional storagesrutures improved through modern technology.

Marketing Challenges Q 5.3.1 Col. 35:

- **Farmers' Association:** Village farmers who came together and started an association for the puposes of purchasing inputs/selling/storage of crops aiming at fetching better prices.
- **Cooperative Union:** A large inter-village/community set up in the district/ region or at national level for providing inputs, markets and storage of farmers' crops.
- **Government Regulatory laws for crops marketing:** Government instituted laws for regulatina transportation and selling of crops.

Inputs (Q 5.3.1)

- Farm Yard Manure:** An organics fertliser made on farm from animal dung. .
- Compost:** An organic fertiliser made on farm from decomposed plant materials.
- Insecticides:** This is the chemical usde in protecting plants or killing pests.
- Fungicides:** Protects plants from fungi attack.
- Herbicide:** Chemicals used to control or kills weeds.
- Improved seeds:** Scientifically attested to be suitable for agricultural use.

Questions specific definitions

Q 5.3.1. Instructions on crops storage:

1. For the listed crops establish whether or not the household stored crops for 2007/2008 agricultural season.
2. For the listed crops give explanations on storage.

Q 5.3.1 Col 35

1. For each of crops listed indicate major marketing problems for 2007/2008 agricultural season.

Working area/calculation space

Definitions and working page for page 10

Investment in agriculture

Investment activities:

Investment activities refer to medium to long term farm development structures and projects. This can be irrigation structures, erosion control and water harvesting structures or other permanent or semi-permanent investment made on the land that the household owns.

Irrigated farming: Section 6.5:

Source of irrigation water (Col 1): The main source of the water used for irrigation.

Method of obtaining water (Col 2): The mechanism by which the water is extracted from the source

Irrigatable area (Col 3): The area the irrigation system is designed to cover in acreage

Area of irrigated land during the 2007/08 (Col 5): Area of land under irrigation during the 2007/08 agricultural year. This is the actual area and NOT the cumulative areas recultivated in 2 or more cropping seasons.

Farm Implements (Col. 1):

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

Sprinkler: The pump carried on the back or a hand used water pump

Hand used small tractor: A small tractor used in cultivation while the user walks on foot (see photo).



Section 6.2 Use of draft animals

Animals used in agricultural activities by the household during 2007/08 agricultural season.

Castrated Bulls: Castrated oxen meant for use in agricultural production.
Uncastrated Bulls: mature bulls used for garicultrual activities but are not castrated.

Cow: Farmers also use mature female cattle in agricultural activities due to shortage of bulls

Donkey: Mature Male or female donekys are also used for agricultural production.

Q 6.5 Irrigation.

1. If a household uses irrigated farming give explanations aon source and method of obatining water. .

2. **See Col 10, Q. 5.1.1 and 5.2.1 and Col 12, Q 5.3.1** to see if irrigation was applied to any crop.

Farm implements, Q 6.1:

1. Collumn 2 Indicate whether or not inputs were used

2. Complete collumn 3 by entering the number of inputs used.

Farm inputs: Sections 6.3 and 6.4

1. Collumn 2 Indicate whether or not inputs were used.

2. Compelte collumn 3 by indicating where the inouts were obatined and collumn 4 by indicating the distance from where the inputs were obatined

Compost: An organic fertiliser made on farm from decomposed plant materials.

Insecticides: This is the chemical usde in protecting plants or killing pests.

Fungicides: Protects plants from fungi attack.

Herbicide: Chemicals used to control or kills weeds.

Improved seeds: Scientifically attested to be suitable for agricultural use.

Tractor tiller	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.2.6 Power Tiller	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tractor hallow	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
Castrated bulls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
Uncastrated bulls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
Cows	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
Donkeys	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
Shredding Machine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
Power Tiller	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
Oxen pulled plough for making terraces	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							

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

IRRIGATED FARMING				
Did the household use irrigated farming during 2007/08 agriculture year? Yes=1, No = 2 <input type="checkbox"/>				
If the answer is yes proceed to Section 6.6				
Na.	Main source of water for irrigation	Main source of obtaining water	Area that can be irrigated (Acre)	Area irrigated during 2007/08 agriculture year (Acre)
	(1)	(2)	(3)	(4)
6.5.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

6.3 USE OF ORGANIC FERTILISERS				
6.3.1 Give details on the use of organic fertilisers during 2007/08 agriculture year				
Type of fertiliser	Used	Yes=1, No=2	Quantity	Area used (Acre)
(1)	(2)	(3)	(4)	(5)
6.3.2 Manure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.3.3 Compost	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Source (Col.3)	
Government.....01	
Cooperative Union.....02	
Farm inputs store/market.....03	
Auction.....04	
Development project.....05	
Corp buyers.....06	
Large Scale farms.....07	
Made by the household.....08	
Form neighbour.....09	
Cooperative Union.....10	
Others98	
Not applicable.....99	

Quantity (Col.3)	
Kg.....1	
Ton.....2	

Distance from the source (Col.4)	
Under 1 kilometre.....1	
Between One and three kilometres.....2	
Between three and 10 kilometres.....3	
Between 10 and 20 Kilometres.....4	
Over 20 Kilometres.....5	
Not applicable.....9	

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(Col.2)	
Flowing. (gravity).....1	
Using a bucket.....2	
Water pump (using hand or leg).....3	
Electric /fuel driven pump/ mafuta.....4	
Other (Specify).....8	

Definitions and working page for page 11

Q 6.6

The type of erosion control/Water harvesting (Col 1)

Terraces: Structures constructed on mountain slopes to provide flat terrain for crop planting.

Erosion control bunds: these are bunks of earth/stones built perpendicular to the slope to slow down the speed of water and thus preventing soil erosion. Its differs from terraces in that the soils on these banks are not at ground level .

Gabions: A box like structure made of wire and filled with large stones to prevent gully erosion.

Sand bags: Are used in controlling and preventing gully erosion
Tree belt/wind breaks: Trees planted against the wind direction for breaking wind speed..

Section 7.0 Acces to credit for crop or livestock production

Credit refers to something provided in cash or in kind (such as farm inputs, machines, livestock and other things) for crop or livestock production. The value of the credit must be repaid back to the lender. An Interest may or may not be attached to the value of the credit

The credit may be repaid either in cash or through farm produce to be harvested .

In this question the enumerator is at liberty to inquire up to three sources of credit where the farmer accessed credit from more than one source.

Section 8.0 Agricultural Extension Services

Agricultural Extension Services: Refers to educational services provided to farmers by extension 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 farmers with regards to markets of farm produce and provision of farm inputs

Q 6.6 Number of water harvesting structures and year of construction

1. The number water harvesting structures refers to the number of working / maintained structures and does not include derelict or irreparable 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 the 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 column 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?										<input type="checkbox"/>																																																	
(Yes=1, No=2)																																																											
6.6.2 Did the household applied any methods for erosion control/water harvesting during 2007/08 agricultural year?										<input type="checkbox"/>																																																	
(Yes=1, No=2) (If the answer is No, Proceed to Section 7.0)																																																											
<table border="1"> <thead> <tr> <th>Na.</th> <th>Mechanisms of controlling erosion/ Water harvesting (1)</th> <th>Number of water harvesting (2)</th> <th>Year of construction (3)</th> </tr> </thead> <tbody> <tr> <td>6.6.3</td> <td>Terraces</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>6.6.4</td> <td>Bunks for erosion control</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>6.6.5</td> <td>Gabions/sand bags</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>6.6.6</td> <td>Vetiva leaves</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>										Na.	Mechanisms of controlling erosion/ Water harvesting (1)	Number of water harvesting (2)	Year of construction (3)	6.6.3	Terraces	<input type="checkbox"/>	<input type="checkbox"/>	6.6.4	Bunks for erosion control	<input type="checkbox"/>	<input type="checkbox"/>	6.6.5	Gabions/sand bags	<input type="checkbox"/>	<input type="checkbox"/>	6.6.6	Vetiva leaves	<input type="checkbox"/>	<input type="checkbox"/>	<table border="1"> <thead> <tr> <th></th> <th>Type of erosion control/water harvesting (1)</th> <th>Number of water harvesting (2)</th> <th>Year of construction (3)</th> </tr> </thead> <tbody> <tr> <td>6.6.7</td> <td>Tree belt</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>6.6.8</td> <td>Soil bunks of water harvesting</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>6.6.9</td> <td>Trenches</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>6.6.10</td> <td>Other</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>											Type of erosion control/water harvesting (1)	Number of water harvesting (2)	Year of construction (3)	6.6.7	Tree belt	<input type="checkbox"/>	<input type="checkbox"/>	6.6.8	Soil bunks of water harvesting	<input type="checkbox"/>	<input type="checkbox"/>	6.6.9	Trenches	<input type="checkbox"/>	<input type="checkbox"/>	6.6.10	Other	<input type="checkbox"/>	<input type="checkbox"/>
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6.6.9	Trenches	<input type="checkbox"/>	<input type="checkbox"/>																																																								
6.6.10	Other	<input type="checkbox"/>	<input type="checkbox"/>																																																								
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 projects.....7 Bank.....2 Businessman/Shop.....5 Cooperative Union.....3 Private individuals.....6 Other.....9										Source of credit 7.1.1a 7.1.2a 7.1.3a <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Credit provided to 7.1.1b 7.1.2b 7.1.3b <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> (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 required1 Did not to be indebted.....3 Did not know how to access credit.....5 Credit delayed.....7 Did not credit existed.....9 Not available2 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)																																																											
<input type="checkbox"/>																																																											
8.2 Did the household participate in the contract farming during 2007/08 agriculture year? (Yes=1, No=2)																																																											
<input type="checkbox"/>																																																											
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 (1)										Received advice (Yes=1, No=2) (2)					Source of advise (3)																																												
8.3.1 Spacing										<input type="checkbox"/>					<input type="checkbox"/>																																												
8.3.2 Use of agrochemicals										<input type="checkbox"/>					<input type="checkbox"/>																																												
8.3.3 Soil erosion control										<input type="checkbox"/>					<input type="checkbox"/>																																												
8.3.4 Use of organic manure										<input type="checkbox"/>					<input type="checkbox"/>																																												
8.3.5 Matumizi ya mbolea za viwandani										<input type="checkbox"/>					<input type="checkbox"/>																																												
8.3.6 Use of improved seeds										<input type="checkbox"/>					<input type="checkbox"/>																																												
8.3.7 Use of modern farm implements										<input type="checkbox"/>					<input type="checkbox"/>																																												
8.3.8 Irrigation										<input type="checkbox"/>					<input type="checkbox"/>																																												
8.3.9 Crop Storage										<input type="checkbox"/>					<input type="checkbox"/>																																												
8.3.10 Pest control										<input type="checkbox"/>					<input type="checkbox"/>																																												
8.3.11 Other (Specify)										<input type="checkbox"/>					<input type="checkbox"/>																																												
(Source of agricultural advice (Cokl, 3) Government.....1 NGO/Development project.....2 Cooperative.....3 Large Scale farmer.....4 Radio/Newspapers.....5 Neighbour6 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 livestock during 2007/08 agricultural season (i.e. from October 2007 to September 2008). Also to establish the number of livestock as of 1st October 2008

Keeping or raising livestock is to to keep livestock at home while providing the livestock with animal feeds and medication and other services. The livestock could be owned by the farmer or kept on behalf of relatives or neighbours .

Sections 9.1.1 to 9.1.7 Cattle

Note:

Q 9.1 is for the actual number of cattle owned or kept by the household (as of 1st October 2008). This number does not include herds of cattle kept on behalf by relatives or neighbours; that is, the cattle outside the residential area of the household under survey.

1. If the the household keep mature fecund female cattle, it is expected that such a household will have calves which will be entered in question 9.1.6 or 9.1.7

Type of cattle (section 9.1.1 to 9.1.7)

Bull: Mature uncastrated male cattle used for breeding

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

Ox: Castrated male cattle used for farm work

Steer: Castrated male cattle used for meat

Heifer: Female cattle of 1 year up to the first calving

Section 9.3 Goat

Note:

Question 9.3 is for the actual number of owned or raised by the household (as of 1st October 2008) This number does not include goats kept on behalf by relatives or neighbours, that is the goat outside the residential area of the household under survey.

1. If the household has she goats, you would normally expect them to have kids

Type of Goat (Qs 9.3.1 to 9.3.5)

Billy Goat (he-goat): Mature Uncastrated male goat used for breeding

Castrated goat: Male goat that has been castrated

She Goat: Mature female goat over 9 months of age

9.0 LIVESTOCK (LIVESTOCK AND FISH)						
9.1 CATTLE						
Did your household keep or raise cattle during 2007/08 agriculture year? Yes=1, No= 2 (If the answer is No proceed to Section 9.3)						
Number of cattle as of 1.10.2008						
No.	Type of cattle	Number of indigenous cattle (2)	Number of improved cattle for meat (3) Dairy (4)		Total (5)	
9.1.1	Castrated bulls					
9.1.2	uncastrated bulls					
9.1.3	Cows					
9.1.4	Steers					
9.1.5	Heifer					
9.1.6	Male calves					
9.1.7	Female calves					
Grand total						
9.1.8 What main methods do you use to identify your cattle?						
Cattle identification methods Iron stamp (chapa moto).....1 Throat.....2 Ear/tail cutting.....3 Colour.....4 Earrings.....5 Other8						
9.2 Milk production: CATTLE						
No.	Season (1)	Type of cattle (2)	Number of milked cows (3)	Average of milk per cow per day (litre) (4)	Average number of days which your cows were milked (5)	Average price per litre per season (6)
9.2.1	Rainy	Improved				
9.2.2		Indigenous				
9.2.3	Dry	Improved				
9.2.4		Indigenous				
9.3 GOAT						
Did your household keep or raise cattle during 2007/08 agriculture year? Yes=1, No= 2 (If the answer is No proceed to Section 9.3)						
Number of goats as of 1.10.2008						
No.	Type of goat (1)	Number of indigenous goat (2)	Number of improved for meat (3) Dairy (4)		Total (5)	
9.3.1	Male uncastrated goat					
9.3.2	Male castrated goat					
9.3.3	She goat					
9.3.4	Male kid					
9.3.5	She kid					
Grand total						
Milk Production: GOAT						
No.	Season (1)	Number of milked goats (2)	Average of milk per goat per day (litre) (3)	Average number of days which your she goats were milked (4)	Average price per litre per season (5)	
9.3.6	Rainy					
9.3.7	Dry					

Definitions and working page for page 13

Q 9.1 and 9.3 : What is required is to establish whether or not the household kept or raised the listed livestock during 2007/08 agricultural season (i.e. from October 2007 to September 2008). Also to establish the number of livestock as of 1st October 2008

Keeping or raising livestock is to keep livestock at home while providing the livestock with animal feeds and medication and other services. The livestock could be owned by the farmer or kept on behalf of relatives or neighbours .

Sections 9.4 Sheep

Note:

Q 9.4 is for the actual number of sheep owned or kept by the household (as of 1st October 2008). This number does not include sheep kept on behalf by relatives or neighbours; that is, the sheep outside the residential area of the household under survey.

1. If the the household keep ewes, it is expected that such a household will have calves which will be entered in question 9.1.6 or 9.1.7

Type of Sheepe (Section 9.4.1 to 9.4.5)

Ram: Mature Uncastrated male sheept used for breeding

Castrated sheep: Male sheep that has been castrated

Ewe: Mature female sheep over 9 months of age

Lamb: Young sheep under 9 months of age.

Section 9.5 Pigs

Note:

Question 9.3 is for the actual number of pigs owned or raised by the household (as of 1st October 2008). This number does not include pigs kept on behalf by relatives or neighbours, that is the cattle outside the residential area of the household under survey. .

1. If the household has she goats, you would normally expect them to have kids in column

Type of Pigs (Qs 9.5.1 to 9.5.5)

Boar: Mature Uncastrated male pig used for breeding

Sow: Mature female pig that has given birth to at least one litter 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					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 9.5) 					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 sheep as of 1.10.2008					Number of pigsp as of 1.10.2008				
Na.	Type of sheep	Number of indigenous sheep	Number of improved	Total	Na.	Type Pigs	Number of pigs		
	(1)	(2)	(3)	(5)		(1)	(2)		
9.4.1	Ram	 	 	 	9.5.1	Boar	 		
9.4.2	Castrated sheep	 	 	 	9.5.2	Castrated male	 		
9.4.3	She sheep	 	 	 	9.5.3	Sow/Gilt	 		
9.4.4	Male lamb	 	 	 	9.5.4	Male piglet	 		
9.4.5	Female lamb	 	 	 	9.5.5	Female piglet	 		
Grand total 					Grand total 				
9.6 OTHER LIVESTOCK									
	Type of animal	Number as of 1 October 2008	Number of eggs 2007/08 agriculture year			Type of animal	Number as of 1 October 2008	Number of Eggs 2007/08 agriculture year	
	(1)	(2)	(3)			1	(2)	(3)	
9.6.1	Local chicken	 	 		9.6.6	Turkeys	 	 	
9.6.2	Layers	 	 		9.6.7	Rabbit	 		
9.6.3	Broilers	 			9.6.8	Donkeys	 		
9.6.4	Ducks	 	 		9.6.9	Horses	 		
9.6.5	Guinea pigs	 			9.6.10	Dogs	 		

Definitions and working page for page 14**Control of livestock diseases causing bugs**

Livestock worm control medicine: Medicine used to kill or control livestock on livestock . It is often used for cattle, goats, sheep and pigs.

Tiick: Is a dangerous bug that sucks blood from livestock and transmits animals diseases from one to the other animal.

Tse tse fly: A fly like bug that sucks blood from livestock and transmits diseases spreading sickness from one to the other animal.

Livestock advice (Section 9.8)

IA service provided by extension officers to livestock keepers for increasing livestock production.

9.7 LIVESTOCK DISEASES AND PEST CONTROL			Identificatio
Did you livestock during 2007/08 agriculture year? (Yes=1, No=2) (If the answer is No proceed to Section 9.7.5)		<input type="checkbox"/>	<input type="checkbox"/>
9.7.1	Which animals did your deworm? (Yes=1, No =2, Not applicable=3 in the relevant box) Cattle <input type="checkbox"/> 9.7.2 Goat/Sheep <input type="checkbox"/> 9.7.3 Pigs <input type="checkbox"/> 9.7.4 Poultry <input type="checkbox"/>		<input type="checkbox"/>
9.7.5 Do you experience tick problem with your livestock? (Yes =1, No = 2, Not applicable 3)		<input type="checkbox"/>	<input type="checkbox"/>
9.7.6 How did you control tick problem? <u>Control method (Q. 9.7.6):</u> Dipping.....1 Spaying.....2 Application of medicine on back bone.....3 None..4 Other.....8		<input type="checkbox"/>	NOTE : If answers to Qs 9.1 to 9.6 is No (THAT IS THE HOUSEHOLD DOES NOT RAISE LIVESTOCK), Proceed to q.9.9
9.7.7 Do you experience Tse tse problem with your livestock? (Yes =1, No = 2, Not applicable 3)		<input type="checkbox"/>	
9.7.8 How did you control Tse tse problem with your livestock? <u>Control method (Q. 9.7.8):</u> Dipping.....1 Spaying.....2 Traps.....3 None..4 Other.....8		<input type="checkbox"/>	
9.7.9 Do you experience Newcastle disease problem with your poultry? (Yes =1, No = 2, Not applicable 3)		<input type="checkbox"/>	
9.7.10 How do you control Newcastle disease problem with your poultry? <u>Control/curative methods (Q. 9.7.10):</u> Vaccination..1 Herbs.....2 None..3		<input type="checkbox"/>	
9.7.11 Did you experience Fowl Typhoid with your poultry? Yes=1, No=2, Not applicable=3		<input type="checkbox"/>	
9.7.12 How did you control/ cure Fowl Typhoid with your poultry? <u>Control/curative methods (Swali 9.7.12):</u> Vaccination..1 Herbs.....2 None..3		<input type="checkbox"/>	
9.7.13 Were your cattle vaccinated against the following diseases? (Yes = 1, No = 2, Not applicable=3). 9.7.13 A: Foot and Mouth diseases <input type="checkbox"/> 9.7.13 B: Skin disease <input type="checkbox"/>			
9.8 Extension services on livestock			
Did you receive the following extension advice on the following? (IF THE ANSWER IS NO IN COL 2 PROCEED TO THE FOLLOWING QUESTION)			
Na.	Livestock extension advice	Received Extension advice (Yes=1, No=2)	Source of Extension
	(1)	(2)	(3)
9.8.1	Feed and better feeding methods	<input type="checkbox"/>	<input type="checkbox"/>
9.8.2	Improved livestock shed (Goat, Dairy cattle, Poultry and pigs)	<input type="checkbox"/>	<input type="checkbox"/>
9.8.3	Milking and hygiene	<input type="checkbox"/>	<input type="checkbox"/>
9.8.4	Cattle fattening	<input type="checkbox"/>	<input type="checkbox"/>
9.8.5	Livestock diseases control	<input type="checkbox"/>	<input type="checkbox"/>
9.8.6	Livestock keeping in line with land availability	<input type="checkbox"/>	<input type="checkbox"/>
9.8.7	Pasture establishment and maintenance	<input type="checkbox"/>	<input type="checkbox"/>
9.8.8	Forming and strengthening groups/cooperatives	<input type="checkbox"/>	<input type="checkbox"/>
9.8.9	Calf rearing	<input type="checkbox"/>	<input type="checkbox"/>
9.8.10	Basics of production and use of improved bulls (AI)	<input type="checkbox"/>	<input type="checkbox"/>
9.8.11	Animals feed production	<input type="checkbox"/>	<input type="checkbox"/>
9.8.12	Other extension advice (Specify)	<input type="checkbox"/>	<input type="checkbox"/>
<u>Source of agriculture extension (Swali 3)</u> Government.....1 NGO/Development project.....2 Cooperative Union.....3 Large Scale farmer.....4 Radio/TV/Newspaper.....5 Neighbour.....6 Other source8			

Definitions and working page for page 15

General definitions

Fish farming: Refers to the rearing/production of fish. It is different from fishing in that in fish farming the fish have to be reared. While in fishing, fishing nets or traps are used to catch fish from rivers, lakes and the sea; thus fishing should not be included in this section

I
Question Specific Definitions (Q 9.9)

Production unit number (Col 1): A production unit is a pond river/lake which is treated as a separate entity for the production of fish eg it may be by virtue of manageable size, maturity of fish, type of fish etc. eg. a farmer may have 3 fish ponds (each one is a separate production unit).

Frequency of stocking (Col . 5): What is the number of time the farmer puts new fingerlings into the pond each year.

Fingerlings: These are young immature fish used for stocking ponds.

Sols: (Col 10 & 11)

If no fish were sold enter "0" in column 10 and 11`

Fish sold (Col.12)

Kama hakuna samaki waliouzwa jaza "0" katika safuwima 12

Working space for page 15

9.9 FISH FARMING														Identification 			
Did your household practice fish farming? Yes=1, No=2 (If the answer is no proceed to section 9.10) <input style="width: 30px;" type="text"/>																	
Give details on the fish farming during 2007/08 agriculture year																	
No.	Number of Ponds	Aina ya ufugaji	Square area of pond (m ²)	Source of fingerings	What is the frequency of stocking during the period?	Kiwango cha Huduma ya bwawa	Total number of stoked fish				Total number of fish harvested	Total weight of all fish		What is the main fish outlet?			
							Tialpia	Mwatiko	Crabs	Lulu		waliowuliwa (kg)	waliouzwa (kg)				
							(1)	(2)	(3)	(4)		(5)	(6)		(7)	(8)	(9)
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
 Other8

Standard of services to the pond (Col6)
 High leve1
 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
 Other8

mainly sold to? (Col 14)
 Neighbour...1 Auction.....3 Large Scale farmers.....5
 Open market...2 Fish processing industry..4 Private business people6
 Did not sell.....7 Other8

9.10 HONEY PRODUCTION										<input style="width: 30px;" type="text"/>				
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	<div style="border: 1px solid black; padding: 5px;"> Honey outlet Co 8 Neighbour...1 Auction.....3 Large Scale farmers.....5 Open market...2 Fish processing industry..4 Private business people6 Did not sell.....7 </div>					
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)						
9.10.1	Small bees													
9.10.2	Large bees													

9.11 AGRICULTURAL 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	No	Important for	Code	<div style="border: 1px solid black; padding: 10px;"> LIST OF CHALLENGES </div>			
	(1)	(2)		(1)	(2)				
9.11.1	Priority 1		9.11.4	Priority 4					
9.11.2	Priority 2		9.11.5	Prioty 5					
9.11.3	Priority 3								

01 Land availability

02 Land ownership

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 storage

18 Crop processing

19 Market information

20 High transporation costs

21 Destructive animals

22 Crop theft

23 Pests and diseases

24 Advice from Local government

25 Long dry spells

26 Conflicts between livetsock keepera and pastoralists

Definitions and working page for page 16**10.0 Household poverty indicators****Number of rooms used for sleeping in the household (Q 10.1.4)**

Include sitting room, dining room, kitchen, etc if used for sleeping.

It also includes rooms outside the main dwelling

A room is defined as a space which is separate from the rest of the building by a permanent wall or division. A building / house that is not divided into rooms is considered to have one room.

Household assets (Q 10.2):

These assets must be functional. Do not include if broken.

Access to drinking water (Q 10.4):

If there is more than one source use the one, which the hh uses most frequently.

Main source of hh cash income:(Q 10.7:




Activity that provides the hh with the most cash during 2007/08 agricultural season.

Kagera Region Agriculture Sample Census – 2007/08

Average/maximum yields per area									
Use this table to compare the yields calculated in Sections 5.1, 5.2 and 5.3.									
These stats are strictly to be used as a guide for the purpose of assisting to get the correct area and yields for each crop.									
Name of Crop	Kilogram/ha		Kilogram/acre		Name of Crop	Kilogram/ha		Kilogram/acre	
	Average	Max	Average	Max		Average	Max	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 Fungur 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

ACQ 3	United Republic of Tanzania		CONFIDENTIAL
			
 Village/Community Level Formats Access to and Use of Community Resources Farm Gate Prices of commodities produced by the village			
 Agricultural Sample Census 2007/2008			
Region		Ward	
District		Village	
		NUMBER OF FARMERS HH IN THE VILLAGE <i>To be filled by the enumerator after completing form ACLF2</i>	
		NUMBER OF HH MEMBERS <i>To be filled by the enumerator after completing form ACLF2</i>	
Enumerator Name _____		Signature _____	
Date of Enumeration <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">d</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">d</div> <div style="font-size: 10px;">/</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">m</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">m</div> <div style="font-size: 10px;">/</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">y</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">y</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">y</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">y</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <div>Start Time</div> <div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">Hour</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">Minutes</div> </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <div>End Time</div> <div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">Hour</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">Minutes</div> </div> </div>			
Field level checking by:			
District Supervisor	Name _____	Signature _____	Date ____/____/____
Regional Supervisor	Name _____	Signature _____	Date ____/____/____
National Supervisor	Name _____	Signature _____	Date ____/____/____
District checking in Office			
District Supervisor	Name _____	Signature _____	Date ____/____/____
For Use at Regional Level Only			
Data entered by:	Name _____	Signature _____	Date ____/____/____
Queried	Name _____	Signature _____	Date ____/____/____
<i>Ministry of Agriculture and Food Security, Ministry of Livestock and Fisheries Development, Ministry of Agriculture and Environment of Zanzibar, Ministry of Water and Irrigation, Prime Ministers' Office Regional Administration and Local Government, Ministry of Industry Trade and Marketing, National Bureau of Statistics, and the Office of the Government Statistician General of Revolution Government of Zanzibar</i>			

Definitions and working page for page 3

Question Specific Definitions:

Obtain answers to the following questions from the meeting between the enumerator and influential farmers in the village. Influential people can be Village Chairman, Village Government Executive Officer, Councillor, Ward Chairman, Extension Officer in the village or any other person in the village and who is well informed about village matters. It is important to not that these questions must be asked in groups (of more than one people) to obtain answers discussed and approved by many people.

Definitions of some specific terms

Access to community resources. Section 1.0

Community Resources: Resources in which the hh members have no individual claim to and which are shared together by all the village

Community Land: The area official demarcated by the village as shared/public land.

Squatting farmers Land: Communal land where individual hhs make sole claim to (for crop farming or fenced livestock) without official rights to ownership.

Available remaining Land: Official area of communal land minus areas of squatting farmers.

Government Land Reserve: Area set aside by the government as national reserve

Community tree planting scheme(Section 14.3)

Community Forest: A forest planted on the communal land which is planted, replanted or spt planted by the members of the village.

Plant Planting: An area designated by the village for planting a block of trees.

Spot Planted: Replanting an area where selective logging has been carried out. A tree is planted to replace the one that has been cut.

Indigenous Trees: Trees that are native to Tanzania

Exotic Trees: Trees that are not native to Tanzania

Non Government Organisation: Is managed by people from outside the village and it normally covers more than one village/District/Region. Its function is to provide deveeopment assistance to the farmer and is free from direct government links.

Village level organization: is managed by members of the village. Its purpose is normally to access/provide development assistance to the village

ACCESS TO COMMUNAL RESOURCES

1 ACCESS TO COMMUNITY RESOURCES									
1.1 Does the village set aside an area for communal resources e.g. forest, grazing, etc. (Yes=1 No=2)									<input type="checkbox"/>
Are of Community, Village, Wrad resources									
1.1.1 Total area of communal land		Area in acre			Official 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/KIJI/SHEHIA									
Community Resources		Distance from the resource in Km -season			Main Use		Instructions on distance from the resource (Cols 2 and 3): Distance is estimated from the centre of the village. If under 1 km 1, enter 0 If above 1 km 1 enter whole number , eg. 1.5km= 2km, 1.25km= 1km Main uses (Col. 4) Home or farm /livestock consumption...1 Sold to traders in the village.....2 Sold to the village market.....3 Sold to local wholesalers.....4 Sold to Big wholesalers.....5 Not available.....6		
		Dry (2)		Rainy (3)					
1.2.1 Water for human consumption									
1.2.2 Water for livestock									
1.2.3 Communal grazing land									
1.2.4 Communal firewood									
1.2.5 Wood for charcoal burning									
1.2.6 Wood for building poles									
1.2.7 Forest for bee keeping (honey)									
1.2.8 Hunting									
1.2.9 Fishing									
2.0 COMMUNITY PLANTED TREES									
2.1 Did your village have community planted trees during 2007/08 agriculture year? (Yes=1, No=2)									<input type="checkbox"/>
If the answer is no proceed to Section 3.0									
Details of the community tree planting scheme									
No.	Distance from the community forest	Forest Area (acre)	Type of Planting	Type of Trees	Source of seeds/ Seedlings	Number of Years since the start of planting	Main uses 2007/08 agriculture year	Main uses of communal forest products	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
2.2									
Type of planting (Col. 3) P/Olantion planting.....1 Spot planting.....2		Source of seedlings (Col. 5) Seeds collection and planting.....1 Village Nursery.....2 Department of Forestry.....3 Private Individuals.....4			Main Uses (Col. 7) Poles1 Wood2 Charcoal3 Firewood4 Other (Specify)		Main use of revenue (Col.8) Village development fund.....1 Household use.....2 Household income.....3		
Type of trees (Col. 4) Indigenous trees.....1 Exotic tree.....2 Both types.....3									
3.0 Non governmental Organisation (NGOs) Contact									
3.1 Did any NGO visit the village during 2007/08 agriculture year? (Yes=1, No=2) (If no proceed to Section 4)									<input type="checkbox"/>
Na.	Type of NGO	Visited Yes=1, No=2	Number of visits	Distance to the Office (km)	4.0 Community Based Organisation				
3.2	Extension/ Research				4.1 Did the village have any CBO during the 2007/08 agriculture year? (Yes=1, No=2)				
3.3	Service /Input provision				4.2 Did the village have any CBO during the 2007/08 agriculture year? (Yes=1, No=2)				
3.4	Community Development				4.3 Did the village have any CBO during the 2007/08 agriculture year? (Yes=1, No=2)				
3.5	Other				4.4 Did the village have any CBO during the 2007/08 agriculture year? (Yes=1, No=2)				
					4.5 Did the village have any CBO during the 2007/08 agriculture year? (Yes=1, No=2)				
5.1 Did the village have Field farm schools during 2007/08, agriculture year? (Yes=1, No=2)					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)				
5.3 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 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.				
5.4 Number of local ironsmiths					5.6 Number of training centres for draft animals				

Procedure: Administer this form after completing all smallholder questionnaires for the village.

1. Copy the name of all crops from Sections 5.1, 5.2 and 5.3 grown in the village from smallholder questionnaires. This should also include livestock raised by the household from questions 9.1, 9.3, 9.4 and 9.5 and enter them in col na 1 of this form. Also see codes for livestock below.
2. Enter price estimates per kg in col 5 and 6.


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Appendix V


Village Community Level formats

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Sub-village /ward leader listing from

Region _____ Code

Ward _____ Code


District _____ Code

Village _____ Code


Sub village leader Number	Name of Ward village leader	Number of Households		Comments
		Form Office Register	After enumeration	
(1)	(2)	(3)	(4)	(5)
 		 	 	
 		 	 	
 		 	 	
 		 	 	

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ACL F 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	Fields a	Number of								If the Respondent Qualifies X	Farmer Serial Number	
			Cattle				Goats	Sheep	Pigs	Kuku/Bata/ Rabbit			
			Total	Bulls	Cows	Calves							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
 													
 													
 													
 													

Kagera Region Agriculture Sample Census – 2007/08