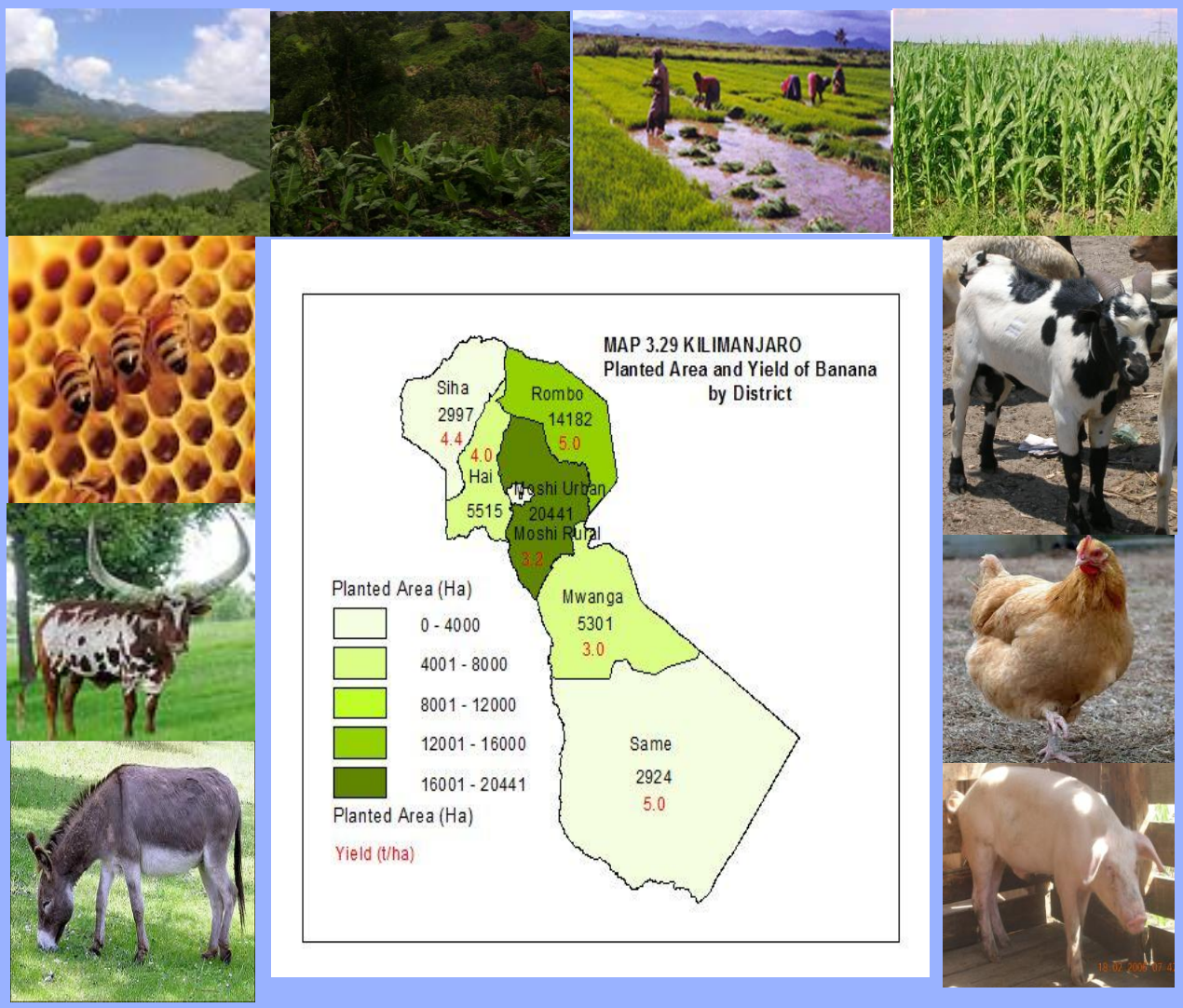
The United Republic of Tanzania

NATIONAL SAMPLE CENSUS OF AGRICULTURE 2007/2008

VOLUME Vc: REGIONAL REPORT: KILIMANJARO REGION



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, Prime Minister's Office, Regional Administration and Local Governments, Ministry of Industries, Trade and Marketing, The National Bureau of Statistics and the Office of the Chief Government Statistician, Zanzibar

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The United Republic of Tanzania

NATIONAL SAMPLE CENSUS OF AGRICULTURE

2007/2008 SMALL HOLDER AGRICULTURE

REGIONAL REPORT – KILIMANJARO REGION (Volume Vc)

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, Prime Minister's Office, Regional Administration and Local Governments, Ministry of Industries, Trade and Marketing, The National Bureau of Statistics and the Office of the Chief Government Statistician, Zanzibar

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ACRONYMS

ASDP	Agricultural Sector Development Programme
CSPro	Census and Survey Processing
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
Ha	Hectares
IAS	Integrated Agricultural Survey
ICR	Intelligent Character Recognition
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
MoW	Ministry of Water
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
PMO-RALG	Prime Minister's Office, Regional Administration and Local Government
PPS	Probability Proportional to Size
PSU	Primary Sampling Unit
RAAS	Rapid Appraisal Agricultural Survey
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 Agricultural Organization
VPO	Vice President's Office

PREFACE

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

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

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

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

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

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

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

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

EXECUTIVE SUMMARY

The executive summary highlights the main survey results obtained during the National Sample Census of Agriculture 2007/08. This report covers small-scale agriculture households in rural areas of region who were selected using statistical sampling techniques. The results presented in this report do not cover urban areas and large-scale farmers. Highlighted are important findings regarding agricultural production, productivity, husbandry, access to resources, levels of involvement in agricultural and related activities and poverty in Kilimnjaro region, the aim being to present an overview of the rural agricultural households and their levels of involvement in agricultural activities at regional level.

i) Household Characteristics

The number of agricultural households in region was 242,708 out of which 56,710 (23.4%) were involved in growing crops only, 1,700 (0.7%) rearing livestock only, and 184.298 (76%) were involved in crop production as well as livestock keeping. Agricultural households who were pastoralists were not recorded in Kilimnjaro in the census year. Most of the agricultural households ranked annual crop farming as an activity that provided most of their cash income followed by livestock keeping/herding, followed by fishing

region had a total literacy rate of 89 percent, the highest literacy rate was found in Moshi Rural which recorded the highest literacy rate of 91.4 percent followed by Mwanga (89.9 percent) and Hai (89.3%), Rombo (87.5%), Siha (86.6) and Same (86.1%), thus Same district had the lowest literacy rate. The number of heads of agricultural households with formal education (University and other Higher institutions) in region was 218,445 (100%). Out of this, those without formal education were 3,3,89 (50%) and those with only adult education were 3,420 (40% percent), and those with neither of the two categories were applicabe were1,843 (21%).

ii) Crop Production

Land Area

The total area of land available to smallholders was 238,142 ha. The regional average land area utilised for crop production per crop growing household was only 1.0 ha. This figure was below the national average of 1.3 hectares

Planted Area

The area planted with annual crops and vegetables was 180,171 hectares out of which 101,347 hectares (56%) were planted during long rainy season and 78,824 hectares (44%) were planted during short rainy season. An estimated area 115,167 ha (64% of the total planted area with annual and vegetable crops), followed by pulse with 49,521 ha (27.5%), oil seeds & oil nuts 8,124 ha (4.5%), fruits and vegetables 4,847 ha (3 %), roots and tubers 2,483 (1.4%), and cash crops 31ha (0.0%)

- **Maize**

  Maize was the dominant annual crop grown in region with a planted area of 107,932 ha followed by beans which had the second largest planted area. The area planted with maize constitute 60 percent of the total area planted with annual crops. Other crops in order of their importance (based on area planted) were beans, sunflower, paddy, cow peas, finger millet, groundnuts, tomatoes, Irish potatoes, ginger, Green gram, cocoyams, Amaranthus, Onions, and sweet potatoes.

- **Beans**

  Beans dominated the production of pulse crops in the region. The number of households growing beans in region in both long and short rainy seasons was 184,205. The total production of beans in the region was 24,153 tonnes from a planted area of 46,298 hectares resulting in a yield of 0.5t/ha.

- **Irish Potatoes**

  Irish Potatoes had the largest of the area planted with other root and tuber crops, followed by cocoyams, sweet potatoes, and yams. The number of households growing Irish Potatoes in the region was 3,802. This represented 32% of the total root and tuber crop growing households during both seasons in the region.

Sunflower

Sunflower was the leading among Oil seeds and Oils Nuts crops with the total planted area of 6,521 ha, other crops in this category were groundnuts and simsim. The number of households growing Sunflower was 32,618 representing 80 percent of the total Oils and seeds and Oil Nuts growing households in the region, resultiung in a yield of 0.2 t/ha.

Fruit and Vegetables

The total production of fruits and vegetables was 28,215 tons tonnes, produced in a total area of 4,847 ha. The most widely cultivated fruit and vegetable crop was tomatoes was the most widely grown crop with a production of 17,557 tonnes (62.2% of the total fruits and vegetables produced) followed by Ginger (2,488 tonnes, 9%), Cabbage (1,489 tonnes, 5.3%), Okra (1,367 tonnes, 4.8%), Chillies (1,322 tonnes 4.7%), Onions (1,231tonnes, 4.4%) andCarrots (634 tonnes, 2.2%), . The production of other fruit and vegetable crops grown in the region was relatively very small amounting to less than a thousand tons each.

Permanent Crops

The area smallholders planted with permanent crops was 197,500 (65% of the area planted with annual and permanent crops in the region). The most important permanent crop in region was banana which had a planted area of 51,361ha, (79.1% of the planted area of all permanent crops) followed by coffee (618 ha, 9.2 ha, 34.8%), sugar cane (146ha, 2.2%), coconut (51ha, 0.8%)%) and Mango (36ha, 0.5%). The remaining permanent crops collectively had a planted area of 547 ha (8.2.0%).

Improved Seeds

The planted area using improved seeds was estimated at 72,160 ha which represented 40 percent of the total area planted with the annual crops and vegetables. The percentage use of improved seed in the long rainy season was 24 percent, while the corresponding percentage use of improved seeds during short rainy season was 16 percent.

Use of Fertilizers

The use of fertilisers on annual crops is moderate with a planted area of 66,130ha (37 percent of the total planted area of 180,171ha in the region) during both long and short rainy seasons. Of the area planted with fertiliser organic fertiliser was applied to 22,846 ha representing 35 percent was planted with ferlizers and 43,284 representing 65 percent was planted with inorganic fertilizers. The highest percentage of the area planted with organic fertilizer was Moshi Rural district (31%) followed by Rombo (29%), Same and Mwanga with a moderate application of organic fertiliser of 14 and 10 percents respectively. Likewise, the highest percentage of the area planted with inorganic fertilizer was Moshi Rural district (31%) followed by Hai (28%) Siha (15%). Rombo and Same had 8% each. Mwanga had the smallest area planted with inorganic fertilisers of 3 percent.

Irrigation

The area of annual crops under irrigation was 36,607 ha representing 20 percent of the total area planted, with Moshi Rural having the largest area under irrigation (40%), followed by Same (24%) and Hai (22%) The area under irrigation during the long rainy season was 16,205 ha accounting for 44 percent of the total area under irrigation. Gravity was the main method of obtaining water for irrigation, accounting for about 93 percent of the methods of obtaining water, folowed by hand bucket (4%). The remaining sources of water were less important acoounting for less than 4 percent.

Crop Storage

There were 254,401 crop growing households that stored various agricultural products in the region accounting to 100% of the total crop growing households. The most important method of storing crops was airtight drum, applied by 160,331 households (30%), followed by sacks/open drum 151,363 households (28%), locally made tradional structure was used by 72,409 households (14%) and improved locally made structure used by 12,199 households (2%). Other methods were less important accounting for one and less than one percent.

Crop Marketing

The number of households that reported selling crops was 136,518 which represent 57.0 percent of the total number of crop growing households. The percentage of crop growing households selling crops was highest in Moshi Rural (27%) followed by Same (21%), Hai (19%), Rombo (13%) Siha (11%) and Mwanga (10%) . Among the marketing problems, low market price was leading reported by 11,255 households of crop growing households. Other problems reported include transport cost being too high (1,188 households), long distances to the markets (188 households) and lack of transport (63 households.

Crop Extension Services

The number of Agricultural households that received crop extension was 200,454 (83,2% of total crop growing households receiving extension in the region) Some districts have more access to extension services than others, with Moshi Rural district having a relatively high proportion of households (35%) that received crop extension messages followed by Rombo (19%), Hai (15%), Same (12.4%), Siha (9%), and Mwanga (9%).

Soil Erosion and Water Harvesting Facilities

The number of agricultural households that had soil erosion and water harvesting facilities on their farms was 54,859 which represent 23 percent of the total number of agricultural households in the region. The proportion of households with soil erosion control and water harvesting facilities was highest in Rombo district (48%) followed by Same (38%), Mwanga (20%), Moshi Rural (14%) Same (25%), Siha (10.4%), and Hai (8%).

iii) Livestock and Poultry Production

Cattle

The total number of cattle in the region was 494,135, representing 2. 3 percent of the total cattle population on Tanzania Mainland. The number of indigenous cattle in region was 321,171 (65 % of the total number of cattle in the region. The total number of improved cattle in region was 172,964 cattle out of which 10,980 were for beef breed and 161,984 were for diary breed.

- **Goats**

  The number of goat-rearing-households in region was 112,088 (47% of all agricultural households in the region) with a total of 644,334 goats giving an average of 6 head of goats per goat-rearing-household. Moshi Rural had the largest number of goats (33.2% of all goats in the region), followed by Rombo (26.8%), Same (14.2%) , Siha (10.4%), Hai (8.7%) and Mwanga (6.6%).

- **Sheep**

  Pig population increased from 51,372 in 1999 to 155,070 in 2003 at a growth rate of 50 percent. The pig population decreased at a growth rate of -4 percent from 155,070 in 2003 to 123,696 in 2008.. The number of sheep-rearing households was 63,608 (26% of all agricultural households in region) rearing 355,961 sheep, giving an average of 6 heads of sheep per sheep-rearing household.

- **Pigs**

  Piggery is the least important livestock keeping activity in the region after cattle, goats and sheep. The region ranks 4thout of 21 Mainland regions and has 9 percent of the Mainland total pigs.

- **Chicken**

  The poultry sector in region was dominated by chicken production.The number of households keeping chicken was 182,949 raising about 1,657,479 chickens. This gives an average of 9 chickens per chicken-rearing household. Out of the total chicken raised in the region 1,521,980 were indigenous chicken, accounting for 92% and 135,500 were improved chicken accounting for 8%. Moshi Rural had the highest number of chicken raised in the region (617,620 chicken, 37.3), followed by Hai (241,215 chicken, 14.6%)

Use of Draft Power

Use of draft animals to cultivate land in region is encouraging 24,313 households (10% of the total agricultural households in the region) using them. The number of households that used draft animals in Siha district was 8,316 (34% of the households using draft animals in the region). Moshi Rural district had the second highest number of households using draft animals at 5,922 (24%), followed by Mwanga (2,476 households, 10%), Same (352 households 1.4%) and Rombo (216 households, 1%)

iv) Poverty Indicators

Availability of Toilets

A large number of rural agricultural households use traditional pit latrines (196,610 households, 81% of all rural agricultural households). This is followed by improved pit latrines (30,195 households, 12.4%) flush toilets (12,176 houeholds 5%),. However, 3,371 households (1.4%) in the region had no toilet facilities.

Household Assets

Out of all assets, the radio was the most common household assets and was owned by 84% of the households, followed by Mobile phones (58.1%), Pressing Iron (55%), Bicycle (30%) wheelbarrow (25.2%), vehicles (8%), Refrigeratorss (6%), and Motor Cycles (3.2%).

Source of Lighting Energy

Hurricane lamp was the most common source of lighting energy in the region. About 40 percent of the total rural households used this source of energy followed by wick lamp (39%), main electricity (16), and pressure lamp (4%), the remaining constitute less than (5%).

Energy for Cooking.

The most prevalent source of energy for cooking was firewood, which was used by 96 percent of all rural agricultural households. The second most common source of energy for cooking was charcoal (2 percent), Mains Electricity (1.11%, and crop residue (0.8%). The rest of energy sources accounted for less than 1 percent each. These were solar energy (0.1%), Gas (Biogas) (0.2%), bottled gas (0.3%) paraffin/kerosene (0.2%),

- **Roofing Materials**

  The most used roofing material (for the main dwelling) was iron sheet and was used by 93% of the rural agricultural households. It was followed by grass/leaves (5%), grass / mud (0.7%), tiles (0.6%), asbestos (0.2%) and Concrete and Others each 0.1 percent.

- **Number of Meals per Day**

  About 55% of the households in the region took three meals per day, 38% took two meals, 7 percent took one meal and 0.5 percent took four meals. The region did not report any households as having four and above meals per day.

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1 Background Information

1.1 Introduction

In this section of the report a brief description of the regional profile is presented with specific focus on geographical location, land area, climate, administrative set up, population and socio-economic indicators. This is to enable the reader with a general understanding of the region and its resources.

1.2 Geographical Location and Boundaries

Tanga region is situated at the North-East corner of Tanzania between 4° and 6° degrees below the Equator and 37° -39^o10' degrees East of the Greenwich Meridian. It (Tanga) shares borders with Kenya to the North, Morogoro and Coast regions to the South, Kilimanjaro and Arusha regions to the West and the Indian Ocean to the East.

The region comprises of eight districts. These are Lushoto, Korogwe, Muheza, Tanga, Pangani, Handeni, Kilindi, and Mkinga. The region headquarters is located in Tanga District.

1.3 Land Area

The region has a total area of 13,209 km2, or 1.4% of the Area of the entire Tanzania Mainland

1.4. Temperature

In the Mountainous ares templeture range from about 15c – 30c . The soil of the region vary but are dominated by alluvial soil in the lowland areas which through irrigation hav e high agricultural potential .This is a blessing since the lowland have unreliable rainfall in the highland the soil being of volcanic origin are very fertile. Mount Kilimanjaro's rain shadow dramatically reduces rainfall

1.4.1 Rainfall

The region has two main rainy seasons - the short and the long rainy seasons. The short rainy season (Vuli) is from September to November and the long rainy season (Masika) is from April to Mid June

1.5 Population

According to the 2002 Population and Housing Census, Kilimanjaro had a total of 1,376,702 inhabitants and representing 4.1% of Total population of Tanzania Mainland

2.0 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 2002/03 agricultural year. It also explains the sampling procedures, designing and implementation of the data processing system.

This report (Volume Vn) is among the 21 regional reports for the Mainland. Other Census reports include the Technical Report (Volume I), Crop Sector Report at National level (Volume II), Livestock Report at National level (Volume III), Large Scale Farms Report (Volume IV), Regional Reports (Volume V series), Zanzibar Livestock Report (Volume VI) and Zanzibar Crop Sector Report (Volume VII). Unlike the 2002/03 Agricultural Sample Census, the 2007/08 Sample Census does not have a separate report for Smallholder Household Characteristics and Access to Natural Resources Report. Other thematic reports will be produced depending on the demand and availability of funds.

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

2.1 The Rationale for Conducting the National Sample Census of Agriculture

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

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

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

2.2 Census Objectives

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

The census was carried out in order to:

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

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

- Establish baseline data for the measurement of the impact of high level objectives of the Agricultural Sector Development Programme (ASDP), National Strategy for Growth and Reduction of Poverty and other rural development programmes and projects.

2.2.1 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).

2.3 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.

2.3.1 Census Organization

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

At the national level, the Census was headed by the Director General of the National Bureau of Statistics, Tanzania Mainland in collaboration with the Chief Government Statistician, Tanzania Zanzibar. The planning Group formed by the Director General of NBS and the Chief Government Statistician consisted of staff from the Department of Agriculture Statistics of NBS, Department of

Economic Statistics of OCGS, Department of Policy and Planning of the Ministry of Agriculture, Food Security and Cooperatives, Department of Policy and Planning of the Ministry of Livestock and Fisheries Development in the Mainland. Ministry of Livestock and Fisheries and the Ministry of Agriculture and Natural Resources in Zanzibar.

The Planning Group was responsible for all the census operations. Implementation of the census activities at the regional level was overseen by the Regional Statistical Managers of NBS and the Regional Agricultural Supervisors from the Prime Minister's Office, Regional Administration and Local Government. At the district level, the census activities were managed by two supervisors from the Prime Minister's Office, Regional Administration and Local Government (PMO-RALG). The supervisors managed the enumerators who also came from PMO-RALG. As for Zanzibar, implementation of the census activities at the regional level was overseen by the Regional Statistical Officers and Regional Agricultural Officers. At District level, implementation of the census activities were 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.

2.3.2 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.

2.3.3 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 1.1 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

2.3.4 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.

2.3.5 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.

2.3.6 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.

2.3.7 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.

2.3.8 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.

2.3.9 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.

2.3.10 Data Processing

Data processing involved the following process:

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

Data Entry

Scanning and ICR data capture technology was used. This did not only increase the speed of data entry but also increased the accuracy due to reduction of keystroke errors. Interactive validation routines were incorporated into the ICR software to trap errors during the verification process. Prior to scanning, all the questionnaires underwent a manual cleaning exercise by checking that the questionnaire had a full set of pages, correct identification and good hand-writing. A score was given to each questionnaire based on the legibility and the completeness of enumeration. This score was used to assess the quality of enumeration and supervision. CSPro was used for data entry of the questionnaires that were rejected by the ICR extraction application.

Batch Validation

A batch validation program was developed in CSPro in order to identify inconsistencies within a questionnaire. This was in addition to the interactive validation during the ICR extraction process. The procedures varied from simple range checking within each variable to more complexes checking between variables. After data cleaning, the tables were prepared based on a pre-designed tabulation plan.

Tabulation

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

Report Writing

The report writing was outsourced to Sokoine University of Agriculture. It focused on the regional comparisons, time series and national estimates. Microsoft Excel was used to produce charts; Arc GIS and Excel were used to generate maps, whereas Microsoft Word was used in cmpiling 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.

2.4 Funding Arrangements

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

3. CENSUS RESULTS

This part of the report presents the census results for region, based on the statistical data tables presented in Appendix A2. The results are presented in various forms including brief summaries, charts, condensed tables, graphs and s to facilitate understanding of information among the users.

Comparisons are made between related variables and between districts. Comparisons are also made between the current and the 2003 surveys results. The results are divided into four main sections which include household characteristics, crop results, livestock results and poverty indicators. In comparison, as for the 2003 censuses, in the current survey more effort has been expanded in analyzing the results in order to formulate solid conclusions.

3.1 Household Characteristics

3.1.1 Type of Household

region had a total of 242,708 agricultural households. Out of this total, Moshi Rural had the largest number of agricultural households (85,663), and thus leading by 35 percent followed by Rombo (43,779 households, that is 18 percent), Same (35,650 households, 15 percent) and Hai (35,154 households, 14 percent). Mwanga and Siha had the least number of agricultural households that is 20,890 and 21,572 households respectively amounting to only 9 percent in each of the two districts. Overall, the total number of agricultural households available for 2007/08 agricultural census was slightly higher in most districts (except Rombo and Hai) than was the case for the 2003 agricultural census. For Hai district the number of agricultural households went down because the district was divided into two districts, Hai and Siha.

Agricultural household by type indicates that crops and livestock keeping was practiced by most households (185,997) that is 77.2 percent, followed by crops only (56,710 households) that is 23.4 percent. Livestock only was practiced by the smallest number of agricultural households (1,700) that is 0.7 percent. There were no households engaged in pastoral activities. This was unlike in the 2003 agricultural census report which indicates that pastoral activities were practiced by a small number of agricultural households (35, 0.1%) in Region. (Table 3.1, Chart 3.1 and 3.01, 3.02, 3.03, 3.4, 3.05 and 3.06)

Chart 3.1 Agriculture Households by Type

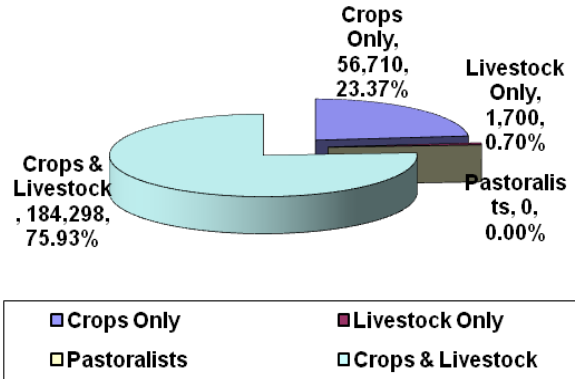
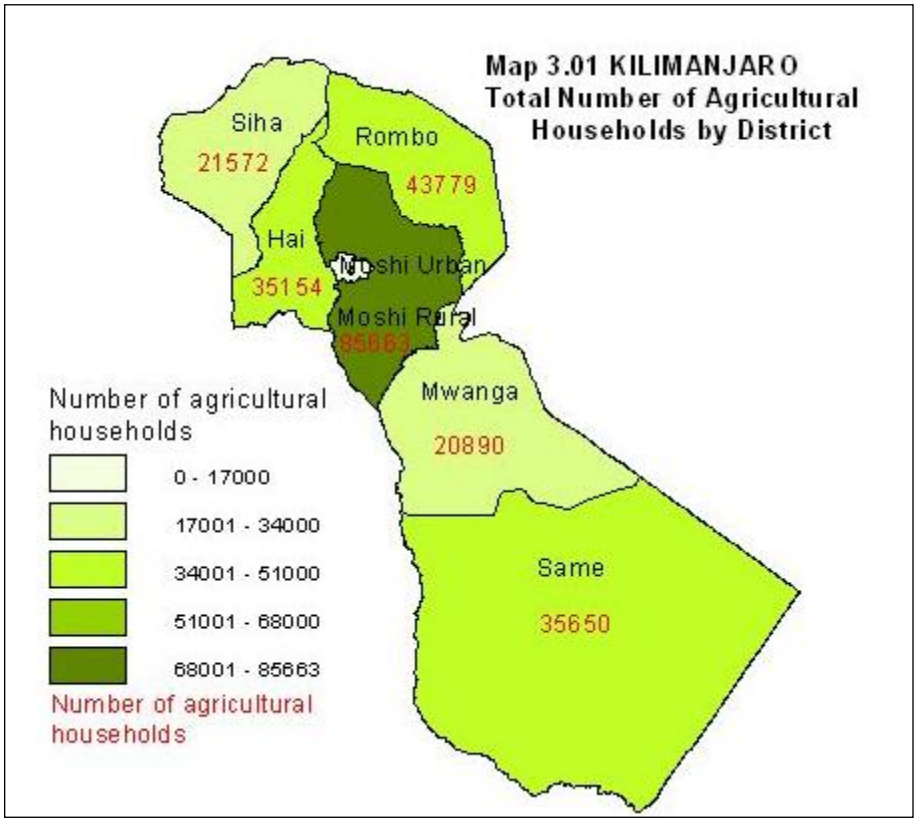
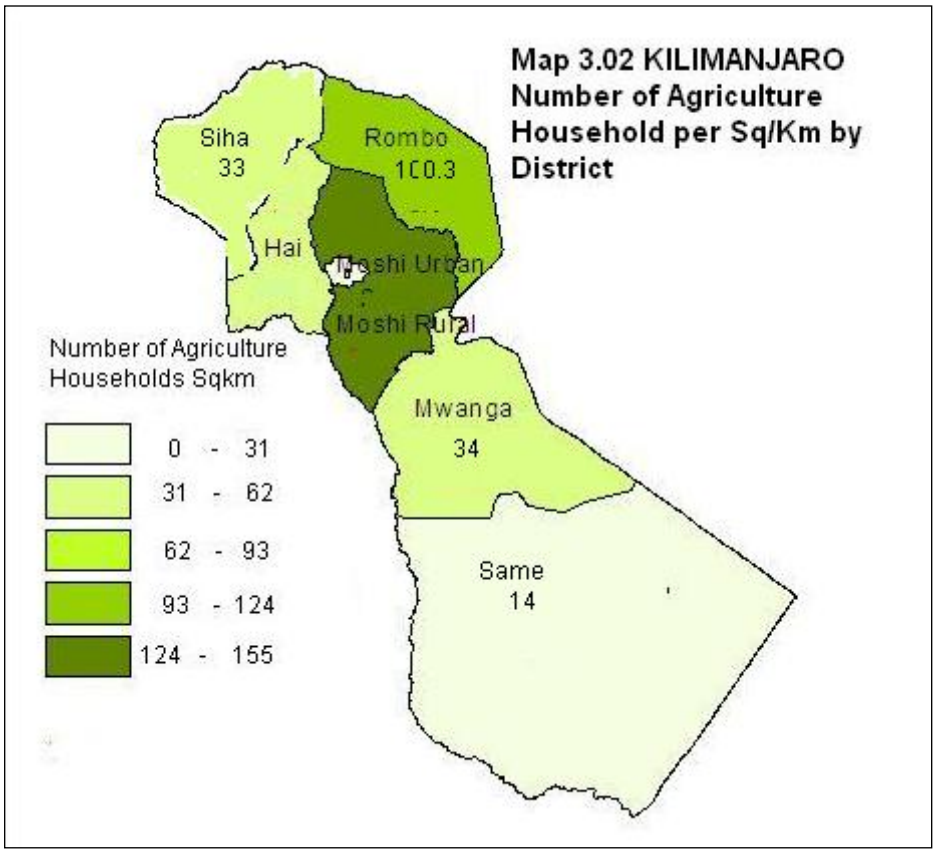
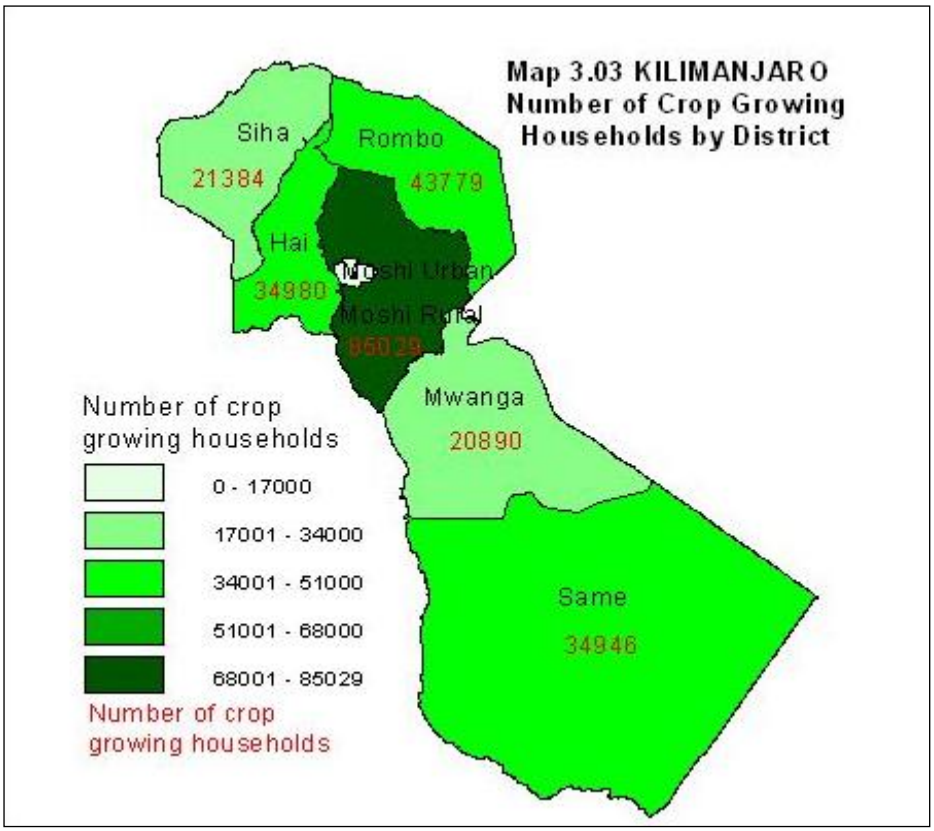


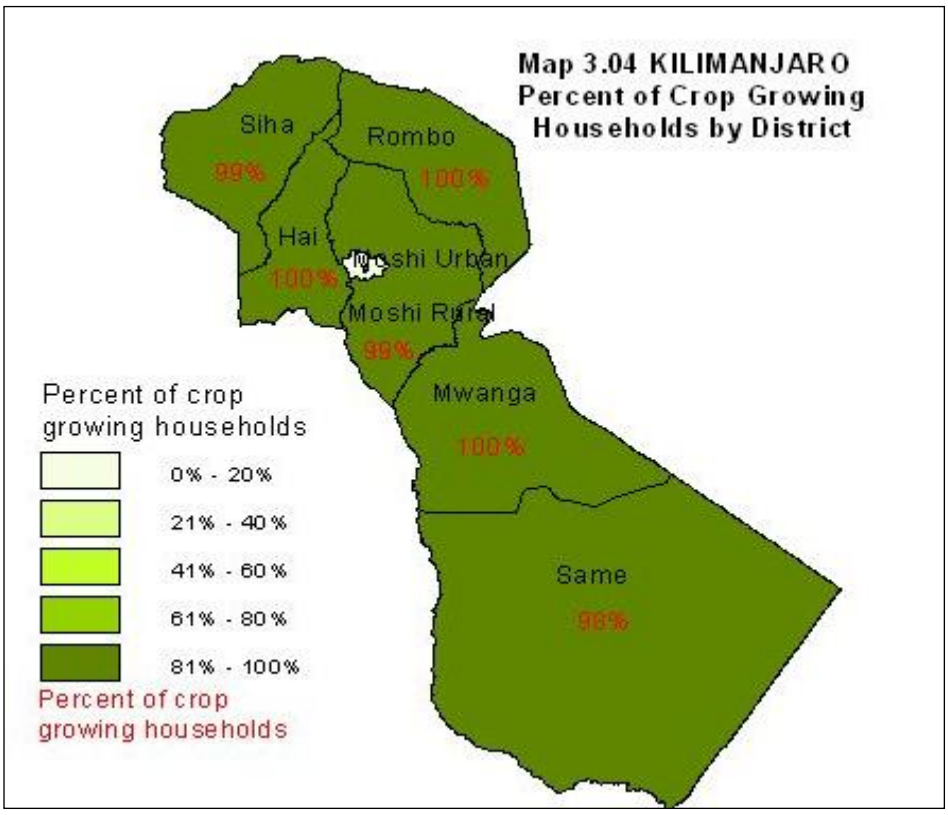
Table 3.1 Agricultural Households by Type and by District

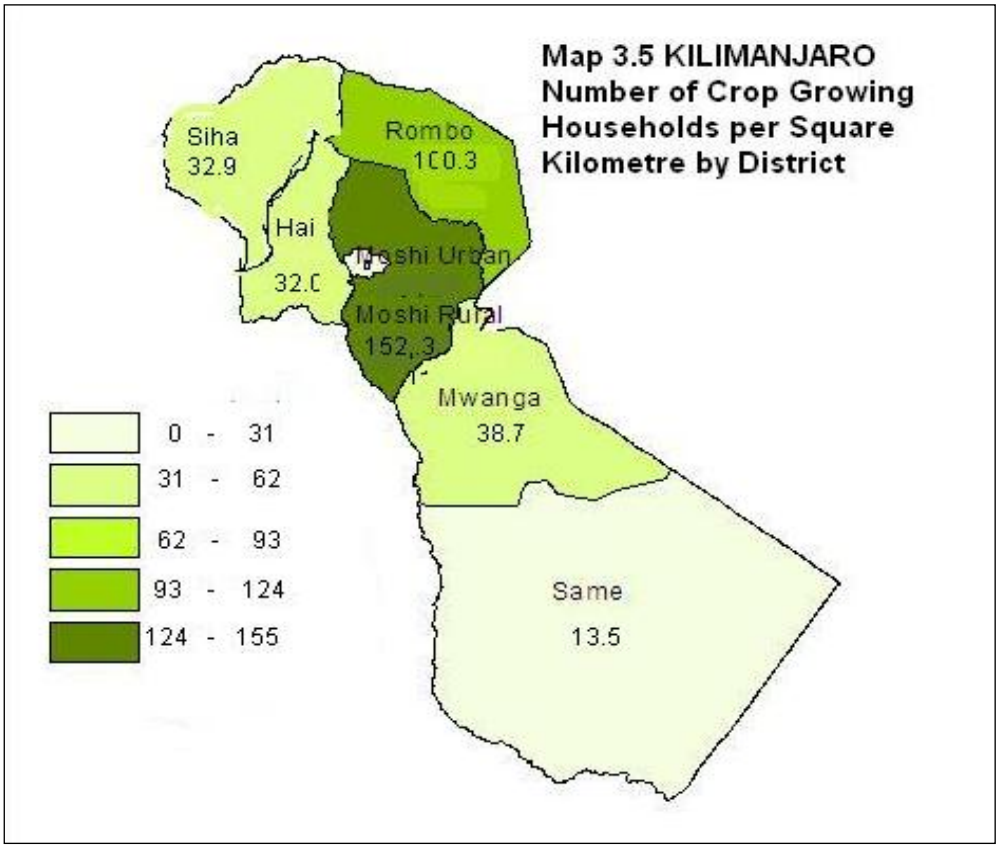
District	Crops Only	Livestock Only	Pastoralists	Crops & Livestock	Total	Percentage
Rombo	4,864	0	0	38,914	43,779	18
Mwanga	5,674	0	0	15,216	20,890	9
Same	13,732	704	0	21,214	35,650	15
Moshi Rural	19,036	635	0	65,992	85,663	35
Hai	9,027	174	0	25,953	35,154	14
Siha	4,377	188	0	17,008	21,572	9
Total	56,710	1,700	0	184,298	242,708	100

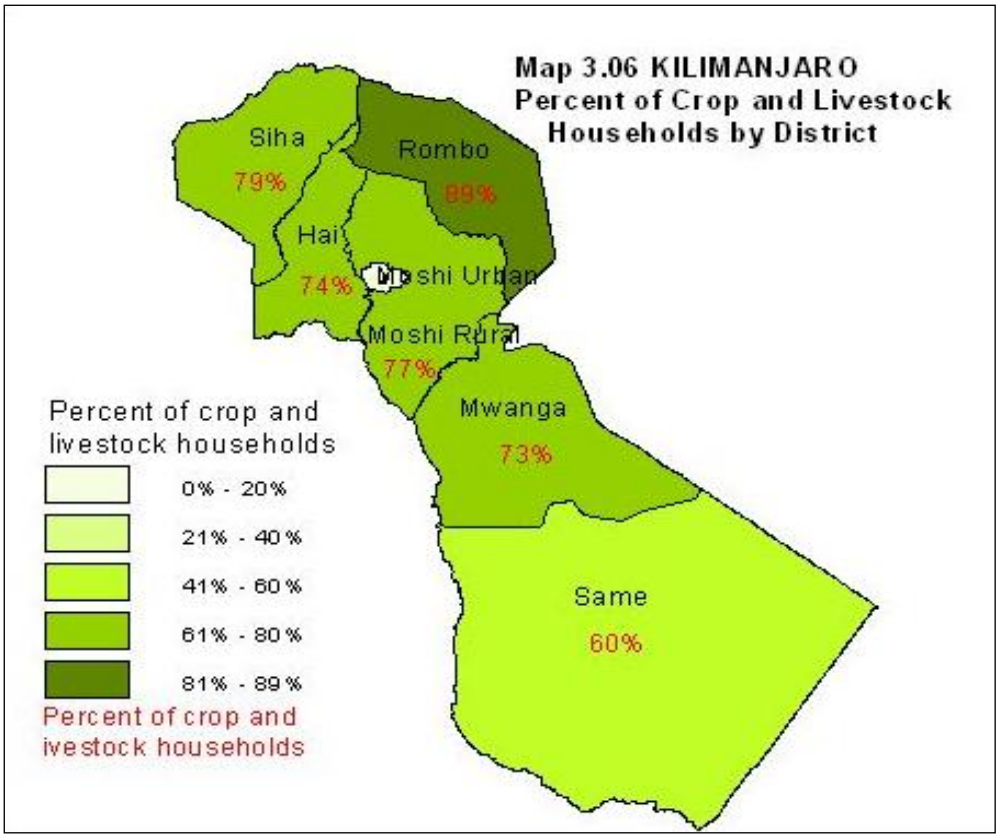

Map 3.01 KILIMANJARO
Total Number of Agricultural Households by District
Siha
21572
Rombo
43779
Hai
35154
Moshi Urban
Moshi Rural
85663
Mwanga
20890
Same
35650
Number of agricultural households
0 - 17000
17001 - 34000
34001 - 51000
51001 - 68000
68001 - 85663
Number of agricultural households


Map 3.02 KILIMANJARO
Number of Agriculture Household per Sq/Km by District
Siha
33
Rombo
100.3
Hai
Moshi Urban
Moshi Rural
Mwanga
34
Same
14
Number of Agriculture Households Sqkm
0 - 31
31 - 62
62 - 93
93 - 124
124 - 155


Map 3.03 KILIMANJARO
Number of Crop Growing
Households by District
Siha
21384
Rombo
43779
Hai
34980
Moshi Urban
Moshi Rural
Mwanga
20890
Same
34946
Number of crop
growing households
0 - 17000
17001 - 34000
34001 - 51000
51001 - 68000
68001 - 85029
Number of crop
growing households


Map 3.04 KILIMANJARO
Percent of Crop Growing
Households by District
Siha
99%
Rombo
100%
Hai
100%
Moshi Urban
Moshi Rural
99%
Mwanga
100%
Same
98%
Percent of crop
growing households
0% - 20%
21% - 40%
41% - 60%
61% - 80%
81% - 100%
Percent of crop
growing households


Map 3.5 KILIMANJARO
Number of Crop Growing Households per Square Kilometre by District
Siha
32.9
Rombo
100.3
Hai
32.0
Moshi Urban
Moshi Rural
152.3
Mwanga
38.7
Same
13.5
0 - 31
31 - 62
62 - 93
93 - 124
124 - 155


Map 3.06 KILIMANJARO
Percent of Crop and Livestock Households by District
Siha
79%
Rombo
89%
Hai
74%
Moshi Urban
Moshi Rural
77%
Mwanga
73%
Same
60%
Percent of crop and livestock households
0% - 20%
21% - 40%
41% - 60%
61% - 80%
81% - 89%
Percent of crop and ivestock households

3.1.2 Livelihood Activities/Source of Income

Crop/seaweed farming was practiced by most agricultural households 432,159 (41%) as the main source of income in all the districts. This was followed by livestock keeping/herding which was practiced by 12,283 (1%) households across the six districts. Fishing was the third most important occupation in all districts, except Siha district where no household reported to have been practicing fishing. Livestock pastoralist was reported to be practiced in Siha, Hai and Mwanga. Lastly, fish farming was reported in Moshi Rural and Hai.

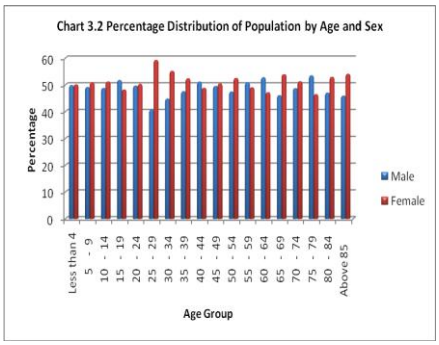
Moshi rural had the largest number of households (137,695) practicing crop/seaweed farming followed by Rombo (83,882). This is by virtue of the fact that district wise, Moshi Rural had the largest number of agricultural households, and also because crop/seaweeds farming was the major economic activity among agricultural households across the districts. Crop farming was least practiced in Mwanga and Siha by only 34,250 and 41,393 households respectively, and moderately practiced in Same and Hai by only 72,356 and 62,582 households respectively. Same had the largest number of households practicing livestock keeping (4,753) followed by Rombo (2,054). Moshi Rural was also leading in fishing followed by Mwanga, Hai and Rombo (Table 3.2).

Table 3.2: The Livelihood Activities/Source of Income of the Households Ranked in Order of Importance by District

	Main Activity									
	Crop/Seaweed Farming		Livestock Keeping / Herding		Livestock Pastoralist		Fishing		Fish Farming	
Didtrict	Number	%	Number	%	Number	%	Number	%	Number	%
Rombo	83,882	42	2,054	1	0	0	108	0	0	0
Mwanga	34,250	39	1,496	2	52	0	206	0	0	0
Same	72,356	45	4,753	3	0	0	88	0	0	0
Moshi Rural	137,695	37	1,904	1	0	0	635	0	212	0
Hai	62,582	44	1,389	1	87	0	174	0	174	0
Siha	41,393	45	688	1	250	0	0	0	0	0
Total	432,159	41	12,283	1	388	0	1,211	0	385	0

3.1.3 Sex and Age of Household members

The number of male agriculture household members in region was 558,636 (49%) of the total regional agricultural household members whilst that of female was 583,649 (51%) of the total regional agricultural household members) (Chart3.2).



The percentage trend shows that there are slight variations between male and female agricultural household members across all the age groups, with some age groups (15-19, 40-44, 55-59, 60-64,75-79) having slightly more males than females whilst in other age groups (25-29, 30-34,35-39, 50-54, 65-69 and above 80 year) having slightly more females than males. On the whole, female agricultural household members are more concentrated in the middle and old ages whilst male agricultural household members are more concentrated in between the middle and old ages (Chart 3.2).

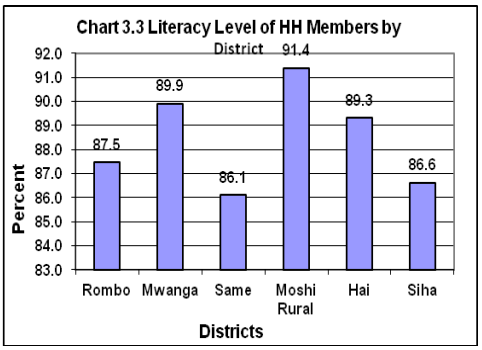
3.1.4 Level of Education

Information on literacy and education attainment were obtained from persons in all households aged five years and above in all the districts.

3.1.4.1 Literacy

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

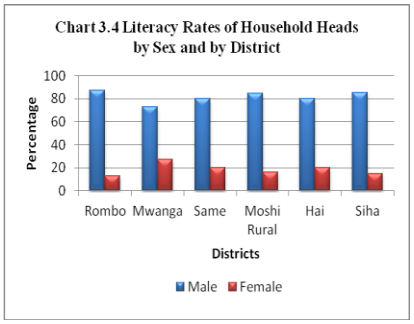
3.1.4.2 Literacy Level for Household Members



region had a total literacy rate of 89 percent. Moshi rural recorded the highest literacy rate of 91.4 percent followed by Mwanga (89.9 percent) and Hai (89.3%). The lowest literacy rate was recorded in Same (86.1%), whilst Rombo and Siha had moderate literacy rate of 87.5 and 86.6 percents respectively. Comparatively, all the districts recorded slightly higher literacy rates in 2007/08 than the literacy rates recorded in the 2002/03 census. Also the percentage literacy rate trend shows that districts did not maintain similar positions to those recorded in the previous census ; in that the districts that recorded the highest literacy rate in the last census survey (Mwanga) no longer holds this position (the district recorded moderate literacy rate in 2007/08); and that the district that recorded the lowest literacy rate last census (Hai) no longer holds this position (the district recorded moderate literacy rate in 2007/08 which is an improvement) except for Same which has continued to record the lowest literacy rate for two consecutive censuses (Chart 3.3).

3.1.4.3 Literacy Rates for Heads of Households

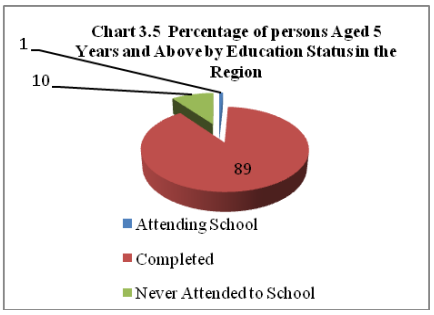
The literacy rate for the heads of households in the region was 100 percent. The literacy rate for the male heads was 83% and that of female heads of households was 17%. The district with the highest literacy rate amongst heads of households was Rombo (87% males, 13% females followed by Moshi Rural (85% males, 15% females),).Both Same and Hai recorded moderate literate rates of (80% Males and 20% females).



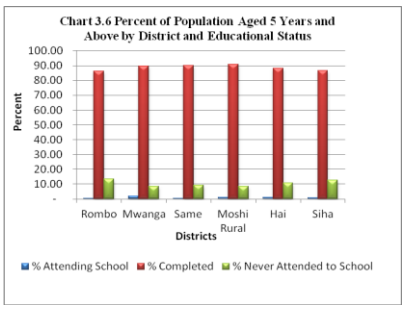
Literacy rate of male heads was higher than that of female heads in all the districts. The trend also shows that Rombo recorded the highest literacy rate for male heads, and the lowest literacy rate for female heads whereas the district leading in literacy rate among female household heads was Mwanga by 27 % followed by Same and Hai which had 20 percent each. The rest of the districts recorded literacy rate of below 20 % among female household heads (Chart 3.4).

3.1.4.4 Educational Status

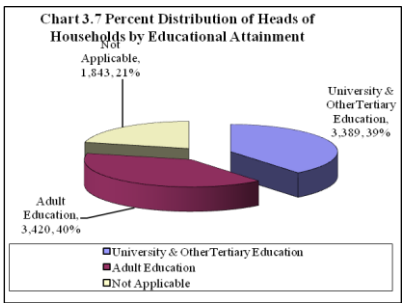
Information on educational status was collected from members of agricultural households, targeting three categories of people, those attending school, those completed school, and those who never attended school. The results show that 89 percent of the population aged 5 years and above in agricultural households in the region had completed different levels of education, and 1 percent was still attending school, and 10 percent had never attended school (Chart 3.5).



Male and Female Total Agricultural households in Moshi Rural recorded the highest percentage (90.6%) of the population aged 5 years and above who had completed different levels of education. This was followed by Same (90%) and Mwanga (89.6%). Hai recorded the fourth highest percentage (88 %) followed by Siha (87%) and Rombo (86 %) of the population aged 5 years and above who had completed different levels of education.



The number of heads of agricultural households with formal education in region was 6,809 , those with University and other tertiary education were 3,389 and those with only adult education were 3,420.



With regard to the heads of agricultural households with University and other tertiary education in region, Moshi Rural district had the highest percentage (62%). This was followed by Rombo (19%), Hai (13%), and Mwanga and Same with 3 percent each. Heads of agricultural households with university and other tertiary education were not recorded in Siha District. The highest percentage of heads of households with adult education only was recorded in Rombo District at 41.1 percent, followed by Same Distruict (26 %). Siha and Hai had the third highest percentage of heads of agricultural households with adult education only with 13 percent each. Mwanga had the lowest percentage of heads of agricultural households in this education category at only 1.5, followed by Moshi Rural District at 6.2 percent (Chart 3.7, Table 3.3).

Table 3.3 Number and Percentage Distribution of Heads of Households by Educational Attainment and by District, 2007/08 Agricultural Year

District	Education Level							
	University & Other Tertiary Education		Adult Education		Not applicable		Total	
	Number	%	Number	%	Number	%	Number	%
Rombo	649	19	1,405	41	108	6	95,449	100
Mwanga	103	3	52	2	0	0	43,225	100
Same	88	3	880	26	528	29	77,990	100
Moshi Rural	2,115	62	212	6	1,058	57	198,611	100
Hai	434	13	434	13	87	5	77,425	100
Siha	0	0	438	13	63	3	45,082	100
Total	3,389	100	3,420	100	1,843	100	537,782	100

3.1.5 Off-farm Income

Agricultural households in the region obtained income from other sources such as business, wages and salaries, cash remittances, and other casual cash earnings. The number of households which obtained cash income from casual cash earnings were 28,014 (11.5 %), wages and salaries in cash 19,921 (8.2%), business income 17,050 (7.0 %) and cash remittances 8,486 (3.5%).

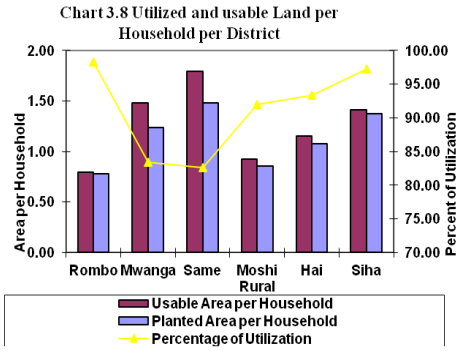
3.2 Land Use

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

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

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

3.2.1 Area of Land Utilised

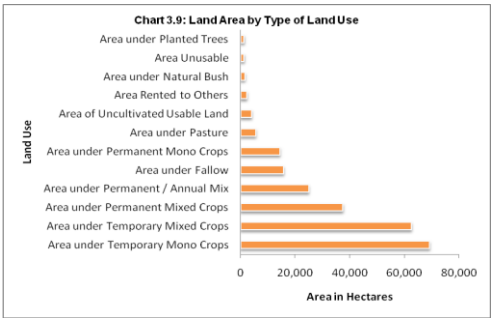


The total area of land available to smallholders was 238,142 ha, out of which 217,069 ha were used. At Regional level the average land area utilised for agriculture was only 1.0 ha per household. This figure is below the national average which was estimated at 2.0 hectares. The utilization of the land available to smallholders in region was 91.2 percent. There were slight differences in land utilization per household across districts with Same district utilizing 1.8 ha per household, and Mwanga utilizing 1.5 ha per household. Rombo recorded the smallest land area utilised per household (0.8 ha), followed by Moshi Rural. The percentage utilized of the usable land per household was highest in Rombo (98.3%), followed by Siha (97.2 %) and lowest in Same and Mwanga where 82.6 and 83.4 percents respectively of the total land available to smallholders were utilized (Chart 3.8 and 3.7).

3.2.2 Types of Land Use

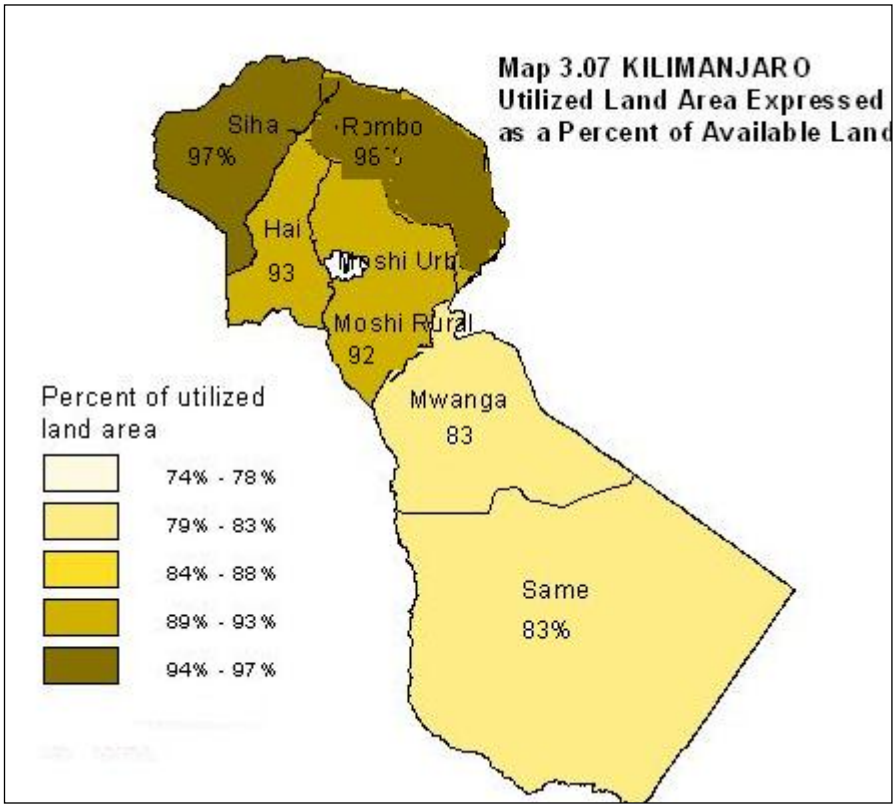
The area of land under temporary mixed crops was 69,157 hectares (28.9% of the total land available to smallholders in), followed by area under temporary mixed crops (62,497ha, 26.1%). The land area utilized for permanent mixed crops was 37,403 ha, (15.6%), followed by area under permanent/ annual mixed crops (24,860 ha, 10.4%). Area under fallow was 15,687ha (6.6 %), followed by area under Permanent Mono Crops which was 14,300 ha, that is 6 percent. Area under pasture was 5,464 ha (2.3 %).

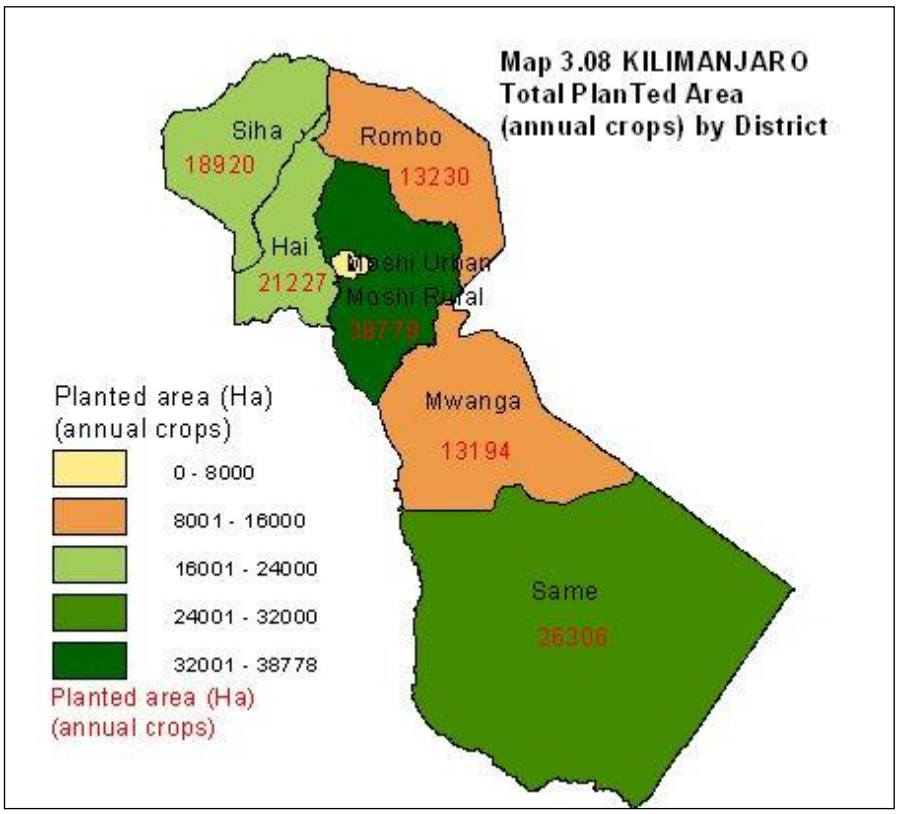
The usable uncultivated land area amounted to 3,921 ha (1.6%), followed by the land area rented to other (2,182 ha, 1%). The land area under Natural Bush was 1,466 ha (0.6%), followed by unusable land 1,207 ha (0.5%), followed finally by the land area under planted trees (1206 ha, 0.5%) (Chart 3.9)

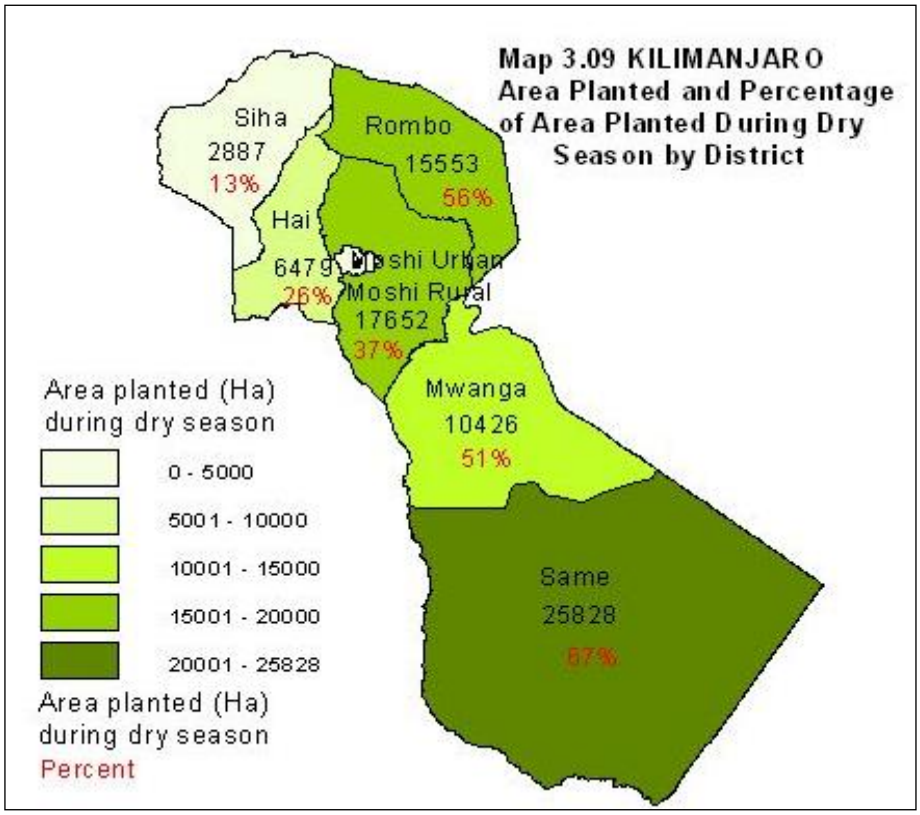


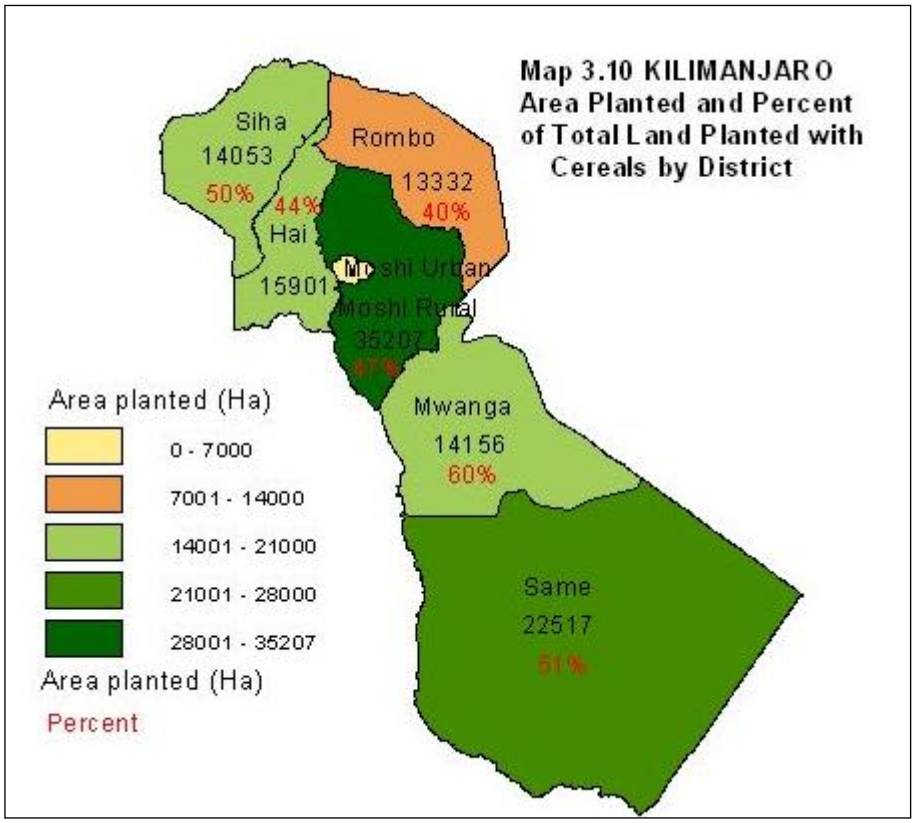
3.3 Annual Crops and Vegetable Production

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


Map 3.07 KILIMANJARO
Utilized Land Area Expressed
as a Percent of Available Land
Siha
97%
Rombo
96%
Hai
93
Moshi Urb
Moshi Rural
92
Mwanga
83
Same
83%
Percent of utilized
land area
74% - 78%
79% - 83%
84% - 88%
89% - 93%
94% - 97%

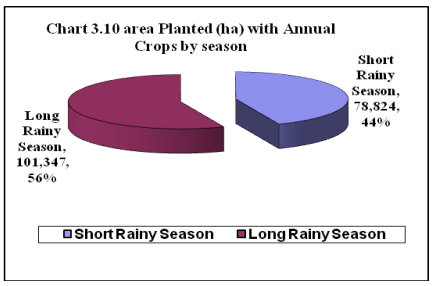

Map 3.08 KILIMANJARO
Total PlanTed Area
(annual crops) by District
Siha
18920
Rombo
13230
Hai
21227
Moshi Urban
Moshi Rural
38778
Mwanga
13194
Same
26306
Planted area (Ha)
(annual crops)
0 - 8000
8001 - 16000
16001 - 24000
24001 - 32000
32001 - 38778
Planted area (Ha)
(annual crops)


Map 3.09 KILIMANJARO
Area Planted and Percentage of Area Planted During Dry Season by District
Siha
2887
13%
Rombo
15553
56%
Hai
6479
26%
Moshi Urban
Moshi Rural
17652
37%
Mwanga
10426
51%
Same
25828
87%
Area planted (Ha) during dry season
0 - 5000
5001 - 10000
10001 - 15000
15001 - 20000
20001 - 25828
Area planted (Ha) during dry season
Percent


Map 3.10 KILIMANJARO
Area Planted and Percent of Total Land Planted with Cereals by District
Siha
14053
50%
Rombo
13332
40%
44%
Hai
15901
Moshi Urban
Moshi Rural
35207
47%
Mwanga
14156
60%
Same
22517
61%
Area planted (Ha)
0 - 7000
7001 - 14000
14001 - 21000
21001 - 28000
28001 - 35207
Area planted (Ha)
Percent

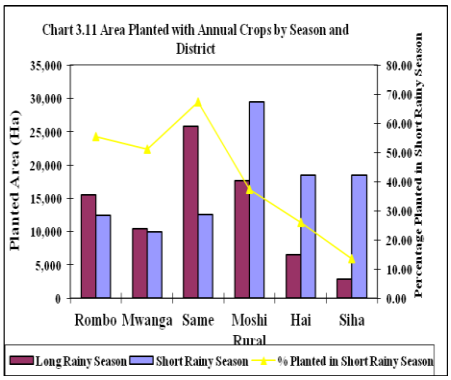
3.3.1 Area Planted

The area planted with annual crops and vegetables was 180,171 hectares out of which 101,347hectares (56%) were planted during long rainy season and 78,824 hectares (44%) were planted during short rainy season. The average areas planted per household during the long and short rainy seasons were 0.6 ha and 0.7 ha respectively (Chart 3.10).

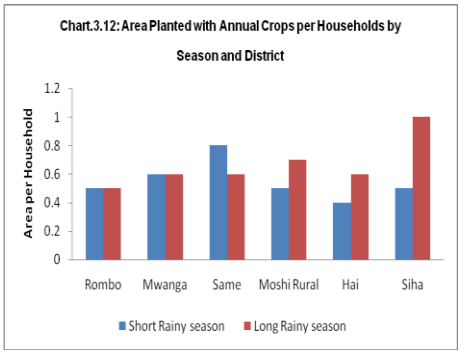


The district with the largest area planted for the two seasons was Moshi Rural (47,098 Ha) followed by Same (38,362) and the smallest area planted was in Mwanga district (20,377 ha).

The percentage area planted during short rainy season was highest in Same district (33%), followed by Moshi Rural (22%), Rombo (20%), Mwanga (13%), Hai (8%), and Siha (4) . Moshi Rural had the largest percentage planted area during long rainy (29.1%) followed by Hai and Siha with 18 percent each. Rombo and Same both had the third largest percentage planted area during long rainy season with an area of 12% of planted area each. Mwanga had the smallest percentage planted area of only 10 percent(Chart 3.11 and 3.08)



The average area planted per household during the long rainy season in region was 0.7 hectares, however, there were small district variations. Siha had the largest planted area per household (1.0 ha) followed by Moshi Rural (0.7 ha), Mwanga, Same, and Hai Districts had the third largest average area planted per households of 0.6 percent each. Rombo had the smallest average area planted per household of only 0.5 ha. (Chart 3.12).

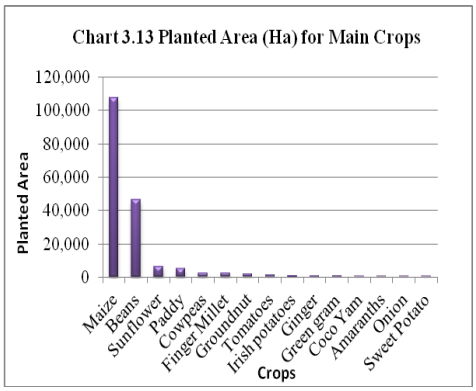


Analysis of most important crops

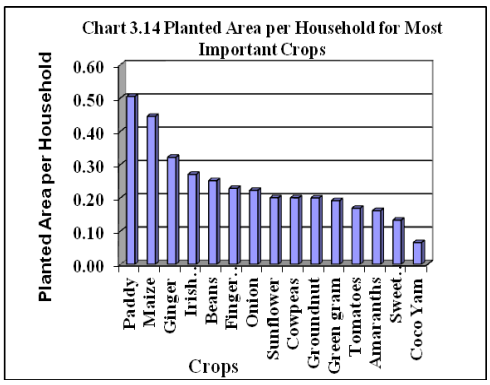
The analysis of the Most Important Crops Results on crop production is presented in two different sections. The first section compares the importance of all crops regardless of whether they are

annual or permanent. The second section contains a more detailed analysis on production based on crop types.

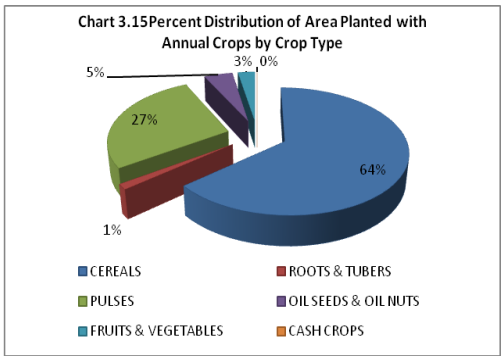
3.3.2 Crop Importance



In terms of crop importance maize was the most dominant annual crop grown in region with a planted area of 107,931 hectares, followed by beans which had the second largest planted area of 46,298 ha, and sunflower which had the third largest planted area of 6,521 ha. Other crops grown in (Paddy, Cowpeas, Finger Millet, Groundnut, Tomatoes, Irish potatoes, Ginger, Green gram, Coco Yam, Amaranths, Onion, and Sweet Potatoes, in their order of importance) had the planted area of less than 6,000 ha with sweet potatoes having the least planted area of 483 ha (Chart 3.13). Of the area planted with annuals, maize constitutes 61 percent. Other crops in order of their importance (based on area planted) were beans (26.1%), sunflower (4%), paddy (3%), Cow peas (1.3%), finger millet (1.2). Other crops with small percentages with their order of imprtance include groundnuts, tomatoes, Irish poatatoe, Ginger, Onions, cocoyams, amaranthus, and sweet potatoes (Chart 3.14).



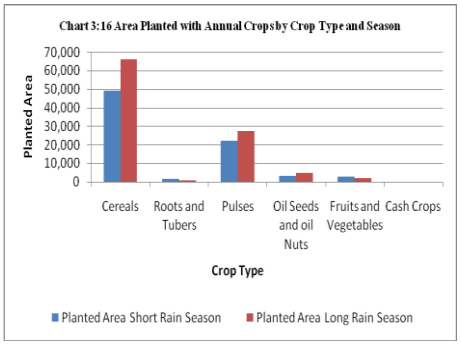
3.3. 3 Crop Types



In terms of planted area of selected crops per household, cereal types of crops such as paddy and maize had the largest planted area per household as opposed to other crops grown in . Ginger had the third highest planted area per households growing that crop. On the other hand roots and tubers (e.g. coco yams and sweet potatoes) had the lowest planted area per households followed by horticultural (vegetable types of e.g. tomatoes and amaranthus) crops (Chart 3.15).

Cereals and roots and tubers are the dominant crops grown in in terms of planted s area and other crop types are of minor importance. The area planted with cereals was 115,167 ha (64% of the total

planted area), followed by pulse with 49,521 ha (27.5%), oil seeds & oil nuts 8,124 ha (4.5%), fruits and vegetables 4,847 ha (3 %), and roots and tubers 2,483 (1.4%). Cash crops are normally permanent crops and are not totally reflected in Chart 3.15 and 3.16).



There were variations in the proportions of the crop types grown between seasons in terms of planted area. Long rainy season production was higher compared to that of the short rainy season and it is therefore inappropriate to make detailed comparison between the two seasons. Cereals, pulses and Oil Seeds and Nuts are the dominant crops grown in both seasons. Other crop types are of minor importance in comparison (Chart 3.16)

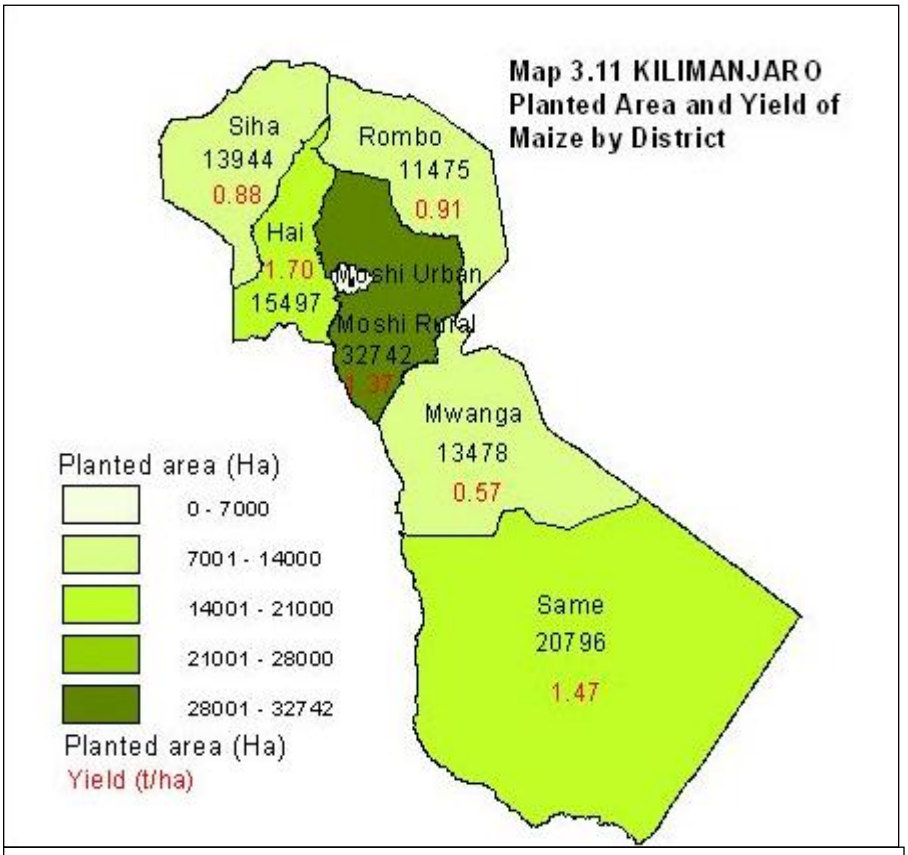
3.3.4 Cereal Crop Production

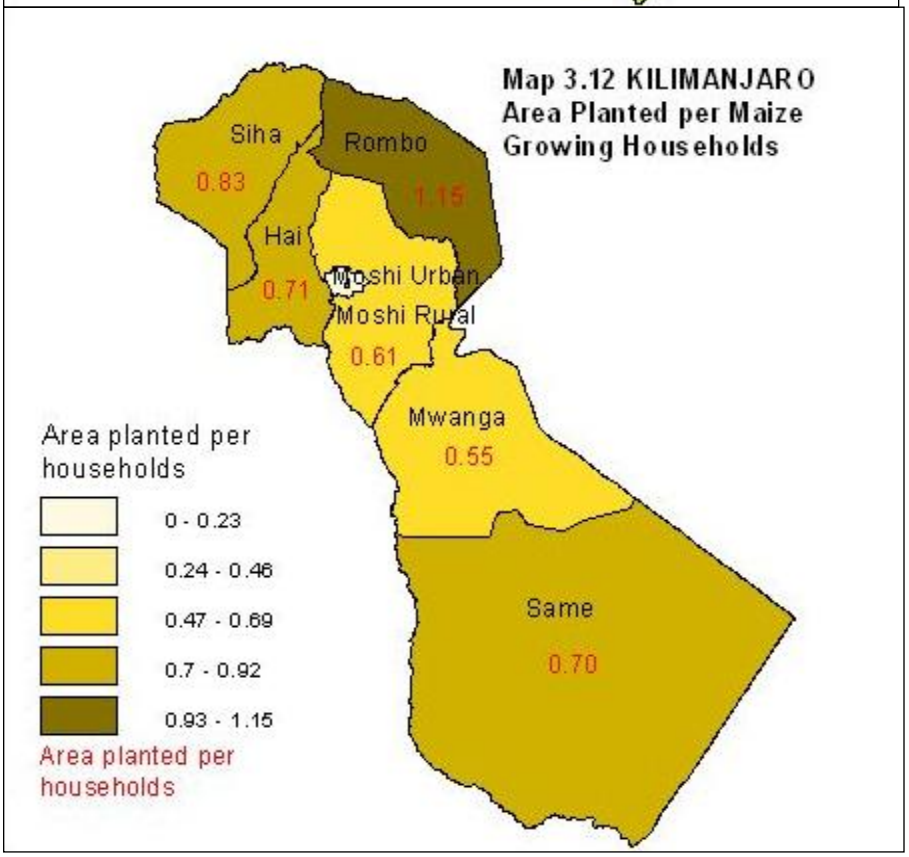
The total production of crops was such that cereal crops were leading with 159,437 tonnes, which is 73 percent other crops accounting to the remaining 27 percent of the total crops grown in . Among cereal crops Maize was widely produced at 150,138 tonnes which was 94 percent of the total cereal crops produced, followed by paddy (6,831 tonnes, 6%) sorghum 46 tonnes (0.03%), finger millet 422 (0.26%) (Table 3.4, 3.10).

The total area planted with cereals was 115,167 ha out of which 49,181 ha (43%) were planted in short rainy season and 65,956 ha (57%) were planted during the long rainy season. The long rainy season accounted for 63 percent of the total cereals produced in both seasons. The area planted with maize during the long rainy season was 12.3% of the total area planted with cereals in that season followed by finger millet (3.4%). There was no record of the percentage area planted with paddy and sorghum by season (Table 3.4).

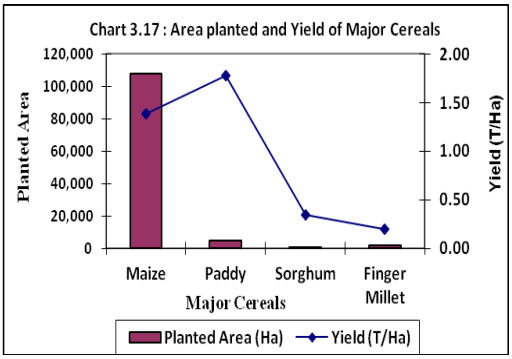
Table 3.4 Area, Production and Yield of Cereal Crops by Season

Crop	Short Rainy Season			Long Rainy Season			Short & Long Rainy Season		
	Area Planted (Ha)	Amount Harvested (T)	Yield (T/Ha)	Area Planted (Ha)	Amount Harvested (T)	Yield (T/Ha)	Area Planted (Ha)	Amount Harvested (T)	Yield (T/Ha)
Maize	44,517	51,920	1	63,414	98,219	2	107,931	150,138	1
Paddy	4,183	7,175	2	783	1,655	2	4,966	8,831	2
Sorghum	46	9	0	86	37	0	132	46	0
Finger Millet	435	125	0	1,702	298	0	2,137	422	0
CEREALS	49,181	59,229	1	65,986	100,208	2	115,167	159,437	1


Map 3.11 KILIMANJARO
Planted Area and Yield of Maize by District
Siha
13944
0.88
Rombo
11475
0.91
Hai
1.70
15497
Moshi Urban
Moshi Rural
32742
Mwanga
13478
0.57
Same
20796
1.47
Planted area (Ha)
0 - 7000
7001 - 14000
14001 - 21000
21001 - 28000
28001 - 32742
Planted area (Ha)
Yield (t/ha)


Map 3.12 KILIMANJARO
Area Planted per Maize Growing Households
Siha
0.83
Rombo
1.15
Hai
0.71
Moshi Urban
Moshi Rural
0.61
Mwanga
0.55
Same
0.70
Area planted per households
0 - 0.23
0.24 - 0.46
0.47 - 0.69
0.7 - 0.92
0.93 - 1.15
Area planted per households

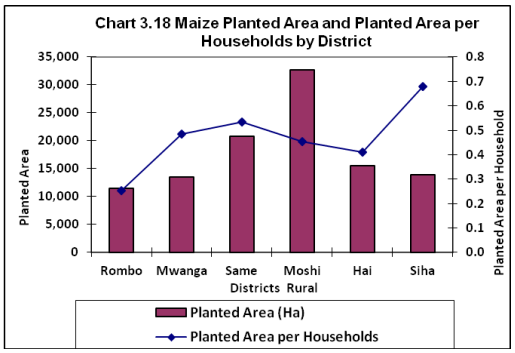
The yield for paddy was 1.9 Tonnes/ha, followed by maize (1.4 T/ha), sorghum (0.4 T/ha), finger millet (0.2 T/ha) (Table 3.4, Chart 3.17).



3.3.4.1 Maize

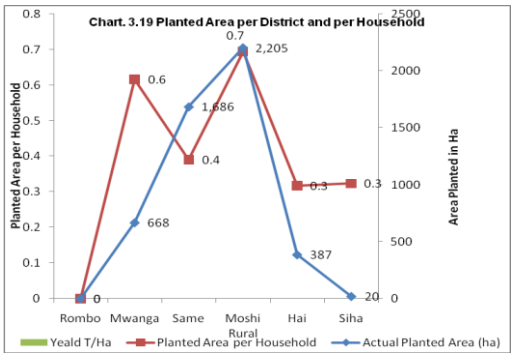
Maize dominated the production of cereal crops in the region with Moshi Rural having the largest area of Maize (32,742 ha, 30.3%), followed by Same (20,796 ha, 19.3%), Hai (15,497ha, 14.4%), Siha (13,944 ha, 13%), Mwanga (13,478ha, 12.5%), and Rombo (11,475 ha, 11 %).

The average area planted with maize per household was 0.4 hectares; Maize production increased fro 105 tonnes in 2002.2003 to 150, 138tonnes in 2007/2008.The productivity of maize increased over the period of five years from 1.1 t/ha in 2002/03 to 1.5t/ha in 2007/08. On the other hand the area planted with maize increased over the 5 year period from 96,593 hectares in 2002/03 to 107,931 hectares in 2007/08 (s, 3.11, 12).



3.3.4.2 Paddy

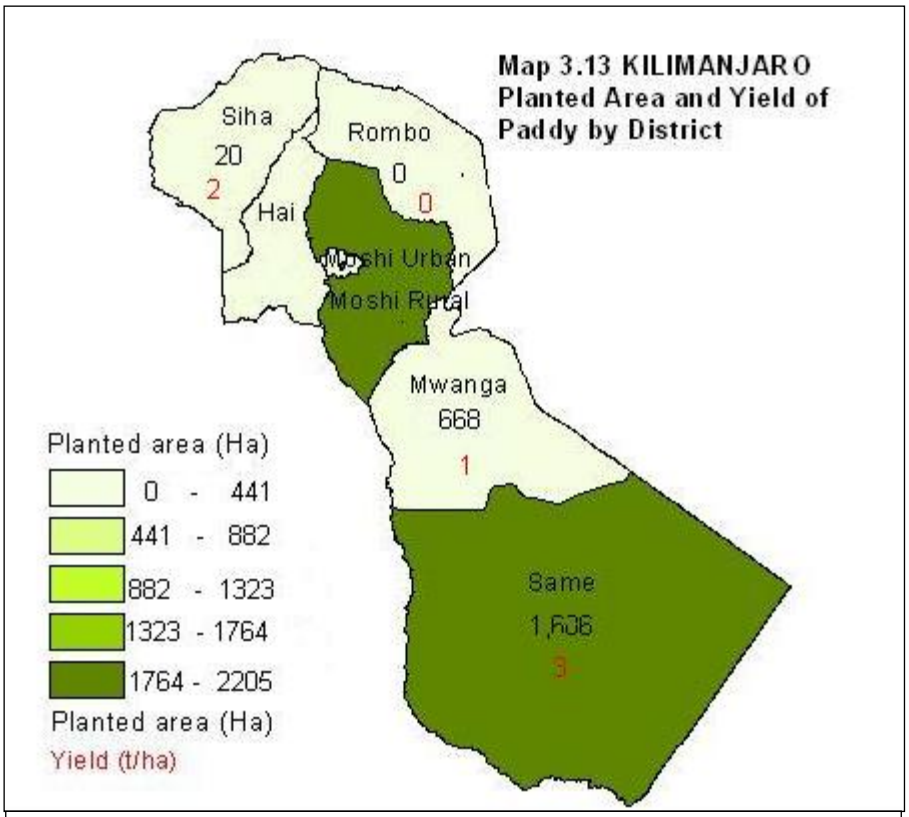
Paddy was the second important cereal produced in the region. A total of 7,622 households cultivated 4,966 hectares which produced 8,831 tonnes of the crop. Same was leading in production with 4,239 tonnes planted on 1,686 ha, followed by Moshi Rural which produced a total of 2,678 tonnes (2,205 ha) (Chart. 3.19 3.13). Paddy was not reported in Rombo district. The average area planted with paddy per household was 0.5 hectares. However there were small variations across district, Mwanga and Moshi Rural having the largest area planted per household (0.8 ha (Chart 3.19).

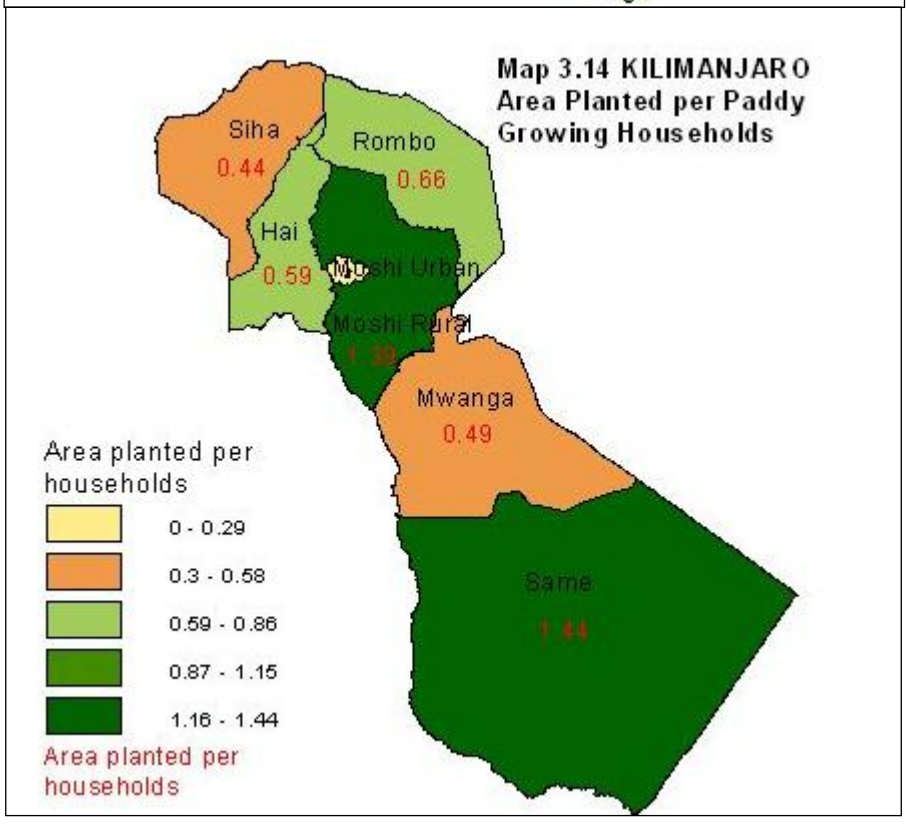


The yield of paddy increased further over the period of five years from 1.2t/ha in 2002/03 to 2 t/ha in 2007/08. On the other hand the area planted with paddy increased over the period of five years 3,029 ha in 2002/03 to 4,966ha in 2007/08 (Table 3.5, s, 13,14).

Table 3.5 Area Planted, Planted Area per Household and Yield of Paddy by District

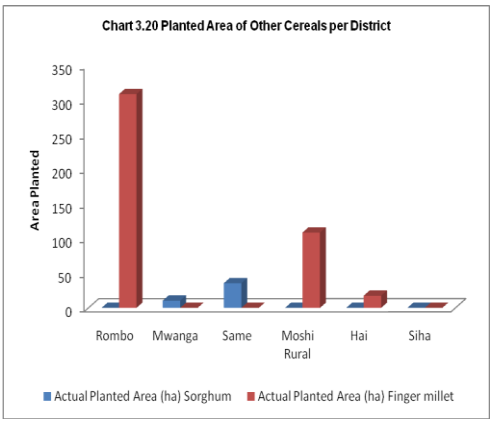
District	Actual Planted Area (ha)	Number of Household	Planted Area per Household	Yeald T/Ha	Harvest Tonnes
Rombo	0	0	0	0	0
Mwanga	668	1,083	0.6	1	689
Same	1,686	4,313	0.4	3	4,239
Moshi Rural	2,205	3,173	0.7	1	2,678
Hai	387	1,215	0.3	3	1,194
Siha	20	63	0.3	2	31
Total	4,966	9,847	0.5	2	8,831


Map 3.13 KILIMANJARO
Planted Area and Yield of
Paddy by District
Siha
20
2
Rombo
0
0
Hai
Moshi Urban
Moshi Rural
Mwanga
668
1
Same
1,606
3
Planted area (Ha)
0 - 441
441 - 882
882 - 1323
1323 - 1764
1764 - 2205
Planted area (Ha)
Yield (t/ha)


Map 3.14 KILIMANJARO
Area Planted per Paddy
Growing Households
Siha
0.44
Rombo
0.66
Hai
0.59
Moshi Urban
Moshi Rural
Mwanga
0.49
Same
Area planted per
households
0 - 0.29
0.3 - 0.58
0.59 - 0.86
0.87 - 1.15
1.16 - 1.44
Area planted per
households

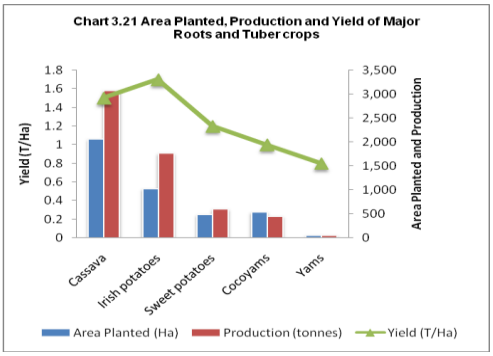
3.3.4.3 Other Cereals

In terms of area planted with other cereals (sorghum and finger millet), Rombo (1856 ha) , Moshi Rural (260 ha), Siha (89ha) and Same (36 ha) and Mwanga had the smallest area planted of 10 ha.. The planted area per household for other cereals was recorded low for all districts with o.4 ha/household in Same, 0.2 ha/household in Mwanga for sorghum, 0.26 ha/household in Moshi Rural, 0.2 ha/household in Hai for finger millet. In terms of yield, Moshi Rural was leading by o.5t/ha for finger millet while Mwanga was leading by 0.5t/ha for sorghum.



3.3.5 Roots and Tuber Crops Production

The total production of roots and tubers was 5,952 tons with the production of cassava being the highest in the region at 3,083 tons representing 52 percent of the total root and tuber crops production. The second highest was Irish potatoes with 1,766 tons (30%), followed by sweet potatoes 601 tonnes (10%) and cocoyam (453 tons 8%). The remaining other crops contribute less than 5% of the total root and tuber crops production. The estimated yield was highest for Irish potatoes and cassava (2ton/ha) followed by sweet potatoes (1.2ton/ha), Yams (1ton/ha), and the remaining crops contributing less than 1 ton per hectare. Cassava had the largest planted (2,064 ha) area among tuber crops grown in region. The other crops with large planted area in the order of importance includeIrish potato, cocoyams, Sweet potatoes, and lastly Yams (Chart 3.21)

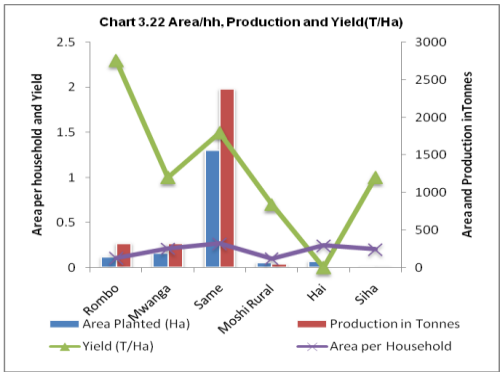


3.3.5.1 Cassava

The number of households growing cassava in the region was 9,168. Cassava production ranked the first with a total planted area of 2,064 hectares that produced 3,083 tonnes, resulting in a yield of 1.5 t/ha. This production was 52% of the total roots and tuber production in the region.

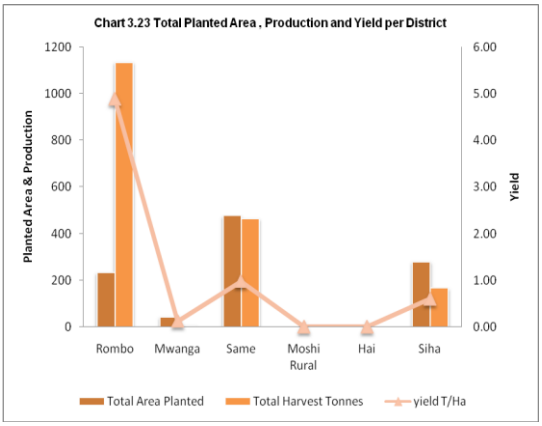
Same had the largest planted area of cassava (1,566 Ha, 76%)of the total planted area under roots and tuber in the region), followed by Mwanga (196 Ha, 9%), Rombo (141 ha, 7%) and Siha had the

least area planted with cassava (12.66 ha). The average cassava planted area per cassava growing household was 0.2 hectares. However, there were small variations across the districts. The area planted cassava growing household was largest in Same (0.3 ha/househosehold), Hai (0.24 ha/household) and Mwanga (0.24 ha/household)., Chart 3.22).



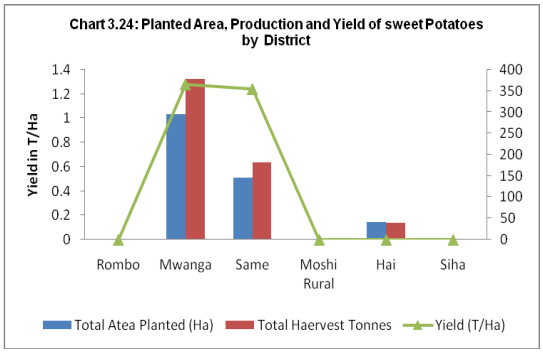
3.3.5.2 Irish Potatoes

The number of agricultural households growing Irish potatoes in region was 3,802. This was 32% of the total root and tuber crop growing households during both seasons. The total production of Irish potatoes during the census year was 1,766 tonnes from a planted area of 1,028 hectares resulting in a yield of 1.7t/ha. Same district had the largest planted area for irish potatoes (475 ha, 46.3%), followed by Siha (278 ha, 27.1%), Rombo (232 ha, 23%) and Mwanga (42 ha, 4.1%). Moshi Rural and Hai were not reported in this category (Chart 3.23)



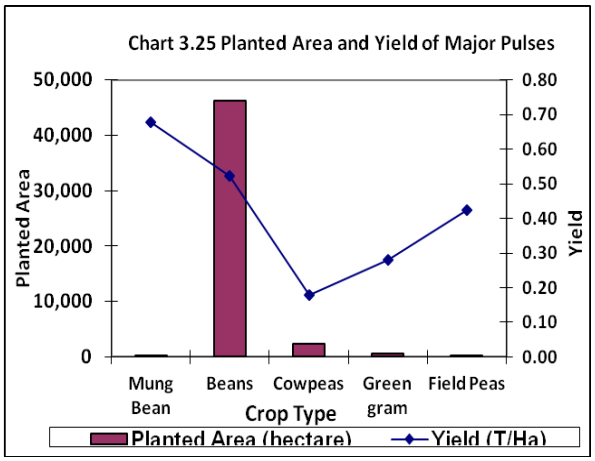
3.3.5.3 Sweet Potatoes

The number of households growing Sweet potatoes in region was 3,644 during the survey period.. The total production of Sweet potatoes during the census year was 601 tons from a planted area of 483 hectares resulting in a yield of . 1.0t/ha. Mwanga District had the largest planted area for Sweet potatoes (295 ha, 61%), followed by Same (146 ha, 30%), Hai, (42ha, 9%) Rombo and *Mo*shi Rural there were no on Sweet potatoes planted area and Production (Chart 3.24)



3.3.6 Pulse Crops Production

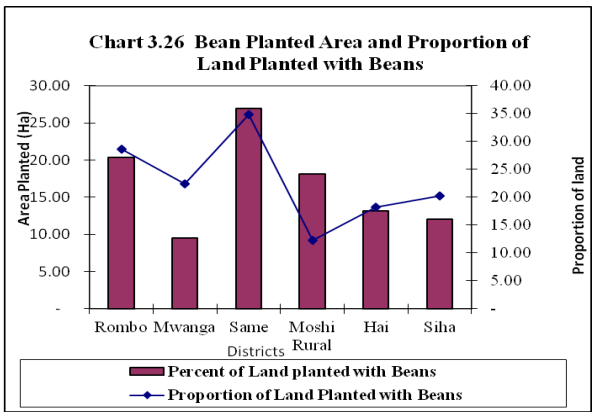
The total area planted with pulses was 49,521 hectares out of which 46,298 ha were planted with beans (93.5 percent of the total area planted with pulses), other pulse crops were of minor importance in terms of area planted,



The area planted with pulses in the long rainy season was 27,480 ha which represented 55 percent of total planted area with pulses during the year. During short rainy season total planted area was 22,041 hectares that produced 9,836 tonnes. The total production of pulses was 24,873 tons, Individual pulse crop production indicates beans as constituting 97 percent of the total pulse production. This was followed by cowpeas (4241 tonnes, 2.0%), green grams (192tonnes, 1%), mung beans (66 tonnes, 0.3%), and field peas 38 tonnes, 0.2 percent (Chart 3.25).

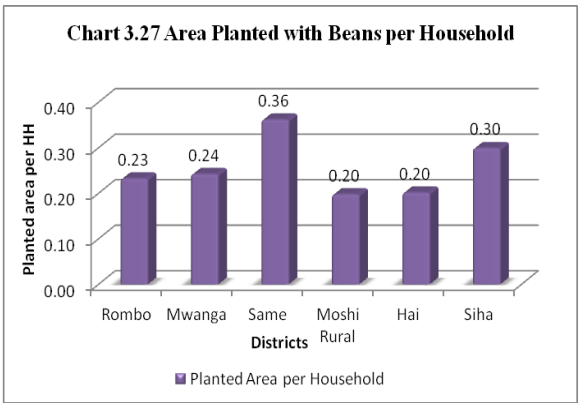
In order of importance bean production was followed by cowpeas 2,354, ha, (5%), green gram 683 ha, (1.4%), mung beans and field peas 98 and 89 hectares respectively, that is 0.2 percent for both.

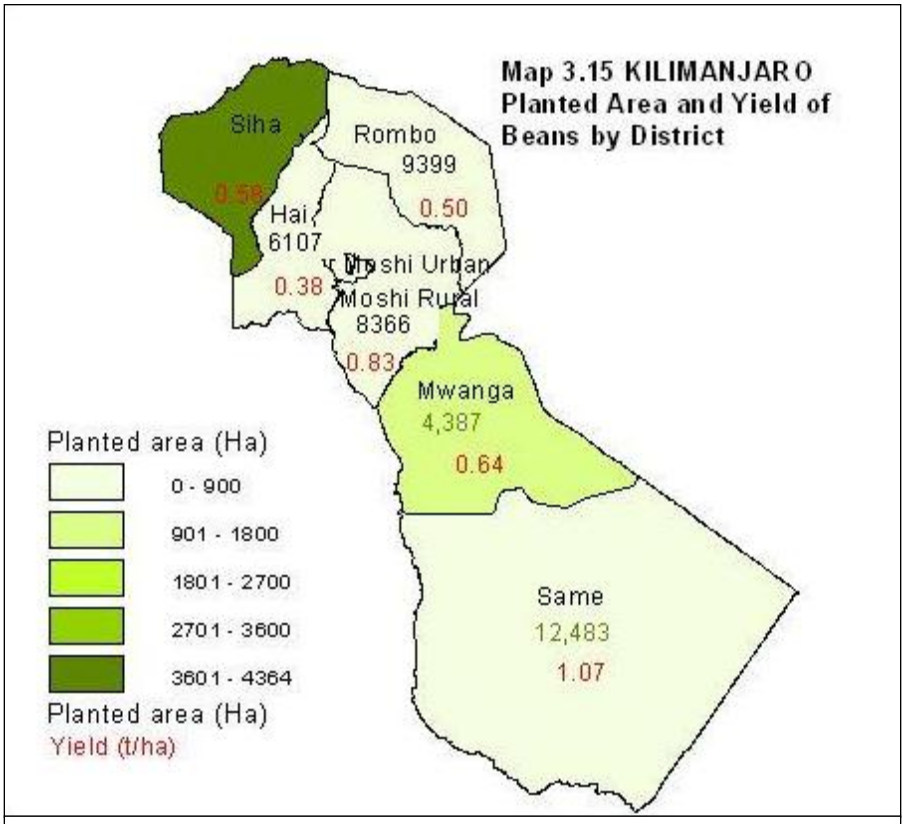
3.3.6.1 Beans

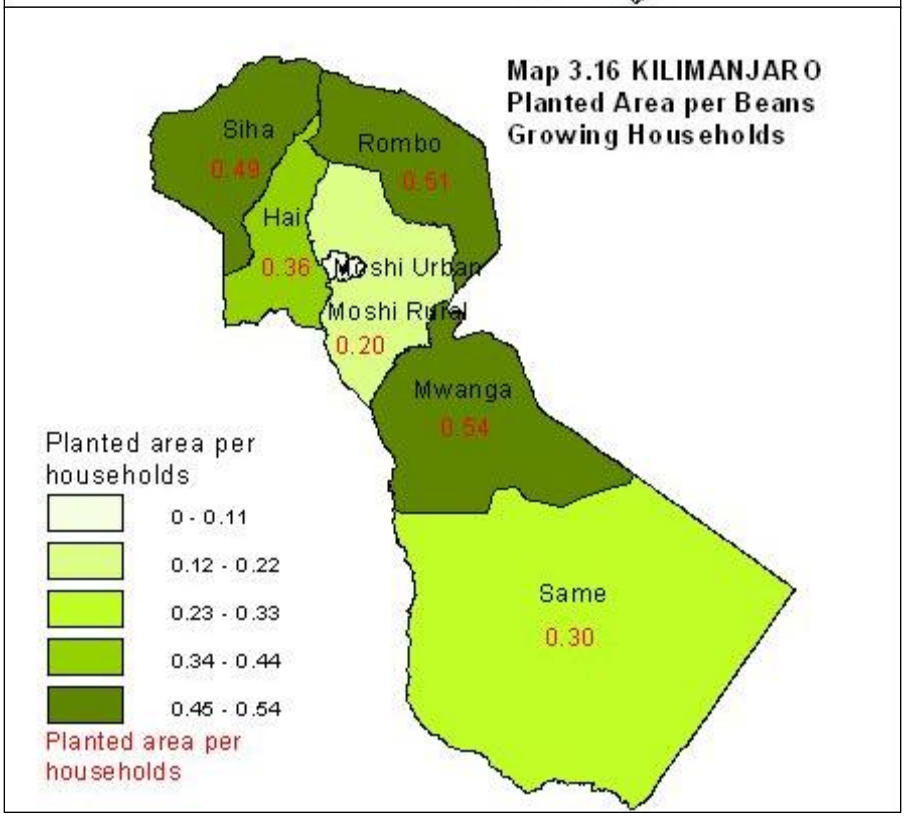


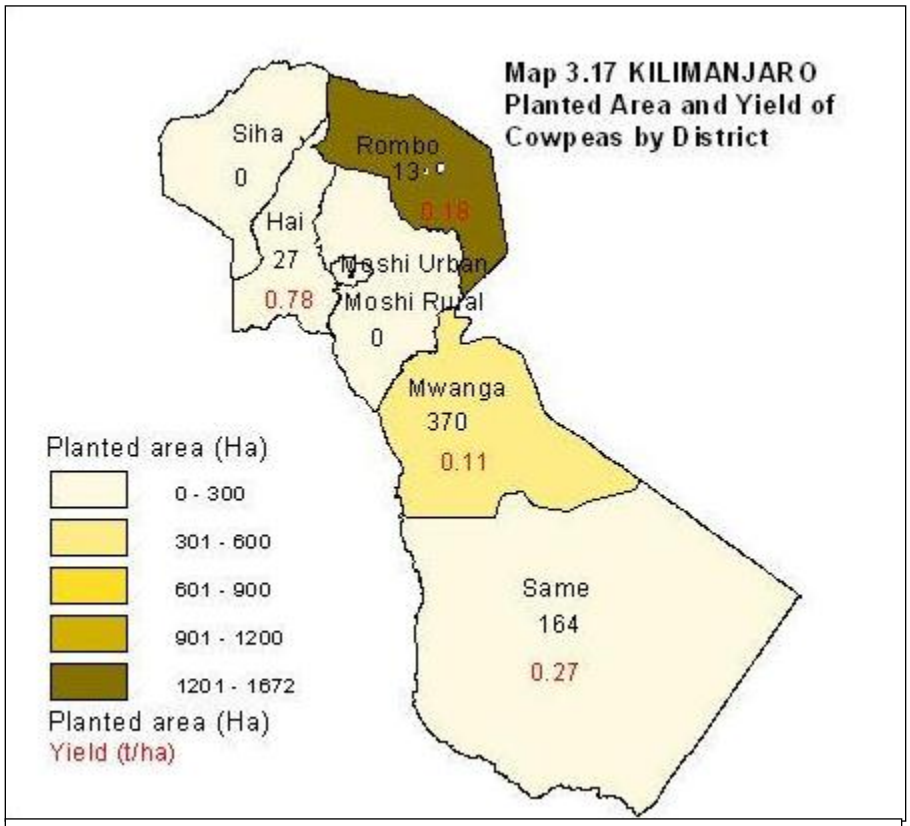
The number of households growing beans in region in both short and long rainy seasons was 184,205 households. The total production of beans in the region was 24,153tons from a planted area of 46,298 hectares resulting in a yield of 0.5t/ha. Same had the largest planted area of 12,483 haof beans in the region, followed by Rombo with 9,399, and Moshi rural (8,366 ha). Mwanga had the least area planted with beans (4,387 ha) accounting for 9 % of the total area planted with beans, (Chart 3.26, s 3.15, 3.16).

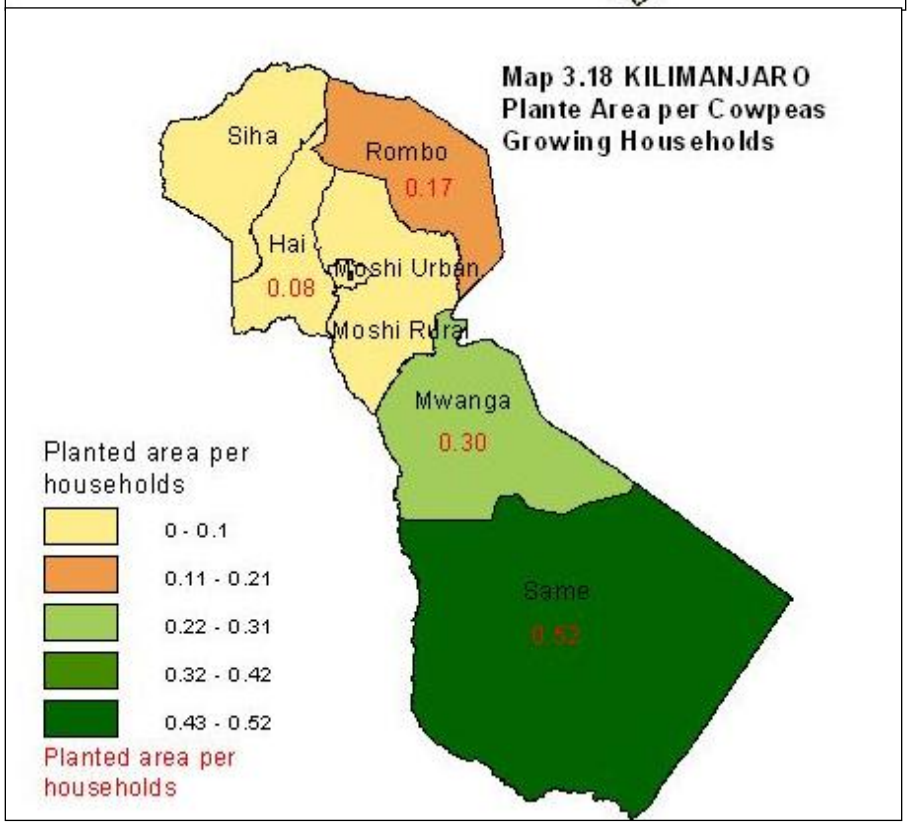
The average area planted per household in the region during the census years was 0.3 ha. There were slight variations in area planted with beans per household across the districts ranging from 0.40 to 0.20 ha, (Chart 3.27 and 3.15, 16). In region, area planted with beans increased steadily over the period of five from 44,284 ha in 2002/03 to 46,298 ha in 2007/08 with an increase of yields from 0.4t/ha in 2002/03 to 0.5t/ha in 2007/08 . Bean production increased from 17,622 tonnes in 2002/2003 to 24,153 tonnes in 2007/2008.




Map 3.15 KILIMANJARO
Planted Area and Yield of Beans by District
Siha
0.58
Rombo
9399
0.50
Hai
6107
0.38
Moshi Urban
Moshi Rural
8366
0.83
Mwanga
4,387
0.64
Same
12,483
1.07
Planted area (Ha)
0 - 900
901 - 1800
1801 - 2700
2701 - 3600
3601 - 4364
Planted area (Ha)
Yield (t/ha)

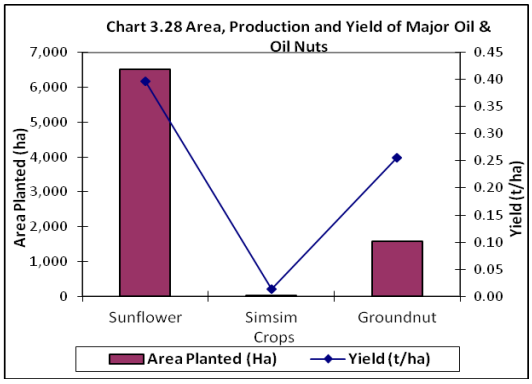

Map 3.16 KILIMANJARO
Planted Area per Beans Growing Households
Siha
0.49
Rombo
0.61
Hai
0.36
Moshi Urban
Moshi Rural
0.20
Mwanga
0.54
Same
0.30
Planted area per households
0 - 0.11
0.12 - 0.22
0.23 - 0.33
0.34 - 0.44
0.45 - 0.54
Planted area per households


Map 3.17 KILIMANJARO
Planted Area and Yield of
Cowpeas by District
Siha
0
Rombo
0.18
Hai
27
0.78
Moshi Urban
Moshi Rural
0
Mwanga
370
0.11
Same
164
0.27
Planted area (Ha)
0 - 300
301 - 600
601 - 900
901 - 1200
1201 - 1672
Planted area (Ha)
Yield (t/ha)


Map 3.18 KILIMANJARO
Plante Area per Cowpeas
Growing Households
Siha
Rombo
0.17
Hai
0.08
Moshi Urban
Moshi Rural
Mwanga
0.30
Same
Planted area per
households
0 - 0.1
0.11 - 0.21
0.22 - 0.31
0.32 - 0.42
0.43 - 0.52
Planted area per
households

3.3.7 Oil Seed Production

The total production of oilseed crops was 2,996 tons planted on an area of 8,124 hectares. The total planted area of oilseeds during the long rainy season was 4,885 ha representing 60% percent of the total area planted with oil seed crops. Sunflower was the most important oilseed crop with 6,521 ha (80 % of the total area planted with oil seeds). Groundnuts was second largest crop under oilseeds grown in occupying 1,587 ha, 19.5%), followed by simsim occupying 15 ha, 0.5 %). The yield for sunflower was 0.4t/ha, and the yield for groundnuts was 0.3t/ha, (Chart 3.28).



3.3.7.1 Groundnuts

Groundnuts production by districts indicates Rombo had the largest groundnuts planted area of 1,179 hectares (74.3 percent of the total area planted with groundnuts in the region) followed by Moshi rural (278 ha, 17.5 %), Same (98 ha, 6.2%), and Mwanga (31ha, 2%). Hai and Siha Districts did not any production of groundnuts (Chart 3.29). The average planted area per groundnut growing household was 0.2 hectares. (Chart 3.29).

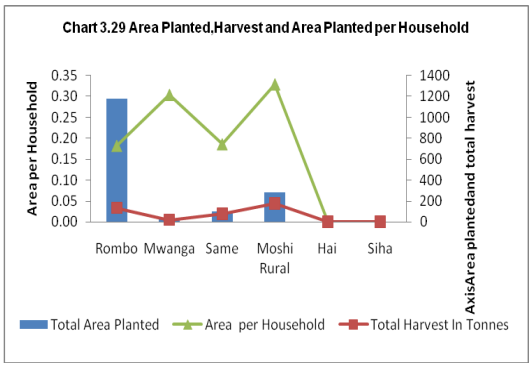
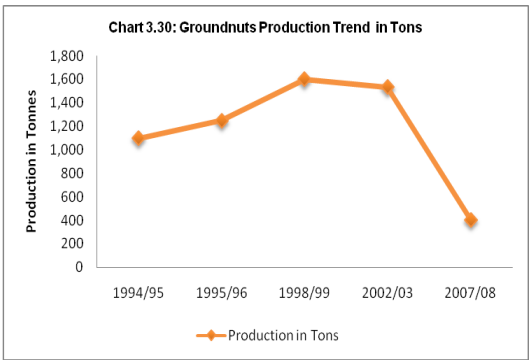


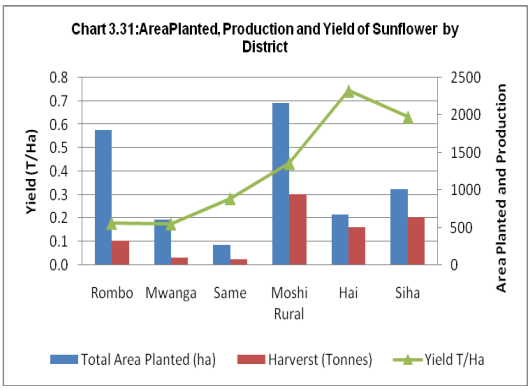
Chart 3.30 gives Groundnuts production trend (in thousand metric tons 1994/95 to 2007/08 agricultural seasons. The production trend of groundnuts over five years shows a slight decrease from 1,600 tons in 1998/99 to 1,536 tons in 2002/03 which was followed by a rapid decrease from 1,536 tons in 2002/03 to 406 tons in 2007/08.



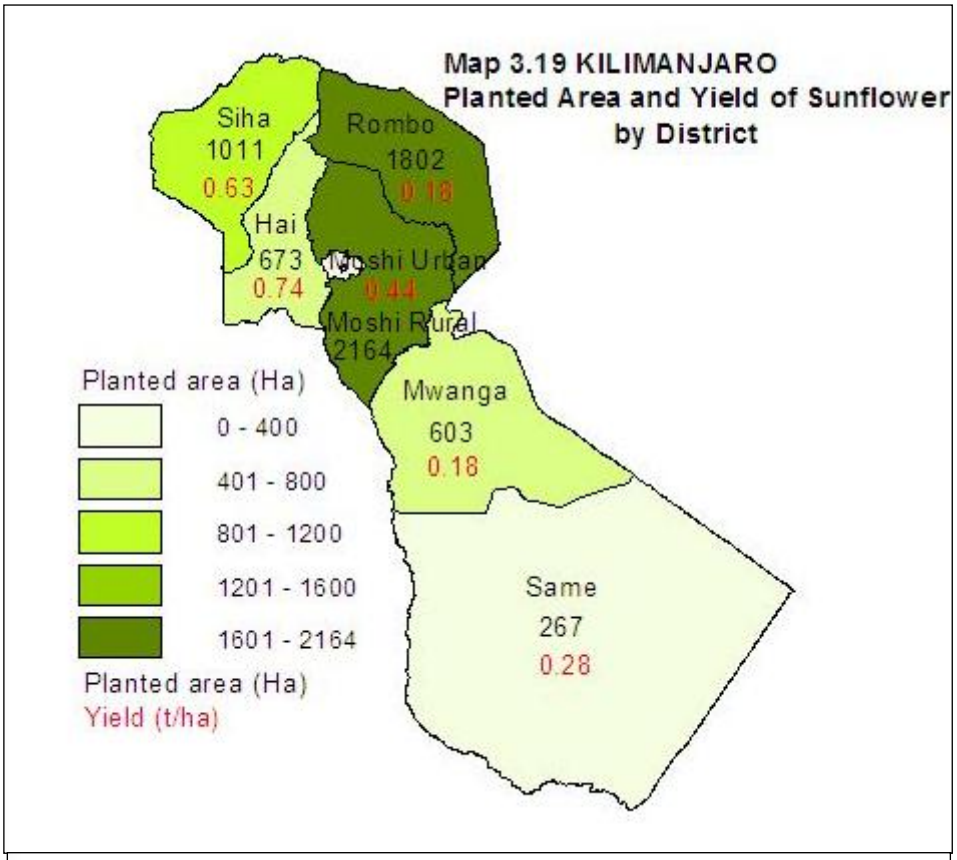
3.3.7.2 Sunflower

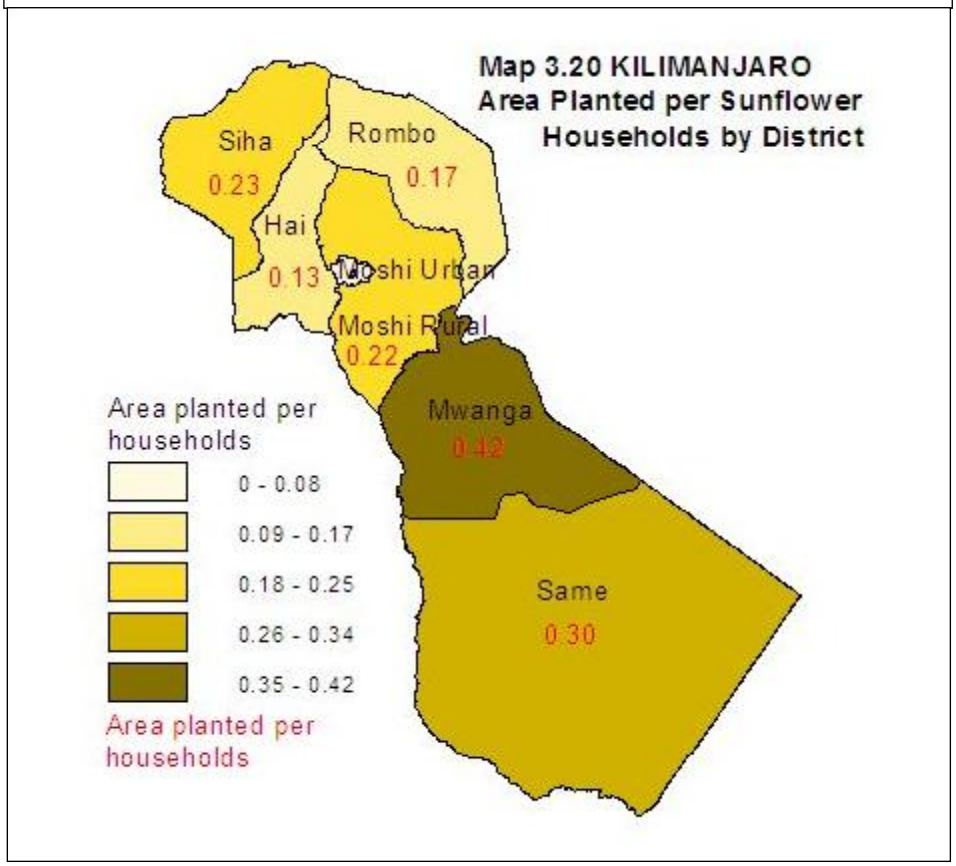
Sunflower was the first in importance among oilseed crop grown in the region, with 6,521 ha (80 % of the total area planted with oil seeds). Production constitute about 86% (2,590 tonnes) of the total

sunflower production. The number of household cultivated sunflower were 11,026 and 21,591 during short and long rainy seasons respectively. Moshi Rural had largest area planted (2,164 ha) followed by Rombo (1802 ha) and Siha 1011 ha. In terms of production Moshi Rural was leading with 942 tonnes followed by Siha (639 tonnes), Hai (501ha) and Same had the lowest production level (76 tonnes). (Chart. 3.31, s 19, 20).



Area planted increased sharply from 843 ha in 2002/2003 to 6,521 ha in 2007/2008. However, production of sunflower decreased from 3,724 tonnes in 2002/2003 to 2,590 tonnes in 2007/2008.


Map 3.19 KILIMANJARO
Planted Area and Yield of Sunflower
by District
Siha
1011
0.63
Rombo
1802
0.18
Hai
673
0.74
Moshi Urban
0.44
Moshi Rural
2164
Mwanga
603
0.18
Same
267
0.28
Planted area (Ha)
0 - 400
401 - 800
801 - 1200
1201 - 1600
1601 - 2164
Planted area (Ha)
Yield (t/ha)


Map 3.20 KILIMANJARO
Area Planted per Sunflower
Households by District
Siha
0.23
Rombo
0.17
Hai
0.13
Moshi Urban
Moshi Rural
0.22
Mwanga
0.42
Same
0.30
Area planted per
households
0 - 0.08
0.09 - 0.17
0.18 - 0.25
0.26 - 0.34
0.35 - 0.42
Area planted per
households

3.3.8 Fruits and Vegetables

Most of the data collected on fruits and vegetables were from the production of smallholders farmers. Most fruit production data reported in permanent crops section with exception of water melon which is an annual crop. Reliable historical data for time series analysis of fruits and vegetables are not available, the short rainy season was relatively important for fruits and vegetables production since 56 percent of the total area planted with fruits and vegetables was during the short rainy season.

The total production of fruits and vegetables was 28,215 tons, produced in a total area of 4,847 ha. Among fruits and vegetables, tomato crop was the most widely grown crop with a production of 17,557 tonnes (62.2% of the total fruits and vegetables produced) followed by Ginger (2,488 tonnes, 9%), Cabbage (1,456 tonnes, 5.3%), Okra (1,367 tons, 5%), Chillies (1322 tonnes), Onions (1,231 tonnes, 4.4%) and Carrot (634 tonnes), . The production of other fruit and vegetable crops grown in the region was small amounting to less than a thousand tones (Table 3.6).

The yields of fruit and vegetable crops was highest for tomatoes (14.1t/ha), cabbage (7 t/ha), Okra (4.4t/ha) and onion (2.48 t/ha)), carrot (5.18 t/ha) and cucumber (3.32 t/ha). Ginger, cucumber and Bitter Aubergine, amounted to 3 tons per hectare each. The remaining crops contributed less than 3 tons per hectare (Table 3.6, Chart 3.32).

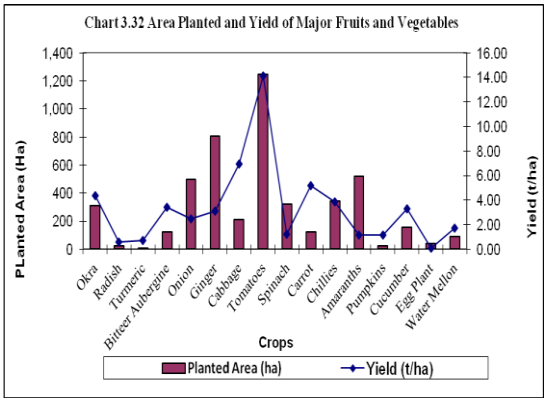
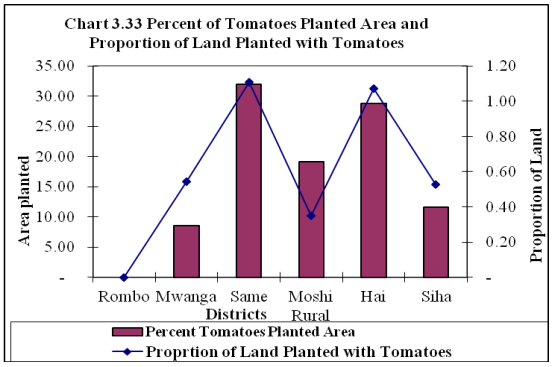


Table 3.6 Area, Production and Yield of Fruits and Vegetables

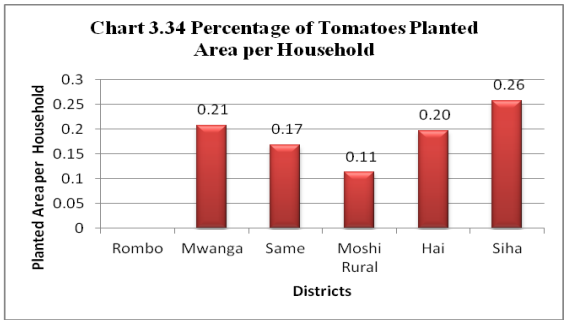
Crop	Number of Household	Planted Area (hectare)	Quantity Harvested (tons)	Percentage	Yield (T/Ha)
Tomatoes	7,393	1,245	17,557	62.2	14.11
Ginger	2,516	809	2,488	8.8	3.08
Cabbage	1,456	213	1,489	5.3	6.98
Okra	1,306	312	1,367	4.8	4.39
Chillies	2,843	345	1,322	4.7	3.84
Onion	2,239	497	1,231	4.4	2.48
Carrot	798	122	634	2.2	5.18
Amaranths	3,226	520	591	2.1	1.14
Cucumber	1,080	158	525	1.9	3.32
Bitter Aubergine	714	124	422	1.5	3.42
Spinach	2,549	322	387	1.4	1.20
Water Mellon	263	89	152	0.5	1.71
Pumpkins	212	21	25	0.1	1.19
Radish	63	25	16	0.1	0.62
Turmeric	63	6	4	0.0	0.69
Egg Plant	260	38	3	0.0	0.09
Total	26,978	4,847	28,215	100.0	5.82

3.3.8.1 Tomatoes

The number of households growing tomatoes in the region during the 2007/08 agricultural season was 7,393 for both short and long rainy seasons. This represented 27 percent of the total households growing vegetables in the region during the 2007/08 agricultural season. Tomatoes planted area by districts indicates Same District having the largest area (397 ha, 32% of the total area planted with tomatoes in the region), followed by Hai (358 ha, 29%), Moshi rural (238 ha, 19.1%), Siha (144 ha, 11. 6%), and Mwanga (107 ha, 8.6%). Rombo District was not reported as having grown tomatoes during the 2007/08 agricultural season. Same and Hai had the highest proportion of land with tomatoes of 0.5 ha for both. The remaining districts had relatively low percentage proportions of less than 1 percent of the land used for tomato production (Chart 3.33, s 3.21, 3.22).

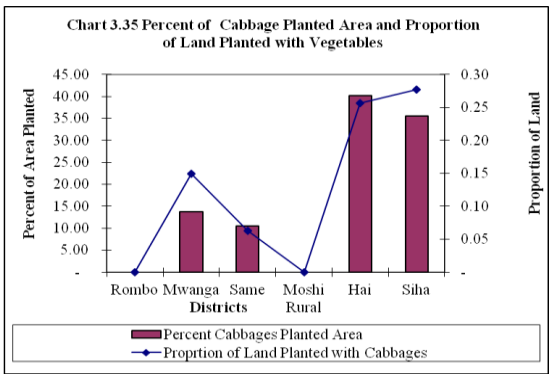


Siha District had the largest planted area per tomato growing household during the 2007/08 agricultural season (0.3 ha/hh), followed by Mwanga, Hai and Same with 0.2 ha per household for each district. Moshi rural had the least planted area per tomato growing household during the 2007/08 agricultural season (0.1 ha/hh) (Chart 3.34, and 3.23). The total area planted with tomatoes accounted for 0.6 percent of the total area planted with annual crops and vegetables during the census year.



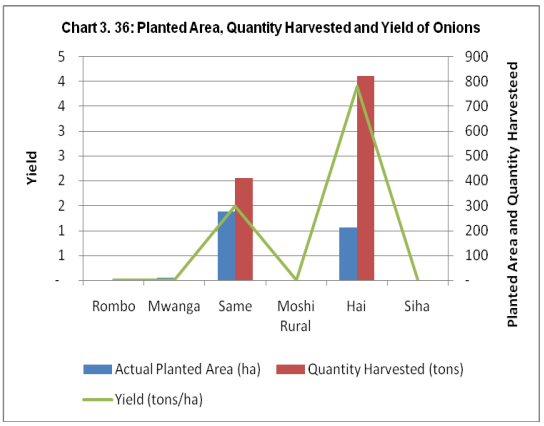
3.3.8.2 Cabbage

The number of households growing cabbages in the region during the 2007/08 agricultural season was 1,456. This represented 0.1 percent of the total crop growing households during the 2007/08 agricultural season. Hai District had the largest area planted with cabbage (86 ha, 40.2% of the total area planted with cabbage in the region), followed by Siha (76 ha, 35.6%), Mwanga (29 ha, 14%), Same (22 ha, 10.5%). Rombo and Moshi Rural districts were not reported having grown Cabbage during the 2007/08 agricultural census (Chart 3.35) Siha and Hai had the largest proportion of land planted with cabbage during the 2007/08 agricultural census (0.3 ha for both districts). The total

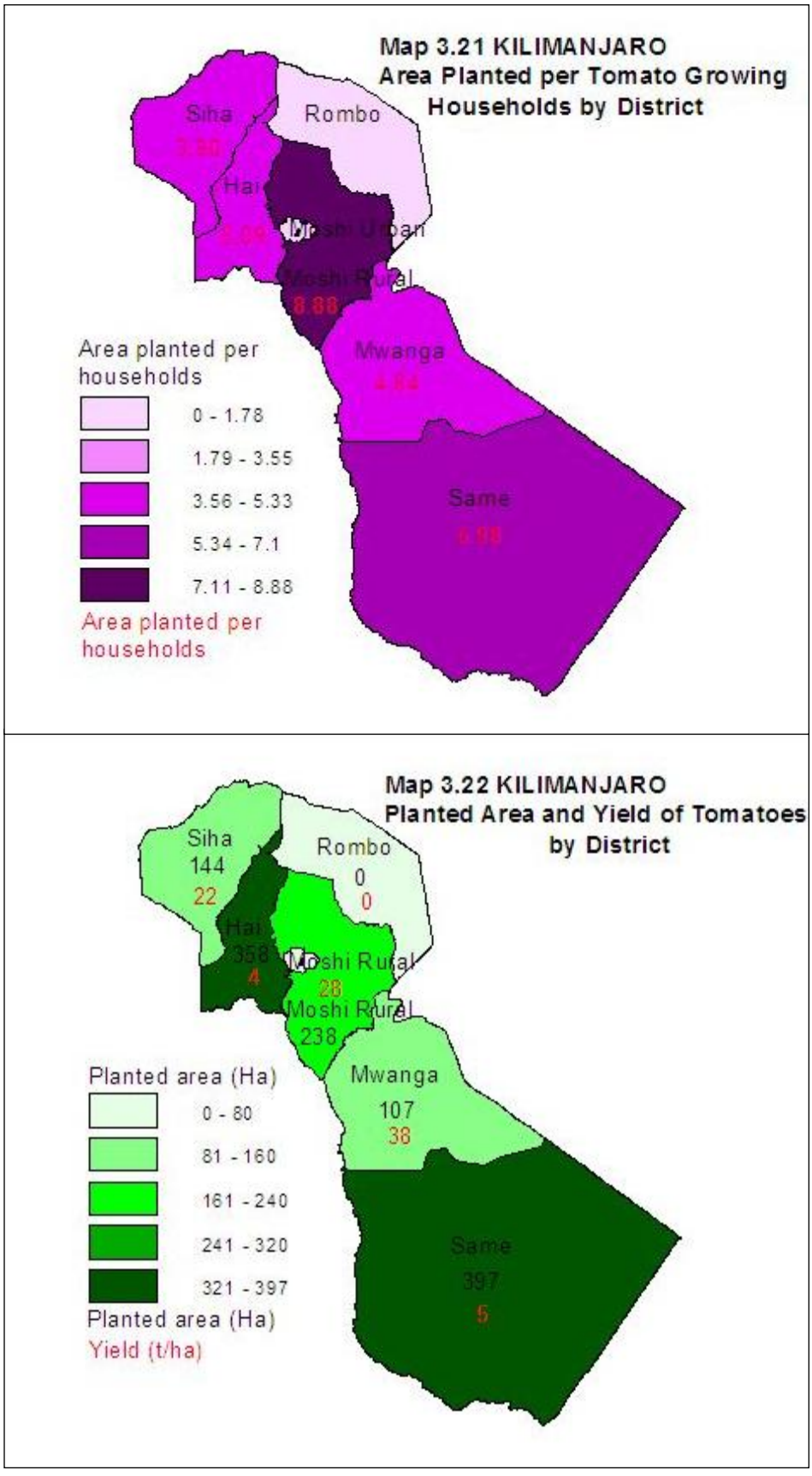


area planted with cabbage accounted for 25.6 percent of the total area planted with annual crops and vegetables in the region (3.23, 24).

3.3.8.3 Onions



During the 2007/08 agricultural census, a total number of 2,239 households were involved in growing onions in region. This represented 1 percent of the total crop growing households in the region. Same District had the largest area planted with onions (276 ha, 55.5% of the total area planted with Onions in the region). This was followed by Hai (211 ha, 42.4%), and Mwanga (10 ha,2.1%). Onion production was not reported in Siha, Moshi Rural and Rombo districts (Chart 3.36). Hai district had a higher yield of onions (4 tonnes per hectare), compared to Same (1 tonne per hectare) (Chart 3.36). The total areaplanted with onions accounted for 10 percent of the total area planted with annual crops and vegetables in the region during the short and long rainy seasons.(3.25, 3.26)


Map 3.21 KILIMANJARO
Area Planted per Tomato Growing Households by District
Siha
Rombo
Hai
Moshi Rural
Mwanga
Same
Area planted per households
0 - 1.78
1.79 - 3.55
3.56 - 5.33
5.34 - 7.1
7.11 - 8.88
Area planted per households
Map 3.22 KILIMANJARO
Planted Area and Yield of Tomatoes by District
Siha
144
22
Rombo
0
0
Hai
358
4
Moshi Rural
28
Moshi Rural
238
Mwanga
107
38
Same
397
5
Planted area (Ha)
0 - 80
81 - 160
161 - 240
241 - 320
321 - 397
Planted area (Ha)
Yield (t/ha)

3.3.9 Other Annual Crop Production

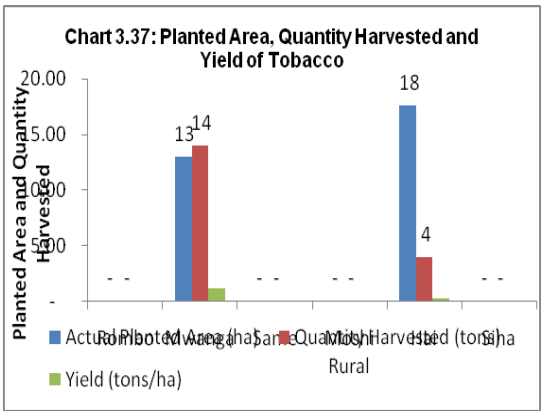
The other annual crops grown in region are cash crops. These crops include cotton, tobacco, and pyrethrum. Tobacco was the only cash crop that was reported during 2007/08 agricultural census (Table 3.7).

Table 3.7: Annual Crops Planted Area and Quantity Harvrsted

Cash Crops	Number of Households	Planted Area (ha)	Quantity Harvested	Yield (tons/hectare)
Cotton	0	0	0	0
Tobacco	277	31	18	1
Pyrethrum	0	0	0	0
Total	277	31	18	1

3.3.9.1 Tobacco

Tobacco was the only annual cash crop produced during 2007/08 agriculture census in region, with the production of 18 tons planted on a total area of 31 hectares. Tobacco was grown in Mwanga and Hai Districts only, with the largest planted area of 18 hectares planted in Hai. Better yield of tobacco was realized in Mwanga district where an average of 1 tonnes per hectare was produced. In Hai, an average yield was 0.2 tonnes per hectare. Rombo, Same and Siha districts did not report production of Tobacco (Chart 3.37 and 3.27, 3.28).

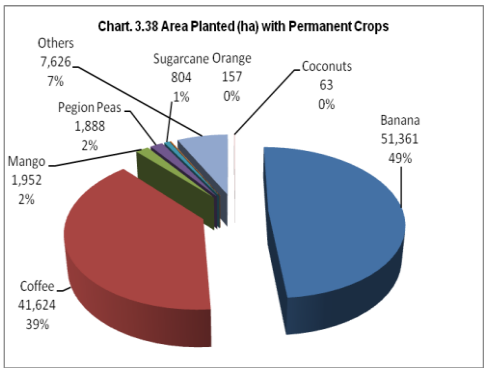


3.4 Permanent Crops

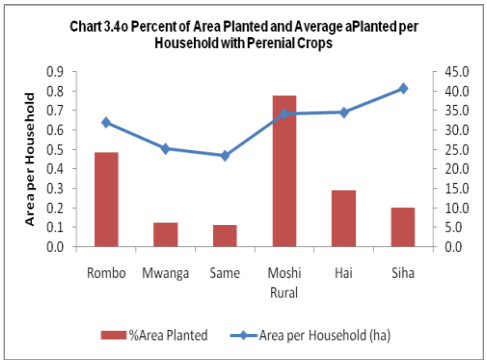
Permanent crops (sometimes referred as perennial crops) are crops that normally take over a year to mature and once mature they can be harvested for a number of year . Conversely, bananas normally take 9 to 12 months to bear fruits, tillering characteristics of bananas and thus treated as a permanent crop. In this report the agriculture census results are presented for the most important permanent crops in terms of planted area, production and yield.

The total area of smallholders planted with permanent crops was 105,476 hectares and total area harvested was 81,060 hectares in the region). Chart 3.38 Previous censuses and surveys did not measure these variables for permanent crops, therefore no time series analysis is made in this section.

The most important permanent crop in region was banana which had a planted area of 51,361 ha, (49% of the planted area of all permanent crops) followed by coffee (41,624ha, 39%), Mango (1952 ha , 2%), peagion peas (188ha, 2%),sugar cane (804ha, 1%), Orange (157 ha ,0.1%), Coconut (63ha, 0.1) (Chart 3.38 and 3.26 and 3.27.



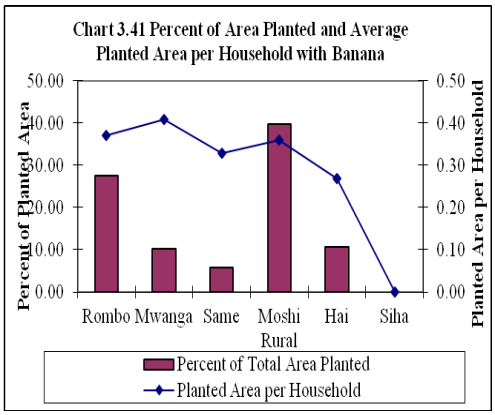
Moshi Rural district had the largest area under smallholder permanent crops (40,953 ha, 39%), this was followed by Rombo (25,747 ha, 24.4%), Hai (15, 3,468 ha, 14.6%), Siha (10,683 ha, 10.1%), Mwanga (6,700ha, 6.4%), and lastly Same (6,047 ha, 5.7%). Siha had the largest area per permanent crop growing household (0.8 ha), followed by Hai and Moshi rural with 0.7 ha for both. Same and Mwanga had the least area per permanent crop growing household of 0.5 ha for both, followed by Rombo (0.6 ha) (Chart 3.40).

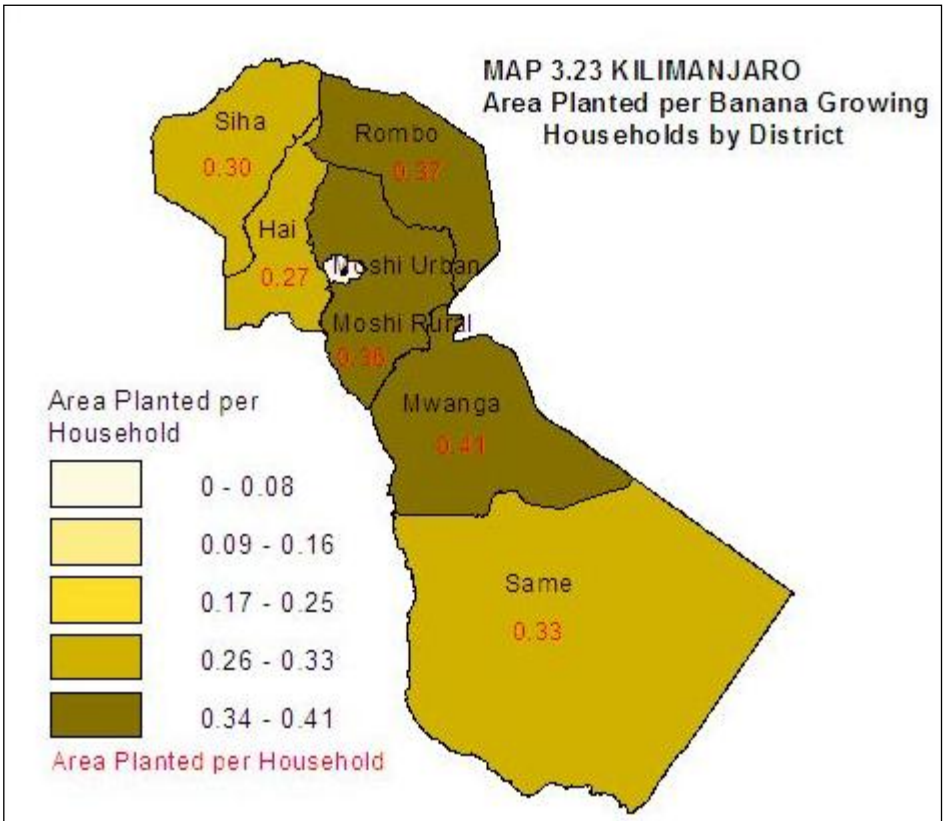


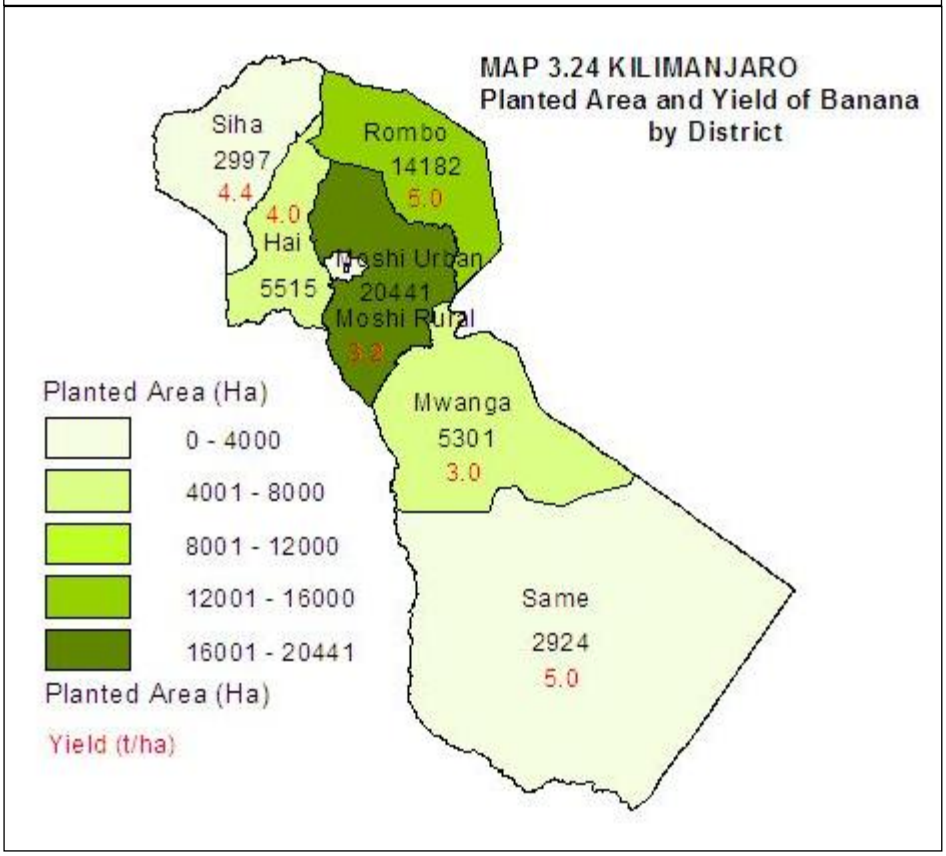
3.4.1 Banana

Banana was the most important permanent crop in terms of acreage planted of an area of 51,361 ha, grown by 147,774 households. The total average area planted with Banana per household was relatively small of 0.3 ha. There were slight variations across the districts in terms of area planted with Banana per household. The area planted with Banana per household was highest in Mwanga, Rombo, and Moshi Rural with approximately 0.4 ha in each district, while Same, Hai and Siha districts each had an average of 0.3 hectares of planted area per household.

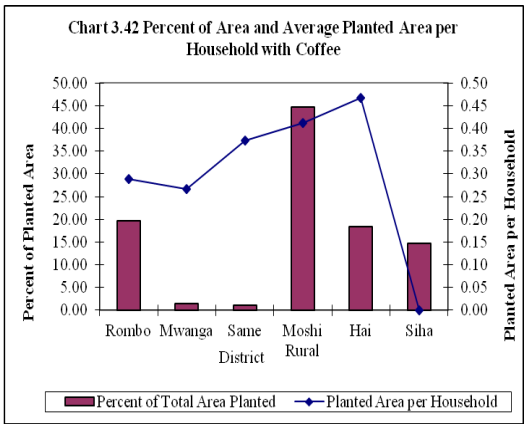
In terms of percentage of the total area planted with Banana Moshi Rural had the highest (40%), followed by Rombo (28%), Hai (11%), and Mwanga (10.3%), and Same and Siha had 6% each. (Chart 3.41 and 3.29).



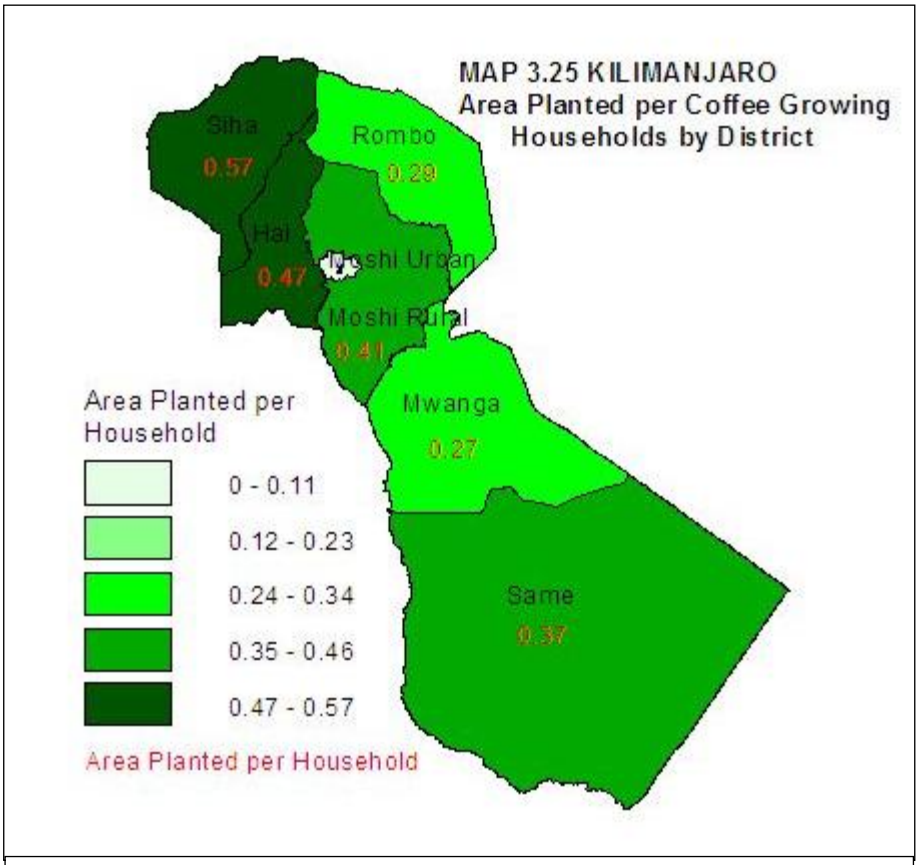

MAP 3.23 KILIMANJARO
Area Planted per Banana Growing Households by District
Siha
0.30
Rombo
0.37
Hai
0.27
Moshi Urban
Moshi Rural
0.36
Mwanga
0.41
Same
0.33
Area Planted per Household
0 - 0.08
0.09 - 0.16
0.17 - 0.25
0.26 - 0.33
0.34 - 0.41
Area Planted per Household

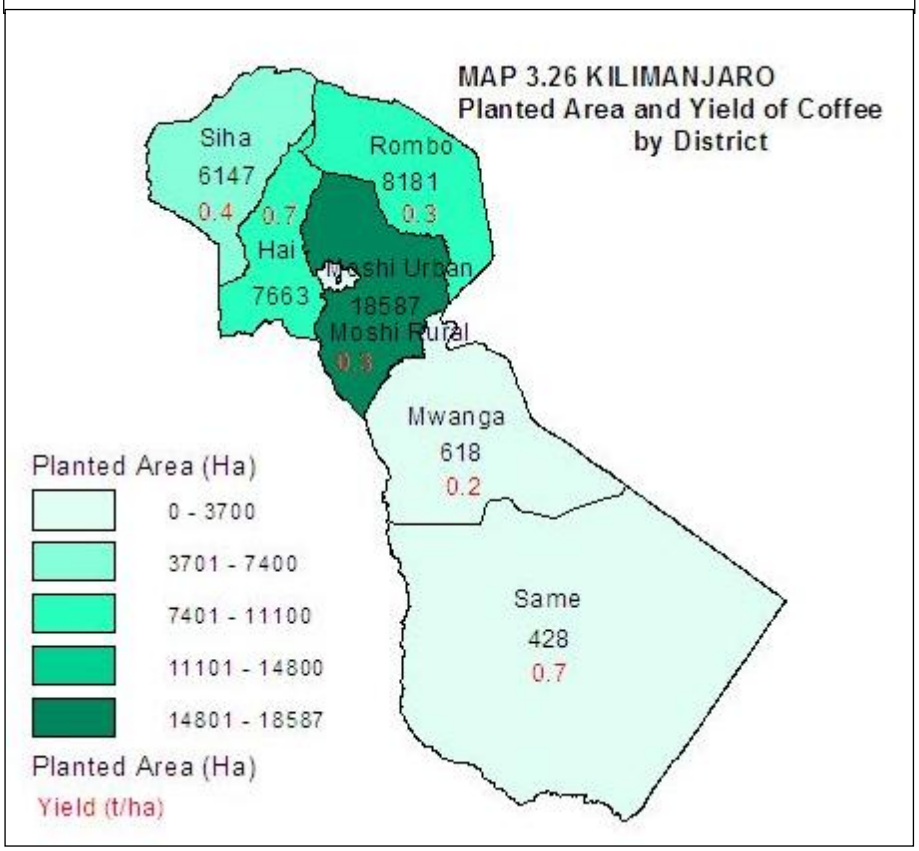

MAP 3.24 KILIMANJARO
Planted Area and Yield of Banana by District
Siha
2997
4.4
Rombo
14182
5.0
4.0
Hai
5515
Moshi Urban
20441
Moshi Rural
3.2
Mwanga
5301
3.0
Same
2924
5.0
Planted Area (Ha)
0 - 4000
4001 - 8000
8001 - 12000
12001 - 16000
16001 - 20441
Planted Area (Ha)
Yield (t/ha)

3.4.2 Coffee

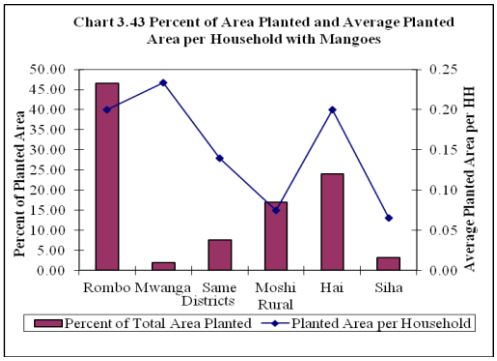


Coffee was the second most important crop after banana grown by 104,061 smallholder households that is 10 percent of the total crop growing households. The average area planted with coffee per household was relatively small at around 0.4 ha. There were district variation in terms of the average area planted with coffee per household with Siha having the highest of 0.6 ha, followed by Hai 0.5ha. Rombo and Mwanga districts had the smallest area per hosehold, 0.3ha each.. Moshi rural had the largest area planted with coffee in the region (18,587 ha, 45.%) followed by Rombo (8,181 ha, 20%), Hai (7,663 ha, 18.4%) and Siha (6,147 ha, 15%). The remaining districts had small percentage of the total area planted with coffe of less than 2 percent (Chart 3.42 and 3.31, 3.32).


MAP 3.25 KILIMANJARO
Area Planted per Coffee Growing Households by District
Siha
0.57
Rombo
0.29
Hai
0.47
Moshi Urban
Moshi Rural
0.41
Mwanga
0.27
Same
0.37
Area Planted per Household
0 - 0.11
0.12 - 0.23
0.24 - 0.34
0.35 - 0.46
0.47 - 0.57
Area Planted per Household


MAP 3.26 KILIMANJARO
Planted Area and Yield of Coffee by District
Siha
6147
0.4
0.7
Rombo
8181
0.3
Hai
7663
Moshi Urban
18587
Moshi Rural
0.3
Mwanga
618
0.2
Same
428
0.7
Planted Area (Ha)
0 - 3700
3701 - 7400
7401 - 11100
11101 - 14800
14801 - 18587
Planted Area (Ha)
Yield (t/ha)

3.4.4 Mangoes



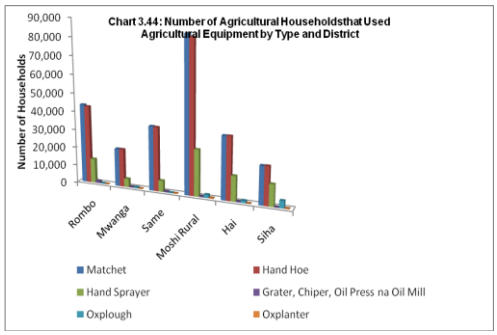
In terms of area planted, Mangoes was among the least important permanent crop grown by smallholders in the region. It was grown by 13,474 households (8.3% of the total perennial crop growing households). The average area planted with Manoges per household was relatively small at around 0.1 ha per mango growing household. Rombo had the largest area planted with mangoes in the region (908 ha, 46.5 %), followed by Hai (468 ha, 24%, and Moshi Rural (331 ha, 17%). The ramining districts had small area planted with mangoes per household at less than 10 percent. (Chart 3.43)

3.5 Use of Inputs/Implements

3.5.1 Methods of Land Clearing and use of agricultural equipment

Land clearing is a common pre-tillage operation practiced by most farmers in the region. Land clearing is divided into two categories: bush clearing, which by definition implies either expansion into virgin areas or into areas which have been left fallow for a long period while the other category, which includes burning, hand slashing or tractor slashing, is normally an annual clearing exercise to remove vegetation growth from the previous season.

Matchet and handhoe are the most widely used farming tools used for land clearing, applied by 99 and 98 percent respectively of agricultural households doing land clearing in . Other agricultural equipment used in order of importance include hand sprayer used by 31.2 percent of agriclutral households, oxlplough (3%), Grater, Chipper, Oil Press and Oil Mill (1.3%), and ox planter (0.2%)



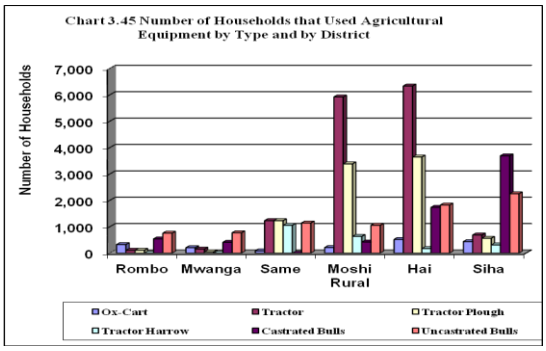
Moshi Rural district had the highest percentage of agricultural households using matchet and hand hoe in land clearing (35 percent of agricultural households using both matchet and hand hoe for land clearing). Same and Hai had the second highest percentage of agricultural households using matchet and hand hoe for land clearing. Same had 15 percent of agricultura households using matchet and hand hoe, and Hai had 14.4 and 15 percents of agricultura hosueholds using matchet and hand hoe respectively (Table 3.8, Chart 3.44) .

Table 3.8 Number and Percentage of Agriculture Households that used Agricultural Equipment/Asset by type and District

District	Equipment/Asset Type											
	Matchet		Hand Hoe		Hand Sprayer		Grater, Chipper, Oil Press and Oil Mill		Ox plough		Ox planter	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Rombo	43,346	18.0	42,590	17.9	13,404	30.6	1,189	2.7	108	0.2	0	0.0
Mwanga	20,787	8.7	20,787	8.7	4,591	22.0	413	2.0	464	2.2	52	0.2
Same	35,386	14.7	35,122	14.8	6,074	17.0	440	1.2	88	0.2	0	0.0
Moshi Rural	85,029	35.4	83,548	35.1	25,593	29.9	423	0.5	1,692	2.0	212	0.2
Hai	34,546	14.4	34,633	14.6	13,888	39.5	434	1.2	1,215	3.5	87	0.2
Siha	21,134	8.8	21,259	8.9	12,068	55.9	188	0.9	4,002	18.6	188	0.9
Total	240,228	99.0	237,939	98.0	75,617	31.2	3,086	1.3	7,569	3.1	537	0.2

3.5.2 Methods of Soil Preparation

Tractor was one of the farming tools used in region for soil preparation and was used by 14,442 agricultural households. representing 34 percent of the total agricultura hosueholds using equipment for soil preparation, followed by tractor ploughing (8,985 households, 21%), uncastrated bulls (7,806 households, 19%) and Castrated Bulls (6,801 households, 16.2%). Ox cart is the least used equipment in soil preparation used only by 1,789 agricultura hosueholds representing 4.3 percent, folllowed by Tractor harrow used by 2,177 households which is 5.2 percent of agricultural households using equipemnt in land preparation.



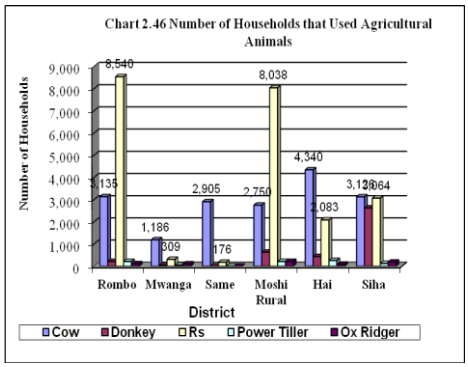
For most important methods of soil preparation, Hai and Moshi Rural had the highest number of agricultural households (6,336hh, 15.1% and 5,922hh, 14.4%) respectively) using Tactor to prepare soil. Tractor Plough is widely used in Hai (3,646 households, 9%), followed by Moshi Rural (3,384 households, 8.1%), and Same (1,232 households, 3%). Uncastrated bulls were widely used in Siha (5.4%), Hai (4%), Same and Moshi Rural by 3 percent of agricultural households for both districts. Castrated bulls were widely used in Siha by 9 percent and Hai by 4.1 percent of agricultural households using agricultural equipment to prepare soil in region (Table 3.9, Chart 3.45)

Table 3.9 Number of Households that Used Agricultural Equipment by Type and District

District	Equipment/Asset Name											
	Ox cart		Tractor		Tractor plough		Tractor Harrow		Castrated bulls		Uncastrated bulls	
	Number	%	Number	%	Number	%	Number		Number	%	Number	%
Rombo	324	0.8	108	0.3	108	0.3	0	0	540	1.3	757	1.8
Mwanga	206	0.5	155	0.4	52	0.1	0	0	413	1	774	1.8
Same	88	0.2	1,232	2.9	1,232	2.9	1,056	2.5	0	0	1,144	2.7
Moshi Rural	212	0.5	5,922	14.1	3,384	8.1	635	1.5	423	1	1,058	2.5
Hai	521	1.2	6,336	15.1	3,646	8.7	174	0.4	1,736	4.1	1,823	4.3
Siha	438	1	688	1.6	563	1.3	313	0.7	3,689	8.8	2,251	5.4
Total	1,789	4.3	14,442	34.4	8,985	21.4	2,177	5.2	6,801	16.2	7,806	18.6

3.5.2.1 Use of Agricultural Animals and Equipment

There was also an extensive use of agricultural animals and equipment in farming activities. Shellers/Thresher (22,210 household, 9.2%) was the most widely used equipment in farming activities in the region, followed by Cow 17,442 agricultural households (7.2%) , and Donkey (3,962 households, 2%). Power and Ox Ridger had the lowest number of agricultural household (less than 1 percent) using them.



There were variations across District in terms of using animals and equipment in farming activities. Cow was widely used in Siha and Hai districts by 15 and 12 percent respectively of agricultural households using the animals and equipment. Donkey is widely used in Siha (12.2%), while Thresher is widely used in Rombo and Moshi Rural, representing 20 and 14.2 percents respectively agricultural households using the animals and equipment. Power Tilletr and Ox Ridger were not recotrded in Same District(Chart 3.46).

3.5.3 Use of Improved Seeds

he planted area using improved seeds was estimated at 72,160 ha, which represented 40 percent of the total area planted with the annual crops and vegetables. The area planted without improved seeds was 108,011ha representing 60 percent of the total area planted with the annual crops and vegetables. (Chart 3.47).

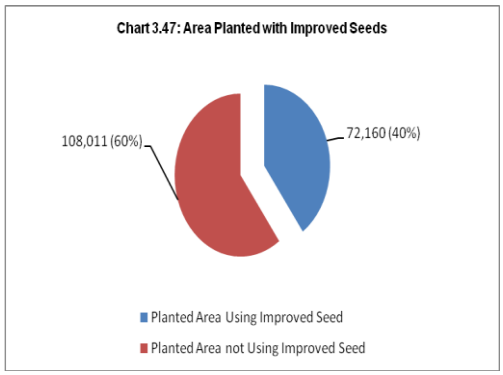


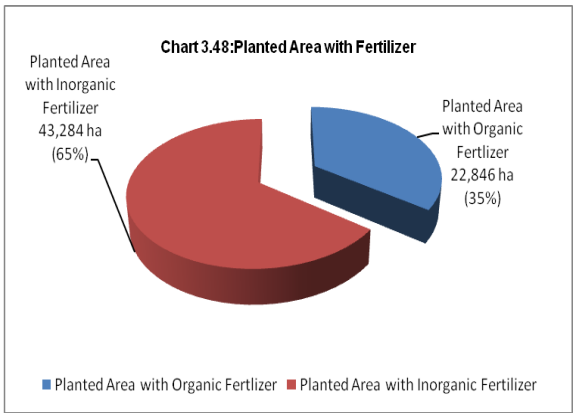
Table 3.10 Area and percentage area Planted with and without Improved Seeds by districts

District	Planted Area with Improved Seeds	% of Planted Area with Improved Seeds	Planted Area without Improved Seeds	% of Planted Area without Improved Seeds
Rombo	10,327	6	17,694	10
Mwanga	8,894	5	11,482	6
Same	7,670	4	30,692	17
Moshi Rural	21,133	12	25,965	14

The use of improved seeds was more pronounced in Moshi Rural district where 12% of the total area planted with annual crops in the region used improved seeds. This was followed by Hai, Siha and Rombo districts, where 7%, 6% and 6% of the planted area used improved seeds respectively.

3.5.4 Fertilizer Use

The use of fertilisers on annual crops was moderate with a planted area of 66,130 ha (37 percent of the total planted area of 180,171 ha in the region) during both long and short rainy seasons . Of the total area planted with fertilizers 22,846 ha representing 35 percent was planted with organic ferlizers and 43,284 ha representing 65 percent was planted with inorganic fertilizers. Therefore the area planted with inorganic ferlizers in both seasons was slightly higher than the area planted with organic fertilizers in the corresponding seasons during the census year (Chart 3. 48).



Organic Fertilisers Use

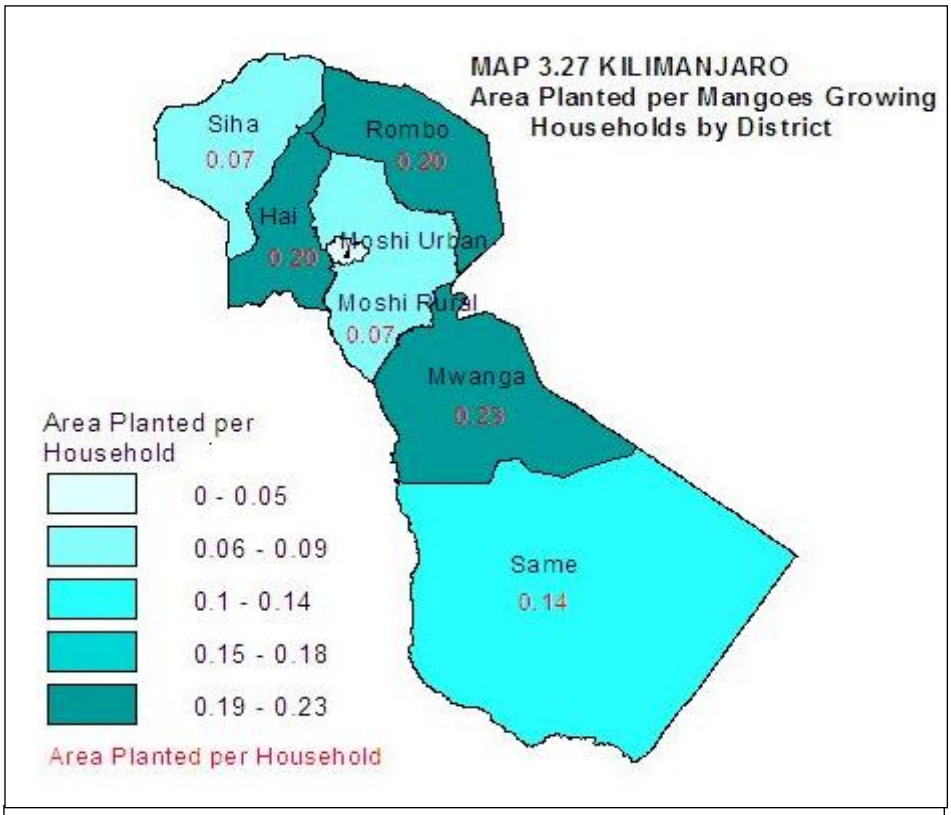
he total planted area applied with Organic fertiliser in region was 22,846 ha representing 35% of the area planted with fertilisers in the region. District profile on utilisation of feriltisers indicates Moshi Rural as having the largest area planted with organic fertlizer (7,137ha, 31%) during long and short rainy seasons, followed by Rombo (6,595ha, 29%). Same and Mwanga had moderate application of organic fertiliser of 3,246 ha (14%) and 2,324 ha (10%) respectively. The remaining districts had low application of organic ferlizers of less than 10 percent of the total area planted with organic fertiliser during the long and short rainy seasons during the census year (Table 3.11)

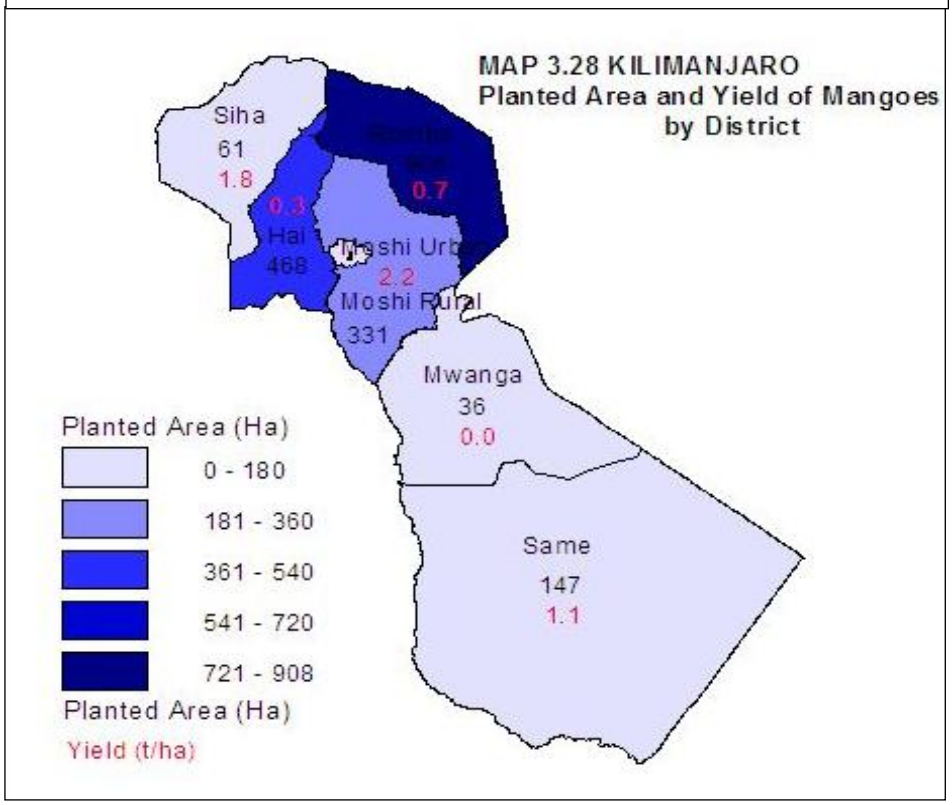
Inorganic Fertiliser Use

The total planted area applied with inorganic fertilisers in region was 43,284 ha which represents 24% percent of the total area planted with fertiliser. The trend in the application of inorganic fertlizers also indicates Moshi Rural as leading at 16,043 hectares representing 9% of the total are planted with inorgainc fertlizers. Moshi Rural had the largest area planted with annual crops and vegetables in the region, hence aplication of fertiliser is also expected to be high. Hai had the second largest area planted with inorganic fertliser (12,128 ha, 7%). Siha was third with the largest area planted with inorganic fertlizers at 6,503 ha (2%). Same and Rombo had amoderate area planted using inorganic fertilizer at 2% each, and Mwanga had the smallest area planted with inorganic fertilisers at 1,362 ha (1%). (Table 3.11).

Table 3.11 Planted Area with Fertilizer during long and short rainy seasons

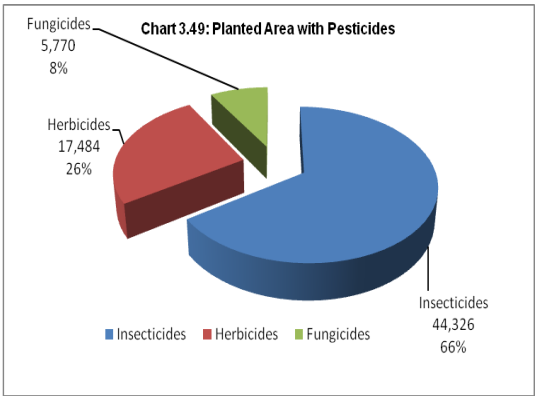
District	Planted Area Applied with Organic Fertlizer in Short rain Season	Planted Area Applied with Organic Fertlizer in Long Rain Season	Planted Area Applied with Inorganic Fertilizer in Short Rain Season	Planted Area Applied with Inorganic Fertilizer Long Rain Season	Planted Area Applied with Organic Fertlizer in Vuli & Masika	Planted Area Applied with Inorganic Fertilizer Vuli & masika	% of Planted area using Organic Fertlizer in Short Rain Season	% of Planted area using Organic Fertlizer in Long Rain Season
Rombo	5,068	1,527	2,124	1,481	6,595	3,651	-	12.2
Mwanga	1,504	820	913	449	2,324	1,733	14.4	8.2
Same	2,576	670	3,019	624	3,246	3,689	10.0	5.3
Moshi Rural	3,864	3,273	5,046	10,997	7,137	8,319	21.9	11.1
Hai	918	1,172	3,013	9,115	2,090	4,185	14.2	6.4
Siha	297	1,156	592	5,911	1,454	1,748	10.3	6.3
Total	14,228	8,618	14,707	28,577	22,846	23,325	18.1	8.5


MAP 3.27 KILIMANJARO
Area Planted per Mangoes Growing Households by District
Siha
0.07
Rombo
0.20
Hai
0.20
Moshi Urban
Moshi Rural
0.07
Mwanga
0.23
Same
0.14
Area Planted per Household
0 - 0.05
0.06 - 0.09
0.1 - 0.14
0.15 - 0.18
0.19 - 0.23
Area Planted per Household


MAP 3.28 KILIMANJARO
Planted Area and Yield of Mangoes by District
Siha
61
1.8
0.3
0.7
Hai
468
2.2
Moshi Rural
331
Mwanga
36
0.0
Same
147
1.1
Planted Area (Ha)
0 - 180
181 - 360
361 - 540
541 - 720
721 - 908
Planted Area (Ha)
Yield (t/ha)

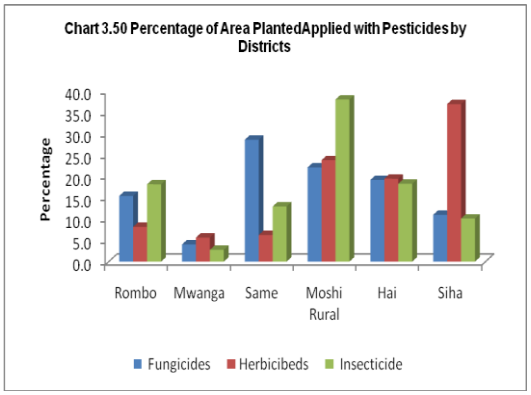
3.5.5 Pesticide Use

Pesticides are chemicals used for controlling insects, diseases and weeds. This section analyses the use of these chemicals by smallholders on both annual and permanent crops in the region. Pesticides were applied to a planted area of 107,916 ha of annual crops and vegetables. Insecticides are the most common pesticide used in the region applied to an area of 44,326 ha (66%of the total area applied with pesticides). This was followed by herbicides which was applied to a total area of 17,484 ha (26%) and fungicides applied to an area of 5,770 ha (8.5%) (Chart 3.49).



3.5.5.1 Insecticide Use

The planted area applied with insecticides was estimated at 44,326 ha which represented 66 percent of the total planted area applied with pestcides. Moshi Rural District had the lagrest area of annual crops planted with insecticides (16,816 ha, 37 % of the area planted with insecticides in the region). This was folowed by Hai (8,075 ha, 18%), Rombo (8,024 ha, 18 %), Same (5,725 ha, 12.9 %), Siha (4,446 ha, 10.1%). The smallest percentage use was recorded in Mwanga district (1,220 ha, 3%) (Chart 3.50).



3.5.5.2 Herbicide Use

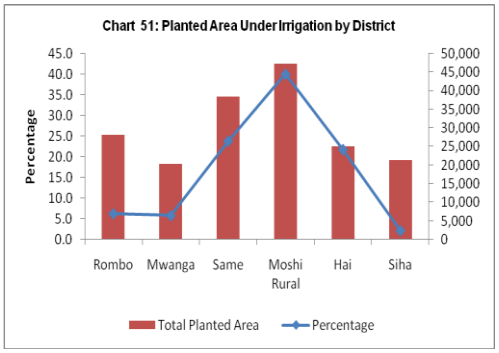
The planted area applied with herbicides was 17,484 ha which represented 26 percent of the totalplanted area annual crops and vegetables. The largest area of annual crops planted and applied with herbicides was Siha district (6,444 ha, 36.8 % of the area of annual crops planted with herbicides in the region). This was followed by Moshi Rural 4,149ha, 23.7%), Hai (3,393 ha, 18%), Rombo (1,423 ha, 8.1%), Same1,089ha,6.2%). Mwanga had the smallest area of annual crops plantedwith herbicde in the region (987ha, 5.6%) (Chart 3.50).

3.6 Irrigation

Water was the limiting factor to crop production in the majority of areas in Tanzania and without water most other agricultural practices applied to crops will not have any 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 (Chart 3.51).

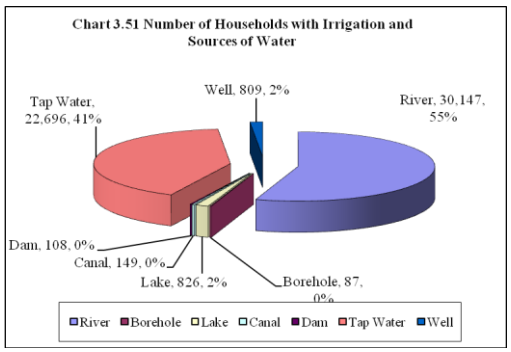
3.6.1 Area Planted with Annual Crops Under Irrigation

In region, the area of annual crops under irrigation was 36,607 ha representing 20 percent of the total area planted (Chart 3.51). The district with the largest planted area under irrigation for annual crops was Moshi Rural (14,652 ha, 40% of the total irrigated planted area with annual crops in the region). This was followed by Same with (8,731 ha, 23.9%), Hai (7,984 ha, 21.8%), Rombo (2,305 ha, 6.3%) and Mwanga (2,128 ha, 6%). Siha had the smallest area planted using iggation at 806 (2.2%).



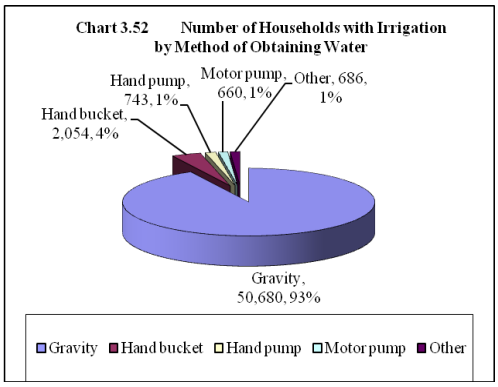
3.6.2 Sources of Water Used for Irrigation

The main source of water used for irrigation was Rivers at 30147 hh, representing 55 percent of households with irrigation. This was folowed by Tap Water (22,696 households, representing 41%). Lakes and Wells were the third most important sources of irrigated water used by 826 and 809 houeseholds respectively representing 2 percent of households using water for irrigation in each source. The other sources were less important contributing only less than 1 percent of the total households using water for irrigation (Chart 3.51).



3.6.3 Methods of Obtaining Water for Irrigation

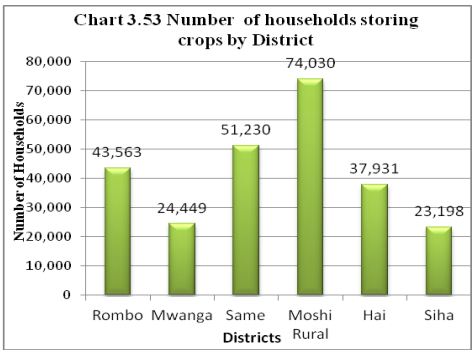
The hand gravity was the most common method of getting water for irrigation with 50,680 households or 93 percent of households using this method in obtaining water. This was followed by hand bucket with 4 percent of households. The remaining methods (hand pump, motor pump and others) had 1 percent each (Chart 3.52).



Gravity was the most comonly used method of obatining water for irrigation in Moshi Rural (32% of the households practicing irrigation), followed by Hai (30.2%), and Same (22.2%). The method was least practised in other districts by less than 5 percent.

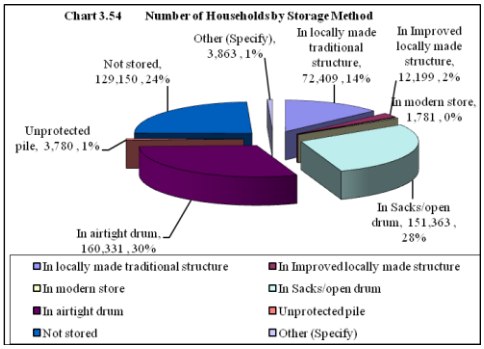
3.7 Crop Storage, Processing and Marketing

3.7.1 Crop Storage



Crop storage means keeping a crop for a certain period of time as food for the household, in order to sell at higher prices or use the crop as seeds for planting in the following season. The results for region show that there were 254,401 crop growing households that stored various agricultural products in the region. Moshi Rural had the highest number of households that stored crops (74,030 households, 29 percent of the crop growing households storing crops). This was followed by Same (51,230 hh, 20%), Rombo and Hai (43,563 hh, 17% and 37,931households, 15 % resepectively). Siha had the smallest number of households storing crops (23,198 households, 9%), folllowed by Mwanga 24,449hh, 10%) (Table 3.10, Chart 3.53)

3.7.1.1 Methods of Storage

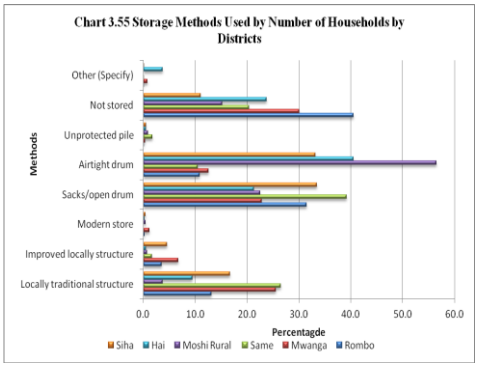


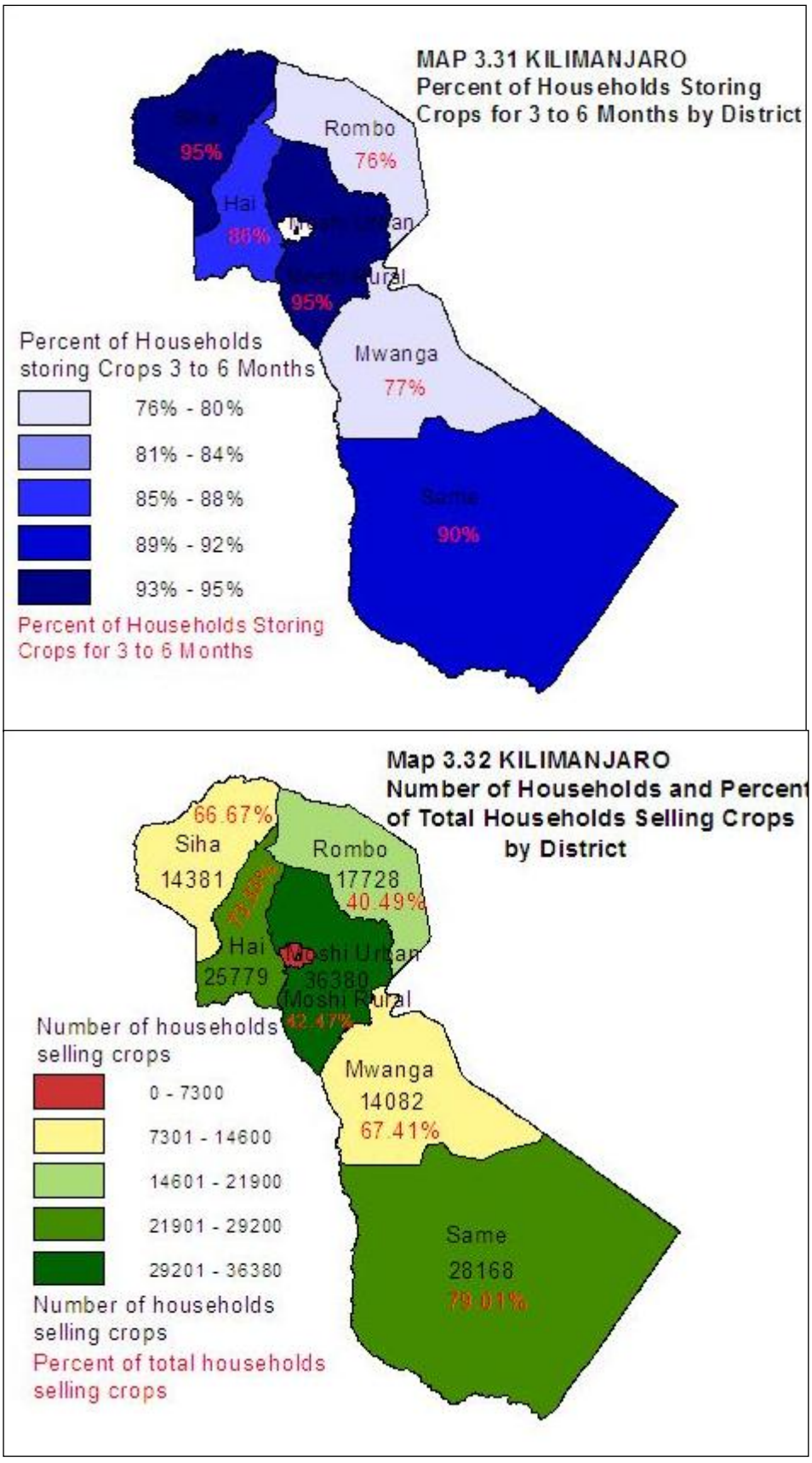
In terms of methods of crop storage the region had highest number of crop growing households storing their produce in airtight drum (160,331households, 30% of the households that stored crops in the region). Sacks /open drum was the second most widely used method applied by 151,363 hhouseholds, that is 28 percent of the households that stored crops in the region. The number of households that stored their produce in locally made traditional crib was 72,409 (14%). This was followed by improved locally made structure (12,199 hh, 2 %),, other types of storage include unprotected pile (3,780 hh, 1%), modern store (1,781hh, 0%). Estimated 129,150 households (24% of crop growing households) were reported as not using any storage methods (Chart 3.54).

Airtight Drums were the dominant storage methods in the region, with Moshi Rural having the highest percent of households using this method (20.6 % of the total number of households storing

crop products). This is followed by Hai (9%), Rombo and Siha (% each), Same and Mwanga with 2.5 and 2.4 percent respectively.

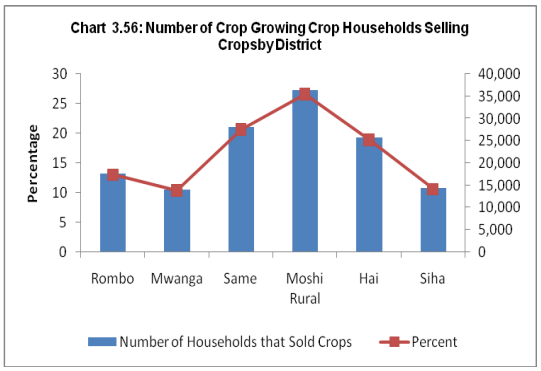
The method was least used in Hai (21.4%) (Chart 3.57). The second widely used method was sacks and open drum with Rombo having the highest percentage of households using it (10%), followed by Same district (9%) and Hai (5%) of the total households using storage methods. Local traditional method was the third most widely applied storage method used by the highest percentage of households in Same and Rombo districts (6 and 4 percents respectively of the total number of households storing crops. (Chart 3.55)




MAP 3.31 KILIMANJARO
Percent of Households Storing
Crops for 3 to 6 Months by District
Rombo
76%
Hai
86%
95%
Mwanga
77%
90%
Percent of Households
storing Crops 3 to 6 Months
76% - 80%
81% - 84%
85% - 88%
89% - 92%
93% - 95%
Percent of Households Storing
Crops for 3 to 6 Months
Map 3.32 KILIMANJARO
Number of Households and Percent
of Total Households Selling Crops
by District
66.67%
Siha
14381
Rombo
17728
40.49%
Hai
25779
Mwanga
14082
67.41%
Same
28168
79.01%
Number of households
selling crops
0 - 7300
7301 - 14600
14601 - 21900
21901 - 29200
29201 - 36380
Number of households
selling crops
Percent of total households
selling crops

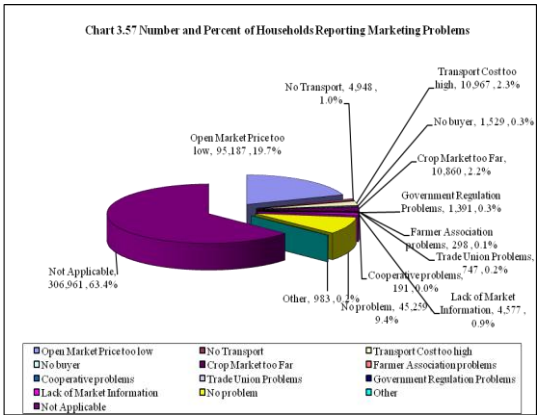
3.7.3 Crop Marketing

The number of households that reported selling crops was 136,518 which represent 57 percent of the total number of crop growing households. The percentage of crop growing households selling crops was highest in Moshi Rural (27%) followed by Same (21%), Hai (19%), Rombo (13%) and Mwanga (10%) (Chart 3.56 and 3.36).



3.7.3.1 Main Marketing Problems

Most households (11,255 20) reported low price for agricultural produce in the open market as the main marketing problem. Apart from low market prices, other problems reported include transport cost being too high (1,188 households), long distances to the markets (188 households) and lack of transport (63 households). Other marketing problems are minor and represented less than 1 percent of the total reported problems (Chart 3.57). The problem of low market prices in the open market ranked highly across all the districts in the region. High transport cost ranked highly in Moshi Rural followed by Hai Districts. While long distances to the market was a notorious marketing problem in Moshi Rural, followed by Same and Hai Districts



3.8 Access to Crop Production Services

3.8.1 Access to Agricultural Credit

The census result shows that in region very few agricultural households (3,788, 1. 6%) accessed credit out of the total number of agricultural households receiving agricultural credit in the region. Out of these Siha District had the highest number of households receiving credit (1,188 house,31.4), followed by Rombo (973 households 26%). Moshi Rural was the third district with the highest number of agricultural housholds receving credits

Table 3.12 Number and Percentage Distribution of Households Receiving Credits

District	Number of Households	Percentage
Rombo	973	26
Mwanga	258	7
Same	176	5
Moshi Rural	846	22
Hai	347	9

(846hh, 22.3 %). The remaining districts had very small numbers of household receiving credits of less than 10 percent of the total agricultural households receiving credits (Table 3.12).

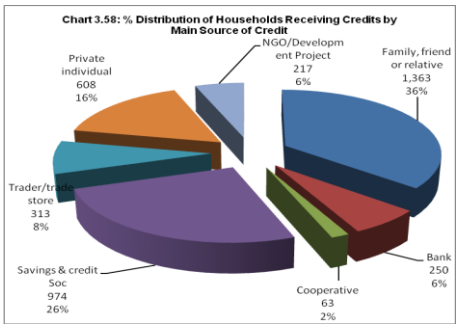
Out of the households receiving agricultural credits 2,791 (73.7%) were male-headed households and 997 (26.3%) were female headed households. In all the districts there were more male than female households heads receiving agricultural credits. Siha had the highest number of female household heads receiving agricultural credits (313 households, 26.3%) followed by Moshi Rural (212 (25%) (Table 3.13). In Same and Hai districts both male and female headed households had equal access to agricultural credit.

Table 3.13 Number and Percentage of credits given to households heards by sex and District

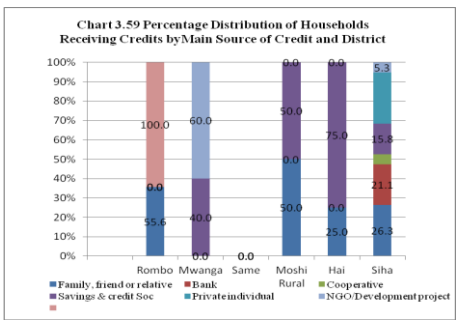
	Credit given to (7.1.1b)					
	Male		Female		Total	
District	Number	%	Number	%	Number	%
Rombo	865	88.9	108	11.1	973	100.0
Mwanga	155	60.0	103	40.0	258	100.0
Same	88	50.0	88	50.0	176	100.0
Moshi Rural	635	75.0	212	25.0	846	100.0
Hai	174	50.0	174	50.0	347	100.0
Siha	875	73.7	313	26.3	1,188	100.0
Total	2,791	73.7	997	26.3	3,788	100.0

3.8.1.1 Source of Agricultural Credit

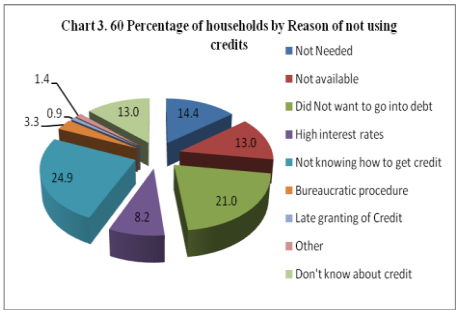
The major agricultural credit providers in region were family, friends and relatives (36%), Saving and Credit Society (26%), Private Individual (16%), Religious Organizations/Non Governmental Organizations/ projects (38%), trader/trade store (8%), NGO/Development Project and commercial bank (6% for both) and cooperatives (2% of the total number of households that accessed credit) (Chart 3.58).



Commercial banks, Cooperatives and Trader/trade store were the sole source of credit in Siha district only, while NGO/Development project were a source of credit in Mwanga and Siha. Family and friends/relative were a source in all the districts except Mwanga and Same; likewise Savings and Credit Societies were a source in all the districts except Rombo and Same (Chart 3.59).

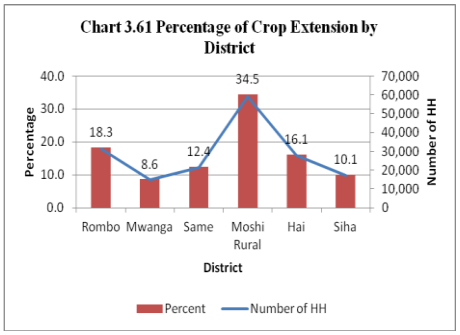


3.8.1.2 Reasons for Not Using Agricultural Credit



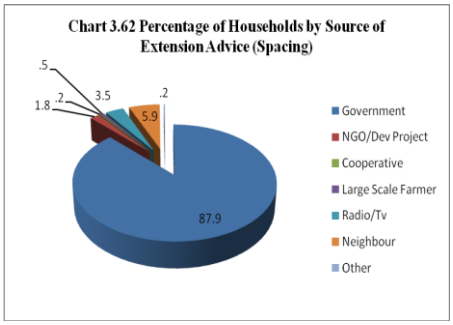
The main reason for not using agricultural credit as a source of finance was little credit awareness accounting to 24.9 percent of the agricultural households ("did not know how to get credit"). This was followed by "not wanting to go into debt" (21%), households reporting the credit not needed (14.4%), households reporting un-availability of credit and don't know about credit accounted for 13 percent in each case. Households reporting interest rate too high (8.2%), bureaucratic procedures (3.3%) . The rest of the reasons were collectively accounted for 2. percent of the households, and these were late granting of credit and other reasons (Chart 3.60).

3.8.2 Crop Extension

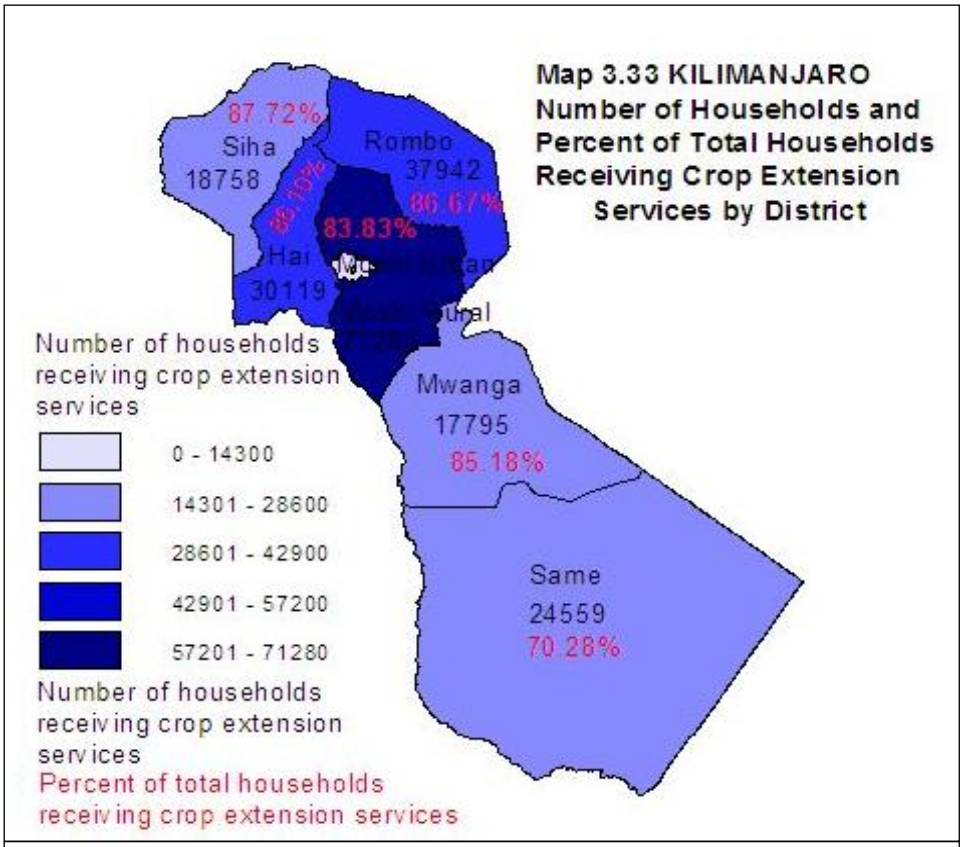


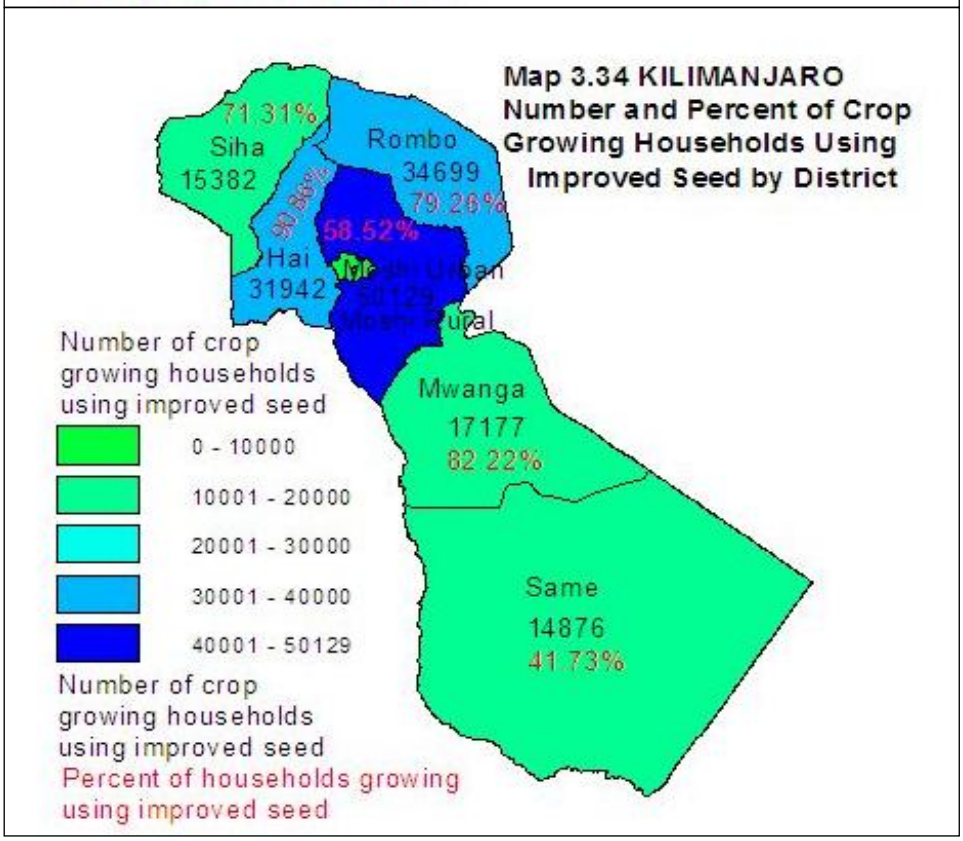
The number of Agricultural households that received crop extension was 200,454 (83 % of total crop growing households in the region) (Chart 3.61). Some districts have more access to extension services than others, with Moshi Rural district having a relatively high proportion of households (36%) that received crop extension messages followed by Rombo (19%), Hai (15%), Same (12.4%), Siha (9), and Mwanga (9%).(Chart 3.61 and 3.37). Number of Agricultural households participated in Out Grower Agreement and Contract Grower was 13,665 (5.6%) and 6,523 (2.7%) of total agricultural households in the region respectively.

3.8.2.1 Sources of Crop Extension Messages



The Government provided the greatest proportion (92.3%) of extension advice to agricultural households receiving extension advice . Radio/Tv (22.9%) was the second largest extension adivice provider (21.8%), followed byNeighbour 21.8%, NGO/Development project (9%), and large scale farmer providing (4.8%). The remaing sources were minor and provided extesnion advice to less than 5 percent of agricultural households receinving extsnion advice; these were cooperative and other with 4.7 and 2.8 percent Respectively (Chart 3.62, 3.37) Extension advice on spacing had the largest number of households (171,909, 70.8%), followed by use of improved seed (66.6%), use of organic fertilizer (63.6%), Agrochemical use (63.1), use of inorganic fertilizer (57.9%), erosion control (49.5), Crop strorage technology (48.8) and smallest number was on irrigation technology (34.2%) of the total agricultural households in the region.

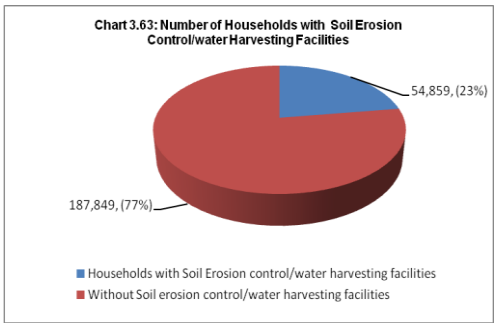

Map 3.33 KILIMANJARO
Number of Households and
Percent of Total Households
Receiving Crop Extension
Services by District
87.72%
Siha
18758
Rombo
37942
86.67%
86.10%
83.83%
Hai
30119
Mwanga
17795
85.18%
Same
24559
70.28%
Number of households
receiving crop extension
services
0 - 14300
14301 - 28600
28601 - 42900
42901 - 57200
57201 - 71280
Number of households
receiving crop extension
services
Percent of total households
receiving crop extension services


Map 3.34 KILIMANJARO
Number and Percent of Crop
Growing Households Using
Improved Seed by District
71.31%
Siha
15382
Rombo
34699
79.26%
90.86%
58.52%
Hai
31942
Mwanga
17177
82.22%
Same
14876
41.73%
Number of crop
growing households
using improved seed
0 - 10000
10001 - 20000
20001 - 30000
30001 - 40000
40001 - 50129
Number of crop
growing households
using improved seed
Percent of households growing
using improved seed

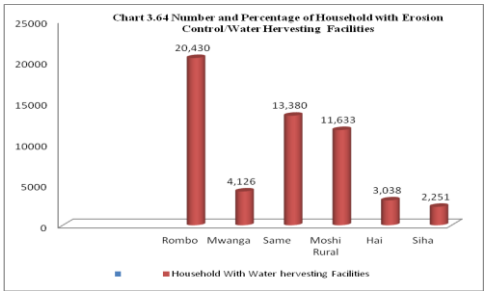
3.10 Irrigation and Erosion Control Facilities

Erosion control and water harvesting facilities are grouped together as they normally have dual purposes of reducing erosion and increasing the amount of water available for crop production.

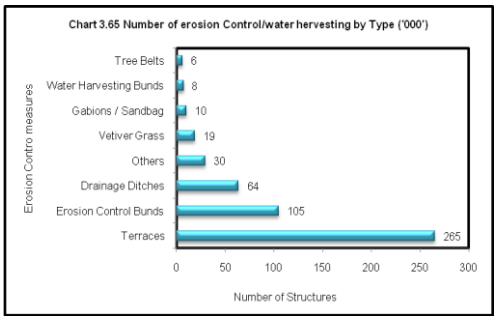
The number of agricultural households that had soil erosion and water harvesting facilities on their farms was 54,859 which represent 23 percent of the total number of agricultural households in the region. On the other hand those without erosion control and water harvesting facilities were 187,849 accounting for 77.4 percent of agricultural households in the region. This percent was more than three times of agricultural households with the facilities, which increases the chances of high water wastage (Chart 3.63)



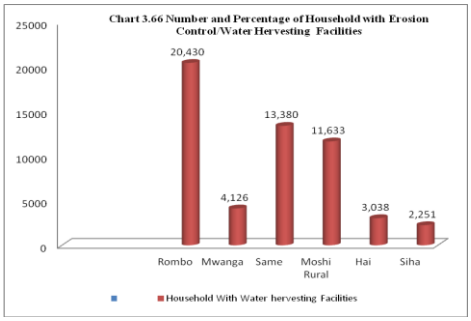
The proportion of households with soil erosion control and water harvesting facilities was highest in Rombo district (47%) followed by Same (38%), Mwanga (20%), Moshi Rural (14%) Siha (10.4%), and Rombo Hai (8%). (Chart 3.64).

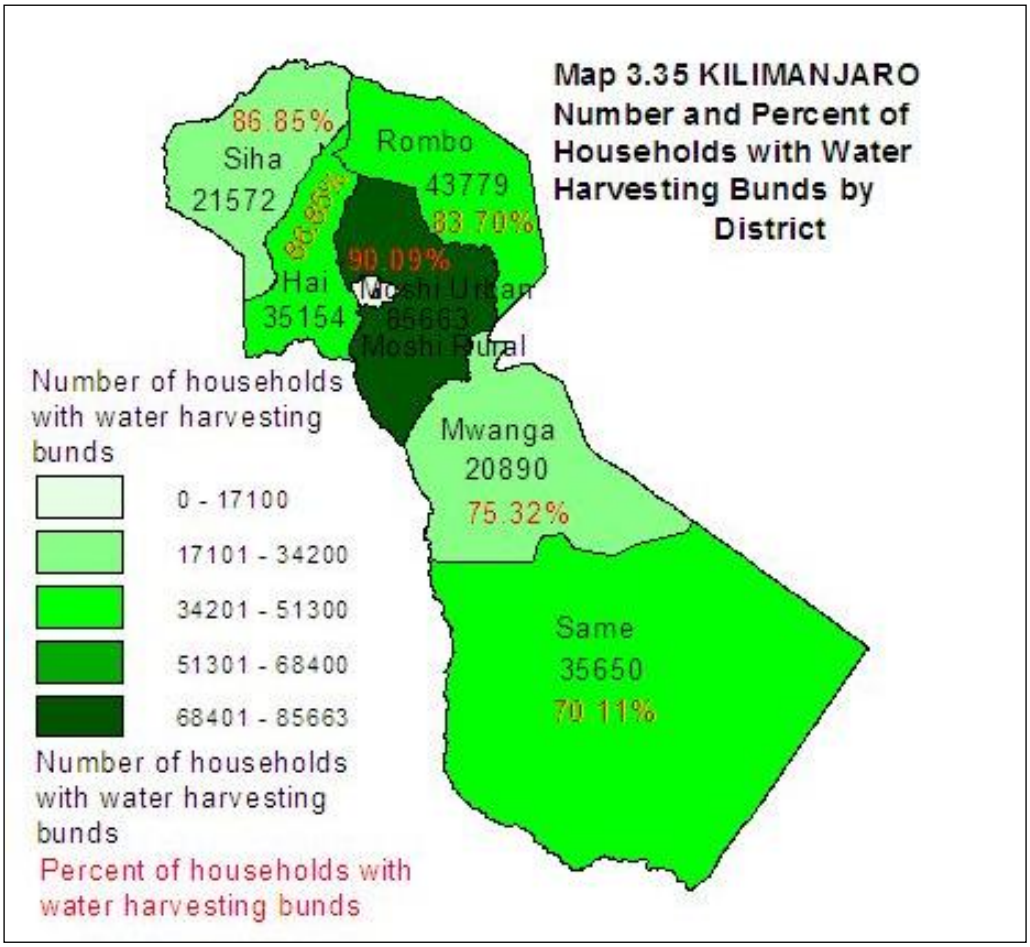


Terraces accounted for 52.3 percent of the total number of structures, followed by Erosion control bunds (20.8%), drainage ditches (12.6%), vetiver grass (3.7%), Gabions/Sandbags (2%), Water harvesting bunds (1.5%), and tree belts (1.3%) (Chart 3.65 and 3.36). Other water harvesting facilities accounted for 6 percent of the total number of structures.



Erosion control bunds, terraces and water harvesting bunds together had 550,578 structures. This represented 85 percent of the total structures in the region. The remaining 15 percentages were shared among the rest of the erosion control methods mentioned above. Same and Rombo districts had 430,472 erosion control structures (66 percent of the total erosion structures in the region) (Chart 3.66).



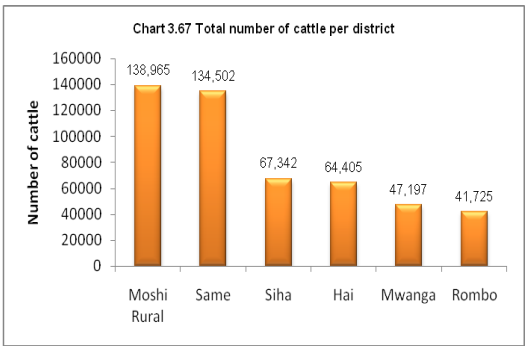

Map 3.35 KILIMANJARO
Number and Percent of Households with Water Harvesting Bunds by District
86.85%
Siha
21572
Rombo
43779
83.70%
90.09%
Hai
35154
Moshi Rural
Mwanga
20890
75.32%
Same
35650
70.11%
Number of households with water harvesting bunds
0 - 17100
17101 - 34200
34201 - 51300
51301 - 68400
68401 - 85663
Number of households with water harvesting bunds
Percent of households with water harvesting bunds

3.12 Livestock Results

3.12.1 Cattle Production

Cattle were the dominant livestock type in the region followed by goats, sheep and pigs. The total number of cattle in the region was 494,135, representing 2. 3 percent of the total cattle population on Tanzania Mainland.

3.12.1.1 Cattle Population



The number of indigenous cattle in region was 321,171 (65 % of the total number of cattle in the region. The census results show that there were 73,788 of indigenous cattle rearing households in the region (51 % of the total households keeping cattle), This was equivalent to an average of 4 heads of cattle per cattle keeping-household. The district with the largest number of cattle was Moshi Rural District (138,965 cattle, 28% of the total cattle in the region). This was followed by Same (27.2%), Siha (13.6%), Hai (13%), Mwanga (9.6% and Rombo (8.4%) (Chart 3.67 and s 3.41, 3.42).

3.12.1.2 Herd Size

Ninty two percent of the cattle-rearing households had herds of size 1-5 cattle with an average of two cattle per household. Herd sizes of 6-30 accounted for about 8 percent of all cattle in the region. Those with the herd size of 31-40 accounteds for 0.2 percent, herds of size 41-50 constitute about 0.3 percent with an average number of 47 cattle per household. The remaing range of herd sizes above 50 accounted for 0.1 percent of cattle rearing households at each herd size interval, with an average number of cattle per household ranging from 59 to 211. (Table 3.14).

Table 3.14 Number of Households Rearing Cattle, Number of Cattle and Average Number of Cattle per Household by Herd size During the 2007/08 Agricultural Year

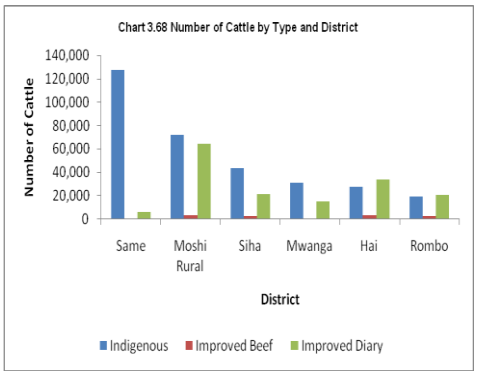
Herd Size	Cattle Rearing Households	%	Head of Cattle	Average Number of Cattle Per Household
1 - 5	133,363	91.6	287,336	2
6 - 10	7,047	4.8	51,866	7
11 - 15	1,773	1.2	22,356	13
16 - 20	1,627	1.1	28,567	18
21 - 30	697	0.5	17,360	25
31 - 40	239	0.2	8,288	35
41 - 50	441	0.3	20,706	47
51 - 60	88	0.1	5,193	59
61 -100	176	0.1	15,404	88
151+	176	0.1	37,058	211
Total	145,628	100	494,135	3

3.12.1.3 Cattle Population Trend

Cattle population in region decreased during the period of five years from 494,555 cattle in 2003 to 494,135 cattle in 2008. This trend depicts an overall annual negative growth rate of 0.2 percent. Same had the highest density of 52 cattle per square km.

3.12.1.4 Cattle Breeds

Improved cattle was 172,964 which constitute 35% of total cattle in region, out of which 10,980 was for beef breed and 161,984 was for diary breed. The diary cattle constituted 94 percent and the beef cattle 6 percent of the improved cattle in the region. The number of improved cattle increased from 143,364 in 2003 to 172,964 in 2007/08 at an annual growth rate of 3.8 percent Indigenous cattle wwas 321,171 which was 65% of total cattle in the region (Chart 3.68).

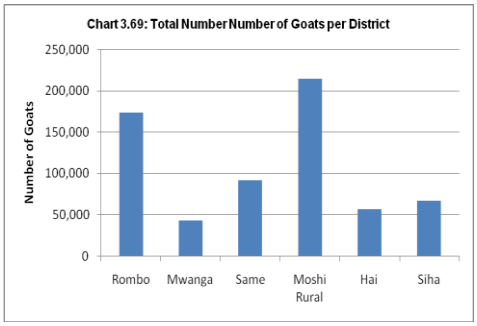


3.12.2. Goat Production

Goat rearing was the second most important livestock keeping activity in the region followed by sheep and pig rearing. In terms of total number of goats on the Mainland, region ranked 11th out of the 21 regions with 4 percent of the total goats on the Mainland.

3.12.2.1 Goat Population

Goat-rearing-households in region was 112,088 (60 ? percent of all livestock keeping households in the region) with a total of 644,344 goats giving an average of 6 head of goats per goat-rearing-household. Moshi Rural had the largest number of goats (33.2% of all goats in the region), followed by Rombo (26.8%), Same (14.2%) , Siha (10.4%), Hai (8.7%) and Mwanga (6.6%) of total goat population in the region. (Chart 3.69 and 3.43, 3.44).



3.12.2.2 Goat Flock Size

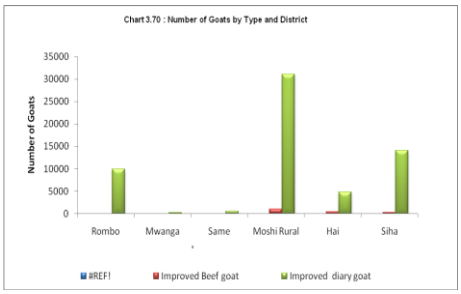
Fifty eight percent of the goat-rearing households had flock size of 1-4 goats with an average of 3 goats per goat rearing household. Ninety four percent of total goat-rearing households had flock size of 1-14 goats and owned 72 percent of the total goats in the region resulting in an average of 4

goats per goat-rearing households. Flock size ranging from 15-40+ was only three percent of goat rearing household(Table 3.15)

Table 3.15: Number of Households rearing Goat, Head of Goat and Average Head per Household by Herd size During the 2007/08 Agricultural Year

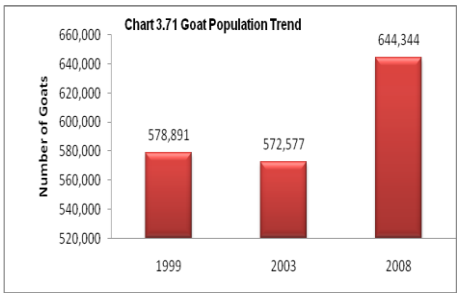
Herd Size	Goat Rearing Households		Herd of Goat	Average Number of Goats Per Household
	Number	%		
1 - 4	64,965	58	170,619	3
5 - 9	33,861	30	209,785	6
10 - 14	7,256	6	83,104	11
15 - 19	1,921	2	30,742	16
20 - 24	1,811	2	37,009	20
30 - 39	440 541	0 0	11,256 16,606	26 31
40+	1,292	1	85,213	66
Total	112,088	100	644,334	3

3.12.2.3 Goat Breeds



The region was dominated by the indigenous breeds that constituted 90.3 percent of the total goats in region (644,334 goats). Improved goats for beef and diary constituted of 0.3 and 9.4 percent of total goats respectively. Census results indicated that Moshi Rural is the leading district with 1,056 and 31,093 improved goat for beef and diary repectively. Same, Mwanga and Rombo districts reported no improved beef goat.

3.12.2.4 Goat Population Trend

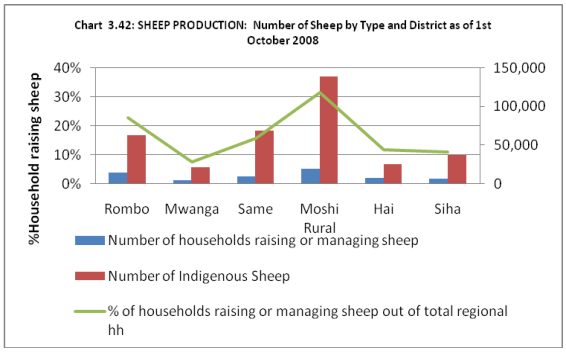


Goat pupulation growth was decreased by -2.27 percent from 578,891 in 1999 to 572,577 in year 2003.The overall annual growth rate of goat population from2003 to 2008 was 2.4 percent. This positive trend implies five years of population increase from 572,577 in 2003 to 644,334 in 2008. The number of goats increased from 572,577 in 2003 at an estimated annual rate of 0.02 percent to 644,344 in 2008 (Chart 3.71). Rombo district had the highest density of goats 1474 flocks per square km.

3.12.3. Sheep Production

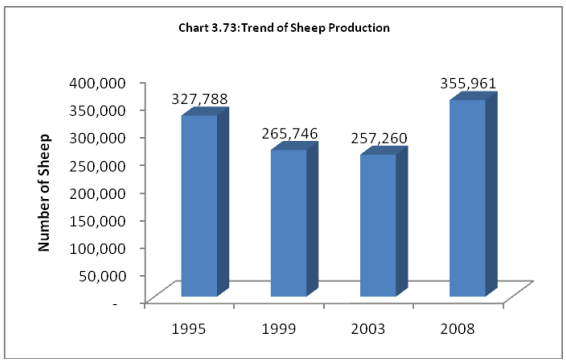
Sheep rearing was the third important livestock keeping activity in region after cattle and goats. The region ranked 6 out of 21 Mainland regions and had 6.2 percent of all sheep on Tanzania Mainland.

3.12.3.1 Sheep Population

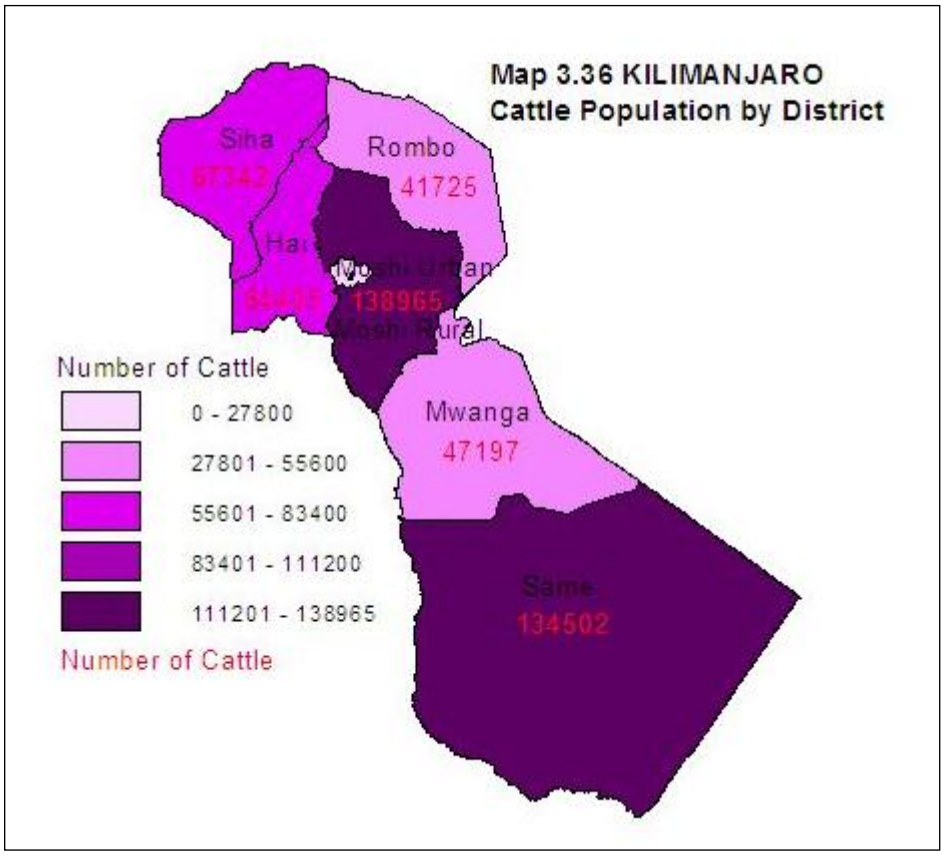


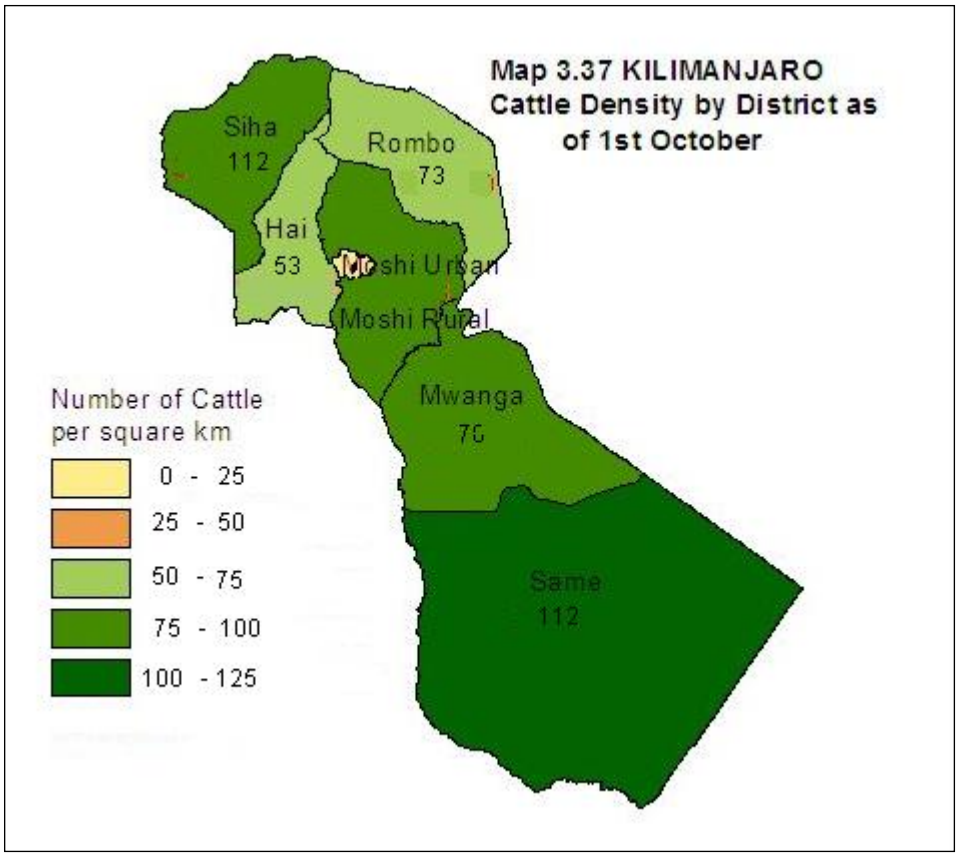
The number of sheep-rearing households was 63,608 (26% of all agricultural households in region) rearing 355,961 sheep, giving an average of 6 heads of sheep per sheep-rearing household. The district with the largest number of sheep was Moshi Rural with 138,965 sheep (39% of total sheep in region), followed by Same (69,099 sheep, 19.4%), Rombo (63,236 sheep, 17.8%), Siha (37,579 sheep, 10.6 %), Hai (25,779 sheep, 7.2 %) and Mwanga (21,303 sheep, 6%) (Chart 3.72, s 3.45, 3.46).

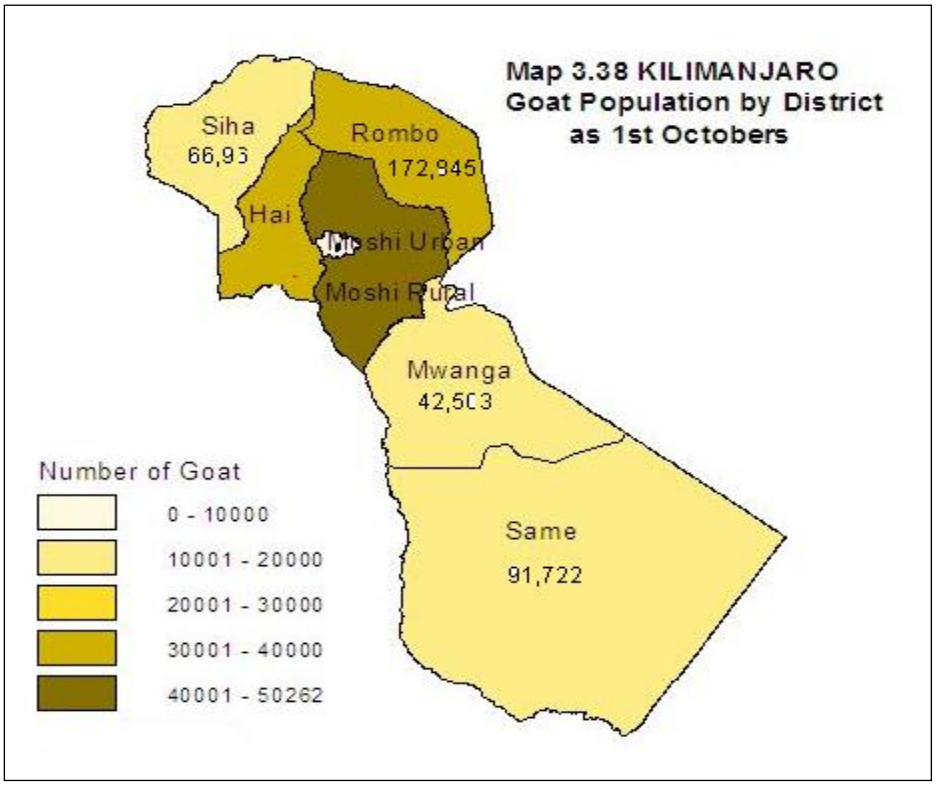
3.12.3.2 Sheep Population Trend

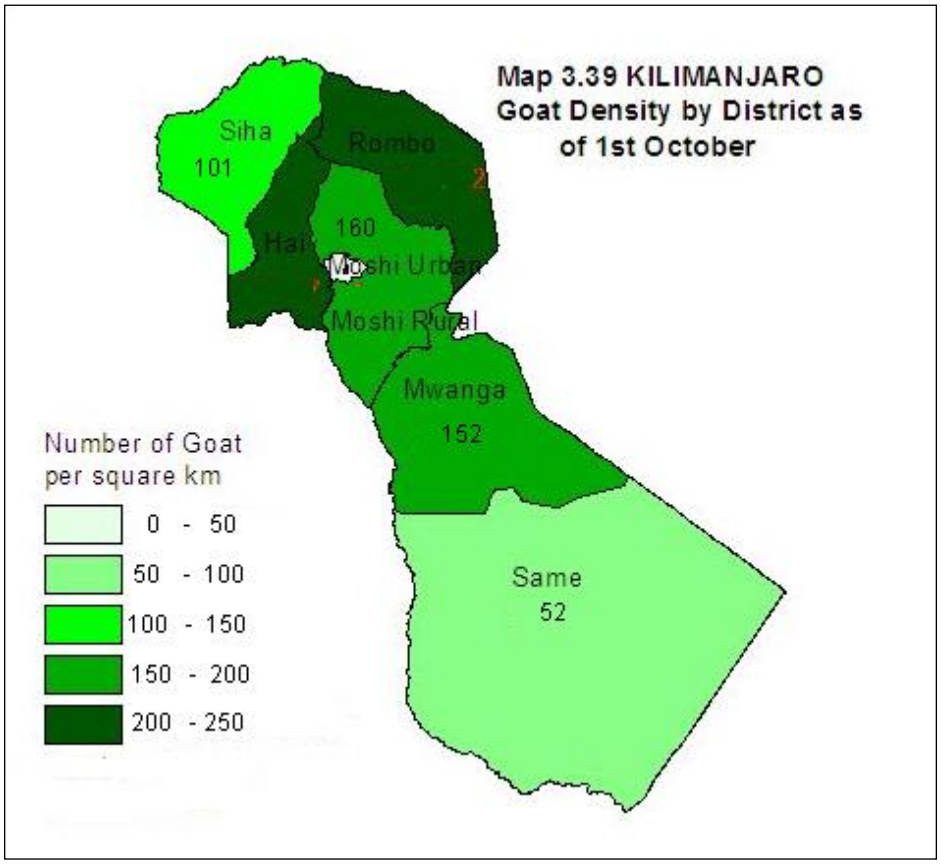


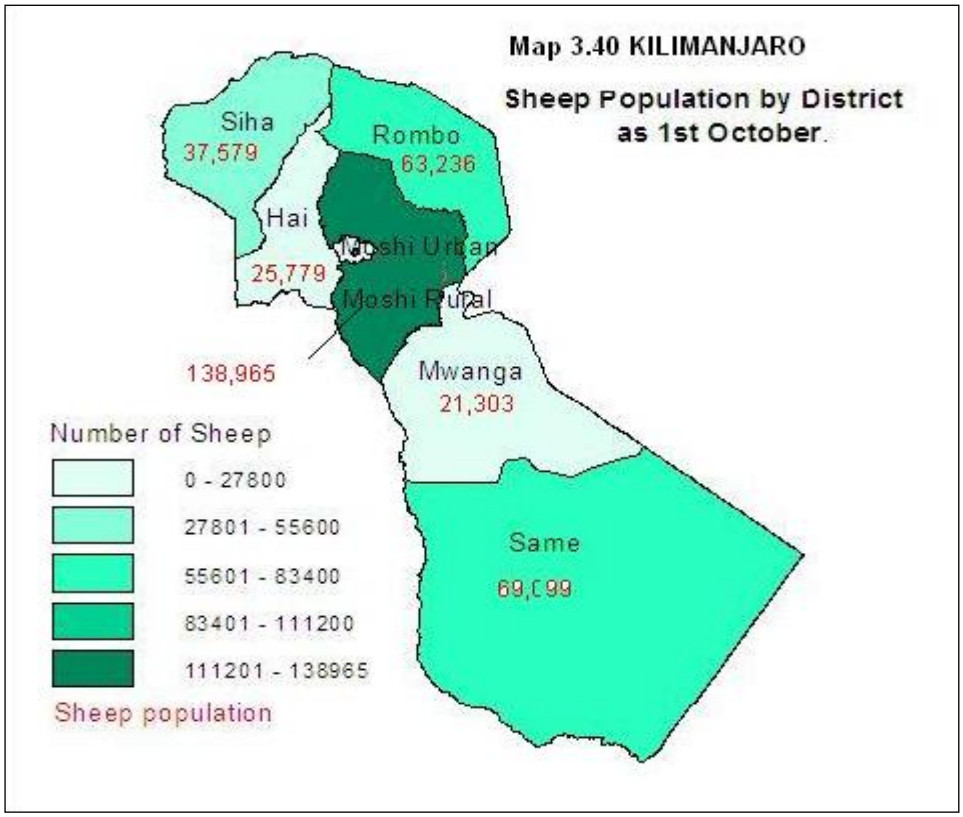
The overall annual growth rate of the sheep population for 5 year period from 2003 to 2008 was estimated at 8 percent. The population increased from 257,260 sheep in 2003 to 355,961 sheep in 2008. Sheep population decreased at an annual rate of -5 from 327,788 in 1995 to 265,746 in 1999. As for density Moshi Rural had the highest of sheep with 249 flocks per square km (Chart 3.73).

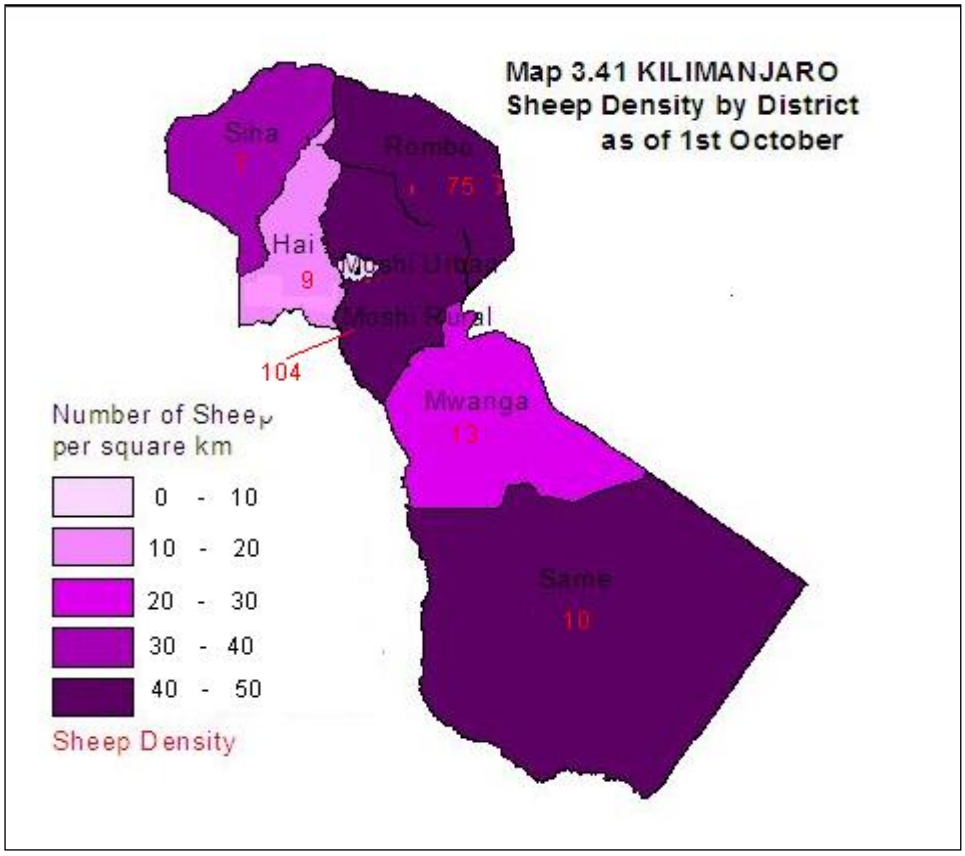

Map 3.36 KILIMANJARO
Cattle Population by District
Siha
Rombo
41725
Hai
Moshi Urban
138965
Moshi Rural
Mwanga
47197
Same
134502
Number of Cattle
0 - 27800
27801 - 55600
55601 - 83400
83401 - 111200
111201 - 138965
Number of Cattle


Map 3.37 KILIMANJARO
Cattle Density by District as
of 1st October
Siha
112
Rombo
73
Hai
53
Moshi Urban
Moshi Rural
Mwanga
70
Same
112
Number of Cattle
per square km
0 - 25
25 - 50
50 - 75
75 - 100
100 - 125

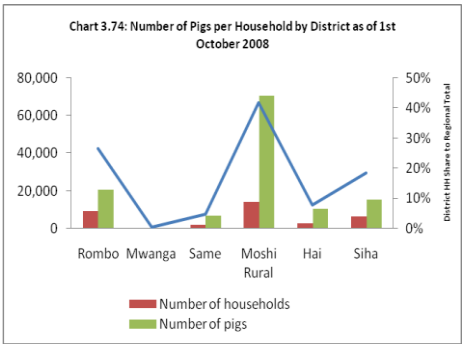

Map 3.38 KILIMANJARO
Goat Population by District
as 1st Octobers
Siha
66,93
Rombo
172,945
Hai
Moshi Urban
Moshi Rural
Mwanga
42,503
Same
91,722
Number of Goat
0 - 10000
10001 - 20000
20001 - 30000
30001 - 40000
40001 - 50262


Map 3.39 KILIMANJARO
Goat Density by District as
of 1st October
Siha
101
Rombo
160
Hai
Moshi Urban
Moshi Rural
Mwanga
152
Same
52
Number of Goat
per square km
0 - 50
50 - 100
100 - 150
150 - 200
200 - 250


Map 3.40 KILIMANJARO
Sheep Population by District
as 1st October.
Siha
37,579
Rombo
63,236
Hai
25,779
Moshi Rural
138,965
Mwanga
21,303
Same
69,099
Number of Sheep
0 - 27800
27801 - 55600
55601 - 83400
83401 - 111200
111201 - 138965
Sheep population

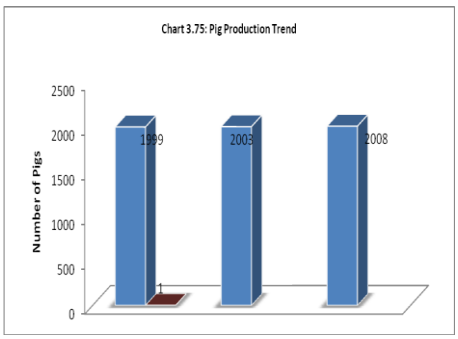

Map 3.41 KILIMANJARO
Sheep Density by District
as of 1st October
Siha
Hai
9
104
Mwanga
13
Same
10
Number of Sheep
per square km
0 - 10
10 - 20
20 - 30
30 - 40
40 - 50
Sheep Density

3.12.4. Pig Production

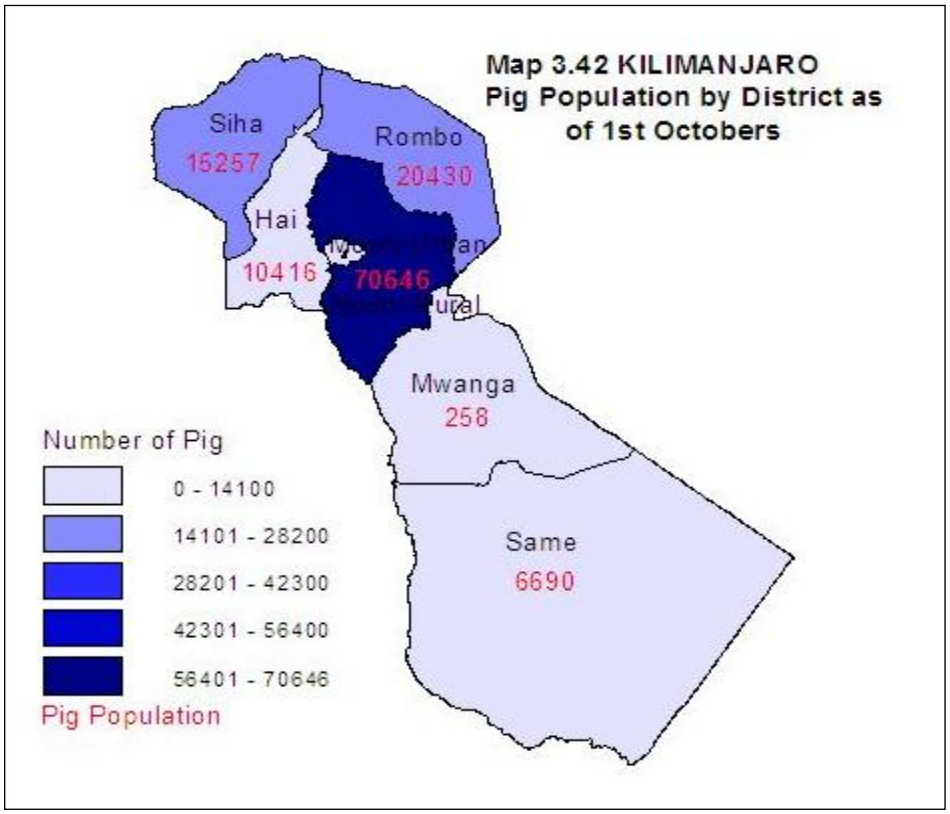


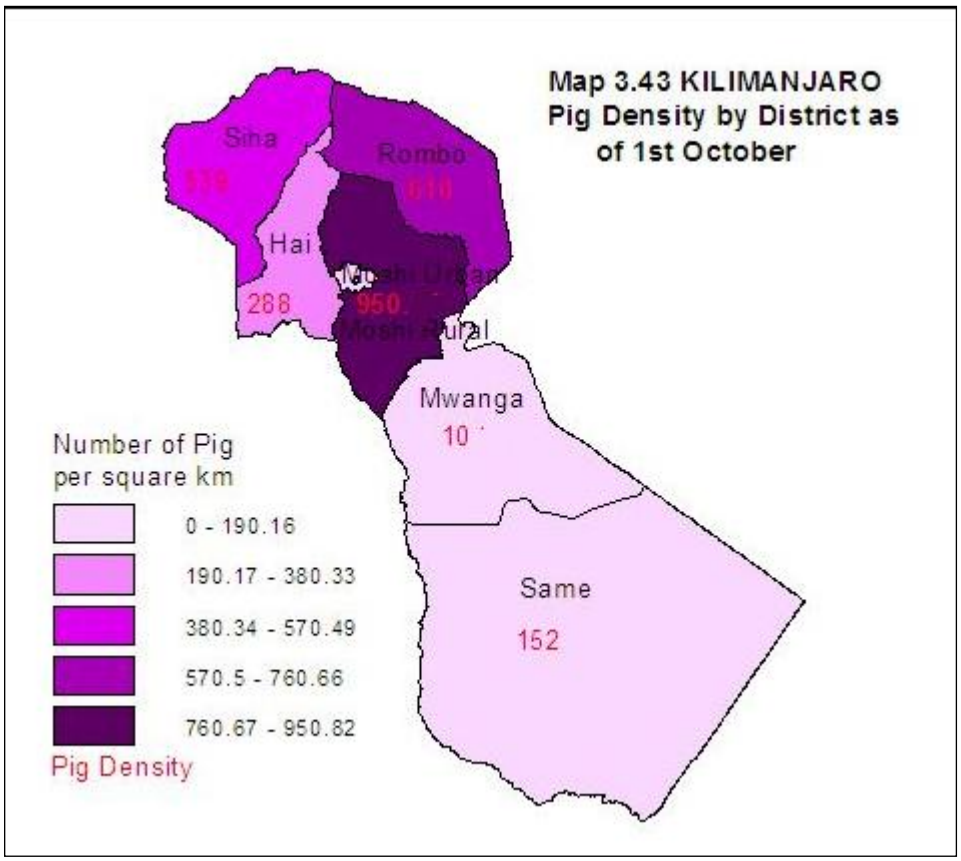
Pig production in the region ranks 4th out of 21 Mainland regions and has 8 percent of the Mainland total pigs. The number of pig-rearing agricultural households in region was 33826 (14% of the total agricultural households in the region) rearing 123,696 pigs. This gives an average of 4 pigs per pig-rearing household. The district with the largest number of pigs was Moshi Rural with 70,646 pigs (57.1% of the total pig population in the region) followed by Rombo (20,430 pigs, 17%), Siha (15,257 pigs, 12.3%), Hai (10.416 pigs, 8.4%), Same (6,690 pigs, 5.4%) and Mwanga (258 pig, 0.2%) (Chart 3.74 and 3.47, 2.48).

3.12.4.1 Pig Population Trend



Pig population increased from 51,372 in 1999 to 155,070 in 2003 at a growth rate of 50 percent. The pig population decreased at a growth rate of -4 percent from 155,070 in 2003 to 123,696 in 2008. The highest density of pigs was found in Moshi Rural with 127 flocks per square km (Chart 3.75).

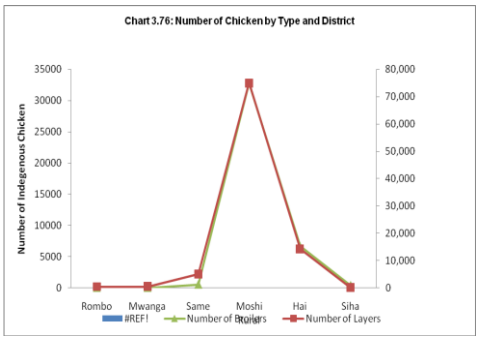

Map 3.42 KILIMANJARO
Pig Population by District as
of 1st Octobers
Siha
15257
Rombo
20430
Hai
10416
70646
Mwanga
258
Same
6690
Number of Pig
0 - 14100
14101 - 28200
28201 - 42300
42301 - 56400
56401 - 70646
Pig Population


Map 3.43 KILIMANJARO
Pig Density by District as
of 1st October
Siha
Rombo
Hai
288
950
Mwanga
Same
152
Number of Pig
per square km
0 - 190.16
190.17 - 380.33
380.34 - 570.49
570.5 - 760.66
760.67 - 950.82
Pig Density

3.12.5 Chicken Production

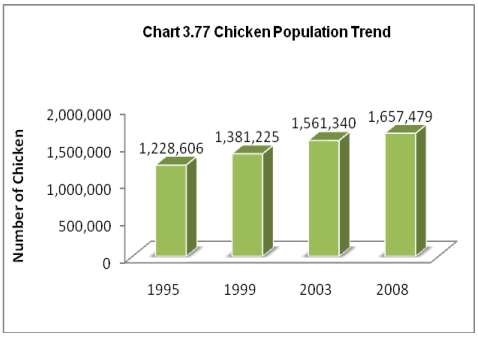
The poultry sub-sector in region was dominated by chicken production. The region contributed 4.0 percent to the total chicken population on Tanzania Mainland.

3.12.5.1 Chicken Population.



The number of households keeping chicken was 182,949 raising about 1,657,479 chickens. This gives an average of 9 chickens per chicken-rearing household. In terms of total number of chickens in the country, Out of the total chicken raised in the region 1,521,980 were indigenous chicken, accounting for 92% and 135,500 were improved chicken accounting for 8%. Moshi Rural had the highest number of chicken raised in the region (617,620 chicken, 37.3), followed by Hai (241,215 chicken, 14.6%), Same (220,502 chicken, 13.3%), Rombo (209,706 chicken, 12.7, and Siha (209,155 chicken, 12.6%). Mwanga reported the smallest number of chicken raised in the region (159,283) accounting only 9.6 percent of all the chicken raised in the region (Chart 3.46, s 2.49, 3.50).

3.12.5.2 Chicken Population Trend



In 1995 Chicken polpulation increased from 1,228,606 to 1,381,225 in 1999 at a growth rate of 3.1 percent.The overall annual chicken population growth rate during the five-year period from 2003 to 2008 was 1.2 percent. The population increased at a rate of 0.01 percent from 1,561,340 in 2003 to 1,657,479 in 2008 Eighty six percent of all chicken in region were of indigenous breed. The dominance of indigenous breed makes the population trend for the indigenous chicken more-or-less the same as that of the total chickens in the region (Chart 3.77).

3.12.5.3 Chicken Flock Size

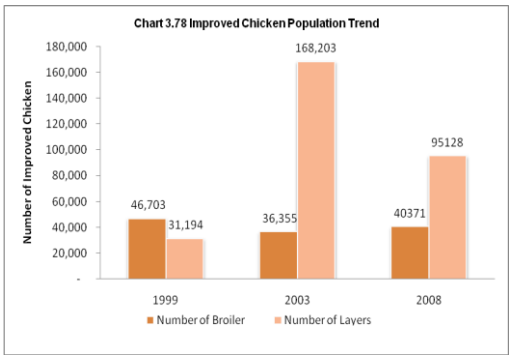
The results indicate that about 99.1 percent of all chicken-rearing households were keeping 1-49 chickens with an average of 8 chickens per holder. About 0.5 percent of holders were reported to be keeping the flock size of 50 to 99 chickens with an average of 54 chickens per holder. Only 0.3 percent of holders kept the flock sizes of more than 100 chickens at an average of 300 chickens per holder (Table 3.16).

Table 3. 16 Number of Households Keeping Chickens and Average Number of Chicken per Household by Flock Size as of 1st October 2008

Flock Size	Number of Households	Number of Chicken	Percent	Number of Chicken Per Household
1-49	181,298	1,491,939	12.2	8
50-99	1,000	54,187	1.8	54
100-299	589	92,595	0.6	157
300-499	63	18,758	0.3	300
Total	182,949	1,657,479	15.0	9

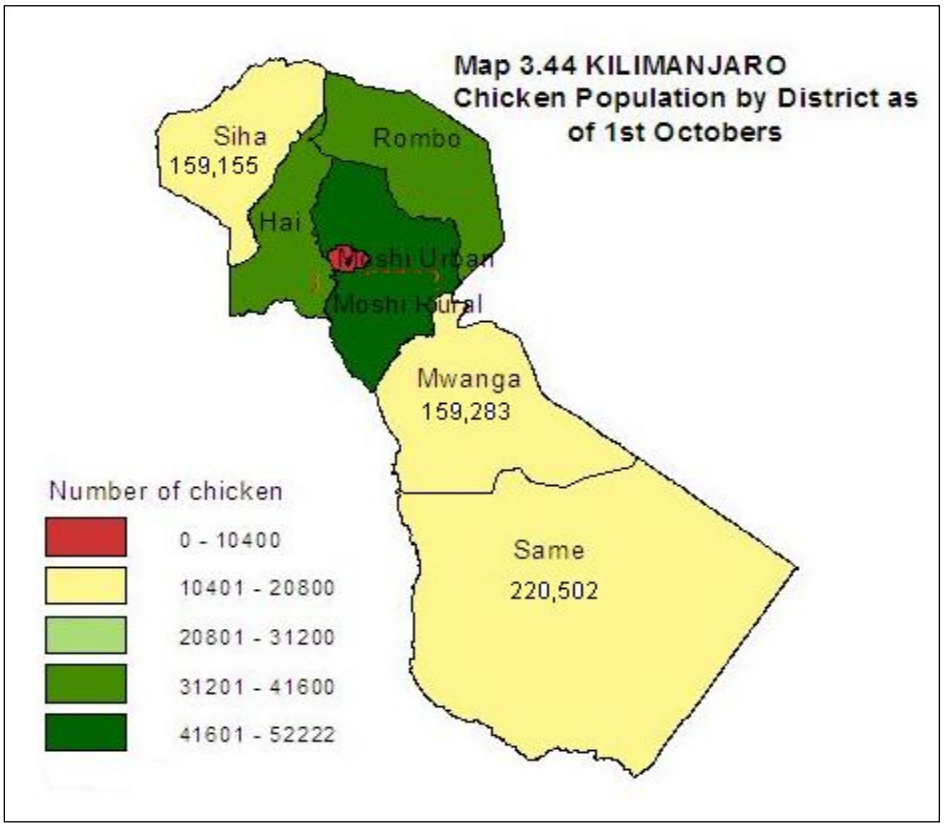
3.12.5.4 Improved Chickens (layers and broilers)

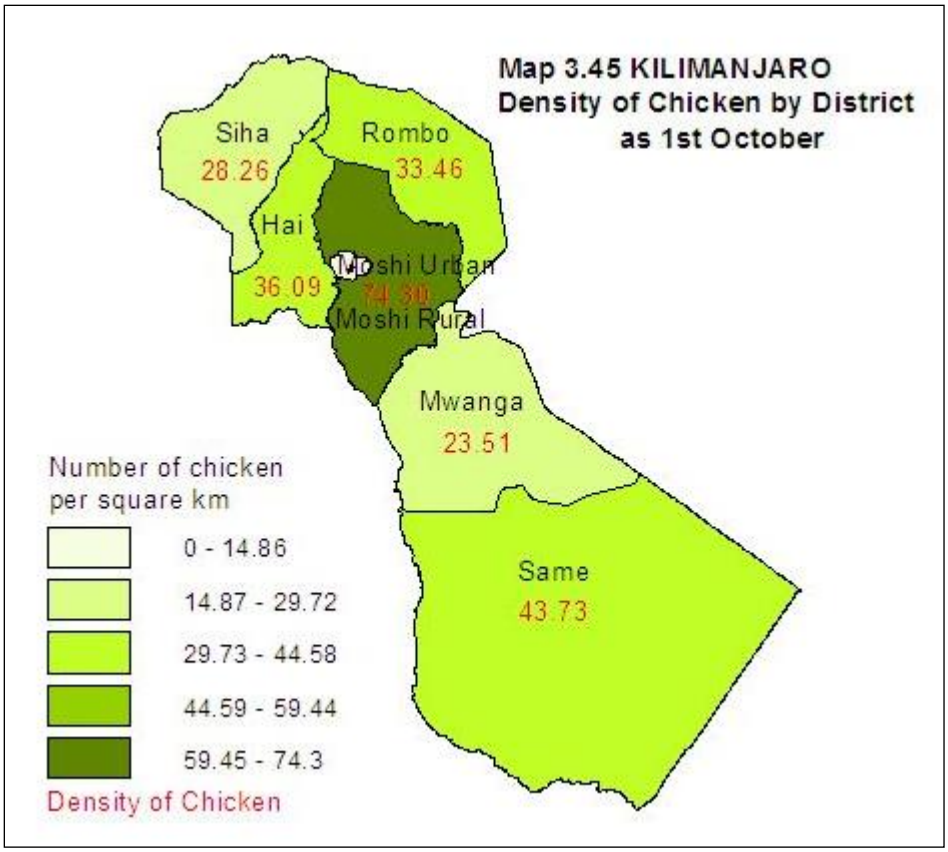
The District with largest number of improved chickens for both layers and broilers was moshi Rural 79.6% of the total number of improved chickens in the region), followed by Hai 15.4%, Same 4.1%, Mwanga 0.3%, Siha 0.3% and Rombo 0.2%. Rombo and Mwanga did report any improved chicken for borilers, and Siha did not report any improved chiken for layers. For the districts with both layers and broilers, layers was the leading type of improved chiken raised by chicken rearing households in these distrcits.



The overall annual Layers chicken population growth rate during the five years from 2003 to 2008 was -10.8percent. The population decreased at a rate of 0.11 percent from 2003 to 2008. (Chart 3.78)

The overall annual broilesr chicken population growth rate during the five 2003 was 2.1 percent. The population increased at a rate of 0.02 percent from 2003 to 2008.


Map 3.44 KILIMANJARO
Chicken Population by District as of 1st Octobers
Siha
159,155
Rombo
Hai
Moshi Urban
Moshi Rural
Mwanga
159,283
Same
220,502
Number of chicken
0 - 10400
10401 - 20800
20801 - 31200
31201 - 41600
41601 - 52222


Map 3.45 KILIMANJARO
Density of Chicken by District as 1st October
Siha
28.26
Rombo
33.46
Hai
36.09
Moshi Urban
Moshi Rural
Mwanga
23.51
Same
43.73
Number of chicken per square km
0 - 14.86
14.87 - 29.72
29.73 - 44.58
44.59 - 59.44
59.45 - 74.3
Density of Chicken

3.12.6. Other Livestock

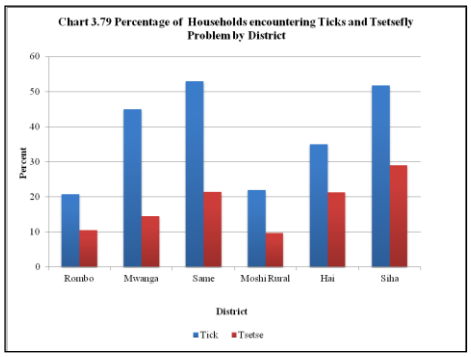
There were 26,537 ducks, 9,175 Guine pigs, 3,918 turkeys, 20,724 rabbits, 8.143 donkeys, and 35,981 dogs raised by rural agricultural households in region. Horses were not reported in region. The biggest number of ducks in the region was found in Moshi Rural district (15,652) , followed by Mwanga(3,662)), Same (3,521), Hai ((1,910) and Rombo (1,730). Turkeys were reported in Moshi Rural, Rombo and Siha districts only. In addition to horses, Guine Pigs, Rabbits and donkeys were not reported in Mwanga district. Results showed that Moshi Rural district household had all oher livestock except horses and donkey, (Table 3.17).

Table 3.17 OTHER LIVESTOCK PRODUCTION: Number of Other Livestock by Type of Livestock and District as of 1st October 2008

District	Ducks	Guine pigs	Turkeys	Rabbits	Donkeys	Horses	Dogs
Rombo	1,730	4,108	432	5,837	540	0	3,135
Mwanga	3,662	.0	0	0	0	0	2,940
Same	3,521	88	0	704	3,257	0	5,281
Moshi Rural	15,652	2,115	3,173	9,518	0	0	16,075
Hai	1,910	2,864	0	1,476	781	0	4,861
Siha	63	.	313	3,189	3,564	0	3,689
Total	26,537	9,175	3,918	20,724	8,143	0	35,981

3.12.7 Pest and Parasite Incidence and Control

The results indicate that 33 percent and 15 percent of the total livestock-keeping households reported to have encountered ticks and tsetse fly problems respectively. Chart 3.79 shows that there is a predominance of tick related diseases over tsetse related diseases (3.51).



Incidences of both problems were highest in Same and Siha districts but lowest in Rombo and Moshi Rural districts. The most practiced method of controlling ticks was spraying with 27 percent of all livestock-rearing households in the region. Other methods used were smearing (6%), dipping (3%) and other traditional methods like hand picking (1%). However, 63 percent of livestock-keeping households did not use any of the tick control method.

The most common method used to control tsetse flies was spraying which was practiced by 12 percent of livestock-rearing households and dipping (6%), trapping (4%) and other traditional

methods (2%). However, 78 percent of the livestock rearing households did not use any of the four aforementioned methods.

3.12.7.1 Deworming

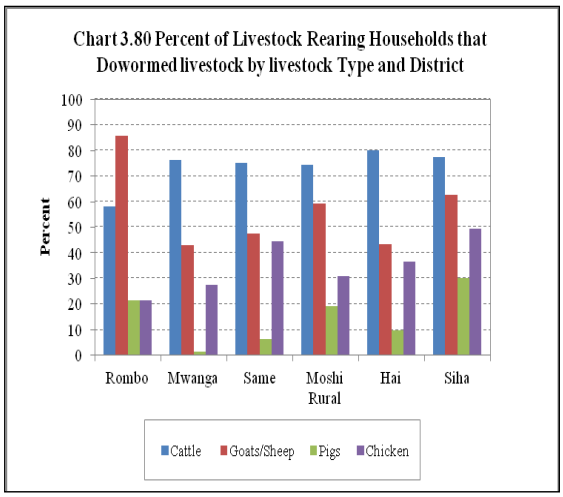


Table 3.18 Number and Percent of Households deworming by type of livestock

Type of livestock	Number of Households	Percentage
cattle	129,771	73
sheep/goats	106,851	60
pigs	28,943	16
chicken	59,511	33

Livestock rearing households dewormed all the types of their animals in the region. The number and percent of the households that dewormed cattle was 129,771 (73%), sheep/goats 106,851 (60%), pigs 28,943 (16%), and chicken 59,511 (33%) (Table 3.18).

In terms of deworming livestock by district Chart 3.80 indicates that highest percentages of livestock rearing households deworm cattle, followed by goats/sheep, chicken and lastly pigs. However, Rombo District had the highest percentage of livestock rearing households reported to have dewormed goats/sheep followed by cattle. Deworming of the remaining types of livestock was reported by an equal percentage of livestock rearing households in Rombo district (Chart 3.80).

3.12.8 Access to livestock Services

3.12.8.1 Access to Livestock Extension Services

Livestock rearing household that received extension service was 163,746 representing 88 percent of total livestock rearing and 67.5 percent of total agricultural household in the region. The main sourse of extension sevice was the Government which saved a total number of 155,916 households (95.2%) followe by Newslter/TV/Redio (21.3%), neighbour (15.1%), NGO (14.9%), cooperatives (9.5%) and Large scale fermers (4.6%). Type of extension services provided includes Proper livestock housing (121,089 household), livestock fattening (61,856), disease control (131,718),

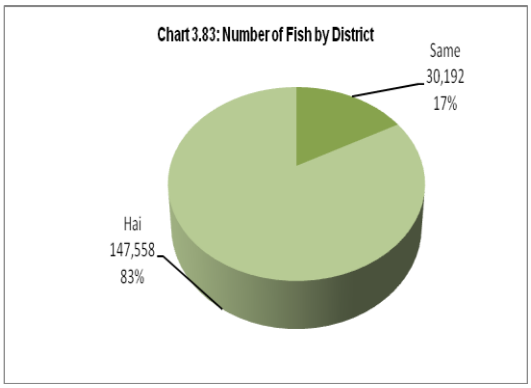
feeds and proper feeding (113,231), calf rearing (92,060), use of improved bulls (68,407), pasture establishment (59,540) and group formation (80,775).

3.12.9 Fish Farming

Fish farming was not a widely practised agricultural activity in region. The number of households involved in fish farming in region was 702 representing 0.3 percent of the total agricultural households in the region. Same and Hai were the only ditricts reported to have been practising fish farming.

3.12.9.1 Fish production

The common type of fish being stocked in both distcricts is Tilapia and fish farming system used in both Same and Hai districts was dug out ponds making a total of 702 ponds in the region. Hai had the highest number of fish 147,558 weighing 694 kg and Same 30,192 fish with 5,898kg. (Chart 3.83)

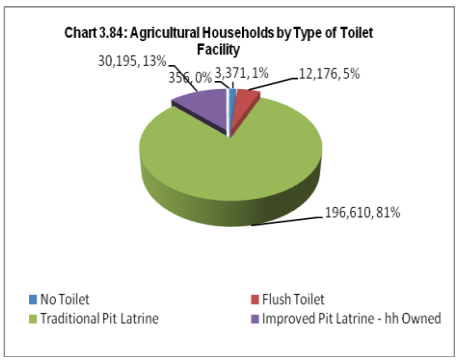


3.13. Poverty Indicators

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

3.13.2 Types of Toilets

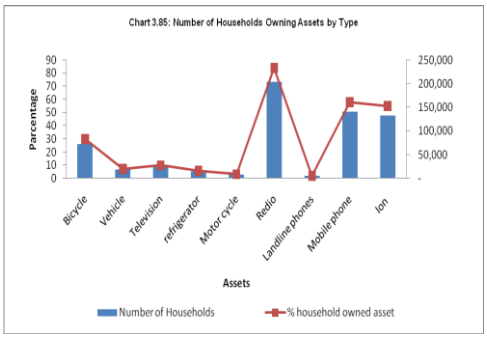
Eighty one percent (81%) of rural agricultural households (196,610 households) use traditional pit latrines, was followed by Improved pit latrine (30,195 households, 13%), flush toilets (12,176 houeholds 5%), other types of latrines (356 households, 0.1%) and 3,371 households, (1%) had no toilet facilities (Chart 3.84)



3.13.3 Household's Assets

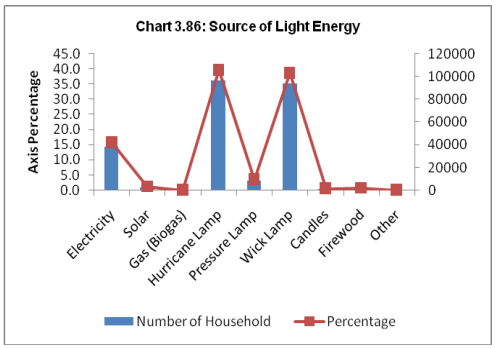
A total number of 203,194 of rural agricultural households in region reported to have owned Radio/Music Systems which was 84% of the agriculture households in the region. Landlines and Mobile phones owned by 146,263 households, 60% for both types of assets followed by Pressing

Iron (132,662householdsh, 55%), bicycle (72,841 households, 30%), wheelbarrows (61,095 households, 25.2%), Televison/Video (24,407 households, 10.1%), vehicles (18,287 households, 8%), Refrigerators (14,267 households, 6%) and Motor Cycle (7,870 households, 3.2%) (Chart 3.85)



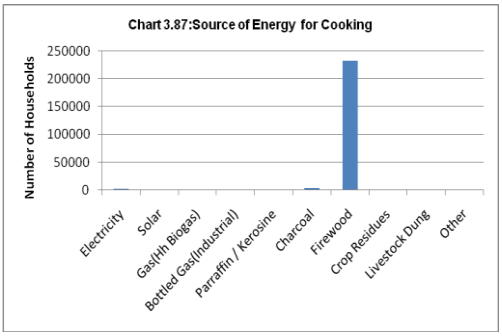
3.13.4 Sources of Lighting Energy

Hurricane lamp is the most common source of lighting energy in the region with 40 percent of the total rural households using this source of energy followed by wick lamp (39%), mains electricity (16%) and pressure lamp (4%), Solar (1.2%). The remaining sources of lighting were minor. (Chart 3.86)



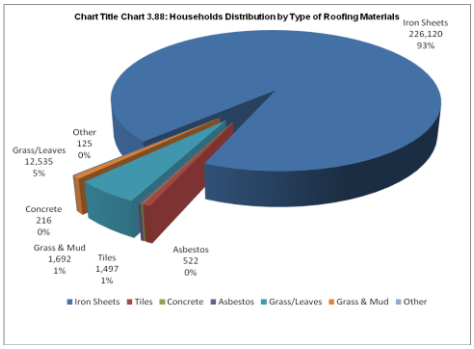
3.13.5 Sources of Energy for Cooking

The most prevalent source of energy for cooking was firewood, which was used by 96 percent of all rural agricultural households in region. This was followed by charcoal (2%) and mains electricity (1.1%). The rest of energy sources accounted for less than 1 percent each. These were crop residue (0.8%), solar energy (0.1%), Gas (Biogas) (0.2%), bottled gas (0.3%) paraffin/kerosene (0.2%), (Chart 3.87).



3.13.6 Roofing Materials

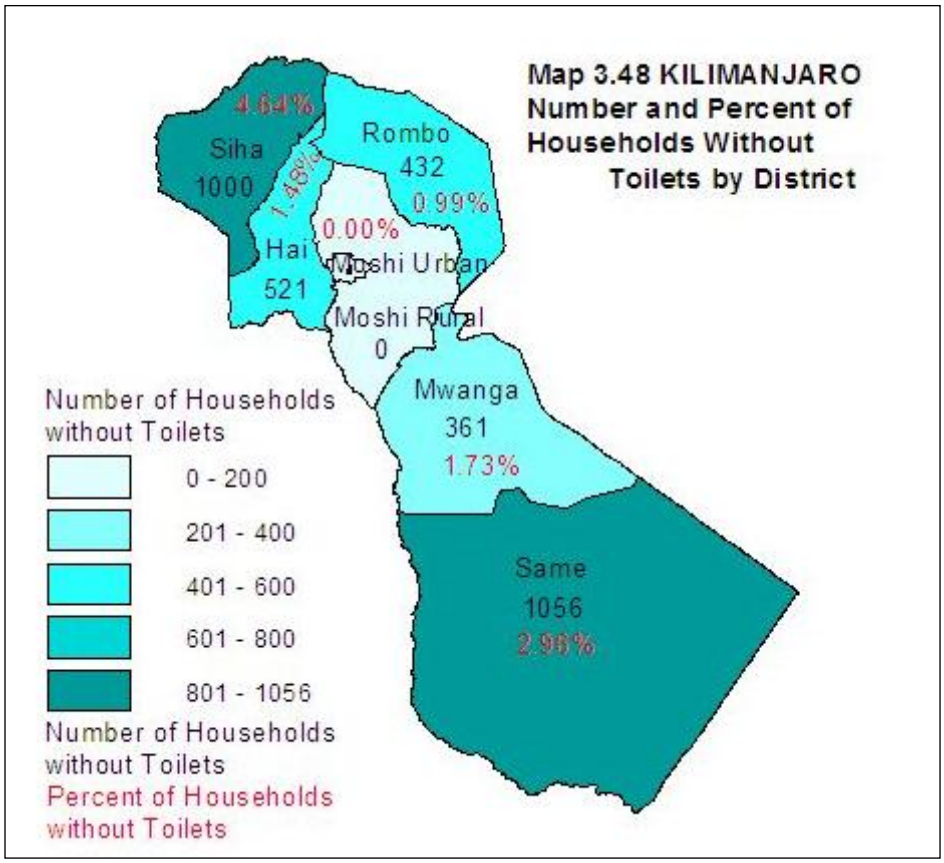
The roofing material commonly used for was Iron sheets and it was used by 93 percent of the rural agricultural households. This was followed by grass/leaves (5%), grass / mud (0.7%), tiles (0.6%), asbestos (0.2%) and Concrete and Other each 0.1 percent.(Chart 3.88). Moshi Rural district had the highest percentage of households with Iron sheet roofing

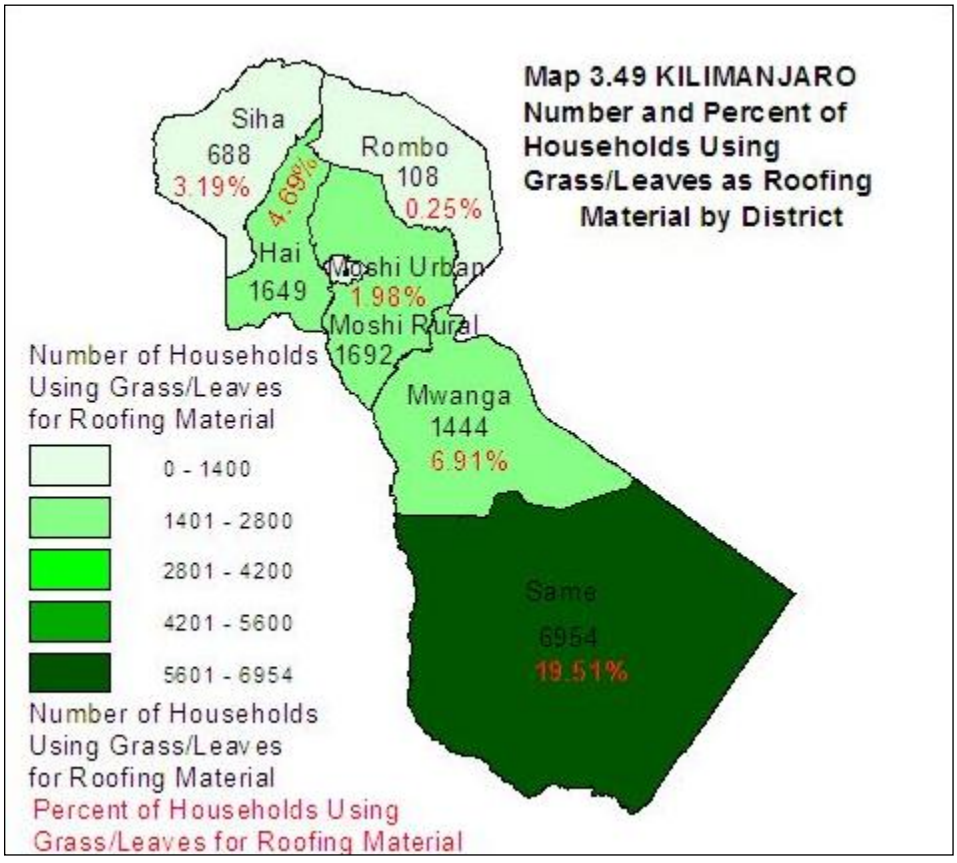


(37%) followed by Rombo districts (19%), Hai (15%), and Same (12%) (Table 3.19 and 3.57)

Table 3.19: Distribution of Households By Type of Roofing Material

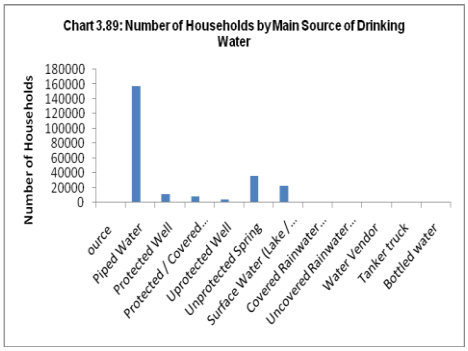
District	Roofing Materials							
	Iron Sheets	Tiles	Concrete	Asbestos	Grass/Leaves	Grass & Mud	Other	Total Households
Rombo	42,914	432	216	108	108	0	0	43,779
Mwanga	19,240	103	0	52	1,444	52	0	20,890
Same	27,728	264	0	88	6,954	616	0	35,650
Moshi Rural	83,125	635	0	212	1,692	0	0	85,663
Hai	33,418	0	0	0	1,649	87	0	35,154
Siha	19,696	63	0	63	688	938	125	21,572
Total	226,120	1,497	216	522	12,535	1,692	125	242,708
%	93.2	0.6	0.1	0.2	5.2	0.7	0.1	100.0


Map 3.48 KILIMANJARO
Number and Percent of Households Without Toilets by District
Siha
1000
4.64%
Rombo
432
0.99%
1.48%
0.00%
Hai
521
Moshi Urban
Moshi Rural
0
Mwanga
361
1.73%
Same
1056
2.96%
Number of Households without Toilets
0 - 200
201 - 400
401 - 600
601 - 800
801 - 1056
Number of Households without Toilets
Percent of Households without Toilets

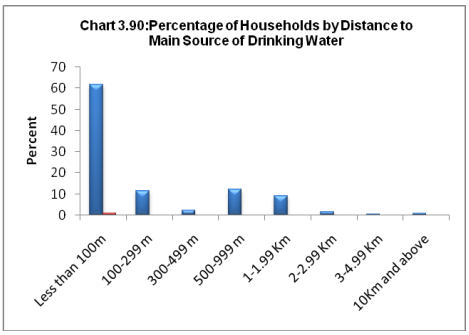

Map 3.49 KILIMANJARO
Number and Percent of Households Using Grass/Leaves as Roofing Material by District
Siha
688
3.19%
Rombo
108
0.25%
4.69%
Hai
1649
Moshi Urban
1.98%
Moshi Rural
1692
Mwanga
1444
6.91%
Same
6954
19.51%
Number of Households Using Grass/Leaves for Roofing Material
0 - 1400
1401 - 2800
2801 - 4200
4201 - 5600
5601 - 6954
Number of Households Using Grass/Leaves for Roofing Material
Percent of Households Using Grass/Leaves for Roofing Material

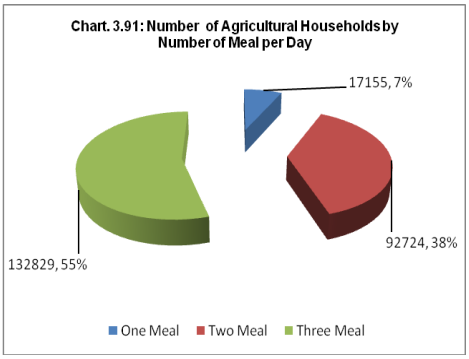
3.13.7 Access to Drinking Water

The main source of drinking water for rural agricultural households in region was piped water (65% during dry season). This is followed by unprotecd spring (15%), surface water-Lake/dam/rivers/streams-9 %, protected well (5%), protected/ covered spring (3%), unprotected well (2%), water vendor (1% of households during dry season). The rest of the sources accounted for less than 1 percent each (Chart 3.89)



About 62 percent of the rural agricultural households in region obtained drinking water within a distance of less than a hundred metres during wet season and. 60 percent of the households during the dry season. Eleven and twelve percents of agricultural households obtained drinking water between 100 and 299 metres during wet and dry seasons respectively. a Twelve and twenty percent of agricultural households obtained drinking water between 500 and 999 metres during wet and dry seasons respectively metres. The most common distance from the source of drinking water was less 100 meters during wet and dry seasons. During both wet and dry`seasons the most common time used was less than ten minutes.





3.13.8 Food Consumption Pattern

3.13.8.1 Number of Meals per Day

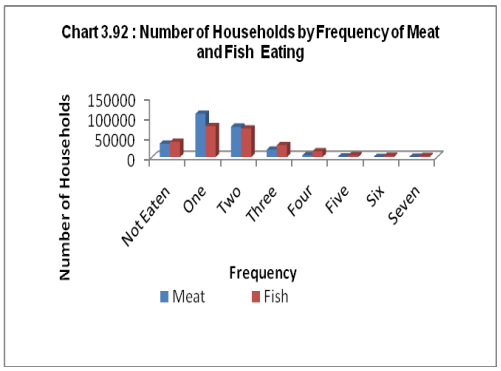
The results indicate that the majority of households in region normally have 3 meals per day (132,829 measl, 55 percent of the households in the region). This is followed by 2 meals per day (38 percent) and 1 meal per day (7 percent). There was no information on households reporting having 4 meals per day (Chart 3.91).

Table 3.20: Number of Agricultural Households Reporting Number of meals the household normally has per day by District, 2007/08 Agricultural Year

District	One	Two	Three	Total Households
Rombo	5,513	21,835	16,431	43,779
Mwanga	309	3,456	17,125	20,890
Same	704	7,042	27,904	35,650
Moshi Rural	8,249	36,592	40,822	85,663
Hai	1,128	13,107	20,919	35,154

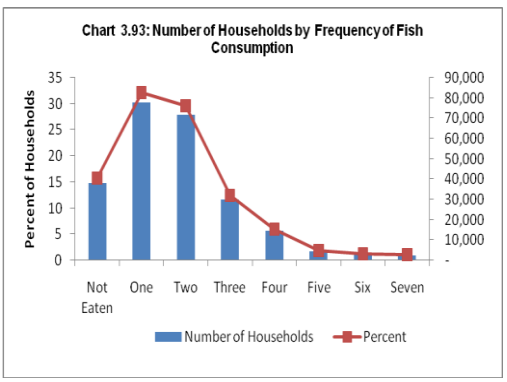
Moshi Rural district had the largest number of households eating Three, Two and One, meals per day, this is attributed to the proportion size of the population where Moshi Rural district stands above the rest in population size in the region. Same had the second highest number of agricultural household taking three meals per day, followd by Hai. Rombo had the second highest number of the households taking Two and One meal per day (Table 3.20 and 3.58).

3.13.8.2 Meat and Fish Consumption Frequency

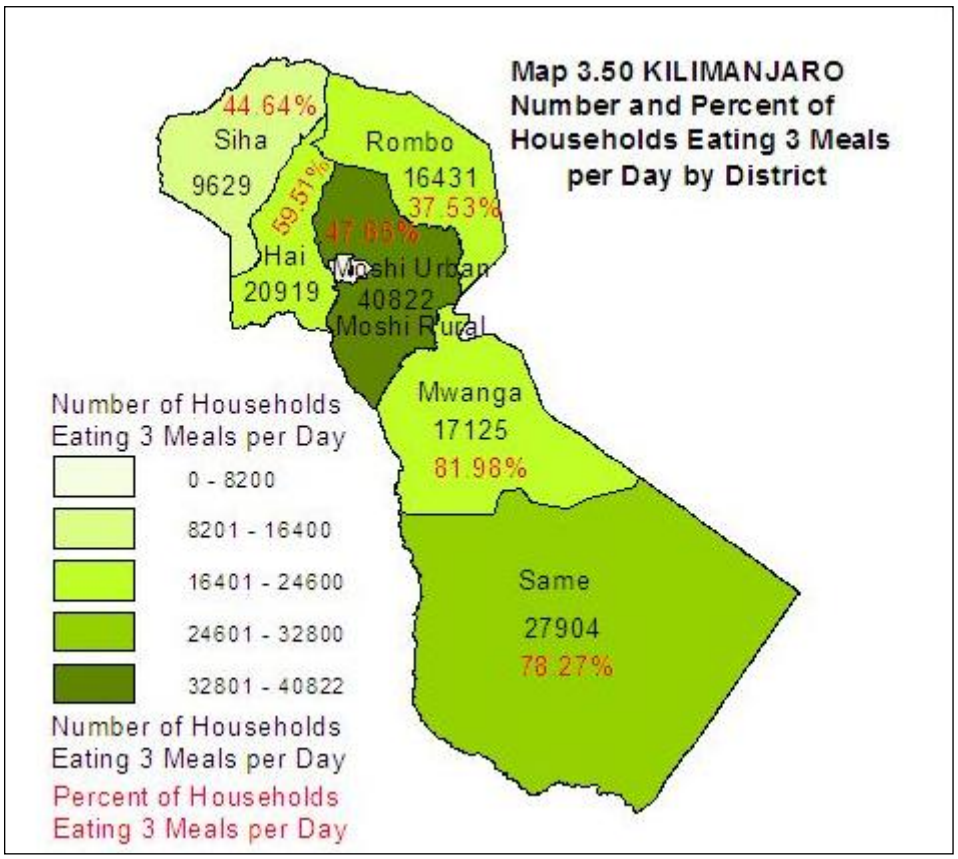


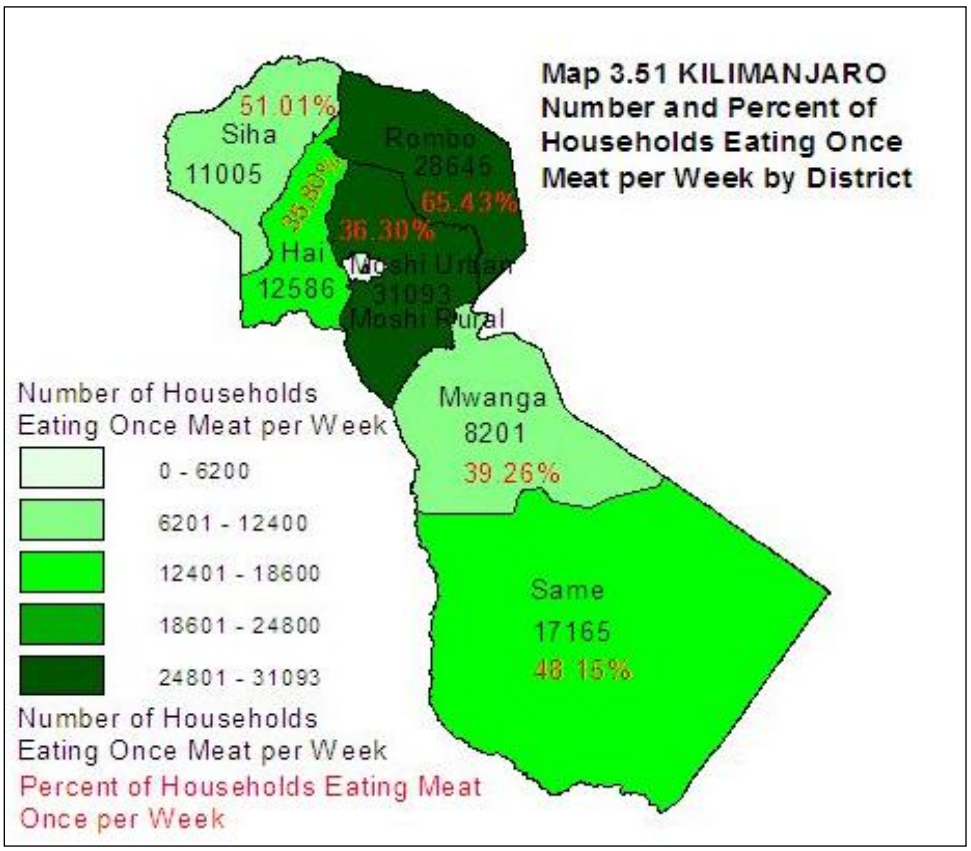
The number of agricultural households that consumed meat during the week preceding the census was 208,959.89 (86% of the agricultural households in region) with 108,695 households (45 % of those who consumed meat) consuming meat only once during the respective week. This was followed by those who had meat twice during the week 76,274 (31%) and those who had meat thrice during the week 18,466 (8%). Very few households (2 percent) had meat four or more times during the respective week. Those reported to have had meat more than four times during the week preceding the census were less than 1 percent. About 14 percent of the agricultural households in region did not eat meat during the week preceding the census (Chart 3.92 and 3.58).

3.13.8.3 Fish Consumption Frequencies



The number of agricultural households that consumed fish during the week preceding the census was 204,488 (84% of the total agricultural households in region) with 78,038 households (32 % of those who consumed fish) consuming fish once during the respective week. This was followed by those who had fish two times (71,897 households, 12%), three times (30,066 households, 12%), and four times (14,536 households, 6%). In general, those reported to be eating fish more than four times during the respective period in region were less than three percent of the agricultural households that ate fish in the region. About 16 percent of the agricultural households in region did not eat fish during the week preceding the census (Chart 3.93 and 3.59, 3.60). This number is slightly higher than that reported not to be eating meat during the week preceding the census period; indicating that the consumption of meat is slightly higher than that of fish in region.


Map 3.50 KILIMANJARO
Number and Percent of
Households Eating 3 Meals
per Day by District
44.64%
Siha
9629
59.51%
Rombo
16431
37.53%
47.66%
Hai
20919
Moshi Urban
40822
Moshi Rural
Mwanga
17125
81.98%
Same
27904
78.27%
Number of Households
Eating 3 Meals per Day
0 - 8200
8201 - 16400
16401 - 24600
24601 - 32800
32801 - 40822
Number of Households
Eating 3 Meals per Day
Percent of Households
Eating 3 Meals per Day


Map 3.51 KILIMANJARO
Number and Percent of
Households Eating Once
Meat per Week by District
51.01%
Siha
11005
35.30%
Rombo
28645
65.43%
36.30%
Hai
12586
31093
Moshi Rural
Mwanga
8201
39.26%
Same
17165
48.15%
Number of Households
Eating Once Meat per Week
0 - 6200
6201 - 12400
12401 - 18600
18601 - 24800
24801 - 31093
Number of Households
Eating Once Meat per Week
Percent of Households Eating Meat
Once per Week

Evaluation and Conclusion

4.0 Regional Profile

profile covers a wide range of information on geography, population, socio-economic parameters social services, economic infrastructure and the productive sectors. Such data are vital for policy makers and other users.

The region was named after the famous snow-covered Mount , with 19,344 feet above sea level. The region is located on the eastern part of Tanzania Mainland. It lies south of the equator between latitudes $2^0$25' and $4^0$15'. It has a common border with Kenya in the North and Tanga region to the south east and shares borders to the south and west with Arusha region.

has a land area of180,171hectares under crop production and has a relatively high number of crop growing households compared to other regions. Comparatively, Moshi Rural district had the largest planted area of 47,098 (26%) hectares, followed by Same 38,362 hectares (21%), Rombo 28,021 hectares (16%) and Hai 24,931 hectares (14%). The two districts Siha and Mwanga had the least planted area of 21,383 (12%) and 20,377 (11%) hectares respectively. The region had a land area per crop growing household of 1.1 hectares and almost all available land was utilized.

The region has short and long rainy seasons with the long rainy season being slightly more important. Matchets and Hand hoes were the most widely used tools used for land clearing, applied by 99 and 98 percents respectivevely of agricultural households doing land clearing in . Tractor was also used by a large number of households 14,442 (6%) for soil preparation, followed by tractor ploughing 8,985 (3.7%).

has a relatively high percent of permanent crops, some of which are in mono-crop stands and the remainder in mixed annual/permanent crop. Cereal production in is not important and it has one of the smallest planted areas of maize. Paddy, sorghum, cassava and groundnuts which used to be less important have now begun to emerge in the region, although some districts such as Rombo still did not record any production of some cereal crops such as paddy. There is moderate to low cultivation of beans and vegetables in the region.

Canals are the most common source of irrigation water and the region has the highest percent of households using canals. Rivers are also used. Practically all irrigation water was obtained by gravity and very few households use buckets/watering cans. Most cultivation was done by hand

with very few households using oxen. However, it is one of the six regions in the country that has some cultivation by tractor. has one of the highest percent of the total planted area with fertilizer application and slightly more farm yard manure than inorganic fertilizer is applied. It has the large percentage of total planted area with both insecticide application and fungicides.

The region has a large percent of households using air tight drums for storage and this is the most common method in the region, however this is closely followed by sacks/open drums. Very little storage is done in locally made traditional structures. has only a moderate number of households selling crops, and has one of the highest number and percent of smallholder households receiving extension advice in the country.

Most of the crop growing households also keep livestock. The region keeps a moderate number of livestock production. It has the highest number of improved breed of cattle (for both beef and diary). It has the largest number of households with erosion control/water harvesting bunds in Tanzania with terraces and erosion control bunds being the most common.

This section 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.

4.1 District Profiles

4.1.1 Rombo

Rombo district had the second largest number of agricultural households involved in rural agriculture in the region. Most smallholders are involved in crop farming only, followed by crop and livestock.

Permanent crop farming was the most important livelihood activity for small holder households, followed by annual crop farming and livestock keeping. The district is one of the highest percent of households with off-farm activities.

Compared with other districts in the region, Rombo has the lowest percent of female headed households (16%). The average size of household members in the district is 4.95 members per household, it has the highest household members compared to 4.70, an average for the region. Rombo has a comparatively low literacy rate among smallholder households due to low level of school attendance in the district. It is the second district with large number of households with

University and other tertiary education. The district was among the districts having the lowest area with certificates of lease.

Different annual crops and vegetables are planted in Rombo in both short and long rainy seasons. Among the cereal crops grown in Rombo, maize was leading with more males headed households in both seasons. Other cereal crop grown in Rombo was finger millets. Paddy and Sorghum were not reported in the district. Other significant annual crops grown in the district include beans, cowpeas, sunflower and groundnuts.

In both short and long rainy season, almost all households in the district stored their crops. Rombo district was the third with largest number of households storing crops during short rainy season and the fourth during long rainy season. Cereals were mostly stored in sacks/open drums, airtight drums, locally and improved locally made structures.

Use of organic fertilizer was very important in the district, and it was applied to an area of 6,595 hectares (2.7%) of the total planted area in the region. Organic fertilizer was applied on a larger area during short rainy season than in the long rainy season. Inorganic fertilizer was applied on an area of 3,605 (1.5%) hectares in Rombo. A larger area was applied with an input during short rainy season than during long rainy season.

Out of the total area planted with crops in the region, an area of 10,327 hectares (4.3%) were planted using improved seeds in Rombo. Larger area was planted using the input in short rainy season than in long rainy season.

The district had a moderate area planted using insecticides, the input being applied on a larger area during short rainy season. It had the largest number of households using insecticides in the region.

Rombo had a moderate number of households that sold their produce, with 17,728 (7.3%) of the total number of crop planting households.

Marketing problems were reported in the district, especially for pulses and cereals. The common problems include open market price too low, transport costs too high, lack of market information and lack of transport.

Matchet and handhoe are the most widely used farming tools used for land clearing, applied by 99.0 and 97.3 percent respectively of agricultural households doing land clearing in Rombo. Other

agricultural equipment used in order of importance include hand sprayer, tractors, Grater, Chipper, Oil Press and Oil Mill; and tractor plough.

In Rombo, agriculture credit was important with a largest number of households 540 (55.6) of the total households receiving agriculture credits in the region. Most credits were through family friends or relatives and private individuals.

In Rombo district, the majority (27, 564) of households reported to walk less than 100 meters to the main source of drinking water during the dry season. Piped water was the main source of drinking water. Other sources were unprotected spring and surface water (lake/dam/river).

In Rombo, the majority (38, 050) of households reported the traditional pit latrines as the major type of toilet used in the district. The other type was improved pit latrines (4,216). The main source of income was the sale of food crops. Other sources were other casual cash earnings, sales of cash crops, sales of livestock and business income.

The total number of households rearing cattle was the third in Rombo district, with 52% of the total agriculture households in the district. The total number of households rearing goats was the highest in Rombo district, with 84.9% of the total agriculture households in the district.

4.1.2 Mwanga

Mwanga had the highest percent of female headed households (30%). The average size of household members in the district is 4.6 members per household, relatively lower than the average of 4.70, an average for the region. Mwanga has the lowest number of household members who can read and write Swahili, and was the fourth in the region with the number of households with University and other tertiary education. Mwanga had the lowest number of households involved in agriculture. Mwanga had the smallest number of households involved in agriculture. The district ranks third with large areas with certificates of land ownership.

A number of different annual crops and vegetables were planted in Mwanga although the district was among the districts with small numbers of households that planted annual crops and vegetables. Most households growing annual crops and vegetables were male headed in both seasons. The major crops grown include maize, paddy, beans, cabbage, cassava, cowpeas and coco yams. Few households planted sunflower and tomatoes in Mwanga district.

Most households in the district stored their crops during short and long rainy seasons. Mwanga district was among the districts with lowest number of households storing crops during short rainy and long rainy seasons. Cereals were mostly stored in sacks/open drums, airtight drums, locally and improved locally made structures.

In Mwanga, the use of organic fertilizer was applied to an area of 2,324 hectares (1.0%) of the total planted area in the region. Organic fertilizer was applied on a larger area during short rainy season than in the long rainy season. Inorganic fertilizer was applied on area of 1,362 (0.6%) hectares in Mwanga. A larger area was applied with an input during short rainy season than during long rainy season.

Out of the total area planted with crops in the region, an area of 8,894 hectares (3.7%) were planted using improved seeds in Mwanga. Larger area was planted using the input in short rainy season than in long rainy season.

Mwanga had the smallest area planted using insecticides, the input being applied on a more or less same area during long and short rainy seasons. The district had the lowest number of households using insecticides in the region.

Marketing problems were reported in the district, especially for pulses, cereals and roots and tubers. The common problems include open market price too low, crop market too far, transport costs too high and lack of transport.

Piped water was the main source of drinking water. Other sources were protected wells and unprotected spring.

In Mwanga, the majority (18, 157) of households reported the traditional pit latrines as the major type of toilet used in the district. The other type was improved pit latrine (2,012). Mwanga reported a significant number of households that consumed fish in all seven days during the week. The main source of income was the sale of food crops. The other sources were other casual cash earnings.

4.1.3 Same

Compared with other districts in the region, Same is the third with 21 percent of female headed households. The average size of household members in the district is 4.89 members per household, above the average of 4.70, an average for the region. Same has a moderate literacy rate among smallholder households and was the third in with a moderate number of household members who

can read and write and is among the districts with a small number of households with University and other tertiary education. Same was the third with large numbers of rural households involved in agriculture in the region. The district was the second in the region with large areas with certificates of land ownership.

Different annual crops and vegetables were planted in Same and the district was among the districts with the small number of households that planted annual crops and vegetables. The major crops grown in Same include maize, paddy, beans, sweet potatoes, Irish potatoes, coco yams, cowpeas, tomatoes, cabbage, onions and amaranths. Few households planted sunflower and groundnuts. It was the only district growing mung beans in the region, planted on an area of 36 hectares with the yield of 1tonne per hectare.

In both short and long rainy season, almost all households in the district stored their crops. Same district was the second with largest number of households storing crops in the region. The crops stored include cereals, pulses and roots and tubers. These were mostly stored in sacks/open drums, airtight drums, locally and improved locally made structures.

The use of organic fertilizer was very important in Same district, and it was applied to an area of 3,246 hectares (2.9%) of the total planted area in the region. Organic fertilizer was applied on a larger area during short rainy season than in the long rainy season.Inorganic fertilizer was applied on area of 3,643 (1.5%) hectares in Same. A larger area was applied with an input during short rainy season than during long rainy season.

Out of the total area planted with crops in the region, an area of 7,670 hectares (3.2%) were planted using improved seeds in Same. Larger area was planted using the input in short rainy season than in long rainy season. Local seeds were mainly used in Same district, and the largest area was planted during short rainy season. An area of 30,202 (12%) of the total area planted with crops in the region was planted using local seeds.

Same had the second largest area that was irrigated. The larger area was irrigated during the short rainy season and only a small part during the long rainy season. The district was the second with the largest number of households that sold their produce, with 28,168 (11.7%) of the total number of crop planting households in the region.

The common market problems in Same were open market price too low, crop market too far and lack of transport. There were serious market problems for cereals, pulses and fruits and vegetables.

Same had a significant number of households reporting the most common agricultural constraints. These are poor soil cultivation equipment 4,225 (11.9%), Access to land 3,081 (8.6%), Access to improved seeds 3,081 (8.6%).

In Same district, the majority (11, 883) of households reported to walk less than 100 meters to the main source of drinking water during the dry season.

Unprotected spring was the main source of drinking water in Same. Other sources were piped water, surface water (lake/dam/river), protected/ covered spring.

In Same, the majority (30, 192) of households reported the traditional pit latrine as the major type of toilet used in the district. The district ranks second with the large number of households using this type of toilet. The other type was improved pit latrine (3,785). Same reported the second highest number of households (27,904, 11.5%) that normally take three meals per day. The main source of income was the sale of food crops. The other sources were other casual cash earnings.

4.1.4 Moshi Rural

Moshi Rural had the largest number of rural households involved in agriculture. The district is one of the districts with the lowest percent of female headed households (18%). The average size of household members in the district is 4.65 members per household, relatively lower than the average of 4.70 members in the household, an average for the region. Moshi Rural has the highest literacy rate in the region, and is the first district with large number of households with University and other tertiary education. The district is leading by having the largest number (99.1%) of the total households involved in agriculture.

The largest number of households having or owning certificates of land ownership is in Moshi Rural district. It had the largest area owned under customary law, bought area, rented and area share-cropped.

Moshi Rural is among the districts with large numbers of households growing annual crops and vegetables. Like all the districts in the region, maize was mainly planted in both short and long

rainy seasons. The district was leading by having the largest number of households growing maize, largest area planted and largest quantity harvested.

Moshi Rural had the largest number of households storing crops. Cereals were stored in both short and long rainy seasons. Following the order of importance, the methods widely used to store crops were airtight drums, sacks/open drums and locally and improved locally made structures respectively.

Moshi Rural had the highest area planted using organic fertilizer. The input was applied to an area of 7,137 hectares (2.9%) of the total planted area in the region. Like many other districts in the region, organic fertilizer was applied on a larger area during short rainy season than in the long rainy season. Inorganic fertilizer was applied on area of 16,043 (6.6%) hectares in Moshi Rural. The district had the largest area planted using inorganic fertilizer, and a larger area was applied with an input during long rainy season than during short rainy season.

Out of the total area planted with crops in the region, an area of 21,133 hectares (8.7%) were planted using improved seeds in Moshi Rural. The district had the largest area planted using improved seeds, most of it being used during the long rainy season. Moshi Rural was the second with the largest area planted using local seeds. About 22,547 (9.3%) hectares were planted using local seeds out of the total area planted with crops in the region.

Moshi Rural had the largest area planted using insecticides, the input being applied on a larger area during long rainy season. It was the second with the largest number of households using insecticides in the region.

The district was the second first with the largest number of households that sold their produce, with 36,380 (15.1%) of the total number of crop planting households in the region. Marketing problems that were reported in Moshi Rural district were open market price too low, transport costs too high and crop market too far.

Matchet and handhoe are the most widely used farming tools used for land clearing, applied by 99.3 and 97.5 percent respectively of agricultural households doing land clearing in Moshi Rural district. Other agricultural equipment used in order of importance include hand sprayer, tractors, Grater, shellers/threshers and tractor plough.

In Moshi Rural, agriculture credit was important with a large number of households 423 (50.0) of the total households receiving agriculture credits in the region. Most credits were through family friends or relatives and savings and credit.

In Moshi Rural district, the majority (60, 281) of households reported to walk less than 100 meters to the main source of drinking water during the dry season.

Piped water was the main source of drinking water. Other sources were unprotected spring, surface water (lake/dam/river) and protected well.

In Moshi Rural, the majority (66, 415) of households reported the traditional pit latrine as the major type of toilet used in the district. The district had the largest number of households using this type of toilet. The other type was improved pit latrine (10,364).

Moshi Rural reported the highest number of households (40,822, 16.8%) that normally take three meals per day. It was the only district that reported to have consumed meat seven times durind the week. The main source of income was the sale of food crops. The other sources were wages and salaries in cash and other casual cash earnings.

The total number of households rearing cattle was the second in Moshi Rural district, with 62% of the total agriculture households in the district. The total number of households rearing goats was the second in Rombo district, with 48.9% of the total agriculture households in the district.

4.1.5 Hai

Compared with other districts in the region, Hai is the second with a large percent of female headed households (22%). The average size of household members in the district is 4.45 members per household, relatively lower than the average of 4.70 members, an average for the region. Hai ranks third with low literacy rate among smallholder households due to low level of school attendance in the district. However Hai is the third district with large number of households with University and other tertiary education. It ranks fourth with large numbers of rural households involved in agriculture in the region. Small areas had certificates of lease in the district.

The district was the second with the largest number of households growing maize as well as the largest number of households growing paddy in the region. It had the highest yield of 2.8 tonnes of

paddy per hectare. Other crops grown include beans, green grams, sunflower and amaranths. Comparatively, smaller areas were planted with cabbage and tomatoes.

Hai was the second district with smallest number of households storing crops. Cereals were stored in both short and long rainy seasons. Following the order of importance, the methods widely used to store crops were airtight drums, sacks/open drums and locally made traditional structures respectively. Pulses and roots and tubers were among the crops that were stored during short and long rainy seasons.

Hai had a moderate area planted using organic fertilizer. The input was applied to an area of 1,172 hectares (0.9%) of the total planted area in the region. Unlike other districts in the region, organic fertilizer was applied on a slightly larger area during long rainy season than in the short rainy season. Inorganic fertilizer was applied on area of 12,128 (5,0%) hectares in Hai. It was the second with the largest area planted using inorganic fertilizer. Larger area was applied with the input during long rainy season.

Out of the total area planted with crops in the region, an area of 13,393 hectares (5.5%) were planted using improved seeds in Hai. The district was the second largest with area planted using improved seeds, most of it being used during the long rainy season.

Hai ranks third with a large area that was irrigated during short and long rainy seasons. A larger area was irrigated during long rainy season. The district was the third with the largest number of households that sold their produce, with 25,779 (10.7%) of the total number of crop planting households in the region. Marketing problems that were reported in Hai district were open market price too low, transport costs too high, Government regulatory problems and lack of transport.

Moshi Rural had a significant number of households reporting the most common agricultural constraints. These are access to land 27,285 (31.9%), poor soil cultivation equipment 4,865 (5.7%), irrigation facilities 4,442 (5.2%) and access to improved seeds 3,173 (3.7%).

In Hai district, the majority (23, 436) of households reported to walk less than 100 meters to the main source of drinking water during the dry season.

Piped water was the main source of drinking water. Other sources were unprotected spring and surface water (lake/dam/river). The majority (29, 164) of households reported the traditional pit latrine as the major type of toilet used in the Hai. The other type was improved pit latrine (4,253).

Hai reported the third highest number of households (20,919, 8.6%) that normally take three meals per day. The main source of income was the sale of food crops. The other sources were other casual cash earnings, sales of livestock products and sales of cash crops.

4.1.6 Siha

Compared with other districts in the region, Siha ranks fourth with the lowest percent of female headed households (19%). The average size of household members in the district is 4.66 members per household, relatively lower than the average of 4.70, an average for the region. Siha has the lowest literacy rate among smallholder households due to low level of school attendance in the district, and no household members were reported to have attained University or other tertiary education. Siha was one of the districts having small numbers of households involved in agriculture and had the smallest area leased or having certificates of lease.

Maize was the major crop grown in Siha. The district ranks third with the largest number of households growing maize in the region. Other crops were beans, sunflower, irish potatoes and paddy, with a moderate yield of 1.5 tonnes of paddy per hectare. Cabbage was the most important vegetable planted in Siha. Comparatively, fewer households were involved in growing the crop on the largest area planted with cabbage in the region, giving the yield of 12 tonnes of cabbage per hectare. Raddish and Turmeric are not common crop in other districts and are only grown in Siha. Other common vegetables grown in small areas include okra, field peas, amaranths and chillies.

Siha had the smallest number of households storing crops. Cereals were stored in both short and long rainy seasons. Following the order of importance, the methods widely used to store crops were airtight drums, sacks/open drums, locally made traditional structures and improved locally made structures respectively. Pulses and roots and tubers were among the crops that were stored during short long rainy seasons.

Siha had a smallest area planted using organic fertilizer. The input was applied to an area of 1,156 hectares (0.6%) of the total planted area in the region. In this district, organic fertilizer was significantly applied on a larger area during long rainy season than in the short rainy season. Inorganic fertilizer was applied on area of 6,503 (2.7%) hectares in Siha. It was the third with the

largest area planted using inorganic fertilizer. Larger area was applied with the input during long rainy season.

The district was the third with largest area planted using improved seeds, most of the input was used during the long rainy season. Out of the total area planted with crops in the region, an area of 10,743 hectares (4.4%) were planted using improved seeds in Siha.

Siha had the smallest area of irrigated land, and had the least number of households that used irrigation in both seasons.

Piped water was the main source of drinking water. Other sources were surface water (lake/dam/river) and unprotected spring. The majority (14, 631) of households reported the traditional pit latrine as the major type of toilet used in the Siha. The other type was improved pit latrine (5,565).

In this district, the main source of income was the sale of food crops. The other sources were sales of cash crops, business income and other casual cash earnings.

The total number of households rearing cattle was highest in Siha district, with 65% of the total agriculture households in the district. The total number of households rearing goats was the third in Siha district, with 47.8% of the total agriculture households in the district.

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2.1.1 TYPE OF AGRICULTURE HOUSEHOLD: 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 Total Households	Number of Urban Households	% of Total Households	Total Number of Households
Rombo	43,779	99.8	81	0.2	43,860	83.9	8,443	16.14	52,303
Mwanga	20,890	97.6	523	2.4	21,413	77.2	6,320	22.8	27,734
Same	35,650	99.6	155	0.4	35,805	70.4	15,046	29.6	50,851
Moshi Rural	85,663	99.1	815	0.9	86,478	90.9	8,607	9.1	95,086
Hai	35,154	98.3	619	1.7	35,773	88.4	4,702	11.6	40,475
Siha	21,572	97.6	521	2.4	22,093	89.0	2,744	11.0	24,837
Total	242,708	98.9	2,714	1.1	245,422	84.3	45,864	15.7	291,286

2.1.2 TYPE OF AGRICULTURE HH: 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	%			
Rombo	4,864	11	0	0	0	0	38,914	89	43,779	43,779	38,914
Mwanga	5,674	27	0	0	0	0	15,216	73	20,890	20,890	15,216
Same	13,732	39	704	2	0	0	21,214	60	35,650	34,946	21,918
Moshi Rural	19,036	22	635	1	0	0	65,992	77	85,663	85,029	66,627
Hai	9,027	26	174	0	0	0	25,953	74	35,154	34,980	26,127
Siha	4,377	20	188	1	0	0	17,008	79	21,572	21,384	17,195
Total	56,710	23	1,700	1	0	0	184,298	76	242,708	241,008	185,997

2.1.3 TYPE OF AGRICULTURE HOUSEHOLD: Number of Agriculture Households By Type and Size of Holding, 2007/08 Agricultural Year - KILIMANJARO

Size of Holding(hac.)	2.1 Type of Agriculture Household									
	Crops only		Livestock only		Pastoralist		Crops and Livestock		Total number hh	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0.01 - 0.50	24,350	30	1,525	2	0	0	54,064	68	79,939	100
0.51 - 1.00	16,897	22	175	0	0	0	61,377	78	78,449	100
1.01 - 1.50	9,161	21	0	0	0	0	34,487	79	43,648	100
1.51 - 2.00	2,652	16	0	0	0	0	13,544	84	16,196	100
2.01 - 2.50	2,598	20	0	0	0	0	10,169	80	12,766	100
2.51 - 3.00	149	4	0	0	0	0	4,077	96	4,226	100
3.01 - 3.50	263	12	0	0	0	0	1,977	88	2,240	100
3.51 - 4.00	175	17	0	0	0	0	876	83	1,050	100
4.01 -4.50	377	31	0	0	0	0	850	69	1,226	100
4.51 -5.00	0	0	0	0	0	0	752	100	752	100
Above 5	88	4	0	0	0	0	2,126	96	2,215	100
Total	56,710	23	1,700	1	0	0	184,298	76	242,708	100

HOUSEHOLDS DEMOGRAPHY

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

	Male		Female		
District	Number	Percent	Number	Percent	Total
Rombo	36,861	84	6,918	16	43,779
Mwanga	14,649	70	6,241	30	20,890
Same	28,080	79	7,570	21	35,650
Moshi Rural	70,434	82	15,229	18	85,663
Hai	27,428	78	7,725	22	35,154
Siha	17,445	81	4,127	19	21,572
Total	194,897	80	47,810	20	242,708

Table 3 .2: Number of Household Members classified by District and Sex

	Male		Female		
District	Number	Percent	Number	Percent	Total
Rombo	105,610	49	110,906	51	216,516
Mwanga	46,887	49	49,157	51	96,044
Same	82,831	47	91,634	53	174,465
Moshi Rural	198,188	50	200,092	50	398,280
Hai	76,036	49	80,463	51	156,499
Siha	49,084	49	51,398	51	100,482
Total	558,636	49	583,649	51	1,142,285

3.3 HOUSEHOLDS DEMOGRAPHS: Number of Agricultural Household Members By Sex and Age Group, 2007/08 Agricultural Year, Kilimanjaro

	Sex					
	Male		**Female**		**Total**	
Age Group	**Number**	**%**	**Number**	**%**	**Number**	**%**
Less than 4	46,509	50	46,739	50	93,248	100
5 - 9	72,350	49	74,942	51	147,292	100
10 - 14	85,025	49	89,240	51	174,265	100
15 - 19	77,027	52	71,706	48	148,733	100
20 - 24	35,033	50	35,498	50	70,531	100
25 - 29	23,665	41	34,426	59	58,091	100
30 - 34	26,753	45	32,937	55	59,690	100
35 - 39	31,848	48	35,048	52	66,896	100
40 - 44	26,776	51	25,547	49	52,323	100
45 - 49	29,589	50	30,151	50	59,740	100
50 - 54	20,604	47	22,798	53	43,402	100
55 - 59	22,144	51	21,326	49	43,470	100
60 - 64	15,166	53	13,556	47	28,722	100
65 - 69	12,801	46	14,969	54	27,771	100
70 - 74	12,807	49	13,484	51	26,291	100
75 - 79	8,511	54	7,395	46	15,906	100
80 - 84	5,263	47	5,923	53	11,186	100
Above 85	6,764	46	7,965	54	14,729	100
Total	558,636	49	583,649	51	1142285	100

3.6 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	
Rombo	34,266	92	3,135	8	37,401	100	1,081	67	540	33	1,621	100
Mwanga	13,308	87	1,960	13	15,268	100	413	31	928	69	1,341	100
Same	26,583	92	2,201	8	28,784	100	528	33	1,056	67	1,584	100
Moshi Rural	67,261	91	6,768	9	74,030	100	1,481	54	1,269	46	2,750	100
Hai	24,477	95	1,302	5	25,779	100	955	61	608	39	1,562	100
Siha	15,945	92	1,438	8	17,383	100	563	53	500	47	1,063	100
Total	181,841	92	16,804	8	198,645	100	5,020	51	4,902	49	9,922	100

Cont. 3.6 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	
Rombo	108	50	108	50	216	100	432	44	540	56	973	100
Mwanga	52	33	103	67	155	100	413	47	464	53	877	100
Same	88	33	176	67	264	100	616	37	1,056	63	1,672	100
Moshi Rural	212	50	212	50	423	100	423	25	1,269	75	1,692	100
Hai	0	0	0	0	0	0	694	38	1,128	62	1,823	100
Siha	250	100	0	0	250	100	438	50	438	50	875	100
Total	709	54	599	46	1,308	100	3,016	38	4,896	62	7,912	100

Cont. 3.6 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	
Rombo	973	27	2,594	73	3,567	100	36,861	84	6,918	16	43,779	100
Mwanga	464	14	2,785	86	3,250	100	14,649	70	6,241	30	20,890	100
Same	264	8	3,081	92	3,345	100	28,080	79	7,570	21	35,650	100
Moshi Rural	1,058	16	5,711	84	6,768	100	70,434	82	15,229	18	85,663	100
Hai	1,302	22	4,687	78	5,989	100	27,428	78	7,725	22	35,154	100
Siha	250	13	1,751	88	2,001	100	17,445	81	4,127	19	21,572	100
Total	4,311	17	20,609	83	24,920	100	194,897	80	47,810	20	242,708	100

3.7 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	
Rombo	10,377	82	2,270	18	12,647	100	26,375	85	4,648	15	31,023	100
Mwanga	5,571	80	1,393	20	6,963	100	8,924	65	4,797	35	13,721	100
Same	11,531	86	1,937	14	13,468	100	16,549	75	5,634	25	22,182	100
Moshi Rural	20,940	85	3,807	15	24,747	100	48,437	81	11,422	19	59,858	100
Hai	9,548	85	1,649	15	11,197	100	17,881	75	5,816	25	23,696	100
Siha	8,004	88	1,063	12	9,067	100	9,442	76	3,064	25	12,506	100
Total	65,970	84	12,119	16	78,089	100	127,606	78	35,380	22	162,986	100

Cont. 3.7 Number of Heads of Agricultural Households by Survival of Female Parent, sex of head and District, 2007/08 Agricultural Year

	Don't know						Total					
District	Male		Female		Total		Male		Female		Total	
Rombo	108	100	0	0	108	100	36,861	84	6,918	16	43,779	100
Mwanga	155	75	52	25	206	100	14,649	70	6,241	30	20,890	100
Same	0	0	0	0	0	0	28,080	79	7,570	21	35,650	100
Moshi Rural	1,058	100	0	0	1,058	100	70,434	82	15,229	18	85,663	100
Hai	0	0	260	100	260	100	27,428	78	7,725	22	35,154	100
Siha	0	0	0	0	0	0	17,445	81	4,127	19	21,572	100
Total	1,320	81	312	19	1,632	100	194,897	80	47,810	20	242,708	100

3.8 Number of Heads of Agricultural Households by Survival of Male Parent, sex of head and District, 2007/08 Agricultural Year

	Yes						No					
District	Male	%	Female	%	Total	%	Male	%	Female	%	Total	%
Rombo	19,025	85	3,459	15	22,484	100	17,836	84	3,459	16	21,295	100
Mwanga	7,995	77	2,424	23	10,419	100	6,654	64	3,765	36	10,419	100
Same	17,253	80	4,225	20	21,478	100	10,827	76	3,345	24	14,172	100
Moshi Rural	36,803	84	6,768	16	43,572	100	33,631	80	8,461	20	42,091	100
Hai	15,450	83	3,212	17	18,662	100	11,891	73	4,427	27	16,318	100
Siha	12,068	88	1,688	12	13,756	100	5,377	69	2,439	31	7,816	100
Total	108,594	83	21,777	17	130,371	100	86,216	77	25,895	23	112,112	100

Cont. 3.8 Number of Heads of Agricultural Households by Survival of Male Parent, sex of head and District, 2007/08 Agricultural Year

	Don't know						Total					
District	Male	%	Female	%	Total	%	Male	%	Female	%	Total	%
Rombo	0	0	0	0	0	0	36,861	84	6,918	16	43,779	100
Mwanga	0	0	52	100	52	100	14,649	70	6,241	30	20,890	100
Same	0	0	0	0	0	0	28,080	79	7,570	21	35,650	100
Moshi Rural	0	0	0	0	0	0	70,434	82	15,229	18	85,663	100
Hai	87	50	87	50	174	100	27,428	78	7,725	22	35,154	100
Siha	0	0	0	0	0	0	17,445	81	4,127	19	21,572	100
Total	87	39	138	61	225	100	194,897	80	47,810	20	242,708	100

3 .9 HOUSEHOLD DEMOGRAPHS: Number of Household Members Who Can Read and Write languages by type of language and District

	Swahili		Swahili & English		Any Other Language		Don't Read / Write		Total
District	Number	%	Number	%	Number	%	Number	%	
Rombo	150,902	76	23,241	11.7	108	0.1	24,970	12.5	199,220
Mwanga	63,084	73	15,010	17.3	0	0.0	8,769	10.1	86,863
Same	120,506	76	16,901	10.6	0	0.0	22,182	13.9	159,589
Moshi Rural	248,740	68	86,086	23.4	1,269	0.3	31,727	8.6	367,822
Hai	110,235	77	17,881	12.5	87	0.1	15,363	10.7	143,566
Siha	66,217	72	13,443	14.6	0	0.0	12,318	13.4	91,978
Total	759,683	72	172,562	16.4	1,464	0.1	115,330	11.0	1049038

Cont. 3.10 Number of Heads of Agricultural Households By Status of writing and reading Languages, sex of head and District, 2007/08 Agricultural Year

District	Any Other Language						Don't Read / Write					
	Male	%	Female	%	Total	%	Male	%	Female	%	Total	%
Rombo	0	0	0	0	0	0	3,243	56	2,054	44	5,297	100
Mwanga	0	0	0	0	0	0	722	63	1,083	37	1,805	100
Same	0	0	0	0	0	0	2,465	58	1,232	42	3,697	100
Moshi Rural	0	0	0	0	0	0	4,019	54	2,961	46	6,980	100
Hai	0	0	0	0	0	0	2,257	63	1,476	37	3,732	100
Siha	0	0	0	0	0	0	1,438	64	1,313	36	2,751	100
Total	0	0	0	0	0	0	14,143	57	10,119	43	24,263	100

Cont. 3.10 Number of Heads of Agricultural Households By Status of writing and reading Languages, sex of head and District, 2007/08 Agricultural Year

District	Total					
	Male	%	Female	%	Total	%
Rombo	36,861	84	6,918	16	43,779	100
Mwanga	14,649	70	6,241	30	20,890	100
Same	28,080	79	7,570	21	35,650	100
Moshi Rural	70,434	82	15,229	18	85,663	100
Hai	27,428	78	7,725	22	35,154	100
Siha	17,445	81	4,127	19	21,572	100
Total	194,897	80	47,810	20	242,708	100

3.11 Number of Agricultural Household Members reporting Literacy levels by Sex of Member and Distirct, 2007/08 Agricultural Year

	Male						Female						Total					
	Can Read and Write		Can not Read and Write		Total		Can Read and Write		Can not Read and Write		Total		Can Read and Write		Can not Read and Write		Total	
District	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Rombo	88,638	91	8,323	9	96,962	100	85,612	84	16,647	16	102,259	100	174,250	87	24,970	13	199,220	100
Mwanga	38,583	91	3,714	9	42,297	100	39,511	89	5,055	11	44,566	100	78,094	90	8,769	10	86,863	100
Same	66,811	87	9,771	13	76,581	100	70,596	85	12,411	15	83,007	100	137,406	86	22,182	14	159,589	100
Moshi Rural	169,422	93	12,691	7	182,113	100	166,673	90	19,036	10	185,709	100	336,095	91	31,727	9	367,822	100
Hai	62,495	90	6,597	10	69,092	100	65,707	88	8,767	12	74,474	100	128,202	89	15,363	11	143,566	100
Siha	39,643	88	5,440	12	45,082	100	40,018	85	6,878	15	46,896	100	79,660	87	12,318	13	91,978	100
Total	465,592	91	46,535	9	512,128	100	468,116	87	68,794	13	536,910	100	933,708	89	115,330	11	1049038	100

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

	Male						Female						Total					
	Can Read and Write		Can not Read and Write		Total		Can Read and Write		Can not Read and Write		Total		Can Read and Write		Can not Read and Write		Total	
District	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Rombo	33,618	91	3,243	9	36,861	100	4,864	70	2,054	30	6,918	100	38,482	88	5,297	12	43,779	100
Mwanga	13,927	95	722	5	14,649	100	5,158	83	1,083	17	6,241	100	19,085	91	1,805	9	20,890	100
Same	25,615	91	2,465	9	28,080	100	6,338	84	1,232	16	7,570	100	31,953	90	3,697	10	35,650	100
Moshi Rural	66,415	94	4,019	6	70,434	100	12,268	81	2,961	19	15,229	100	78,683	92	6,980	8	85,663	100
Hai	25,172	92	2,257	8	27,428	100	6,250	81	1,476	19	7,725	100	31,421	89	3,732	11	35,154	100
Siha	16,007	92	1,438	8	17,445	100	2,814	68	1,313	32	4,127	100	18,821	87	2,751	13	21,572	100
Total	180,754	93	14,143	7	194,897	100	37,691	79	10,119	21	47,810	100	218,445	90	24,263	10	242,708	100

3 .13 HOUSEHOLD DEMOGRAPHS: Number of Household Members by Education Status and District

District	Attending School	%	Completed	%	Never Attended to School	%	Total
Rombo	81,720	20	95,449	23	22,052	5	199,220
Mwanga	36,210	9	43,225	8	7,428	8	86,863
Same	66,018	16	77,990	15	15,580	16	159,589
Moshi Rural	139,176	34	198,611	37	30,035	31	367,822
Hai	53,902	13	77,425	14	12,239	12	143,566
Siha	36,203	9	45,082	8	10,692	11	91,978
Total	413,231	100	537,782		98,025		1049038

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

	Attending School						Completed					
District	Male		Female		Total		Male		Female		Total	
Rombo	216	100	0	0	216	100	32,969	87	4,756	13	37,725	100
Mwanga	309	75	103	25	413	100	13,617	73	5,107	27	18,724	100
Same	176	100	0	0	176	100	25,615	80	6,514	20	32,129	100
Moshi Rural	635	75	212	25	846	100	65,781	85	11,845	15	77,626	100
Hai	347	100	0	0	347	100	24,825	80	6,163	20	30,987	100
Siha	188	100	0	0	188	100	15,819	85	2,876	15	18,696	100
Total	1,871	86	315	14	2,186	100	178,627	83	37,260	17	215,887	100

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

	Never Attended to School						Total					
District	Male		Female		Total		Male		Female		Total	
Rombo	3,675	63	2,162	37	5,837	100	36,861	84	6,918	16	43,779	100
Mwanga	722	41	1,032	59	1,754	100	14,649	70	6,241	30	20,890	100
Same	2,289	68	1,056	32	3,345	100	28,080	79	7,570	21	35,650	100
Moshi Rural	4,019	56	3,173	44	7,191	100	70,434	82	15,229	18	85,663	100
Hai	2,257	59	1,562	41	3,819	100	27,428	78	7,725	22	35,154	100
Siha	1,438	53	1,251	47	2,689	100	17,445	81	4,127	19	21,572	100
Total	14,400	58	10,235	42	24,635	100	194,897	80	47,810	20	242,708	100

cont 3.15 HOUSEHOLDS DEMOGRAPHS: Number of Agricultural Household Members By Level of Formal Education Completion and District, 2007/08 Agricultural Year

	Education Level							
	University & Other Tertiary Education		Adult Education		Not applicable		Total	
District	Number	%	Number	%	Number	%	Number	%
Rombo	649	1	1,405	1	108	0	95,449	100
Mwanga	103	0	52	0	0	0	43,225	100
Same	88	0	880	1	528	1	77,990	100
Moshi Rural	2,115	1	212	0	1,058	1	198,611	100
Hai	434	1	434	1	87	0	77,425	100
Siha	0	0	438	1	63	0	45,082	100
Total	3,389	1	3,420	1	1,843	0	537,782	100

3.16 HOUSEHOLDS DEMOGRAPHS: Number of Agricultural Household Members By Level of involvement in Farming Activivty and District, 2007/08 Agricultural Year

	Involvement in Farming									
	Works Full-time on Farm		Works Part-time on Farm		Rarely Works on Farm		Never Works on Farm		Total	
District	Number	%	Number	%	Number	%	Number	%	Number	%
Rombo	85,936	43	18,484	9	35,347	18	59,453	30	199,220	100
Mwanga	31,619	36	3,146	4	27,905	32	24,192	28	86,863	100
Same	71,652	45	6,690	4	46,213	29	35,034	22	159,589	100
Moshi Rural	138,753	38	38,707	11	81,221	22	109,141	30	367,822	100
Hai	63,624	44	6,250	4	20,398	14	53,295	37	143,566	100
Siha	40,705	44	5,690	6	18,258	20	27,325	30	91,978	100
Total	432,290	41	78,967	8	229,343	22	308,438	29	1049038	100

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

	Main Activity									
	Crop/Seaweed Farming		Livestock Keeping / Herding		Livestock Pastoralist		Fishing		Fish Farming	
District	Number	%	Number	%	Number	%	Number	%	Number	%
Rombo	83,882	42	2,054	1	0	0	108	0	0	0
Mwanga	34,250	39	1,496	2	52	0	206	0	0	0
Same	72,356	45	4,753	3	0	0	88	0	0	0
Moshi Rural	137,695	37	1,904	1	0	0	635	0	212	0
Hai	62,582	44	1,389	1	87	0	174	0	174	0
Siha	41,393	45	688	1	250	0	0	0	0	0
Total	432,159	41	12,283	1	388	0	1,211	0	385	0

Cont 3.17 HOUSEHOLDS DEMOGRAPHS: Number of Agricultural Household Members By Main Activity and District, 2007/08 Agricultural Year

	Main Activity									
	Government / Parastatal		Private - NGO / Mission / etc		Self Employed (Non Farmimg) with Employees		Self Employed (Non Farmimg) without Employees		Unpaid Family Helper (Non Agriculture)	
District	Number	%	Number	%	Number	%	Number	%	Number	%
Rombo	4,108	2	6,810	3	3,567	2	3,675	2	865	0
Mwanga	1,238	1	3,043	4	1,599	2	774	1	361	0
Same	1,937	1	968	1	1,408	1	616	0	440	0
Moshi Rural	17,556	5	11,845	3	7,614	2	14,171	4	1,481	0
Hai	2,691	2	3,298	2	3,038	2	2,517	2	1,215	1
Siha	1,938	2	2,314	3	813	1	2,063	2	563	1
Total	29,467	3	28,278	3	18,040	2	23,817	2	4,924	0

Cont 3.17 HOUSEHOLDS DEMOGRAPHS: Number of Agricultural Household Members By Main Activity and District, 2007/08 Agricultural Year

	Main Activity													
	Not Working & Available		Not Working & Unavailable		Housemaker / Housewife		Student		Unable to Work / Too Old / Retired / Sick / Disabled		Other		Total	
District	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Rombo	324	0	324	0	1,081	1	82,585	41	9,512	5	324	0	199,220	100
Mwanga	361	0	103	0	980	1	35,643	41	6,654	8	103	0	86,863	100
Same	88	0	176	0	176	0	66,283	42	10,211	6	88	0	159,589	100
Moshi Rural	1,692	0	423	0	12,691	3	141,291	38	18,190	5	423	0	367,822	100
Hai	1,302	1	260	0	3,646	3	51,906	36	9,114	6	174	0	143,566	100
Siha	375	0	63	0	813	1	35,516	39	5,065	6	125	0	91,978	100
Total	4,143	0	1,349	0	19,386	2	413,223	39	58,746	6	1,237	0	1,049,038	100

LAND OWNERSHIP AND LAND USE

4.1 LAND ACCESS/OWNERSHIP: Number of Farming households by type of land Ownership/Tenure and District for the 2007/08 agriculture year

District	Land ownership/tenure														
	Leased / Certificate of Ownership		Owned under Customary Law		Bought		Rented		Borrowed		Households with area Share - cropped		Households with area under Other forms of Tenure		Total number of households
	No of Households	%	No of Households	%	No of Households	%	No of Households	%	No of Households	%	No of Households	%	No of Households	%	
Rombo	216	0.5	41,076	93.8	4,972	11.4	2,162	4.9	3,783	8.6	540	1.2	108	0.2	43,779
Mwanga	2,166	10.4	18,827	90.1	2,321	11.1	361	1.7	2,785	13.3	309	1.5	309	1.5	20,890
Same	3,521	9.9	31,425	88.1	6,954	19.5	2,553	7.2	5,986	16.8	968	2.7	88	0.2	35,650
Moshi Rural	1,058	1.2	72,972	85.2	9,307	10.9	16,498	19.3	4,019	4.7	1,481	1.7	846	1.0	85,663
Hai	347	1.0	31,248	88.9	4,166	11.9	6,076	17.3	2,951	8.4	521	1.5	434	1.2	35,154
Siha	125	0.6	18,883	87.5	3,001	13.9	4,752	22.0	1,063	4.9	875	4.1	375	1.7	21,572
Total	7,433	3.1	214,432	88.3	30,722	12.7	32,402	13.4	20,587	8.5	4,695	1.9	2,161	0.9	242,708

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

District	Land Ownership/Tenure							
	Area leased / Certificate of Ownership	Area owned under Customary Law	Area Bought	Area rented	Area Borrowed	Area Share - cropped	Area under Other forms of Tenure	Total area (ha)
Rombo	109	26,567	4,168	1,050	1,281	241	44	33,461
Mwanga	1,430	19,026	1,115	120	1,446	73	297	23,507
Same	3,555	32,258	3,557	1,051	2,896	339	71	43,726
Moshi Rural	4,894	47,116	12,264	7,386	1,430	867	343	74,300
Hai	158	27,808	2,996	3,597	1,076	272	184	36,091
Siha	51	20,316	3,095	3,588	392	405	418	28,265
Total	10,197	173,091	27,195	16,793	8,521	2,197	1,356	239,350

4..3: LAND SUFFICIENCY: Number of Agriculture Households by Whether All Land Available to the Household Was Used during 2007/08 agriculture year and Region

District	Was all Land Available to the Hh Used During 2007/08?				
	Yes		No		Total
	Number	%	Number	%	Number
Rombo	41,076	94	2,702	6	43,779
Mwanga	14,804	71	6,087	29	20,890
Same	24,823	70	10,827	30	35,650
Moshi Rural	77,203	90	8,461	10	85,663
Hai	30,466	87	4,687	13	35,154
Siha	20,009	93	1,563	7	21,572
Total	208,381	86	34,327	14	242,708

4.4 LAND SUFFICIENCY: Number of Agriculture Households by Whether they Consider Having Sufficient Land for the Household and Region during 2007/08 agriculture year

District	Do you Consider that you have sufficient land for the Hh?				
	Yes		No		Total
	Number	%	Number	%	Number
Rombo	11,134	25	32,645	75	43,779
Mwanga	9,388	45	11,503	55	20,890
Same	10,563	30	25,087	70	35,650
Moshi Rural	15,441	18	70,223	82	85,663
Hai	8,593	24	26,561	76	35,154
Siha	2,814	13	18,758	87	21,572
Total	57,932	24	184,776	76	242,708

4.5 LAND ACCESS/OWNERSHIP/TENURE: Number of Agriculture Households By Whether Female Members of the Household Own or Have Cusomary Right to Land By Region during 2007/08 Agriculture year

District	Do any Female Members of the Hh own or have customary right to Land				
	Yes		No		Total
	Number	%	Number	%	Number
Rombo	5,297	12	38,482	88	43,779
Mwanga	4,436	21	16,454	79	20,890
Same	7,922	22	27,728	78	35,650
Moshi Rural	22,209	26	63,454	74	85,663
Hai	13,627	39	21,526	61	35,154
Siha	4,439	21	17,133	79	21,572
Total	57,931	24	184,777	76	242,708

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

District	Type of land use													
	Households under Temporary Mono Crops	%	Households under Temporary Mixed Crops	%	Households under Permanent Mono Crops	%	Households under Permanent Mixed Crops	%	Households under Permanent / Annual Mix	%	Households under Pasture	%	Households under Fallow	%
Rombo	4,540	5	21,295	24	5,945	7	21,511	24	11,999	13	5,405	6	1,189	1
Mwanga	11,812	13	9,388	10	8,305	9	3,765	4	1,393	2	1,909	2	3,456	4
Same	22,798	25	14,788	16	7,042	8	3,785	4	6,778	7	968	1	8,802	10
Moshi Rural	33,842	37	23,267	26	9,307	10	27,074	30	23,055	25	2,115	2	2,538	3
Hai	11,284	12	24,477	27	3,472	4	15,884	18	4,253	5	1,562	2	1,823	2
Siha	6,315	7	13,694	15	2,001	2	8,754	10	1,688	2	1,688	2	1,063	1
Total	90,592		106,908		36,071	40	80,773	89	49,166	54	13,647	15	18,871	21

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

District	Type of land use										
	Households under Natural Bush	%	Households under Planted Trees	%	Households Rented to Others	%	Households Unusable	%	Households of Uncultivated Usable Land	%	Total number of households
Rombo	108	0	108	0	649	1	216	0	216	0	43,779
Mwanga	103	0	1,135	1	361	0	52	0	1,393	2	20,890
Same	176	0	528	1	264	0	792	1	1,672	2	35,650
Moshi Rural	212	0	4,019	4	1,269	1	1,692	2	1,692	2	85,663
Hai	174	0	521	1	608	1	694	1	1,389	2	35,154
Siha	63	0	250	0	438	0	188	0	313	0	21,572
Total	835	1	6,561	7	3,588	4	3,634	4	6,675	7	242,708

4.7 LAND USE: 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)
Rombo	2,045	11,185	1,649	8,864	6,346	2,440	484	44	22	295	33	55	33,461
Mwanga	8,189	5,004	2,744	1,699	740	566	2,503	26	467	188	10	1,371	23,507
Same	15,829	10,477	2,771	1,723	4,073	428	6,198	339	483	89	319	998	43,726
Moshi Rural	29,718	9,060	5,040	12,895	9,747	621	4,509	856	60	749	510	535	74,300
Hai	7,322	13,904	925	7,377	2,871	532	1,520	176	114	404	272	675	36,091
Siha	6,053	12,867	1,171	4,846	1,083	879	475	25	60	456	63	287	28,265
Total	69,157	62,497	14,300	37,403	24,860	5,464	15,687	1,466	1,206	2,182	1,207	3,921	239,350

CROP OWNERSHIP

5.1.1b Number of Households and Planted Area by Crop and Sex of Household members owning most of the crop for the agriculture year 2007/08 Long Season-KILIMANJARO DISTRICT

Rombo

	SHORT RAINY SEASON				LONG RAINY SEASON			
	Male		Female		Male		Female	
Crop	No. of Hholds	Planted Area	No. of Hholds	Planted Area	No. of Hholds	Planted Area	No. of Hholds	Planted Area
Maize	22,376	6,439	8,756	1,912	9,188	2,092	5,080	1,032
Paddy	0	0	0	0	0	0	0	0
Sorghum	0	0	0	0	0	0	0	0
Finger Millet	1,189	230	432	79	4,432	1,191	1,730	357
CEREALS	23,565	6,669	9,188	1,991	13,620	3,284	6,810	1,388
Cassava	108	18	0	0	0	0	0	0
Sweet Potato	0	0	0	0	0	0	0	0
Irish potatoes	108	4	108	9	540	153	216	66
Yams	0	0	0	0	0	0	0	0
Coco Yam	108	0	0	0	0	0	0	0
ROOTS & TUBERS	324	22	108	9	540	153	216	66
Mung Bean	0	0	0	0	0	0	0	0
Beans	15,782	3,138	6,918	1,213	12,755	3,997	4,972	1,050
Cowpeas	3,459	507	1,405	168	3,243	677	1,621	321
Green gram	973	119	757	92	216	53	757	112
Field Peas	0	0	0	0	0	0	0	0
PULSES	20,214	3,764	9,080	1,473	16,214	4,726	7,351	1,484
Sunflower	3,783	648	2,054	368	2,378	418	2,378	368
Simsim	108	7	0	0	0	0	0	0
Groundnut	2,486	501	865	98	1,946	406	1,189	175
OIL SEEDS & OIL NUTS	6,378	1,155	2,919	466	4,324	824	3,567	543
Okra	108	4	0	0	0	0	0	0
Radish	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0
Ginger	0	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	0	0	0	0	0
Spinach	0	0	0	0	0	0	0	0
Carrot	0	0	0	0	0	0	0	0
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES	108	4	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS	0	0	0	0	0	0	0	0
Total	50,589	11,615	21,295	3,938	34,699	8,987	17,944	3,481

5.1.1b Number of Householsd and Planted Area by Crop and Sex of Household members owning most of the crop for the agriculture year 2007/08 Long Season-KILIMANJARO DISTRICT

Mwanga

	SHORT RAINY SEASON				LONG RAINY SEASON			
	Male		Female		Male		Female	
Crop	No. of Hholds	Planted Area	No. of Hholds	Planted Area	No. of Hholds	Planted Area	No. of Hholds	Planted Area
Maize	8,820	4,875	5,674	2,174	8,408	4,565	4,952	1,864
Paddy	464	345	103	84	516	240	0	0
Sorghum	0	0	52	10	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0
CEREALS	9,285	5,220	5,829	2,268	8,924	4,805	4,952	1,864
Cassava	0	0	0	0	52	10	0	0
Sweet Potato	722	162	774	94	103	12	206	27
Irish potatoes	0	0	52	42	0	0	0	0
Yams	0	0	155	18	0	0	155	5
Coco Yam	361	30	567	38	155	5	206	20
ROOTS & TUBERS	1,083	193	1,547	191	309	28	567	52
Mung Bean	0	0	0	0	0	0	0	0
Beans	4,178	1,042	4,384	775	4,591	1,364	4,952	1,205
Cowpeas	309	73	361	112	258	84	516	172
Green gram	0	0	155	56	0	0	103	22
Field Peas	0	0	0	0	0	0	0	0
PULSES	4,488	1,116	4,900	943	4,849	1,448	5,571	1,398
Sunflower	722	295	155	63	567	245	0	0
Simsim	0	0	0	0	0	0	0	0
Groundnut	52	10	0	0	52	21	0	0
OIL SEEDS & OIL NUTS	774	306	155	63	619	266	0	0
Okra	52	2	0	0	0	0	52	4
Radish	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0
Bitteer Aubergine	103	10	0	0	0	0	0	0
Onion	52	10	0	0	0	0	0	0
Ginger	0	0	0	0	52	5	0	0
Cabbage	52	5	52	5	155	14	52	5
Tomatoes	258	47	52	5	155	49	52	5
Spinach	0	0	0	0	0	0	0	0
Carrot	0	0	0	0	0	0	0	0
Chillies	155	32	0	0	52	4	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES	671	107	103	10	413	72	155	15
Tobacco	0	0	52	10	0	0	52	3
CASH CROPS	0	0	52	10	0	0	52	3
Total	16,300	6,940	12,586	3,486	15,113	6,619	11,296	3,332

5.1.1b Number of Households and Planted Area by Crop and Sex of Household members owning most of the crop for the agriculture year 2007/08 Long Season-KILIMANJARO DISTRICT

Same

	SHORT RAINY SEASON				LONG RAINY SEASON			
	Male		Female		Male		Female	
Crop	No. of Hholds	Planted Area	No. of Hholds	Planted Area	No. of Hholds	Planted Area	No. of Hholds	Planted Area
Maize	20,774	11,358	8,186	4,201	7,306	3,893	2,729	1,344
Paddy	2,465	1,051	1,232	412	616	223	0	0
Sorghum	0	0	88	36	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0
CEREALS	23,238	12,410	9,507	4,649	7,922	4,115	2,729	1,344
Cassava	528	178	88	9	0	0	88	36
Sweet Potato	264	25	616	86	88	18	176	18
Irish potatoes	704	138	792	141	792	169	176	27
Yams	0	0	0	0	0	0	0	0
Coco Yam	88	9	0	0	88	18	0	0
ROOTS & TUBERS	1,584	350	1,496	236	968	205	440	80
Mung Bean	0	0	0	0	88	36	0	0
Beans	10,651	3,741	7,130	2,910	11,179	4,022	5,546	1,810
Cowpeas	176	82	0	0	264	146	0	0
Green gram	0	0	88	18	88	36	0	0
Field Peas	0	0	0	0	0	0	0	0
PULSES	10,827	3,822	7,218	2,928	11,619	4,240	5,546	1,810
Sunflower	528	107	0	0	264	143	88	18
Simsim	0	0	0	0	0	0	0	0
Groundnut	176	36	88	18	176	27	88	18
OIL SEEDS & OIL NUTS	704	143	88	18	440	169	176	36
Okra	88	36	0	0	0	0	0	0
Radish	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	88	36	0	0	176	18
Onion	616	116	440	143	176	18	0	0
Ginger	2,025	617	88	18	352	169	0	0
Cabbage	88	9	0	0	88	9	88	5
Tomatoes	616	103	264	53	880	143	616	98
Spinach	88	18	0	0	0	0	88	9
Carrot	0	0	0	0	0	0	176	14
Chillies	88	18	88	9	0	0	0	0
Amaranths	88	9	176	18	88	9	440	45
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	176	71	0	0	0	0	0	0
FRUITS & VEGETABLES	3,873	996	1,144	276	1,584	347	1,584	187
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS	0	0	0	0	0	0	0	0
Total	40,227	17,721	19,453	8,106	22,534	9,077	10,475	3,457

5.1.1b Number of Households and Planted Area by Crop and Sex of Household members owning most of the crop for the agriculture year 2007/08 Long Season-KILIMANJARO DISTRICT

Moshi Rural

	SHORT RAINY SEASON				LONG RAINY SEASON			
	Male		Female		Male		Female	
Crop	No. of Hholds	Planted Area	No. of Hholds	Planted Area	No. of Hholds	Planted Area	No. of Hholds	Planted Area
Maize	20,305	7,913	10,576	1,793	28,977	18,526	12,268	4,509
Paddy	2,538	1,991	212	107	423	107	0	0
Sorghum	0	0	0	0	635	86	0	0
Finger Millet	212	86	212	23	212	21	423	45
CEREALS	23,055	9,990	10,999	1,923	30,246	18,740	12,691	4,554
Cassava	0	0	0	0	212	26	212	9
Sweet Potato	0	0	0	0	0	0	0	0
Irish potatoes	0	0	0	0	0	0	0	0
Yams	212	9	212	2	0	0	0	0
Coco Yam	635	58	4,230	256	1,269	95	423	6
ROOTS & TUBERS	846	67	4,442	258	1,481	121	635	15
Mung Bean	0	0	212	4	0	0	0	0
Beans	6,980	1,972	14,594	2,375	10,787	2,564	9,941	1,455
Cowpeas	0	0	0	0	0	0	0	0
Green gram	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0
PULSES	6,980	1,972	14,806	2,380	10,787	2,564	9,941	1,455
Sunflower	1,904	599	1,269	337	4,865	920	1,904	307
Simsim	0	0	0	0	0	0	0	0
Groundnut	0	0	0	0	635	235	212	43
OIL SEEDS & OIL NUTS	1,904	599	1,269	337	5,499	1,155	2,115	350
Okra	212	43	0	0	0	0	212	21
Radish	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0
Ginger	0	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	0	1,481	193	635	45
Spinach	423	33	212	17	212	69	423	13
Carrot	0	0	0	0	0	0	0	0
Chillies	0	0	0	0	846	107	212	21
Amaranths	212	11	0	0	0	0	212	13
Pumpkins	212	21	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	212	10
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES	1,058	108	212	17	2,538	368	1,904	124
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS	0	0	0	0	0	0	0	0
Total	33,842	12,736	31,727	4,915	50,552	22,948	27,285	6,499

5.1.1b Number of Households and Planted Area by Crop and Sex of Household members owning most of the crop for the agriculture year 2007/08 Long Season-KILIMANJARO DISTRICT

Hai

	SHORT RAINY SEASON				LONG RAINY SEASON			
	Male		Female		Male		Female	
Crop	No. of Hholds	Planted Area	No. of Hholds	Planted Area	No. of Hholds	Planted Area	No. of Hholds	Planted Area
Maize	7,638	2,377	2,691	855	21,005	9,836	6,510	2,429
Paddy	521	158	87	35	521	158	87	35
Sorghum	0	0	0	0	0	0	0	0
Finger Millet	0	0	87	18	0	0	0	0
CEREALS	8,159	2,535	2,864	908	21,526	9,994	6,597	2,464
Cassava	260	84	0	0	0	0	0	0
Sweet Potato	0	0	694	42	0	0	0	0
Irish potatoes	0	0	0	0	0	0	0	0
Yams	0	0	87	3	0	0	87	3
Coco Yam	0	0	87	3	0	0	87	3
ROOTS & TUBERS	260	84	868	47	0	0	174	6
Mung Bean	0	0	0	0	0	0	0	0
Beans	4,600	866	4,340	804	12,065	2,611	9,287	1,826
Cowpeas	174	13	0	0	0	0	0	0
Green gram	0	0	0	0	0	0	434	176
Field Peas	0	0	1,042	51	0	0	87	2
PULSES	4,774	880	5,382	854	12,065	2,611	9,808	2,003
Sunflower	0	0	174	105	3,298	271	1,910	297
Simsim	0	0	0	0	87	9	0	0
Groundnut	0	0	0	0	0	0	0	0
OIL SEEDS & OIL NUTS	0	0	174	105	3,385	279	1,910	297
Okra	260	88	87	18	174	70	0	0
Radish	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0
Bitteer Aubergine	87	35	87	4	87	18	87	4
Onion	955	211	0	0	0	0	0	0
Ginger	0	0	0	0	0	0	0	0
Cabbage	260	51	260	20	87	9	87	6
Tomatoes	1,042	193	174	51	434	88	174	26
Spinach	347	26	260	15	87	9	347	105
Carrot	174	44	260	35	0	0	0	0
Chillies	608	58	521	55	0	0	87	9
Amaranths	174	44	955	40	174	13	521	298
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	347	70	174	7	174	44	174	26
Egg Plant	0	0	0	0	0	0	260	38
Water Mellon	0	0	0	0	87	18	0	0
FRUITS & VEGETABLES	4,253	820	2,778	245	1,302	268	1,736	512
Tobacco	0	0	0	0	0	0	174	18
CASH CROPS	0	0	0	0	0	0	174	18
Total	17,447	4,318	12,065	2,160	38,278	13,153	20,398	5,300

5.1.1b Number of Households and Planted Area by Crop and Sex of Household members owning most of the crop for the agriculture year 2007/08 Long Season-KILIMANJARO DISTRICT

Siha

	SHORT RAINY SEASON				LONG RAINY SEASON			
	Male		Female		Male		Female	
Crop	No. of Hholds	Planted Area	No. of Hholds	Planted Area	No. of Hholds	Planted Area	No. of Hholds	Planted Area
Maize	1,251	480	500	139	14,694	11,365	4,127	1,960
Paddy	0	0	0	0	63	20	0	0
Sorghum	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	313	51	125	38
CEREALS	1,251	480	500	139	15,069	11,436	4,252	1,998
Cassava	63	13	0	0	0	0	0	0
Sweet Potato	0	0	0	0	0	0	0	0
Irish potatoes	188	177	0	0	125	101	0	0
Yams	0	0	0	0	63	9	0	0
Coco Yam	0	0	0	0	0	0	0	0
ROOTS & TUBERS	250	190	0	0	188	110	0	0
Mung Bean	188	58	0	0	0	0	0	0
Beans	2,751	1,155	2,501	691	7,691	2,515	5,627	1,196
Cowpeas	0	0	0	0	0	0	0	0
Green gram	0	0	0	0	0	0	0	0
Field Peas	63	6	0	0	125	30	0	0
PULSES	3,001	1,219	2,501	691	7,816	2,545	5,627	1,196
Sunflower	313	34	125	13	2,876	811	1,063	153
Simsim	0	0	0	0	0	0	0	0
Groundnut	0	0	0	0	0	0	0	0
OIL SEEDS & OIL NUTS	313	34	125	13	2,876	811	1,063	153
Okra	0	0	0	0	0	0	63	25
Radish	0	0	0	0	0	0	63	25
Turmeric	0	0	0	0	0	0	63	6
Bitteer Aubergine	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0
Ginger	0	0	0	0	0	0	0	0
Cabbage	0	0	63	13	63	51	63	13
Tomatoes	313	68	0	0	250	76	0	0
Spinach	0	0	0	0	0	0	63	10
Carrot	63	8	0	0	63	10	63	13
Chillies	125	19	0	0	63	13	0	0
Amaranths	63	8	63	6	63	6	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES	563	103	125	19	500	155	375	92
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS	0	0	0	0	0	0	0	0
Total	5,377	2,026	3,251	861	26,449	15,057	11,317	3,439

CROP PRODUCTION BY REGION

5.6 ANNUAL CROP AND VEGETABLE PRODUCTION: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08

	Maize				Paddy				Sorghum				Finger Millet			
District	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Rombo	31,132	8,351	10,507	1.3	0	0	0	0.0	0	0	0	0.0	1,621	309	33	0.1
Mwanga	14,494	7,049	3,067	0.4	567	428	414	1.0	52	10	5	0.5	0	0	0	0.0
Same	28,960	15,559	13,242	0.9	3,697	1,463	3,606	2.5	88	36	4	0.1	0	0	0	0.0
Moshi Rural	30,881	9,707	17,050	1.8	2,750	2,098	2,504	1.2	0	0	0	0.0	423	109	57	0.5
Hai	10,329	3,232	7,487	2.3	608	193	651	3.4	0	0	0	0.0	87	18	35	2.0
Siha	1,751	619	566	0.9	0	0	0	0.0	0	0	0	0.0	0	0	0	0.0
Total	117,547	44,517	51,920	1.2	7,622	4,183	7,175	1.7	140	46	9	0.2	2,131	435	125	0.3

Cont Table 5.6 ANNUAL CROP AND VEGETABLE PRODUCTION: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08

	Okra				Radish				Turmeric				Bitteer Aubergine			
District	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Rombo	108	4	32	7	0	0	0	0	0	0	0	0	0	0	0	0
Mwanga	52	2	2	1	0	0	0	0	0	0	0	0	103	10	44	4
Same	88	36	0	0	0	0	0	0	0	0	0	0	88	36	106	3
Moshi Rural	212	43	423	10	0	0	0	0	0	0	0	0	0	0	0	0
Hai	347	105	221	2	0	0	0	0	0	0	0	0	174	39	130	3
Siha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	806	190	679	4	0	0	0	0	0	0	0	0	365	85	280	3

Con. Table 5.6 ANNUAL CROP AND VEGETABLE PRODUCTION: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08

District	Cassava				Sweet Potato				Irish potatoes				Yams			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Rombo	108	18	4	0	0	0	0	0	216	13	9	1	0	0	0	0
Mwanga	0	0	0	0	1496	256	337	1	52	42	5	0	155	18	9	1
Same	616	187	64	0	880	111	121	1	1496	279	285	1	0	0	0	0
Moshi Rural	0	0	0	0	0	0	0	0	0	0	0	0	423	10	25	2
Hai	260	84	12	0	694	42	40	1	0	0	0	0	87	3	0	0
Siha	63	13	1	0	0	0	0	0	188	177	120	1	0	0	0	0
Total	1047	301	82	0	3070	409	497	1	1952	511	419	1	665	31	35	1

Cont. Table5.6 ANNUAL CROP AND VEGETABLE PRODUCTION: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08

District	Coco Yam				Mung Bean				Beans				Cowpeas			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Rombo	108	0	0	0	0	0	0	0	22700	4351	1646	0	4864	674	104	0
Mwanga	928	68	65	1	0	0	0	0	8562	1817	493	0	671	185	17	0
Same	88	9	9	1	0	0	0	0	17781	6651	2730	0	176	82	40	0
Moshi Rural	4865	314	289	1	212	4	13	3	21574	4348	3302	1	0	0	0	0
Hai	87	3	0	0	0	0	0	0	8940	1670	994	1	174	13	10	1
Siha	0	0	0	0	188	58	10	0	5252	1846	414	0	0	0	0	0
Total	6076	395	363	1	399	62	22	0	84811	20682	9580	0	5885	955	172	0

Cont. Table 5.6 ANNUAL CROP AND VEGETABLE PRODUCTION: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08

District	Green gram				Chick peas				Bambaranuts				Field Peas			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Rombo	1,730	211	20	0	0	0	0	0	0	0	0	0	0	0	0	0
Mwanga	155	56	5	0	0	0	0	0	0	0	0	0	0	0	0	0
Same	88	18	7	0	0	0	0	0	0	0	0	0	0	0	0	0
Moshi Rural	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hai	0	0	0	0	0	0	0	0	0	0	0	0	1,042	51	23	0
Siha	0	0	0	0	0	0	0	0	0	0	0	0	63	6	8	1
Total	1,972	286	32	0	0	0	0	0	0	0	0	0	1,104	56	31	1

Cont. 5.6 ANNUAL CROP AND VEGETABLE PRODUCTION: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08

District	Sunflower				Simsim				Groundnut				Soya Beans			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Rombo	5837	1016	201	0	108	7	0	0	3351	599	28	0	0	0	0	0
Mwanga	877	358	58	0	0	0	0	0	52	10	5	0	0	0	.0	.0
Same	528	107	49	0	0	0	0	0	264	53	40	1	0	0	0	0
Moshi Rural	3173	937	221	0	0	0	0	0	0	0	0	0	0	0	0	0
Hai	174	105	17	0	0	0	0	0	0	0	0	0	0	0	0	0
Siha	438	47	27	1	0	0	0	0	0	0	0	0	0	0	0	0
Total	11026	2570	574	0	108	7	0	0	3667	663	72	0	0	0	0	0

Cont. 5.6 ANNUAL CROP AND VEGETABLE PRODUCTION: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08

District	Amaranths				Chillies				Onion				Ginger			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Rombo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mwanga	0	0	.00	.00	155	32	70	2	52	10	0	0	0	0	0	0
Same	264	27	7.92	.30	176	27	75	3	1056	258	399	2	2113	634	2368	4
Moshi Rural	212	11	20.09	1.81	0	0	0	0	0	0	0	0	0	0	0	0
Hai	1,128	84	156.59	1.86	1,128	113	368	3	955	211	820	4	0	0	0	0
Siha	125	14	126.93	9.12	125	19	71	4	0	0	0	0	0	0	0	0
Total	1,729	136	311.53	2.29	1,584	191	584	3	2063	480	1219	3	2113	634	2368	4

Cont. 5.6 ANNUAL CROP AND VEGETABLE PRODUCTION: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08

District	Cabbage				Tomatoes				Spinach				Carrot			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Rombo	0	0	.00	.00	0	0	0	0	0	0	0	0	0	0	.00	.00
Mwanga	103	10	116	11	309	52	414	8	0	0	0	0	0	0	0	0
Same	88	9	9	1	880	157	924	6	88	18	22	1	0	0	0	0
Moshi Rural	0	0	0	0	0	0	0	0	635	50	47	1	0	0	0	0
Hai	521	71	158	2	1215	244	1360	6	608	41	202	5	434	79	489	6
Siha	63	13	40	3	313	68	1193	17	0	0	0	0	63	8	0	0
Total	775	103	323	3	2718	522	3890	7	1330	108	270	2	497	87	489	6

Cont. 5.6 ANNUAL CROP AND VEGETABLE PRODUCTION: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08

District	Pumpkins				Cucumber				Egg Plant				Water Mellon			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Rombo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mwanga	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Same	0	0	0	0	0	0	0	0	0	0	0	0	176	71	65	1
Moshi Rural	212	21	25	1	0	0	0	0	0	0	0	0	0	0	0	0
Hai	0	0	0	0	521	78	351	5	0	0	0	0	0	0	0	0
Siha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	212	21	25	1	521	78	351	5	0	0	0	0	176	71	65	1

Cont. 5.6 ANNUAL CROP AND VEGETABLE PRODUCTION: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08

District	Cotton				Tobacco				Pyrethrum				Jute			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Rombo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mwanga	0	0	.0	.0	52	10	12.9	1.2	0	0	0	0	0	0	0	0
Same	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Moshi Rural	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hai	0	0	0	0	0	0	.0	.0	0	0	0	0	0	0	0	0
Siha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	52	10	12.9	1.2	0	0	0	0	0	0	.00	.00

Cont. 5.6 ANNUAL CROP AND VEGETABLE PRODUCTION: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08

District	Malay			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Rombo	0	0	0	0
Mwanga	0	0	0	0
Same	0	0	0	0
Moshi Rural	0	0	0	0
Hai	0	0	0	0
Siha	0	0	0	0
Total	0	0	0	0

5.6 ANNUAL CROP AND VEGETABLE PRODUCTION: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Long Rainy SEASON Agricultural Year 2007/08

District	Maize				Paddy				Sorghum				Finger Millet			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Rombo	14,269	3,124	1,415	0.5	0	0	0	0.0	0	0	0	0.0	6,161	1,548	227	0.1
Mwanga	13,360	6,429	4,210	0.7	516	240	275	1.1	0	0	0	0.0	0	0	0	0.0
Same	10,035	5,236	4,454	0.9	616	223	632	2.8	0	0	0	0.0	0	0	0	0.0
Moshi Rural	41,245	23,035	39,882	1.7	423	107	173	1.6	635	86	37	0.4	635	66	24	0.4
Hai	27,515	12,265	26,062	2.1	608	193	543	2.8	0	0	0	0.0	0	0	0	0.0
Siha	18,821	13,325	22,196	1.7	63	20	31	1.5	0	0	0	0.0	438	89	46	0.5
Total	125,244	63,414	98,219	1.5	2,225	783	1,655	2.1	635	86	37	0.4	7,234	1,702	298	0.2

Cont 5.6 ANNUAL CROP AND VEGETABLE PRODUCTION: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Long Rainy SEASON Agricultural Year 2007/08

	Okra				Radish				Turmeric				Bitteer Aubergine			
District	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Rombo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mwanga	52	4	4	1	0	0	0	0	0	0	0	0	0	0	0	0
Same	0	0	0	0	0	0	0	0	0	0	0	0	176	18	91	5
Moshi Rural	212	21	317	15	0	0	0	0	0	0	0	0	0	0	0	0
Hai	174	70	330	5	0	0	0	0	0	0	0	0	174	21	52	2
Siha	63	25	38	1	63	25	16	1	63	6	4	1	0	0	0	0
Total	499	121	688	6	63	25	16	1	63	6	4	1	350	39	143	4

Con. 5.6 ANNUAL CROP AND VEGETABLE PRODUCTION: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Long Rainy SEASON Agricultural Year 2007/08

	Cassava				Sweet Potato				Irish potatoes				Yams			
District	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Rombo	0	0	0	0	0	0	0	0	757	219	1,124	5	0	0	0	0
Mwanga	52	10	10	1	309	39	42	1	0	0	0	0	155	5	11	2
Same	88	36	3	0	264	36	62	2	968	196	178	1	0	0	0	0
Moshi Rural	423	35	6	0	0	0	0	0	0	0	0	0	0	0	0	0
Hai	0	0	0	0	0	0	0	0	0	0	0	0	87	3	0	0
Siha	0	0	0	0	0	0	0	0	125	101	46	0	63	9	3	0
Total	563	81	19	0	574	75	103	1	1,850	516	1,348	3	304	17	14	1

Cont. 5.6 ANNUAL CROP AND VEGETABLE PRODUCTION: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Long Rainy SEASON Agricultural Year 2007/08

District	Coco Yam				Mung Bean				Beans				Cowpeas			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Rombo	0	0	0	0	0	0	0	0	17728	5048	3180	1	4864	998	197	0
Mwanga	361	25	26	1	0	0	0	0	9543	2569	1228	0	774	255	33	0
Same	88	18	12	1	88	36	44	1	16725	5833	1886	0	264	146	22	0
Moshi Rural	1692	101	52	1	0	0	0	0	20728	4019	2755	1	0	0	0	0
Hai	87	3	0	0	0	0	0	0	21353	4437	3148	1	0	0	0	0
Siha	0	0	0	0	0	0	0	0	13318	3710	2376	1	0	0	0	0
Total	2228	147	91	1	88	36	44	1	99394	25616	14573	1	5902	1399	252	0

Cont.5.6 ANNUAL CROP AND VEGETABLE PRODUCTION: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Long Rainy SEASON Agricultural Year 2007/08

District	Green gram				Chick peas				Bambaranuts				Field Peas			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Rombo	973	165	15	0	0	0	0	0	0	0	0	0	0	0	0	0
Mwanga	103	22	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Same	88	36	9	0	0	0	0	0	0	0	0	0	0	0	0	0
Moshi Rural	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hai	434	176	135	1	0	0	0	0	0	0	0	0	87	2	1	0
Siha	0	0	0	0	0	0	0	0	0	0	0	0	125	30	6	0
Total	1,598	397	160	0	0	0	0	0	0	0	0	0	212	32	6	0

Cont. 5.6 ANNUAL CROP AND VEGETABLE PRODUCTION: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Long Rainy SEASON Agricultural Year 2007/08

District	Sunflower				Simsim				Groundnut				Soya Beans			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Rombo	4756	786	123	0	0	0	0	0	3135	581	106	0	0	0	0	0
Mwanga	567	245	48	0	0	0	0	0	52	21	14	1	0	0	.0	.0
Same	352	160	27	0	0	0	0	0	264	45	36	1	0	0	0	0
Moshi Rural	6768	1227	721	1	0	0	0	0	846	278	178	1	0	0	0	0
Hai	5208	568	484	1	87	9	0	0	0	0	0	0	0	0	0	0
Siha	3939	964	612	1	0	0	0	0	0	0	0	0	0	0	0	0
Total	21591	3951	2016	1	87	9	0	0	4296	924	334	0	0	0	0	0

Cont. 5.6 ANNUAL CROP AND VEGETABLE PRODUCTION: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Long Rainy SEASON Agricultural Year 2007/08

District	Amaranths				Chillies				Onion				Ginger			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Rombo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mwanga	0	0	0	0	52	4	5	1	0	0	0	0	52	5	21	4
Same	528	53	107	2	0	0	0	0	176	18	12	1	352	169	99	1
Moshi Rural	212	13	6	0	1,058	128	696	5	0	0	0	0	0	0	0	0
Hai	694	311	117	0	87	9	0	0	0	0	0	0	0	0	0	0
Siha	63	6	50	8	63	13	38	3	0	0	0	0	0	0	0	0
Total	1,497	384	280	1	1,258	154	739	5	176	18	12	1	404	174	119	1

Cont. 5.6 ANNUAL CROP AND VEGETABLE PRODUCTION: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Long Rainy SEASON Agricultural Year 2007/08

District	Cabbage				Tomatoes				Spinach				Carrot			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Rombo	0	0	.00	.00	0	0	0	0	0	0	0	0	0	0	.00	.00
Mwanga	206	19	306	16	206	54	3655	67	0	0	0	0	0	0	0	0
Same	176	14	32	2	1496	241	1190	5	88	9	24	3	176	14	17	1
Moshi Rural	0	0	0	0	2115	238	6684	28	635	81	79	1	0	0	0	0
Hai	174	14	39	3	608	114	112	1	434	114	6	0	0	0	0	0
Siha	125	63	790	12	250	76	2026	27	63	10	8	1	125	22	128	6
Total	681	110	1166	11	4676	723	13667	19	1219	214	116	1	301	36	145	4

Cont. 5.6 ANNUAL CROP AND VEGETABLE PRODUCTION: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Long Rainy SEASON Agricultural Year 2007/08

District	Pumpkins				Cucumber				Egg Plant				Water Mellon			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Rombo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mwanga	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Same	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Moshi Rural	0	0	0	0	212	10	68	7	0	0	0	0	0	0	0	0
Hai	0	0	0	0	347	70	107	2	260	38	3	0	87	18	87	5
Siha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	559	81	174	2	260	38	3	0	87	18	87	5

Cont. 5.6 ANNUAL CROP AND VEGETABLE PRODUCTION: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Long Rainy SEASON Agricultural Year 2007/08

District	Cotton				Tobacco				Pyrethrum				Jute			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Rombo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mwanga	0	0	.0	.0	52	3	1.0	.4	0	0	0	0	0	0	0	0
Same	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Moshi Rural	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hai	0	0	0	0	174	18	3.9	.2	0	0	0	0	0	0	0	0
Siha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	225	20	4.9	0.2	0	0	0	0	0	0	.00	.00

Cont. 5.6 ANNUAL CROP AND VEGETABLE PRODUCTION: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Long Rainy SEASON Agricultural Year 2007/08

District	Malay			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Rombo	0	0	0	0
Mwanga	0	0	0	0
Same	0	0	0	0
Moshi Rural	0	0	0	0
Hai	0	0	0	0
Siha	0	0	0	0
Total	0	0	0	0

5.9 TOTAL ANNUAL CROP AND VEGETABLE PRODUCTION: 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)		
Rombo	32,537	15,553	24,862	12,468	28,021	55.51
Mwanga	16,145	10,426	15,681	9,951	20,377	51.17
Same	34,154	25,828	22,622	12,534	38,362	67.33
Moshi Rural	35,323	17,652	42,303	29,447	47,098	37.48
Hai	15,537	6,479	28,557	18,452	24,931	25.99
Siha	6,253	2,887	18,196	18,496	21,383	13.50
Total	139,948	78,824	152,220	101,347	180,171	43.75

5.10 TOTAL ANNUAL CROP AND VEGETABLE PRODUCTION: 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	
Rombo	32,537	11,242	24,862	18,917	43,779
Mwanga	16,145	4,745	15,681	5,210	20,890
Same	34,154	1,496	22,622	13,028	35,650
Moshi Rural	35,323	50,340	42,303	43,360	85,663
Hai	15,537	19,617	28,557	6,597	35,154
Siha	6,253	15,319	18,196	3,376	21,572
Total	139,948	102,760	152,220	90,488	242,708

5.11 TOTAL ANNUAL CROP AND VEGETABLE PRODUCTION: Number of Agriculture Households by Area Planted (ha) and crop for the agriculture year 2007/08 Short and Long Season - KILIMANJARO

Rombo

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	31,132	8,351	14,269	3,124	45,400	11,475
Paddy	0	0	0	0	0	0
Sorghum	0	0	0	0	0	0
Finger Millet	1,621	309	6,161	1,548	7,783	1,856
CEREALS		8,660		4,672		13,332
Cassava	108	18	0	0	108	18
Sweet Potato	0	0	0	0	0	0
Irish potatoes	216	13	757	219	973	232
Yams	0	0	0	0	0	0
Coco Yam	108	0	0	0	108	0
ROOTS & TUBERS		31		219		250
Mung Bean	0	0	0	0	0	0
Beans	22,700	4,351	17,728	5,048	40,428	9,399
Cowpeas	4,864	674	4,864	998	9,729	1,672
Green gram	1,730	211	973	165	2,702	376
Field Peas	0	0	0	0	0	0
PULSES		5,237		6,210		11,447
Sunflower	5,837	1,016	4,756	786	10,593	1,802
Simsim	108	7	0	0	108	7
Groundnut	3,351	599	3,135	581	6,486	1,179
OIL SEEDS & OIL NUTS		1,621		1,367		2,988
Okra	108	4	0	0	108	4
Radish	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	0	0	0
Onion	0	0	0	0	0	0
Ginger	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0
Tomatoes	0	0	0	0	0	0
Spinach	0	0	0	0	0	0
Carrot	0	0	0	0	0	0
Chillies	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0
FRUITS & VEGETABLES		4		0		4
Tobacco	0	0	0	0	0	0
CASH CROPS		0		0		0
Total		15,553		12,468		28,021

5.13 TOTAL ANNUAL CROP AND VEGETABLE PRODUCTION: Number of Agriculture Households by Area Planted (ha) and crop for the agriculture year 2007/08 Short and Long Season - KILIMANJARO

Mwanga

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	14494	7049	13360	6429	27854	13478
Paddy	567	428	516	240	1083	668
Sorghum	52	10	0	0	52	10
Finger Millet	0	0	0	0	0	0
CEREALS		7487		6669		14156
Cassava	0	0	52	10	52	10
Sweet Potato	1496	256	309	39	1805	295
Irish potatoes	52	42	0	0	52	42
Yams	155	18	155	5	309	23
Coco Yam	928	68	361	25	1290	94
ROOTS & TUBERS		384		80		464
Mung Bean	0	0	0	0	0	0
Beans	8562	1817	9543	2569	18105	4387
Cowpeas	671	185	774	255	1444	440
Green gram	155	56	103	22	258	78
Field Peas	0	0	0	0	0	0
PULSES		2059		2846		4905
Sunflower	877	358	567	245	1444	603
Simsim	0	0	0	0	0	0
Groundnut	52	10	52	21	103	31
OIL SEEDS & OIL NUTS		368		266		635
Okra	52	2	52	4	103	6
Radish	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0
Bitteer Aubergine	103	10	0	0	103	10
Onion	52	10	0	0	52	10
Ginger	0	0	52	5	52	5
Cabbage	103	10	206	19	309	29
Tomatoes	309	52	206	54	516	107
Spinach	0	0	0	0	0	0
Carrot	0	0	0	0	0	0
Chillies	155	32	52	4	206	36
Amaranths	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0
FRUITS & VEGETABLES		117		87		204
Tobacco	52	10	52	3	103	13
CASH CROPS		10		3		13
Total		10426		9951		20377

5.13 TOTAL ANNUAL CROP AND VEGETABLE PRODUCTION: Number of Agriculture Households by Area Planted (ha) and crop for the agriculture year 2007/08 Short and Long Season - KILIMANJARO

Same

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	28960	15559	10035	5236	38995	20796
Paddy	3697	1463	616	223	4313	1686
Sorghum	88	36	0	0	88	36
Finger Millet	0	0	0	0	0	0
CEREALS		17058		5459		22517
Cassava	616	187	88	36	704	223
Sweet Potato	880	111	264	36	1144	146
Irish potatoes	1496	279	968	196	2465	475
Yams	0	0	0	0	0	0
Coco Yam	88	9	88	18	176	27
ROOTS & TUBERS		586		285		871
Mung Bean	0	0	88	36	88	36
Beans	17781	6651	16725	5833	34506	12483
Cowpeas	176	82	264	146	440	228
Green gram	88	18	88	36	176	53
Field Peas	0	0	0	0	0	0
PULSES		6750		6050		12801
Sunflower	528	107	352	160	880	267
Simsim	0	0	0	0	0	0
Groundnut	264	53	264	45	528	98
OIL SEEDS & OIL NUTS		160		205		365
Okra	88	36	0	0	88	36
Radish	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0
Bitteer Aubergine	88	36	176	18	264	53
Onion	1056	258	176	18	1232	276
Ginger	2113	634	352	169	2465	804
Cabbage	88	9	176	14	264	22
Tomatoes	880	157	1496	241	2377	397
Spinach	88	18	88	9	176	27
Carrot	0	0	176	14	176	14
Chillies	176	27	0	0	176	27
Amaranths	264	27	528	53	792	80
Pumpkins	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0
Water Mellon	176	71	0	0	176	71
FRUITS & VEGETABLES		1272		535		1807
Tobacco	0	0	0	0	0	0
CASH CROPS		0		0		0
Total		25828		12534		38362

5.13 TOTAL ANNUAL CROP AND VEGETABLE PRODUCTION: Number of Agriculture Households by Area Planted (ha) and crop for the agriculture year 2007/08 Short and Long Season - KILIMANJARO

Moshi 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	30881	9707	41245	23035	72126	32742
Paddy	2750	2098	423	107	3173	2205
Sorghum	0	0	635	86	635	86
Finger Millet	423	109	635	66	1058	175
CEREALS		11913		23294		35207
Cassava	0	0	423	35	423	35
Sweet Potato	0	0	0	0	0	0
Irish potatoes	0	0	0	0	0	0
Yams	423	10	0	0	423	10
Coco Yam	4865	314	1692	101	6557	415
ROOTS & TUBERS		325		136		461
Mung Bean	212	4	0	0	212	4
Beans	21574	4348	20728	4019	42303	8366
Cowpeas	0	0	0	0	0	0
Green gram	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0
PULSES		4352		4019		8371
Sunflower	3173	937	6768	1227	9941	2164
Simsim	0	0	0	0	0	0
Groundnut	0	0	846	278	846	278
OIL SEEDS & OIL NUTS		937		1505		2442
Okra	212	43	212	21	423	64
Radish	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	0	0	0
Onion	0	0	0	0	0	0
Ginger	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0
Tomatoes	0	0	2115	238	2115	238
Spinach	635	50	635	81	1269	131
Carrot	0	0	0	0	0	0
Chillies	0	0	1058	128	1058	128
Amaranths	212	11	212	13	423	24
Pumpkins	212	21	0	0	212	21
Cucumber	0	0	212	10	212	10
Egg Plant	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0
FRUITS & VEGETABLES		125		492		617
Tobacco	0	0	0	0	0	0
CASH CROPS		0		0		0
Total		17652		29447		47098

5.13 TOTAL ANNUAL CROP AND VEGETABLE PRODUCTION: Number of Agriculture Households by Area Planted (ha) and crop for the agriculture year 2007/08 Short and Long Season - KILIMANJARO
Hai

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	10329	3232	27515	12265	37844	15497
Paddy	608	193	608	193	1215	387
Sorghum	0	0	0	0	0	0
Finger Millet	87	18	0	0	87	18
CEREALS		3443		12458		15901
Cassava	260	84	0	0	260	84
Sweet Potato	694	42	0	0	694	42
Irish potatoes	0	0	0	0	0	0
Yams	87	3	87	3	174	6
Coco Yam	87	3	87	3	174	6
ROOTS & TUBERS		131		6		137
Mung Bean	0	0	0	0	0	0
Beans	8940	1670	21353	4437	30293	6107
Cowpeas	174	13	0	0	174	13
Green gram	0	0	434	176	434	176
Field Peas	1042	51	87	2	1128	52
PULSES		1734		4614		6348
Sunflower	174	105	5208	568	5382	673
Simsim	0	0	87	9	87	9
Groundnut	0	0	0	0	0	0
OIL SEEDS & OIL NUTS		105		577		682
Okra	347	105	174	70	521	176
Radish	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0
Bitteer Aubergine	174	39	174	21	347	60
Onion	955	211	0	0	955	211
Ginger	0	0	0	0	0	0
Cabbage	521	71	174	14	694	86
Tomatoes	1215	244	608	114	1823	358
Spinach	608	41	434	114	1042	155
Carrot	434	79	0	0	434	79
Chillies	1128	113	87	9	1215	122
Amaranths	1128	84	694	311	1823	395
Pumpkins	0	0	0	0	0	0
Cucumber	521	78	347	70	868	148
Egg Plant	0	0	260	38	260	38
Water Mellon	0	0	87	18	87	18
FRUITS & VEGETABLES		1065		780		1845
Tobacco	0	0	174	18	174	18
CASH CROPS		0		18		18
Total		6479		18452		24931

5.13 TOTAL ANNUAL CROP AND VEGETABLE PRODUCTION: Number of Agriculture Households by Area Planted (ha) and crop for the agriculture year 2007/08 Short and Long Season - KILIMANJARO
Siha

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	1751	619	18821	13325	20572	13944
Paddy	0	0	63	20	63	20
Sorghum	0	0	0	0	0	0
Finger Millet	0	0	438	89	438	89
CEREALS		619		13434		14053
Cassava	63	13	0	0	63	13
Sweet Potato	0	0	0	0	0	0
Irish potatoes	188	177	125	101	313	278
Yams	0	0	63	9	63	9
Coco Yam	0	0	0	0	0	0
ROOTS & TUBERS		190		110		300
Mung Bean	188	58	0	0	188	58
Beans	5252	1846	13318	3710	18571	5556
Cowpeas	0	0	0	0	0	0
Green gram	0	0	0	0	0	0
Field Peas	63	6	125	30	188	36
PULSES		1909		3741		5650
Sunflower	438	47	3939	964	4377	1011
Simsim	0	0	0	0	0	0
Groundnut	0	0	0	0	0	0
OIL SEEDS & OIL NUTS		47		964		1011
Okra	0	0	63	25	63	25
Radish	0	0	63	25	63	25
Turmeric	0	0	63	6	63	6
Bitteer Aubergine	0	0	0	0	0	0
Onion	0	0	0	0	0	0
Ginger	0	0	0	0	0	0
Cabbage	63	13	125	63	188	76
Tomatoes	313	68	250	76	563	144
Spinach	0	0	63	10	63	10
Carrot	63	8	125	22	188	30
Chillies	125	19	63	13	188	32
Amaranths	125	14	63	6	188	20
Pumpkins	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0
FRUITS & VEGETABLES		122		247		369
Tobacco	0	0	0	0	0	0
CASH CROPS		0		0		0
Total		2887		18496		21383

CROP STORAGE

5.17 CROP STORAGE: Number of households Storing Crops Season and District

	SHORT RAINY SEASON					LONG RAINY SEASON					SHORT & LONG SEASON				
District	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
Rombo	24,970	77	7,567	23	32,537	18,592	75	6,270	25	24,862	43,563	76	13,836	24	57,399
Mwanga	12,018	74	4,126	26	16,145	12,431	79	3,250	21	15,681	24,449	77	7,376	23	31,826
Same	31,337	92	2,817	8	34,154	19,894	88	2,729	12	22,622	51,230	90	5,546	10	56,776
Moshi Rural	33,419	95	1,904	5	35,323	40,611	96	1,692	4	42,303	74,030	95	3,596	5	77,626
Hai	12,152	78	3,385	22	15,537	25,779	90	2,778	10	28,557	37,931	86	6,163	14	44,094
Siha	5,377	86	875	14	6,253	17,820	98	375	2	18,196	23,198	95	1,251	5	24,448
Total	119,274	85	20,674	15	139,948	135,127	89	17,093	11	152,220	254,401	87	37,767	13	292,168

5.18 CROP STORAGE: Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season - KILIMANJARO

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	3,351	10.8	2,594	8.3	216	.7	10,701	34.4	4,000	12.8	108	.3	10,053	32.3	108	.3	31,132	100.0
Paddy	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Sorghum	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Finger Millet	324	20.0	0	.0	0	.0	324	20.0	108	6.7	0	.0	865	53.3	0	.0	1,621	100.0
CEREALS	3,675	11.2	2,594	7.9	216	.7	11,026	33.7	4,108	12.5	108	.3	10,918	33.3	108	.3	32,753	100.0
Cassava	0	.0	0	.0	0	.0	108	100.0	0	.0	0	.0	0	.0	0	.0	108	100.0
Sweet Potato	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Irish potatoes	0	.0	0	.0	0	.0	108	50.0	0	.0	0	.0	108	50.0	0	.0	216	100.0
Yams	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Coco Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	108	100.0	0	.0	108	100.0
ROOTS & TUBERS	0	.0	0	.0	0	.0	216	50.0	0	.0	0	.0	216	50.0	0	.0	432	100.0
Mung Bean	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Beans	2,054	9.0	973	4.3	108	.5	8,756	38.6	2,810	12.4	0	.0	7,999	35.2	0	.0	22,700	100.0
Cowpeas	649	13.3	0	.0	0	.0	1,081	22.2	216	4.4	0	.0	2,919	60.0	0	.0	4,864	100.0
Green gram	216	12.5	108	6.3	0	.0	324	18.8	108	6.3	0	.0	973	56.3	0	.0	1,730	100.0
Field Peas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
PULSES	2,919	10.0	1,081	3.7	108	.4	10,161	34.7	3,135	10.7	0	.0	11,891	40.6	0	.0	29,294	100.0
Sunflower	1,189	20.4	108	1.9	0	.0	1,730	29.6	324	5.6	0	.0	2,486	42.6	0	.0	5,837	100.0
Simsim	108	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	108	100.0
Groundnut	432	12.9	108	3.2	0	.0	432	12.9	108	3.2	0	.0	2,270	67.7	0	.0	3,351	100.0
OIL SEEDS & OIL NUTS	1,730	18.6	216	2.3	0	.0	2,162	23.3	432	4.7	0	.0	4,756	51.2	0	.0	9,296	100.0

Cont. 5.18 CROP STORAGE: Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season - KILIMANJARO

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	0	.0	0	.0	0	.0	108	100.0	0	.0	0	.0	0	.0	0	.0	108	100.0
Radish	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Turmeric	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bitteer Aubergine	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Onion	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Ginger	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cabbage	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Tomatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Spinach	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Amaranths	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Pumpkins	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cucumber	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Egg Plant	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
FRUITS & VEGETABLES	0	.0	0	.0	0	.0	108	100.0	0	.0	0	.0	0	.0	0	.0	108	100.0
Tobacco	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
CASH CROPS	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Total	8,323	11.6	3,891	5.4	324	.5	23,673	32.9	7,675	10.7	108	.2	27,781	38.6	108	.2	71,884	100.0

5.19 CROP STORAGE: Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season - KILIMANJARO

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	3,027	21.2	216	1.5	0	.0	2,919	20.5	1,946	13.6	0	.0	6,161	43.2	0	.0	14,269	100.0
Paddy	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Sorghum	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Finger Millet	1,621	26.3	0	.0	0	.0	1,189	19.3	0	.0	0	.0	3,351	54.4	0	.0	6,161	100.0
CEREALS	4,648	22.8	216	1.1	0	.0	4,108	20.1	1,946	9.5	0	.0	9,512	46.6	0	.0	20,430	100.0
Cassava	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Sweet Potato	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Irish potatoes	0	.0	0	.0	0	.0	108	14.3	0	.0	0	.0	649	85.7	0	.0	757	100.0
Yams	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Coco Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
ROOTS & TUBERS	0	.0	0	.0	0	.0	108	14.3	0	.0	0	.0	649	85.7	0	.0	757	100.0
Mung Bean	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Beans	1,946	11.0	324	1.8	0	.0	7,026	39.6	3,351	18.9	0	.0	5,080	28.7	0	.0	17,728	100.0
Cowpeas	108	2.2	0	.0	0	.0	2,054	42.2	324	6.7	0	.0	2,378	48.9	0	.0	4,864	100.0
Green gram	0	.0	0	.0	0	.0	324	33.3	108	11.1	0	.0	540	55.6	0	.0	973	100.0
Field Peas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
PULSES	2,054	8.7	324	1.4	0	.0	9,404	39.9	3,783	16.1	0	.0	7,999	33.9	0	.0	23,565	100.0
Sunflower	865	18.2	0	.0	0	.0	1,405	29.5	108	2.3	0	.0	2,378	50.0	0	.0	4,756	100.0
Simsim	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Groundnut	432	13.8	0	.0	0	.0	540	17.2	0	.0	0	.0	2,162	69.0	0	.0	3,135	100.0
OIL SEEDS & OIL NUTS	1,297	16.4	0	.0	0	.0	1,946	24.7	108	1.4	0	.0	4,540	57.5	0	.0	7,891	100.0

5.19 CROP STORAGE: Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season - KILIMANJARO

	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
Crop	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Radish	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Turmeric	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bitteer Aubergine	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Onion	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Ginger	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cabbage	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Tomatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Spinach	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Amaranths	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Pumpkins	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cucumber	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Egg Plant	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
FRUITS & VEGETABLES	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Tobacco	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
CASH CROPS	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Total	7,999	15.2	540	1.0	0	.0	15,566	29.6	5,837	11.1	0	.0	22,700	43.1	0	.0	52,643	100.0

5.20 CROP STORAGE: Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season, KILIMANJARO

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	1,599	11.0	1,032	7.1	52	.4	3,198	22.1	2,837	19.6	206	1.4	5,571	38.4	0	.0	14,494	100.0
Paddy	0	.0	413	72.7	0	.0	103	18.2	0	.0	0	.0	52	9.1	0	.0	567	100.0
Sorghum	0	.0	52	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	52	100.0
Finger Millet	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
CEREALS	1,599	10.6	1,496	9.9	52	.3	3,301	21.8	2,837	18.8	206	1.4	5,622	37.2	0	.0	15,113	100.0
Cassava	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Sweet Potato	0	.0	52	3.4	206	13.8	413	27.6	52	3.4	0	.0	774	51.7	0	.0	1,496	100.0
Irish potatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	52	100.0	0	.0	52	100.0
Yams	52	33.3	0	.0	0	.0	0	.0	0	.0	0	.0	103	66.7	0	.0	155	100.0
Coco Yam	0	.0	103	11.1	103	11.1	52	5.6	0	.0	0	.0	671	72.2	0	.0	928	100.0
ROOTS & TUBERS	52	2.0	155	5.9	309	11.8	464	17.6	52	2.0	0	.0	1,599	60.8	0	.0	2,631	100.0
Mung Bean	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Beans	1,341	15.7	413	4.8	206	2.4	1,909	22.3	1,341	15.7	0	.0	3,353	39.2	0	.0	8,562	100.0
Cowpeas	52	7.7	52	7.7	0	.0	309	46.2	52	7.7	0	.0	206	30.8	0	.0	671	100.0
Green gram	52	33.3	0	.0	0	.0	103	66.7	0	.0	0	.0	0	.0	0	.0	155	100.0
Field Peas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
PULSES	1,444	15.4	464	4.9	206	2.2	2,321	24.7	1,393	14.8	0	.0	3,559	37.9	0	.0	9,388	100.0
Sunflower	52	5.9	361	41.2	0	.0	0	.0	0	.0	0	.0	413	47.1	52	5.9	877	100.0
Simsim	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Groundnut	0	.0	0	.0	0	.0	0	.0	52	100.0	0	.0	0	.0	0	.0	52	100.0
OIL SEEDS & OIL NUTS	52	5.6	361	38.9	0	.0	0	.0	52	5.6	0	.0	413	44.4	52	5.6	928	100.0

Cont….

Cont. 5.20 CROP STORAGE: Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season, KILIMANJARO

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	0	.0	0	.0	0	.0	0	.0	52	100.0	0	.0	0	.0	0	.0	52	100.0
Radish	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Turmeric	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bitteer Aubergine	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	103	100.0	0	.0	103	100.0
Onion	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	52	100.0	0	.0	52	100.0
Ginger	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cabbage	0	.0	52	50.0	0	.0	0	.0	0	.0	0	.0	52	50.0	0	.0	103	100.0
Tomatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	309	100.0	0	.0	309	100.0
Spinach	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	155	100.0	0	.0	155	100.0
Amaranths	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Pumpkins	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cucumber	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Egg Plant	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
FRUITS & VEGETABLES	0	.0	52	6.7	0	.0	0	.0	52	6.7	0	.0	671	86.7	0	.0	774	100.0
Tobacco	0	.0	0	.0	0	.0	0	.0	52	100.0	0	.0	0	.0	0	.0	52	100.0
CASH CROPS	0	.0	0	.0	0	.0	0	.0	52	100.0	0	.0	0	.0	0	.0	52	100.0
Total	3,146	10.9	2,527	8.7	567	2.0	6,087	21.1	4,436	15.4	206	.7	11,864	41.1	52	.2	28,885	100.0
FRUITS & VEGETABLES	7,730	58.3	900	6.8	49	.4	349	2.6	32	.2	32	.2	3,866	29.1	306	2.3	13,262	100.0

5.21 CROP STORAGE: Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season, KILIMANJARO

	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
Crop	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Maize	1,186	8.9	825	6.2	103	.8	4,488	33.6	2,889	21.6	103	.8	3,765	28.2	0	.0	13,360	100.0
Paddy	103	20.0	309	60.0	0	.0	103	20.0	0	.0	0	.0	0	.0	0	.0	516	100.0
Sorghum	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Finger Millet	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
CEREALS	1,290	9.3	1,135	8.2	103	.7	4,591	33.1	2,889	20.8	103	.7	3,765	27.1	0	.0	13,875	100.0
Cassava	0	.0	52	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	52	100.0
Sweet Potato	52	16.7	0	.0	103	33.3	103	33.3	0	.0	0	.0	52	16.7	0	.0	309	100.0
Irish potatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Yams	52	33.3	0	.0	0	.0	0	.0	0	.0	0	.0	103	66.7	0	.0	155	100.0
Coco Yam	52	14.3	0	.0	0	.0	52	14.3	0	.0	0	.0	258	71.4	0	.0	361	100.0
ROOTS & TUBERS	155	17.6	52	5.9	103	11.8	155	17.6	0	.0	0	.0	413	47.1	0	.0	877	100.0
Mung Bean	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Beans	928	9.7	413	4.3	206	2.2	3,404	35.7	1,857	19.5	0	.0	2,734	28.6	0	.0	9,543	100.0
Cowpeas	0	.0	0	.0	0	.0	206	26.7	206	26.7	0	.0	361	46.7	0	.0	774	100.0
Green gram	0	.0	0	.0	0	.0	52	50.0	0	.0	0	.0	52	50.0	0	.0	103	100.0
Field Peas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
PULSES	928	8.9	413	4.0	206	2.0	3,662	35.1	2,063	19.8	0	.0	3,146	30.2	0	.0	10,419	100.0
Sunflower	0	.0	155	27.3	0	.0	155	27.3	0	.0	0	.0	258	45.5	0	.0	567	100.0
Simsim	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Groundnut	0	.0	0	.0	0	.0	52	100.0	0	.0	0	.0	0	.0	0	.0	52	100.0
OIL SEEDS & OIL NUTS	0	.0	155	25.0	0	.0	206	33.3	0	.0	0	.0	258	41.7	0	.0	619	100.0

5.21 CROP STORAGE: Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season, KILIMANJARO

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	52	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	52	100.0
Radish	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Turmeric	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bitteer Aubergine	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Onion	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Ginger	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	52	100.0	0	.0	52	100.0
Cabbage	0	.0	0	.0	0	.0	103	50.0	0	.0	0	.0	103	50.0	0	.0	206	100.0
Tomatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	206	100.0	0	.0	206	100.0
Spinach	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	52	100.0	0	.0	52	100.0
Amaranths	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Pumpkins	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cucumber	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Egg Plant	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
FRUITS & VEGETABLES	52	9.1	0	.0	0	.0	103	18.2	0	.0	0	.0	413	72.7	0	.0	567	100.0
Tobacco	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	52	100.0	0	.0	52	100.0
CASH CROPS	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	52	100.0	0	.0	52	100.0
Total	2,424	9.2	1,754	6.6	413	1.6	8,717	33.0	4,952	18.7	103	.4	8,047	30.5	0	.0	26,410	100.0

5.18 CROP STORAGE: Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season - KILIMANJARO

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	11,619	40.1	352	1.2	0	.0	9,331	32.2	3,521	12.2	528	1.8	3,609	12.5	0	.0	28,960	100.0
Paddy	0	.0	88	2.4	0	.0	3,345	90.5	0	.0	0	.0	264	7.1	0	.0	3,697	100.0
Sorghum	0	.0	0	.0	0	.0	88	100.0	0	.0	0	.0	0	.0	0	.0	88	100.0
Finger Millet	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
CEREALS	11,619	35.5	440	1.3	0	.0	12,764	39.0	3,521	10.8	528	1.6	3,873	11.8	0	.0	32,745	100.0
Cassava	264	42.9	0	.0	0	.0	0	.0	176	28.6	0	.0	176	28.6	0	.0	616	100.0
Sweet Potato	528	60.0	0	.0	0	.0	0	.0	0	.0	88	10.0	264	30.0	0	.0	880	100.0
Irish potatoes	440	29.4	176	11.8	0	.0	176	11.8	0	.0	264	17.6	352	23.5	88	5.9	1,496	100.0
Yams	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Coco Yam	88	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	88	100.0
ROOTS & TUBERS	1,320	42.9	176	5.7	0	.0	176	5.7	176	5.7	352	11.4	792	25.7	88	2.9	3,081	100.0
Mung Bean	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Beans	3,873	21.8	264	1.5	0	.0	8,098	45.5	3,257	18.3	88	.5	2,201	12.4	0	.0	17,781	100.0
Cowpeas	0	.0	0	.0	0	.0	88	50.0	0	.0	0	.0	88	50.0	0	.0	176	100.0
Green gram	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	88	100.0	0	.0	88	100.0
Field Peas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
PULSES	3,873	21.5	264	1.5	0	.0	8,186	45.4	3,257	18.0	88	.5	2,377	13.2	0	.0	18,045	100.0
Sunflower	264	50.0	88	16.7	0	.0	88	16.7	0	.0	0	.0	88	16.7	0	.0	528	100.0
Simsim	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Groundnut	176	66.7	0	.0	0	.0	88	33.3	0	.0	0	.0	0	.0	0	.0	264	100.0
OIL SEEDS & OIL NUTS	440	55.6	88	11.1	0	.0	176	22.2	0	.0	0	.0	88	11.1	0	.0	792	100.0

Cont. 5.18 CROP STORAGE: Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season - KILIMANJARO

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	88	100.0	0	.0	88	100.0
Radish	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Turmeric	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bitteer Aubergine	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	88	100.0	0	.0	88	100.0
Onion	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	1,056	100.0	0	.0	1,056	100.0
Ginger	704	33.3	0	.0	0	.0	0	.0	0	.0	0	.0	1,408	66.7	0	.0	2,113	100.0
Cabbage	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	88	100.0	0	.0	88	100.0
Tomatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	880	100.0	0	.0	880	100.0
Spinach	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	88	100.0	0	.0	88	100.0
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	176	100.0	0	.0	176	100.0
Amaranths	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	264	100.0	0	.0	264	100.0
Pumpkins	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cucumber	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Egg Plant	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	176	100.0	0	.0	176	100.0
FRUITS & VEGETABLES	704	14.0	0	.0	0	.0	0	.0	0	.0	0	.0	4,313	86.0	0	.0	5,017	100.0
Tobacco	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
CASH CROPS	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Total	17,957	30.1	968	1.6	0	.0	21,302	35.7	6,954	11.7	968	1.6	11,443	19.2	88	.1	59,681	100.0

5.19 CROP STORAGE: Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season - KILIMANJARO

	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
Crop	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Maize	1,056	10.5	176	1.8	0	0	5,722	57	616	6.1	176	1.8	2,289	22.8	0	0	10,035	100
Paddy	0	0	0	0	0	0	440	71.4	0	0	0	0	176	28.6	0	0	616	100
Sorghum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CEREALS	1,056	9.9	176	1.7	0	0	6,162	57.9	616	5.8	176	1.7	2,465	23.1	0	0	10,651	100
Cassava	88	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88	100
Sweet Potato	0	0	0	0	0	0	88	33.3	0	0	0	0	176	66.7	0	0	264	100
Irish potatoes	88	9.1	0	0	0	0	528	54.5	0	0	264	27.3	88	9.1	0	0	968	100
Yams	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coco Yam	0	0	88	100	0	0	0	0	0	0	0	0	0	0	0	0	88	100
ROOTS & TUBERS	176	12.5	88	6.3	0	0	616	43.8	0	0	264	18.8	264	18.8	0	0	1,408	100
Mung Bean	0	0	0	0	0	0	0	0	0	0	88	100	0	0	0	0	88	100
Beans	4,753	28.4	264	1.6	0	0	7,658	45.8	2,113	12.6	88	0.5	1,849	11.1	0	0	16,725	100
Cowpeas	0	0	0	0	0	0	176	66.7	0	0	0	0	88	33.3	0	0	264	100
Green gram	0	0	0	0	0	0	88	100	0	0	0	0	0	0	0	0	88	100
Field Peas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PULSES	4,753	27.7	264	1.5	0	0	7,922	46.2	2,113	12.3	176	1	1,937	11.3	0	0	17,165	100
Sunflower	0	0	0	0	0	0	176	50	0	0	0	0	176	50	0	0	352	100
Simsim	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Groundnut	176	66.7	0	0	0	0	88	33.3	0	0	0	0	0	0	0	0	264	100
OIL SEEDS & OIL NUTS	176	28.6	0	0	0	0	264	42.9	0	0	0	0	176	28.6	0	0	616	100

5.19 CROP STORAGE: Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season - KILIMANJARO

	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
Crop	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Radish	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Turmeric	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bitteer Aubergine	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	176	100.0	0	.0	176	100.0
Onion	88	50.0	0	.0	0	.0	0	.0	0	.0	0	.0	88	50.0	0	.0	176	100.0
Ginger	88	25.0	0	.0	0	.0	0	.0	0	.0	0	.0	264	75.0	0	.0	352	100.0
Cabbage	88	50.0	0	.0	0	.0	0	.0	0	.0	0	.0	88	50.0	0	.0	176	100.0
Tomatoes	88	5.9	0	.0	0	.0	88	5.9	0	.0	0	.0	1,320	88.2	0	.0	1,496	100.0
Spinach	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	88	100.0	0	.0	88	100.0
Carrot	88	50.0	0	.0	0	.0	0	.0	0	.0	0	.0	88	50.0	0	.0	176	100.0
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Amaranths	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	528	100.0	0	.0	528	100.0
Pumpkins	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cucumber	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Egg Plant	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
FRUITS & VEGETABLES	440	13.9	0	.0	0	.0	88	2.8	0	.0	0	.0	2,641	83.3	0	.0	3,169	100.0
Tobacco	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
CASH CROPS	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Total	6,602	20.0	528	1.6	0	.0	15,052	45.6	2,729	8.3	616	1.9	7,482	22.7	0	.0	33,009	100.0

5.18 CROP STORAGE: Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season - KILIMANJARO

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	423	1.4	423	1.4	212	.7	5,922	19.2	21,786	70.5	0	.0	2,115	6.8	0	.0	30,881	100.0
Paddy	0	.0	0	.0	0	.0	846	30.8	0	.0	0	.0	1,904	69.2	0	.0	2,750	100.0
Sorghum	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Finger Millet	0	.0	0	.0	0	.0	0	.0	212	50.0	0	.0	212	50.0	0	.0	423	100.0
CEREALS	423	1.2	423	1.2	212	.6	6,768	19.9	21,997	64.6	0	.0	4,230	12.4	0	.0	34,054	100.0
Cassava	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Sweet Potato	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Irish potatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Yams	423	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	423	100.0
Coco Yam	846	17.4	0	.0	0	.0	635	13.0	0	.0	1,269	26.1	2,115	43.5	0	.0	4,865	100.0
ROOTS & TUBERS	1,269	24.0	0	.0	0	.0	635	12.0	0	.0	1,269	24.0	2,115	40.0	0	.0	5,288	100.0
Mung Bean	0	.0	0	.0	0	.0	212	100.0	0	.0	0	.0	0	.0	0	.0	212	100.0
Beans	1,269	5.9	423	2.0	212	1.0	4,653	21.6	13,114	60.8	0	.0	1,904	8.8	0	.0	21,574	100.0
Cowpeas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Green gram	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Field Peas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
PULSES	1,269	5.8	423	1.9	212	1.0	4,865	22.3	13,114	60.2	0	.0	1,904	8.7	0	.0	21,786	100.0
Sunflower	0	.0	0	.0	0	.0	1,058	33.3	1,692	53.3	0	.0	423	13.3	0	.0	3,173	100.0
Simsim	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Groundnut	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
OIL SEEDS & OIL NUTS	0	.0	0	.0	0	.0	1,058	33.3	1,692	53.3	0	.0	423	13.3	0	.0	3,173	100.0

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Cont. 5.18 CROP STORAGE: Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season - KILIMANJARO

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	212	100.0	0	.0	212	100.0
Radish	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Turmeric	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bitteer Aubergine	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Onion	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Ginger	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cabbage	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Tomatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Spinach	0	.0	0	.0	0	.0	212	33.3	0	.0	0	.0	423	66.7	0	.0	635	100.0
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Amaranths	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	212	100.0	0	.0	212	100.0
Pumpkins	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	212	100.0	0	.0	212	100.0
Cucumber	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Egg Plant	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
FRUITS & VEGETABLES	0	.0	0	.0	0	.0	212	16.7	0	.0	0	.0	1,058	83.3	0	.0	1,269	100.0
Tobacco	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
CASH CROPS	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Total	2,961	4.5	846	1.3	423	.6	13,537	20.6	36,803	56.1	1,269	1.9	9,730	14.8	0	.0	65,569	100.0

5.19 CROP STORAGE: Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season - KILIMANJARO

	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
Crop	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Maize	1,058	2.6	212	.5	212	.5	9,095	22.1	28,131	68.2	0	.0	2,538	6.2	0	.0	41,245	100.0
Paddy	0	.0	0	.0	0	.0	212	50.0	0	.0	0	.0	212	50.0	0	.0	423	100.0
Sorghum	0	.0	0	.0	0	.0	212	33.3	212	33.3	0	.0	212	33.3	0	.0	635	100.0
Finger Millet	0	.0	0	.0	0	.0	212	33.3	212	33.3	0	.0	212	33.3	0	.0	635	100.0
CEREALS	1,058	2.5	212	.5	212	.5	9,730	22.7	28,554	66.5	0	.0	3,173	7.4	0	.0	42,937	100.0
Cassava	0	.0	0	.0	0	.0	0	.0	212	50.0	0	.0	212	50.0	0	.0	423	100.0
Sweet Potato	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Irish potatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Yams	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Coco Yam	635	37.5	0	.0	0	.0	212	12.5	212	12.5	0	.0	635	37.5	0	.0	1,692	100.0
ROOTS & TUBERS	635	30.0	0	.0	0	.0	212	10.0	423	20.0	0	.0	846	40.0	0	.0	2,115	100.0
Mung Bean	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Beans	635	3.1	0	.0	0	.0	6,345	30.6	11,210	54.1	0	.0	2,538	12.2	0	.0	20,728	100.0
Cowpeas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Green gram	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Field Peas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
PULSES	635	3.1	0	.0	0	.0	6,345	30.6	11,210	54.1	0	.0	2,538	12.2	0	.0	20,728	100.0
Sunflower	0	.0	0	.0	0	.0	2,538	37.5	3,596	53.1	0	.0	635	9.4	0	.0	6,768	100.0
Simsim	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Groundnut	0	.0	0	.0	0	.0	0	.0	423	50.0	0	.0	423	50.0	0	.0	846	100.0
OIL SEEDS & OIL NUTS	0	.0	0	.0	0	.0	2,538	33.3	4,019	52.8	0	.0	1,058	13.9	0	.0	7,614	100.0

5.19 CROP STORAGE: Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season - KILIMANJARO

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	212	100.0	0	.0	212	100.0
Radish	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Turmeric	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bitteer Aubergine	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Onion	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Ginger	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cabbage	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Tomatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	2,115	100.0	0	.0	2,115	100.0
Spinach	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	635	100.0	0	.0	635	100.0
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	1,058	100.0	0	.0	1,058	100.0
Amaranths	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	212	100.0	0	.0	212	100.0
Pumpkins	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cucumber	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	212	100.0	0	.0	212	100.0
Egg Plant	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
FRUITS & VEGETABLES	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	4,442	100.0	0	.0	4,442	100.0
Tobacco	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
CASH CROPS	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Total	2,327	3.0	212	.3	212	.3	18,825	24.2	44,206	56.8	0	.0	12,056	15.5	0	.0	77,837	100.0

5.18 CROP STORAGE: Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season - Hai

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	955	9.2	0	.0	87	.8	1,389	13.4	6,597	63.9	0	.0	1,215	11.8	87	.8	10,329	100.0
Paddy	0	.0	0	.0	0	.0	521	85.7	0	.0	0	.0	87	14.3	0	.0	608	100.0
Sorghum	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Finger Millet	0	.0	0	.0	0	.0	87	100.0	0	.0	0	.0	0	.0	0	.0	87	100.0
CEREALS	955	8.7	0	.0	87	.8	1,996	18.1	6,597	59.8	0	.0	1,302	11.8	87	.8	11,023	100.0
Cassava	87	33.3	0	.0	0	.0	0	.0	87	33.3	0	.0	87	33.3	0	.0	260	100.0
Sweet Potato	521	75.0	0	.0	0	.0	0	.0	87	12.5	0	.0	87	12.5	0	.0	694	100.0
Irish potatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Yams	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	87	100.0	0	.0	87	100.0
Coco Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	87	100.0	0	.0	87	100.0
ROOTS & TUBERS	608	53.8	0	.0	0	.0	0	.0	174	15.4	0	.0	347	30.8	0	.0	1,128	100.0
Mung Bean	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Beans	868	9.7	87	1.0	87	1.0	1,389	15.5	3,298	36.9	87	1.0	1,910	21.4	1,215	13.6	8,940	100.0
Cowpeas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	174	100.0	0	.0	174	100.0
Green gram	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Field Peas	608	58.3	0	.0	0	.0	0	.0	260	25.0	0	.0	174	16.7	0	.0	1,042	100.0
PULSES	1,476	14.5	87	.9	87	.9	1,389	13.7	3,559	35.0	87	.9	2,257	22.2	1,215	12.0	10,155	100.0
Sunflower	0	.0	0	.0	0	.0	87	50.0	87	50.0	0	.0	0	.0	0	.0	174	100.0
Simsim	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Groundnut	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
OIL SEEDS & OIL NUTS	0	.0	0	.0	0	.0	87	50.0	87	50.0	0	.0	0	.0	0	.0	174	100.0

Cont. 5.18 CROP STORAGE: Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season - Hai

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	87	25.0	0	.0	0	.0	0	.0	0	.0	0	.0	260	75.0	0	.0	347	100.0
Radish	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Turmeric	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bitteer Aubergine	0	.0	0	.0	0	.0	87	50.0	0	.0	0	.0	87	50.0	0	.0	174	100.0
Onion	87	9.1	0	.0	0	.0	87	9.1	0	.0	0	.0	781	81.8	0	.0	955	100.0
Ginger	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cabbage	87	16.7	0	.0	0	.0	87	16.7	0	.0	0	.0	347	66.7	0	.0	521	100.0
Tomatoes	87	7.1	87	7.1	0	.0	87	7.1	0	.0	0	.0	955	78.6	0	.0	1,215	100.0
Spinach	87	14.3	0	.0	0	.0	0	.0	87	14.3	0	.0	434	71.4	0	.0	608	100.0
Carrot	0	.0	0	.0	0	.0	87	20.0	0	.0	0	.0	347	80.0	0	.0	434	100.0
Chillies	0	.0	0	.0	0	.0	87	7.7	0	.0	0	.0	1,042	92.3	0	.0	1,128	100.0
Amaranths	87	7.7	0	.0	0	.0	0	.0	0	.0	0	.0	1,042	92.3	0	.0	1,128	100.0
Pumpkins	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cucumber	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	521	100.0	0	.0	521	100.0
Egg Plant	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
FRUITS & VEGETABLES	521	7.4	87	1.2	0	.0	521	7.4	87	1.2	0	.0	5,816	82.7	0	.0	7,031	100.0
Tobacco	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
CASH CROPS	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Total	3,559	12.1	174	.6	174	.6	3,993	13.5	10,503	35.6	87	.3	9,721	32.9	1,302	4.4	29,512	100.0

5.19 CROP STORAGE: Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season - Hai

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	2,430	8.8	87	.3	0	.0	5,729	20.8	15,711	57.1	174	.6	3,298	12.0	87	.3	27,515	100.0
Paddy	0	.0	0	.0	0	.0	608	100.0	0	.0	0	.0	0	.0	0	.0	608	100.0
Sorghum	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Finger Millet	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
CEREALS	2,430	8.6	87	.3	0	.0	6,336	22.5	15,711	55.9	174	.6	3,298	11.7	87	.3	28,123	100.0
Cassava	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Sweet Potato	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Irish potatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Yams	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	87	100.0	0	.0	87	100.0
Coco Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	87	100.0	0	.0	87	100.0
ROOTS & TUBERS	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	174	100.0	0	.0	174	100.0
Mung Bean	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Beans	1,910	8.9	174	.8	0	.0	5,555	26.0	8,854	41.5	87	.4	3,385	15.9	1,389	6.5	21,353	100.0
Cowpeas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Green gram	0	.0	0	.0	0	.0	434	100.0	0	.0	0	.0	0	.0	0	.0	434	100.0
Field Peas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	87	100.0	0	.0	87	100.0
PULSES	1,910	8.7	174	.8	0	.0	5,989	27.4	8,854	40.5	87	.4	3,472	15.9	1,389	6.3	21,873	100.0
Sunflower	347	6.7	0	.0	0	.0	2,430	46.7	608	11.7	0	.0	1,389	26.7	434	8.3	5,208	100.0
Simsim	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	87	100.0	0	.0	87	100.0
Groundnut	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
OIL SEEDS & OIL NUTS	347	6.6	0	.0	0	.0	2,430	45.9	608	11.5	0	.0	1,476	27.9	434	8.2	5,295	100.0

5.19 CROP STORAGE: Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season - Hai

	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
Crop	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	174	100.0	0	.0	174	100.0
Radish	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Turmeric	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bitteer Aubergine	0	.0	0	.0	0	.0	87	50.0	0	.0	0	.0	87	50.0	0	.0	174	100.0
Onion	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Ginger	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cabbage	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	174	100.0	0	.0	174	100.0
Tomatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	608	100.0	0	.0	608	100.0
Spinach	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	434	100.0	0	.0	434	100.0
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	87	100.0	0	.0	87	100.0
Amaranths	0	.0	0	.0	0	.0	0	.0	87	12.5	87	12.5	521	75.0	0	.0	694	100.0
Pumpkins	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cucumber	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	347	100.0	0	.0	347	100.0
Egg Plant	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	260	100.0	0	.0	260	100.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	87	100.0	0	.0	87	100.0
FRUITS & VEGETABLES	0	.0	0	.0	0	.0	87	2.9	87	2.9	87	2.9	2,778	91.4	0	.0	3,038	100.0
Tobacco	87	50.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	87	50.0	174	100.0
CASH CROPS	87	50.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	87	50.0	174	100.0
Total	4,774	8.1	260	.4	0	.0	14,843	25.3	25,259	43.0	347	.6	11,197	19.1	1,996	3.4	58,676	100.0

5.22 CROP STORAGE: Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season, Hai

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	188	10.7	0	.0	0	.0	688	39.3	688	39.3	0	.0	188	10.7	0	.0	1,751	100.0
Paddy	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Sorghum	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Finger Millet	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
CEREALS	188	10.7	0	.0	0	.0	688	39.3	688	39.3	0	.0	188	10.7	0	.0	1,751	100.0
Cassava	0	.0	0	.0	0	.0	63	100.0	0	.0	0	.0	0	.0	0	.0	63	100.0
Sweet Potato	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Irish potatoes	0	.0	0	.0	0	.0	63	33.3	0	.0	0	.0	125	66.7	0	.0	188	100.0
Yams	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Coco Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
ROOTS & TUBERS	0	.0	0	.0	0	.0	125	50.0	0	.0	0	.0	125	50.0	0	.0	250	100.0
Mung Bean	0	.0	0	.0	0	.0	125	66.7	63	33.3	0	.0	0	.0	0	.0	188	100.0
Beans	563	10.7	250	4.8	0	.0	2,126	40.5	1,125	21.4	0	.0	1,188	22.6	0	.0	5,252	100.0
Cowpeas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Green gram	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Field Peas	0	.0	0	.0	0	.0	63	100.0	0	.0	0	.0	0	.0	0	.0	63	100.0
PULSES	563	10.2	250	4.5	0	.0	2,314	42.0	1,188	21.6	0	.0	1,188	21.6	0	.0	5,502	100.0
Sunflower	125	28.6	0	.0	0	.0	125	28.6	125	28.6	0	.0	63	14.3	0	.0	438	100.0
Simsim	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Groundnut	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
OIL SEEDS & OIL NUTS	125	28.6	0	.0	0	.0	125	28.6	125	28.6	0	.0	63	14.3	0	.0	438	100.0

Cont. 5.22 CROP STORAGE: Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season, Hai

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Radish	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Turmeric	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bitteer Aubergine	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Onion	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Ginger	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cabbage	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	63	100.0	0	.0	63	100.0
Tomatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	313	100.0	0	.0	313	100.0
Spinach	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	63	100.0	0	.0	63	100.0
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	125	100.0	0	.0	125	100.0
Amaranths	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	125	100.0	0	.0	125	100.0
Pumpkins	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cucumber	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Egg Plant	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
FRUITS & VEGETABLES	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	688	100.0	0	.0	688	100.0
Tobacco	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
CASH CROPS	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Total	875	10.1	250	2.9	0	.0	3,251	37.7	2,001	23.2	0	.0	2,251	26.1	0	.0	8,629	100.0

5.23 CROP STORAGE: Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season, Siha

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	2,626	14.0	938	5.0	125	.7	5,690	30.2	8,316	44.2	188	1.0	875	4.7	63	.3	18,821	100.0
Paddy	0	.0	63	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	63	100.0
Sorghum	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Finger Millet	63	14.3	188	42.9	0	.0	125	28.6	0	.0	0	.0	63	14.3	0	.0	438	100.0
CEREALS	2,689	13.9	1,188	6.1	125	.6	5,815	30.1	8,316	43.0	188	1.0	938	4.9	63	.3	19,321	100.0
Cassava	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Sweet Potato	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Irish potatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	125	100.0	0	.0	125	100.0
Yams	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	63	100.0	0	.0	63	100.0
Coco Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
ROOTS & TUBERS	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	188	100.0	0	.0	188	100.0
Mung Bean	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Beans	2,939	22.1	500	3.8	63	.5	4,439	33.3	4,627	34.7	63	.5	688	5.2	0	.0	13,318	100.0
Cowpeas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Green gram	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Field Peas	0	.0	0	.0	0	.0	63	50.0	0	.0	0	.0	63	50.0	0	.0	125	100.0
PULSES	2,939	21.9	500	3.7	63	.5	4,502	33.5	4,627	34.4	63	.5	750	5.6	0	.0	13,443	100.0
Sunflower	1,188	30.2	188	4.8	0	.0	1,751	44.4	438	11.1	0	.0	375	9.5	0	.0	3,939	100.0
Simsim	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Groundnut	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
OIL SEEDS & OIL NUTS	1,188	30.2	188	4.8	0	.0	1,751	44.4	438	11.1	0	.0	375	9.5	0	.0	3,939	100.0

5.23 CROP STORAGE: Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season, Siha

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	0	.0	0	.0	0	.0	63	100.0	0	.0	0	.0	0	.0	0	.0	63	100.0
Radish	0	.0	0	.0	0	.0	63	100.0	0	.0	0	.0	0	.0	0	.0	63	100.0
Turmeric	0	.0	0	.0	0	.0	63	100.0	0	.0	0	.0	0	.0	0	.0	63	100.0
Bitteer Aubergine	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Onion	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Ginger	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cabbage	63	50.0	0	.0	0	.0	0	.0	0	.0	0	.0	63	50.0	0	.0	125	100.0
Tomatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	250	100.0	0	.0	250	100.0
Spinach	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	63	100.0	0	.0	63	100.0
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	125	100.0	0	.0	125	100.0
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	63	100.0	0	.0	63	100.0
Amaranths	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	63	100.0	0	.0	63	100.0
Pumpkins	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cucumber	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Egg Plant	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
FRUITS & VEGETABLES	63	7.1	0	.0	0	.0	188	21.4	0	.0	0	.0	625	71.4	0	.0	875	100.0
Tobacco	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
CASH CROPS	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Total	6,878	18.2	1,876	5.0	188	.5	12,255	32.5	13,381	35.4	250	.7	2,876	7.6	63	.2	37,767	100.0

INPUT USE

5.24: ANNUAL CROP AND VEGETABLE PRODUCTION: Number of Households and Planted Area by Organic Fertiliser Use and District - SHORT RAINY SEASON

District	Organic Fertlizer Use						% of Planted area using Organic Fertlizer
	Number of Households using Organic Fertlizer	Planted Area Applied with Organic Fertlizer	Number of Households NOT using Organic Fertlizer	Planted Area NOT Applied with Organic Fertlizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Rombo	17,728	5,068	14,809	10,485	32,537	15,553	-
Mwanga	4,952	1,504	11,193	8,922	16,145	10,426	14.4
Same	6,162	2,576	27,992	23,252	34,154	25,828	10.0
Moshi Rural	13,325	3,864	21,997	13,787	35,323	17,652	21.9
Hai	3,385	918	12,152	5,560	15,537	6,479	14.2
Siha	1,000	297	5,252	2,589	6,253	2,887	10.3
Total	46,552	14,228	93,396	64,596	139,948	78,824	18.1

5.25: ANNUAL CROP AND VEGETABLE PRODUCTION: Number of Households and Planted Area by Organic Fertiliser Use and District - LONG RAINY SEASON

District	Organic Fertlizer Use						% of Planted area using Organic Fertlizer
	Number of Households using Organic Fertlizer	Planted Area Applied with Organic Fertlizer	Number of Households NOT using Organic Fertlizer	Planted Area NOT Applied with Organic Fertlizer	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Rombo	5,837	1,527	19,025	10,941	24,862	12,468	12.2
Mwanga	3,456	820	12,225	9,130	15,681	9,951	8.2
Same	2,465	670	20,158	11,864	22,622	12,534	5.3
Moshi Rural	8,038	3,273	34,265	26,174	42,303	29,447	11.1
Hai	3,212	1,172	25,345	17,280	28,557	18,452	6.4
Siha	2,251	1,156	15,945	17,340	18,196	18,496	6.3
Total	25,258	8,618	126,962	92,729	152,220	101,347	8.5

5.26: ANNUAL CROP AND VEGETABLE PRODUCTION: 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	
Rombo	32,537	2,124	0	13,429	32,537	15,553	13.7
Mwanga	16,145	913	0	9,513	16,145	10,426	8.8
Same	34,154	3,019	0	22,809	34,154	25,828	11.7
Moshi Rural	35,323	5,046	0	12,606	35,323	17,652	28.6
Hai	15,537	3,013	0	3,465	15,537	6,479	46.5
Siha	6,253	592	0	2,295	6,253	2,887	20.5
Total	139,948	14,707	0	64,117	139,948	78,824	18.7

5.27: ANNUAL CROP AND VEGETABLE PRODUCTION: Number of Households and Planted Area by Inorganic Fertiliser Use and District - LONG RAINY SEASON

District	Inorganic Fertilizer Fertlizer 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	
Rombo	24,862	1,481	0	10,986	24,862	12,468	11.9
Mwanga	15,681	449	0	9,502	15,681	9,951	4.5
Same	22,622	624	0	11,910	22,622	12,534	5.0
Moshi Rural	42,303	10,997	0	18,450	42,303	29,447	37.3
Hai	28,557	9,115	0	9,338	28,557	18,452	49.4
Siha	18,196	5,911	0	12,585	18,196	18,496	32.0
Total	152,220	28,577	0	72,771	152,220	101,347	28.2

5.28: ANNUAL CROP & VEGETABLE PRODUCTION: Number of Households and Planted Area by Fungicide Use and District - Short Rainy Season

District	Fungicide Use						% of Planted area using Fungicide
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Number of Households NOT using Fungicide	Planted Area NOT Applied with Herbicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Rombo	540	207	31,996	15,346	32,537	15,553	1.3
Mwanga	309	73	15,835	10,353	16,145	10,426	0.7
Same	2,201	1,092	31,953	24,735	34,154	25,828	4.2
Moshi Rural	1,692	873	33,631	16,778	35,323	17,652	4.9
Hai	2,864	810	12,673	5,669	15,537	6,479	12.5
Siha	500	277	5,753	2,609	6,253	2,887	9.6
Total	8,107	3,333	131,841	75,490	139,948	78,824	4.2

5.29: ANNUAL CROP & VEGETABLE PRODUCTION: 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	
Rombo	1,081	679	23,781	11,789	24,862	12,468	5.4
Mwanga	361	159	15,320	9,791	15,681	9,951	1.6
Same	1,408	554	21,214	11,981	22,622	12,534	4.4
Moshi Rural	2,538	398	39,765	29,048	42,303	29,447	1.4
Hai	1,128	293	27,428	18,159	28,557	18,452	1.6
Siha	688	354	17,508	18,142	18,196	18,496	1.9
Total	7,205	2,437	145,015	98,910	152,220	101,347	2.4

5.30 : ANNUAL CROP & VEGETABLE PRODUCTION: 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	
Rombo	1,297	984	31,240	14,570	32,537	15,553	6.3
Mwanga	825	626	15,320	9,800	16,145	10,426	6.0
Same	1,232	804	32,921	25,024	34,154	25,828	3.1
Moshi Rural	2,961	3,746	32,362	13,905	35,323	17,652	21.2
Hai	4,080	1,895	11,457	4,583	15,537	6,479	29.3
Siha	625	217	5,627	2,669	6,253	2,887	7.5
Total	11,021	8,273	128,927	70,551	139,948	78,824	10.5

5.31: ANNUAL CROP & VEGETABLE PRODUCTION: 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	
Rombo	540	440	24,322	12,028	24,862	12,468	3.5
Mwanga	774	360	14,907	9,590	15,681	9,951	3.6
Same	176	285	22,446	12,249	22,622	12,534	2.3
Moshi Rural	1,269	402	41,034	29,044	42,303	29,447	1.4
Hai	3,385	1,498	25,172	16,954	28,557	18,452	8.1
Siha	6,003	6,226	12,193	12,270	18,196	18,496	33.7
Total	12,147	9,211	140,073	92,136	152,220	101,347	9.1

5.32: ANNUAL CROP & VEGETABLE PRODUCTION: 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	
Rombo	22,160	6,911	10,377	8,642	32,537	15,553	44.4
Mwanga	9,027	4,505	7,118	5,921	16,145	10,426	43.2
Same	10,739	5,994	23,415	19,833	34,154	25,828	23.2
Moshi Rural	20,094	6,674	15,229	10,977	35,323	17,652	37.8
Hai	10,589	3,474	4,948	3,005	15,537	6,479	53.6
Siha	2,564	990	3,689	1,897	6,253	2,887	34.3
Total	75,172	28,548	64,776	50,275	139,948	78,824	36.2

5.33: ANNUAL CROP & VEGETABLE PRODUCTION: 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	
Rombo	12,539	3,416	12,323	9,052	24,862	12,468	27.4
Mwanga	8,150	4,389	7,531	5,561	15,681	9,951	44.1
Same	4,137	1,675	18,485	10,859	22,622	12,534	13.4
Moshi Rural	30,035	14,459	12,268	14,988	42,303	29,447	49.1
Hai	21,353	9,919	7,204	8,533	28,557	18,452	53.8
Siha	12,818	9,753	5,377	8,743	18,196	18,496	52.7
Total	89,032	43,612	63,188	57,736	152,220	101,347	43.0

5.34 ANNUAL CROP AND VEGETABLE PRODUCTION: 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)	
Rombo	25,078	8,545	7,459	7,091	32,537	15,553	54.9
Mwanga	11,606	5,599	4,539	4,827	16,145	10,426	53.7
Same	29,400	19,414	4,753	6,414	34,154	25,828	75.2
Moshi Rural	27,920	10,848	7,403	6,803	35,323	17,652	61.5
Hai	11,023	2,751	4,514	3,754	15,537	6,479	42.5
Siha	4,627	1,884	1,626	1,003	6,253	2,887	65.3
Total	109,655	49,041	30,293	29,891	139,948	78,824	62.2

5.35 ANNUAL CROP AND VEGETABLE PRODUCTION: 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)	
Rombo	21,943	8,937	2,919	3,531	24,862	12,468	72
Mwanga	11,864	5,401	3,817	4,550	15,681	9,951	54
Same	20,070	10,788	2,553	1,746	22,622	12,534	86
Moshi Rural	26,228	11,699	16,075	17,748	42,303	29,447	40
Hai	22,828	7,600	5,729	10,886	28,557	18,452	41
Siha	13,068	7,528	5,127	10,968	18,196	18,496	41
Total	116,001	51,953	36,219	49,428	152,220	101,347	51

5.36: ANNUAL CROP & VEGETABLE PRODUCTION: 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	
Rombo	13,404	4,759	19,133	10,795	32,537	15,553	30.6
Mwanga	1,341	613	14,804	9,813	16,145	10,426	5.9
Same	6,602	4,368	27,552	21,460	34,154	25,828	16.9
Moshi Rural	6,557	4,143	28,766	13,508	35,323	17,652	23.5
Hai	8,159	2,767	7,378	3,712	15,537	6,479	42.7
Siha	750	391	5,502	2,496	6,253	2,887	13.5
Total	36,813	17,040	103,135	61,783	139,948	78,824	21.6

5.37: ANNUAL CROP & VEGETABLE PRODUCTION: Number of Households and Planted Area by Insecticides 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	
Rombo	8,756	3,265	16,106	9,203	24,862	12,468	26.2
Mwanga	1,496	607	14,185	9,343	15,681	9,951	6.1
Same	2,553	1,358	20,070	11,176	22,622	12,534	10.8
Moshi Rural	13,960	12,673	28,343	16,774	42,303	29,447	43.0
Hai	11,023	5,308	17,533	13,145	28,557	18,452	28.8
Siha	4,377	4,075	13,819	14,421	18,196	18,496	22.0
Total	42,165	27,286	110,056	74,061	152,220	101,347	26.9

5.38: ANNUAL CROP AND VEGETABLE PRODUCTION: 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	
Rombo	6,270	1,584	26,267	13,969	32,537	15,553	10.2
Mwanga	2,373	1,149	13,772	9,277	16,145	10,426	11.0
Same	11,443	6,142	22,710	19,686	34,154	25,828	23.8
Moshi Rural	14,383	7,590	20,940	10,062	35,323	17,652	43.0
Hai	9,635	3,595	5,902	2,884	15,537	6,479	55.5
Siha	938	342	5,315	2,545	6,253	2,887	11.8
Total	45,041	20,402	94,907	58,422	139,948	78,824	25.9

5.39: ANNUAL CROP AND VEGETABLE PRODUCTION: 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	
Rombo	2,702	721	22,160	11,747	24,862	12,468	5.8
Mwanga	2,166	978	13,514	8,972	15,681	9,951	9.8
Same	6,338	2,590	16,285	9,944	22,622	12,534	20.7
Moshi Rural	10,999	7,062	31,304	22,384	42,303	29,447	24.0
Hai	7,552	4,389	21,005	14,063	28,557	18,452	23.8
Siha	938	464	17,258	18,032	18,196	18,496	2.5
Total	30,695	16,205	121,525	85,143	152,220	101,347	16.0

MARKETING

5.40 MARKETING: Number of Crop Producing households reporting Selling agricultural produce during 2007/08 by District and Season

	SHORT RAINY SEASON						LONG RAINY SEASON				
District	Number of households that sold	%	Number of households that did not sold	%	Total number of households		Number of households that sold	%	Number of households that did not sold	%	Total number of households
Rombo	9,729	30	22,808	70	32,537		7,999	32	16,863	68	24,862
Mwanga	6,602	41	9,543	59	16,145		7,479	48	8,201	52	15,681
Same	16,989	50	17,165	50	34,154		11,179	49	11,443	51	22,622
Moshi Rural	15,229	43	20,094	57	35,323		21,151	50	21,151	50	42,303
Hai	10,155	65	5,382	35	15,537		15,624	55	12,933	45	28,557
Siha	2,188	35	4,064	65	6,253		12,193	67	6,003	33	18,196
Total	60,893	44	79,055	56	139,948		75,626	50	76,595	50	152,220

5.41 MARKETING PROBLEMS: Number of Households Reporting Marketing Problems for agricultural products by Crop - KILIMANJARO- SHORT RAINY SEASON

Rombo

Crop	Open Market Price too low	No Transport	Transport Cost too high	No buyer	Crop Market too Far	Farmer Association problems	Cooperative problems	Trade Union Problems	Goernment Rugulatory Problems	Lack of Market Information	No problem	Other	Not Applicable
Maize	4,432	216	216	0	0	0	0	0	0	0	2,594	0	23,673
Paddy	0	0	0	0	0	0	0	0	0	0	0	0	0
Sorghum	0	0	0	0	0	0	0	0	0	0	0	0	0
Finger Millet	108	0	0	108	0	0	0	0	0	0	0	0	1,405
CEREALS	4,540	216	216	108	0	0	0	0	0	0	2,594	0	25,078
Cassava	0	0	0	0	0	0	0	0	0	0	0	0	108
Sweet Potato	0	0	0	0	0	0	0	0	0	0	0	0	0
Irish potatoes	0	0	0	0	0	0	0	0	0	0	0	0	216
Yams	0	0	0	0	0	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0	0	0	0	0	108
ROOTS & TUBERS	0	0	0	0	0	0	0	0	0	0	0	0	432
Mung Bean	0	0	0	0	0	0	0	0	0	0	0	0	0
Beans	2,702	0	216	0	216	0	0	0	0	0	1,297	0	18,268
Cowpeas	432	0	0	0	0	0	0	0	0	0	108	0	4,324
Green gram	108	0	0	0	0	0	0	0	0	0	0	0	1,621
Field Peas	0	0	0	0	0	0	0	0	0	0	0	0	0
PULSES	3,243	0	216	0	216	0	0	0	0	0	1,405	0	24,213
Sunflower	432	0	0	0	0	0	0	0	0	0	0	0	5,405
Simsim	0	0	0	0	0	0	0	0	0	0	0	0	108
Groundnut	108	0	0	0	0	0	0	0	0	0	0	0	3,243
OIL SEEDS & OIL NUTS	540	0	0	0	0	0	0	0	0	0	0	0	8,756

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5.41 MARKETING PROBLEMS: Number of Households Reporting Marketing Problems for agricultural products by Crop - KILIMANJARO- SHORT RAINY SEASON

Rombo

Crop	Open Market Price too low	No Transport	Transport Cost too high	No buyer	Crop Market too Far	Farmer Association problems	Cooperative problems	Trade Union Problems	Goernment Rugulatory Problems	Lack of Market Information	No problem	Other	Not Applicable
Okra	108	0	0	0	0	0	0	0	0	0	0	0	0
Radish	0	0	0	0	0	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	0	0	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0	0	0	0	0	0
Ginger	0	0	0	0	0	0	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0
Spinach	0	0	0	0	0	0	0	0	0	0	0	0	0
Carrot	0	0	0	0	0	0	0	0	0	0	0	0	0
Chillies	0	0	0	0	0	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES	108	0	0	0	0	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0	0	0	0	0	0
CASH CROPS	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	8,431	216	432	108	216	0	0	0	0	0	4,000	0	58,480

5.42 MARKETING PROBLEMS: Number of Households Reporting Marketing Problems for agricultural products by Crop -KILIMANJARO, LONG RAINY SEASON

Rombo

Crop	Open Market Price too low	No Transport	Transport Cost too high	No buyer	Crop Market too Far	Farmer Association problems	Cooperative problems	Trade Union Problems	Goernment Rugulatory Problems	Lack of Market Information	No problem	Other	Not Applicable
Maize	1,838	108	108	0	0	0	0	0	0	0	0	0	12,215
Paddy	0	0	0	0	0	0	0	0	0	0	0	0	0
Sorghum	0	0	0	0	0	0	0	0	0	0	0	0	0
Finger Millet	865	0	0	0	0	0	0	0	0	0	216	0	5,080
CEREALS	2,702	108	108	0	0	0	0	0	0	0	216	0	17,295
Cassava	0	0	0	0	0	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	0	0	0	0	0	0	0	0	0	0
Irish potatoes	324	0	108	0	0	0	0	0	0	0	324	0	0
Yams	0	0	0	0	0	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0	0	0	0	0	0
ROOTS & TUBERS	324	0	108	0	0	0	0	0	0	0	324	0	0
Mung Bean	0	0	0	0	0	0	0	0	0	0	0	0	0
Beans	3,027	0	216	0	0	0	0	0	108	216	1,838	0	12,323
Cowpeas	973	0	0	0	0	0	0	0	0	0	108	0	3,783
Green gram	108	0	0	0	0	0	0	0	0	0	108	0	757
Field Peas	0	0	0	0	0	0	0	0	0	0	0	0	0
PULSES	4,108	0	216	0	0	0	0	0	108	216	2,054	0	16,863
Sunflower	649	0	0	0	0	0	0	0	0	0	108	0	4,000
Simsim	0	0	0	0	0	0	0	0	0	0	0	0	0
Groundnut	649	0	0	0	0	0	0	0	0	0	108	0	2,378
OIL SEEDS & OIL NUTS	1,297	0	0	0	0	0	0	0	0	0	216	0	6,378

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5.42 MARKETING PROBLEMS: Number of Households Reporting Marketing Problems for agricultural products by Crop -KILIMANJARO, LONG RAINY SEASON

Rombo

Crop	Open Market Price too low	No Transport	Transport Cost too high	No buyer	Crop Market too Far	Farmer Association problems	Cooperative problems	Trade Union Problems	Goernment Rugulatory Problems	Lack of Market Information	No problem	Other	Not Applicable
Radish	0	0	0	0	0	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	0	0	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0	0	0	0	0	0
Ginger	0	0	0	0	0	0	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0
Spinach	0	0	0	0	0	0	0	0	0	0	0	0	0
Carrot	0	0	0	0	0	0	0	0	0	0	0	0	0
Chillies	0	0	0	0	0	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES	0	0	0	0	0	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0	0	0	0	0	0
CASH CROPS	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	8,431	108	432	0	0	0	0	0	108	216	2,810	0	40,536

5.41 MARKETING PROBLEMS: Number of Households Reporting Marketing Problems for agricultural products by Crop - KILIMANJARO- SHORT RAINY SEASON

Mwanga

Crop	Open Market Price too low	No Transport	Transport Cost too high	No buyer	Crop Market too Far	Farmer Association problems	Cooperative problems	Trade Union Problems	Goernment Rugulatory Problems	Lack of Market Information	No problem	Other	Not Applicable
Maize	2,115	103	103	52	103	0	0	0	103	0	980	52	10,884
Paddy	361	0	0	0	0	0	0	0	0	0	0	0	206
Sorghum	0	0	0	0	0	0	0	0	0	0	0	0	52
Finger Millet	0	0	0	0	0	0	0	0	0	0	0	0	0
CEREALS	2,476	103	103	52	103	0	0	0	103	0	980	52	11,142
Cassava	0	0	0	0	0	0	0	0	0	0	0	0	0
Sweet Potato	361	0	52	0	52	0	0	0	0	0	722	0	309
Irish potatoes	0	0	0	0	0	0	0	0	0	0	0	0	52
Yams	52	0	0	0	0	0	0	0	0	0	0	0	103
Coco Yam	361	0	52	0	0	0	0	0	0	0	413	0	103
ROOTS & TUBERS	774	0	103	0	52	0	0	0	0	0	1,135	0	567
Mung Bean	0	0	0	0	0	0	0	0	0	0	0	0	0
Beans	1,238	103	103	52	103	0	0	0	0	0	774	52	6,138
Cowpeas	0	0	52	0	0	0	0	0	0	0	0	0	619
Green gram	0	0	0	0	0	0	0	0	0	0	0	0	155
Field Peas	0	0	0	0	0	0	0	0	0	0	0	0	0
PULSES	1,238	103	155	52	103	0	0	0	0	0	774	52	6,912
Sunflower	52	0	103	0	0	0	0	0	0	0	52	0	671
Simsim	0	0	0	0	0	0	0	0	0	0	0	0	0
Groundnut	52	0	0	0	0	0	0	0	0	0	0	0	0
OIL SEEDS & OIL NUTS	103	0	103	0	0	0	0	0	0	0	52	0	671

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5.41 MARKETING PROBLEMS: Number of Households Reporting Marketing Problems for agricultural products by Crop - KILIMANJARO- SHORT RAINY SEASON

Mwanga

Crop	Open Market Price too low	No Transport	Transport Cost too high	No buyer	Crop Market too Far	Farmer Association problems	Cooperative problems	Trade Union Problems	Goernment Rugulatory Problems	Lack of Market Information	No problem	Other	Not Applicable
Radish	0	0	0	0	0	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0	0	0	0	0	0
Bitteer Aubergine	103	0	0	0	0	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0	0	0	0	0	52
Ginger	0	0	0	0	0	0	0	0	0	0	0	0	0
Cabbage	0	52	0	0	52	0	0	0	0	0	0	0	0
Tomatoes	206	0	52	0	52	0	0	0	0	0	0	0	0
Spinach	0	0	0	0	0	0	0	0	0	0	0	0	0
Carrot	0	0	0	0	0	0	0	0	0	0	0	0	0
Chillies	103	0	0	0	0	0	0	0	0	0	0	0	52
Amaranths	0	0	0	0	0	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES	413	52	52	0	103	0	0	0	0	0	0	0	155
Tobacco	0	52	0	0	0	0	0	0	0	0	0	0	0
CASH CROPS	0	52	0	0	0	0	0	0	0	0	0	0	0
Total	5,003	309	516	103	361	0	0	0	103	0	2,940	103	19,446

Mwanga

Crop	Open Market Price too low	No Transport	Transport Cost too high	No buyer	Crop Market too Far	Farmer Association problems	Cooperative problems	Trade Union Problems	Goernment Rugulatory Problems	Lack of Market Information	No problem	Other	Not Applicable
Maize	2,270	103	206	0	309	0	52	0	103	0	980	52	9,285
Paddy	361	0	0	0	0	0	0	0	0	0	0	0	155
Sorghum	0	0	0	0	0	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0	0	0	0	0	0
CEREALS	2,631	103	206	0	309	0	52	0	103	0	980	52	9,439
Cassava	52	0	0	0	0	0	0	0	0	0	0	0	0
Sweet Potato	155	0	0	0	0	0	0	0	0	0	0	0	155
Irish potatoes	0	0	0	0	0	0	0	0	0	0	0	0	0
Yams	103	0	0	0	0	0	0	0	0	0	0	0	52
Coco Yam	206	0	0	0	0	0	0	0	0	0	52	0	103
ROOTS & TUBERS	516	0	0	0	0	0	0	0	0	0	52	0	309
Mung Bean	0	0	0	0	0	0	0	0	0	0	0	0	0
Beans	2,270	258	258	52	464	0	0	52	0	0	980	52	5,158
Cowpeas	103	0	0	0	0	0	0	0	0	0	103	0	567
Green gram	0	0	0	0	0	0	0	0	0	0	0	0	103
Field Peas	0	0	0	0	0	0	0	0	0	0	0	0	0
PULSES	2,373	258	258	52	464	0	0	52	0	0	1,083	52	5,829
Sunflower	52	0	0	0	103	0	0	0	0	0	0	0	413
Simsim	0	0	0	0	0	0	0	0	0	0	0	0	0
Groundnut	52	0	0	0	0	0	0	0	0	0	0	0	0
OIL SEEDS & OIL NUTS	103	0	0	0	103	0	0	0	0	0	0	0	413

Cont…

5.42 MARKETING PROBLEMS: Number of Households Reporting Marketing Problems for agricultural products by Crop -KILIMANJARO, LONG RAINY SEASON
Mwanga

Crop	Open Market Price too low	No Transport	Transport Cost too high	No buyer	Crop Market too Far	Farmer Association problems	Cooperative problems	Trade Union Problems	Goernment Rugulatory Problems	Lack of Market Information	No problem	Other	Not Applicable
Radish	0	0	0	0	0	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	0	0	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0	0	0	0	0	0
Ginger	0	0	0	0	52	0	0	0	0	0	0	0	0
Cabbage	0	103	0	0	52	0	52	0	0	0	0	0	0
Tomatoes	103	0	52	0	0	0	0	0	0	0	52	0	0
Spinach	0	0	0	0	0	0	0	0	0	0	0	0	0
Carrot	0	0	0	0	0	0	0	0	0	0	0	0	0
Chillies	52	0	0	0	0	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES	206	103	52	0	103	0	52	0	0	0	52	0	0
Tobacco	0	0	0	0	0	0	0	0	0	0	52	0	0
CASH CROPS	0	0	0	0	0	0	0	0	0	0	52	0	0
Total	5,829	464	516	52	980	0	103	52	103	0	2,218	103	15,990

5.41 MARKETING PROBLEMS: Number of Households Reporting Marketing Problems for agricultural products by Crop - KILIMANJARO- SHORT RAINY SEASON
Same

Crop	Open Market Price too low	No Transport	Transport Cost too high	No buyer	Crop Market too Far	Farmer Association problems	Cooperative problems	Trade Union Problems	Goernment Rugulatory Problems	Lack of Market Information	No problem	Other	Not Applicable
Maize	5,810	528	88	0	616	0	0	0	0	0	2,113	352	19,453
Paddy	1,144	0	0	0	0	0	0	0	0	0	2,113	0	440
Sorghum	0	0	0	0	0	0	0	0	0	0	0	0	88
Finger Millet	0	0	0	0	0	0	0	0	0	0	0	0	0
CEREALS	6,954	528	88	0	616	0	0	0	0	0	4,225	352	19,982
Cassava	0	0	0	0	0	0	0	0	0	0	0	0	616
Sweet Potato	176	0	0	0	88	0	0	0	0	0	88	88	440
Irish potatoes	528	88	0	0	0	0	0	0	0	0	88	0	792
Yams	0	0	0	0	0	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0	0	0	0	0	88
ROOTS & TUBERS	704	88	0	0	88	0	0	0	0	0	176	88	1,937
Mung Bean	0	0	0	0	0	0	0	0	0	0	0	0	0
Beans	3,081	264	0	0	440	0	0	0	0	0	1,056	88	12,852
Cowpeas	176	0	0	0	0	0	0	0	0	0	0	0	0
Green gram	0	0	0	0	0	0	0	0	0	0	0	0	88
Field Peas	0	0	0	0	0	0	0	0	0	0	0	0	0
PULSES	3,257	264	0	0	440	0	0	0	0	0	1,056	88	12,940
Sunflower	0	0	0	0	88	0	0	0	0	0	0	0	440
Simsim	0	0	0	0	0	0	0	0	0	0	0	0	0
Groundnut	88	0	0	0	88	0	0	0	0	0	0	0	88
OIL SEEDS & OIL NUTS	88	0	0	0	176	0	0	0	0	0	0	0	528

Cont……

5.41 MARKETING PROBLEMS: Number of Households Reporting Marketing Problems for agricultural products by Crop - KILIMANJARO- SHORT RAINY SEASON

Same

Crop	Open Market Price too low	No Transport	Transport Cost too high	No buyer	Crop Market too Far	Farmer Association problems	Cooperative problems	Trade Union Problems	Goernment Rugulatory Problems	Lack of Market Information	No problem	Other	Not Applicable
Radish	0	0	0	0	0	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0	0	0	0	0	0
Bitteer Aubergine	88	0	0	0	0	0	0	0	0	0	0	0	0
Onion	528	0	88	0	352	0	0	88	0	0	0	0	0
Ginger	1,496	0	88	0	0	0	0	0	0	0	88	88	352
Cabbage	88	0	0	0	0	0	0	0	0	0	0	0	0
Tomatoes	440	88	0	0	0	0	0	0	0	88	176	0	88
Spinach	88	0	0	0	0	0	0	0	0	0	0	0	0
Carrot	0	0	0	0	0	0	0	0	0	0	0	0	0
Chillies	0	0	0	0	88	0	0	0	0	0	88	0	0
Amaranths	88	0	0	0	0	0	0	0	0	0	0	0	176
Pumpkins	0	0	0	0	0	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0	0	0	88	88	0
FRUITS & VEGETABLES	2,817	88	176	0	440	0	0	88	0	88	440	176	704
Tobacco	0	0	0	0	0	0	0	0	0	0	0	0	0
CASH CROPS	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	13,820	968	264	0	1,760	0	0	88	0	88	5,898	704	36,090

5.42 MARKETING PROBLEMS: Number of Households Reporting Marketing Problems for agricultural products by Crop -KILIMANJARO, LONG RAINY SEASON
Same

Crop	Open Market Price too low	No Transport	Transport Cost too high	No buyer	Crop Market too Far	Farmer Association problems	Cooperative problems	Trade Union Problems	Goernment Rugulatory Problems	Lack of Market Information	No problem	Other	Not Applicable
Maize	1,232	0	0	0	88	0	0	0	0	0	1,232	0	7,482
Paddy	0	0	0	0	0	0	0	0	0	88	528	0	0
Sorghum	0	0	0	0	0	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0	0	0	0	0	0
CEREALS	1,232	0	0	0	88	0	0	0	0	88	1,760	0	7,482
Cassava	0	88	0	0	0	0	0	0	0	0	0	0	0
Sweet Potato	88	0	0	0	0	0	0	0	0	0	0	0	176
Irish potatoes	352	88	0	0	0	0	0	0	0	0	0	0	528
Yams	0	0	0	0	0	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0	0	0	0	0	88
ROOTS & TUBERS	440	176	0	0	0	0	0	0	0	0	0	0	792
Mung Bean	88	0	0	0	0	0	0	0	0	0	0	0	0
Beans	3,697	1,056	88	0	1,320	0	88	0	0	88	1,232	176	8,979
Cowpeas	0	0	0	88	0	0	0	0	0	0	0	0	176
Green gram	0	0	0	88	0	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0	0	0	0	0	0
PULSES	3,785	1,056	88	176	1,320	0	88	0	0	88	1,232	176	9,155
Sunflower	88	0	0	0	88	0	0	0	0	0	0	0	176
Simsim	0	0	0	0	0	0	0	0	0	0	0	0	0
Groundnut	0	0	0	0	176	0	0	0	0	0	0	0	88
OIL SEEDS & OIL NUTS	88	0	0	0	264	0	0	0	0	0	0	0	264

Cont…….

5.42 MARKETING PROBLEMS: Number of Households Reporting Marketing Problems for agricultural products by Crop -KILIMANJARO, LONG RAINY SEASON
Same

Crop	Open Market Price too low	No Transport	Transport Cost too high	No buyer	Crop Market too Far	Farmer Association problems	Cooperative problems	Trade Union Problems	Goernment Rugulatory Problems	Lack of Market Information	No problem	Other	Not Applicable
Radish	0	0	0	0	0	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0	0	0	0	0	0
Bitteer Aubergine	88	0	0	0	0	0	0	0	0	0	88	0	0
Onion	0	88	0	0	0	0	0	0	0	0	0	0	88
Ginger	176	0	0	0	0	0	0	0	0	0	0	0	176
Cabbage	176	0	0	0	0	0	0	0	0	0	0	0	0
Tomatoes	528	528	0	0	88	0	0	0	0	88	176	0	88
Spinach	88	0	0	0	0	0	0	0	0	0	0	0	0
Carrot	176	0	0	0	0	0	0	0	0	0	0	0	0
Chillies	0	0	0	0	0	0	0	0	0	0	0	0	0
Amaranths	264	0	0	0	176	0	0	0	0	0	88	0	0
Pumpkins	0	0	0	0	0	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES	1,496	616	0	0	264	0	0	0	0	88	352	0	352
Tobacco	0	0	0	0	0	0	0	0	0	0	0	0	0
CASH CROPS	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	7,042	1,849	88	176	1,937	0	88	0	0	264	3,345	176	18,045

5.41 MARKETING PROBLEMS: Number of Households Reporting Marketing Problems for agricultural products by Crop - KILIMANJARO- SHORT RAINY SEASON
Moshi Rural

Crop	Open Market Price too low	No Transport	Transport Cost too high	No buyer	Crop Market too Far	Farmer Association problems	Cooperative problems	Trade Union Problems	Goernment Rugulatory Problems	Lack of Market Information	No problem	Other	Not Applicable
Maize	3,173	0	2,115	212	423	0	0	0	0	0	2,750	0	22,209
Paddy	0	0	2,115	0	0	0	0	0	0	0	0	0	635
Sorghum	0	0	0	0	0	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0	0	0	212	0	212
CEREALS	3,173	0	4,230	212	423	0	0	0	0	0	2,961	0	23,055
Cassava	0	0	0	0	0	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	0	0	0	0	0	0	0	0	0	0
Irish potatoes	0	0	0	0	0	0	0	0	0	0	0	0	0
Yams	212	0	0	0	0	0	0	0	0	0	212	0	0
Coco Yam	212	0	0	0	0	0	0	0	0	423	1,692	0	2,538
ROOTS & TUBERS	423	0	0	0	0	0	0	0	0	423	1,904	0	2,538
Mung Bean	0	0	0	0	0	0	0	0	0	0	0	0	212
Beans	1,481	212	846	212	1,269	0	0	0	0	0	1,058	0	16,498
Cowpeas	0	0	0	0	0	0	0	0	0	0	0	0	0
Green gram	0	0	0	0	0	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0	0	0	0	0	0
PULSES	1,481	212	846	212	1,269	0	0	0	0	0	1,058	0	16,710
Sunflower	0	0	0	0	0	0	0	0	0	0	212	0	2,961
Simsim	0	0	0	0	0	0	0	0	0	0	0	0	0
Groundnut	0	0	0	0	0	0	0	0	0	0	0	0	0
OIL SEEDS & OIL NUTS	0	0	0	0	0	0	0	0	0	0	212	0	2,961

Cont……..

5.41 MARKETING PROBLEMS: Number of Households Reporting Marketing Problems for agricultural products by Crop - KILIMANJARO- SHORT RAINY SEASON

Moshi Rural

Crop	Open Market Price too low	No Transport	Transport Cost too high	No buyer	Crop Market too Far	Farmer Association problems	Cooperative problems	Trade Union Problems	Goernment Rugulatory Problems	Lack of Market Information	No problem	Other	Not Applicable
Radish	0	0	0	0	0	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	0	0	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0	0	0	0	0	0
Ginger	0	0	0	0	0	0	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0
Spinach	212	0	0	212	0	0	0	0	0	0	0	0	212
Carrot	0	0	0	0	0	0	0	0	0	0	0	0	0
Chillies	0	0	0	0	0	0	0	0	0	0	0	0	0
Amaranths	212	0	0	0	0	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	212	0	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES	423	0	212	423	0	0	0	0	0	0	0	0	212
Tobacco	0	0	0	0	0	0	0	0	0	0	0	0	0
CASH CROPS	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	5,499	212	5,288	846	1,692	0	0	0	0	423	6,134	0	45,475

5.42 MARKETING PROBLEMS: Number of Households Reporting Marketing Problems for agricultural products by Crop -KILIMANJARO, LONG RAINY SEASON
Moshi Rural

Crop	Open Market Price too low	No Transport	Transport Cost too high	No buyer	Crop Market too Far	Farmer Association problems	Cooperative problems	Trade Union Problems	Goernment Rugulatory Problems	Lack of Market Information	No problem	Other	Not Applicable
Maize	11,845	212	635	0	1,269	212	0	0	0	635	6,768	0	19,671
Paddy	212	0	0	0	0	0	0	0	0	0	0	0	212
Sorghum	423	0	0	0	0	0	0	0	0	0	0	0	212
Finger Millet	0	0	0	0	0	0	0	0	0	0	212	0	423
CEREALS	12,479	212	635	0	1,269	212	0	0	0	635	6,980	0	20,517
Cassava	0	0	0	0	0	0	0	0	0	0	212	0	212
Sweet Potato	0	0	0	0	0	0	0	0	0	0	0	0	0
Irish potatoes	0	0	0	0	0	0	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0	0	0	0	0	0	0
Coco Yam	846	0	0	0	0	0	0	0	0	0	0	0	846
ROOTS & TUBERS	846	0	0	0	0	0	0	0	0	0	212	0	1,058
Mung Bean	0	0	0	0	0	0	0	0	0	0	0	0	0
Beans	2,750	0	212	0	846	0	0	0	212	0	2,750	0	13,960
Cowpeas	0	0	0	0	0	0	0	0	0	0	0	0	0
Green gram	0	0	0	0	0	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0	0	0	0	0	0
PULSES	2,750	0	212	0	846	0	0	0	212	0	2,750	0	13,960
Sunflower	635	0	0	0	0	0	0	0	212	0	212	0	5,711
Simsim	0	0	0	0	0	0	0	0	0	0	0	0	0
Groundnut	846	0	0	0	0	0	0	0	0	0	0	0	0
OIL SEEDS & OIL NUTS	1,481	0	0	0	0	0	0	0	212	0	212	0	5,711

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5.42 MARKETING PROBLEMS: Number of Households Reporting Marketing Problems for agricultural products by Crop -KILIMANJARO, LONG RAINY SEASON

Moshi Rural

Crop	Open Market Price too low	No Transport	Transport Cost too high	No buyer	Crop Market too Far	Farmer Association problems	Cooperative problems	Trade Union Problems	Goernment Rugulatory Problems	Lack of Market Information	No problem	Other	Not Applicable
Radish	0	0	0	0	0	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	0	0	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0	0	0	0	0	0
Ginger	0	0	0	0	0	0	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0	0	0	0	0	0	0
Tomatoes	1,481	0	0	0	0	0	0	0	0	0	635	0	0
Spinach	0	0	0	0	0	0	0	0	0	0	635	0	0
Carrot	0	0	0	0	0	0	0	0	0	0	0	0	0
Chillies	635	0	0	0	0	0	0	0	0	0	423	0	0
Amaranths	0	0	0	0	0	0	0	0	0	0	212	0	0
Pumpkins	0	0	0	0	0	0	0	0	0	0	0	0	0
Cucumber	212	0	0	0	0	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES	2,538	0	0	0	0	0	0	0	0	0	1,904	0	0
Tobacco	0	0	0	0	0	0	0	0	0	0	0	0	0
CASH CROPS	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	20,094	212	846	0	2,115	212	0	0	423	635	12,056	0	41,245

5.41 MARKETING PROBLEMS: Number of Households Reporting Marketing Problems for agricultural products by Crop - KILIMANJARO- SHORT RAINY SEASON
Hai

Crop	Open Market Price too low	No Transport	Transport Cost too high	No buyer	Crop Market too Far	Farmer Association problems	Cooperative problems	Trade Union Problems	Goernment Rugulatory Problems	Lack of Market Information	No problem	Other	Not Applicable
Maize	2,778	87	868	0	521	0	0	174	0	521	1,128	0	4,253
Paddy	434	0	87	0	87	0	0	0	0	0	0	0	0
Sorghum	0	0	0	0	0	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0	0	0	0	0	87
CEREALS	3,212	87	955	0	608	0	0	174	0	521	1,128	0	4,340
Cassava	0	0	0	0	0	0	0	0	0	0	0	0	260
Sweet Potato	87	87	0	0	87	0	0	0	0	0	174	0	260
Irish potatoes	0	0	0	0	0	0	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0	0	0	0	0	0	87
Coco Yam	0	0	0	0	0	0	0	0	0	0	0	0	87
ROOTS & TUBERS	87	87	0	0	87	0	0	0	0	0	174	0	694
Mung Bean	0	0	0	0	0	0	0	0	0	0	0	0	0
Beans	2,430	0	174	0	347	0	0	174	0	87	955	0	4,774
Cowpeas	174	0	0	0	0	0	0	0	0	0	0	0	0
Green gram	0	0	0	0	0	0	0	0	0	0	0	0	0
Field Peas	87	0	0	87	87	0	0	0	0	0	260	0	521
PULSES	2,691	0	174	87	434	0	0	174	0	87	1,215	0	5,295
Sunflower	87	0	0	0	0	0	0	0	0	0	0	0	87
Simsim	0	0	0	0	0	0	0	0	0	0	0	0	0
Groundnut	0	0	0	0	0	0	0	0	0	0	0	0	0
OIL SEEDS & OIL NUTS	87	0	0	0	0	0	0	0	0	0	0	0	87

Cont….

5.41 MARKETING PROBLEMS: Number of Households Reporting Marketing Problems for agricultural products by Crop - KILIMANJARO- SHORT RAINY SEASON

Hai

Crop	Open Market Price too low	No Transport	Transport Cost too high	No buyer	Crop Market too Far	Farmer Association problems	Cooperative problems	Trade Union Problems	Goernment Rugulatory Problems	Lack of Market Information	No problem	Other	Not Applicable
Radish	0	0	0	0	0	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0	0	0	0	0	0
Bitteer Aubergine	87	0	0	0	0	0	0	0	0	0	0	0	87
Onion	260	0	87	0	0	0	0	0	0	434	87	0	87
Ginger	0	0	0	0	0	0	0	0	0	0	0	0	0
Cabbage	87	0	87	0	174	0	0	87	0	0	0	0	87
Tomatoes	608	0	87	0	0	0	0	0	0	0	87	0	434
Spinach	434	0	87	0	0	0	0	0	0	0	0	0	87
Carrot	0	0	260	0	174	0	0	0	0	0	0	0	0
Chillies	260	87	174	0	87	0	0	87	0	0	174	0	260
Amaranths	434	87	0	0	0	0	0	0	0	0	0	0	608
Pumpkins	0	0	0	0	0	0	0	0	0	0	0	0	0
Cucumber	87	87	174	0	0	0	0	0	0	0	0	0	174
Egg Plant	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES	2,517	260	955	0	434	0	0	174	0	434	434	0	1,823
Tobacco	0	0	0	0	0	0	0	0	0	0	0	0	0
CASH CROPS	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	8,593	434	2,083	87	1,562	0	0	521	0	1,042	2,951	0	12,239

5.42 MARKETING PROBLEMS: Number of Households Reporting Marketing Problems for agricultural products by Crop -KILIMANJARO, LONG RAINY SEASON
Hai

Crop	Open Market Price too low	No Transport	Transport Cost too high	No buyer	Crop Market too Far	Farmer Association problems	Cooperative problems	Trade Union Problems	Goernment Rugulatory Problems	Lack of Market Information	No problem	Other	Not Applicable
Maize	9,461	434	608	0	174	87	0	0	521	1,128	2,170	0	12,933
Paddy	521	0	87	0	0	0	0	0	0	0	0	0	0
Sorghum	0	0	0	0	0	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0	0	0	0	0	0
CEREALS	9,982	434	694	0	174	87	0	0	521	1,128	2,170	0	12,933
Cassava	0	0	0	0	0	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	0	0	0	0	0	0	0	0	0	0
Irish potatoes	0	0	0	0	0	0	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0	0	0	0	0	0	87
Coco Yam	0	0	0	0	0	0	0	0	0	0	0	0	87
ROOTS & TUBERS	0	0	0	0	0	0	0	0	0	0	0	0	174
Mung Bean	0	0	0	0	0	0	0	0	0	0	0	0	0
Beans	4,687	0	260	87	87	0	0	87	174	608	1,649	0	13,714
Cowpeas	0	0	0	0	0	0	0	0	0	0	0	0	0
Green gram	87	0	0	0	0	0	0	0	0	0	260	0	87
Field Peas	87	0	0	0	0	0	0	0	0	0	0	0	0
PULSES	4,861	0	260	87	87	0	0	87	174	608	1,910	0	13,801
Sunflower	434	0	0	0	0	0	0	0	0	87	434	0	4,253
Simsim	0	0	0	0	0	0	0	0	0	0	0	0	87
Groundnut	0	0	0	0	0	0	0	0	0	0	0	0	0
OIL SEEDS & OIL NUTS	434	0	0	0	0	0	0	0	0	87	434	0	4,340

Cont…….

5.42 MARKETING PROBLEMS: Number of Households Reporting Marketing Problems for agricultural products by Crop -KILIMANJARO, LONG RAINY SEASON

Hai

Crop	Open Market Price too low	No Transport	Transport Cost too high	No buyer	Crop Market too Far	Farmer Association problems	Cooperative problems	Trade Union Problems	Goernment Rugulatory Problems	Lack of Market Information	No problem	Other	Not Applicable
Radish	0	0	0	0	0	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0	0	0	0	0	0
Bitteer Aubergine	87	0	0	0	0	0	0	0	0	0	0	0	87
Onion	0	0	0	0	0	0	0	0	0	0	0	0	0
Ginger	0	0	0	0	0	0	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0	0	0	0	87	0	87
Tomatoes	87	0	0	87	0	0	0	0	0	0	0	0	434
Spinach	0	0	0	87	0	0	0	0	0	0	87	0	260
Carrot	0	0	0	0	0	0	0	0	0	0	0	0	0
Chillies	0	0	0	0	0	0	0	0	0	0	0	0	87
Amaranths	174	0	0	0	0	0	0	0	0	87	87	0	347
Pumpkins	0	0	0	0	0	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	87	0	0	0	0	0	87	0	174
Egg Plant	0	0	0	0	0	0	0	0	0	0	87	0	174
Water Mellon	87	0	0	0	0	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES	608	0	0	174	87	0	0	0	0	87	434	0	1,649
Tobacco	0	0	0	0	0	0	0	0	0	0	87	0	87
CASH CROPS	0	0	0	0	0	0	0	0	0	0	87	0	87
Total	15,884	434	955	260	347	87	0	87	694	1,910	5,034	0	32,984

5.41 MARKETING PROBLEMS: Number of Households Reporting Marketing Problems for agricultural products by Crop - KILIMANJARO- SHORT RAINY SEASON
Siha

Crop	Open Market Price too low	No Transport	Transport Cost too high	No buyer	Crop Market too Far	Farmer Association problems	Cooperative problems	Trade Union Problems	Goernment Rugulatory Problems	Lack of Market Information	No problem	Other	Not Applicable
Maize	250	0	0	0	63	0	0	0	0	0	63	0	1,376
Paddy	0	0	0	0	0	0	0	0	0	0	0	0	0
Sorghum	0	0	0	0	0	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0	0	0	0	0	0
CEREALS	250	0	0	0	63	0	0	0	0	0	63	0	1,376
Cassava	0	0	0	0	0	0	0	0	0	0	0	0	63
Sweet Potato	0	0	0	0	0	0	0	0	0	0	0	0	0
Irish potatoes	188	0	0	0	0	0	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0	0	0	0	0	0
ROOTS & TUBERS	188	0	0	0	0	0	0	0	0	0	0	0	63
Mung Bean	0	0	0	0	0	0	0	0	0	0	0	0	188
Beans	500	0	0	0	125	0	0	0	63	0	625	0	3,939
Cowpeas	0	0	0	0	0	0	0	0	0	0	0	0	0
Green gram	0	0	0	0	0	0	0	0	0	0	0	0	0
Field Peas	63	0	0	0	0	0	0	0	0	0	0	0	0
PULSES	563	0	0	0	125	0	0	0	63	0	625	0	4,127
Sunflower	63	0	0	0	63	0	0	0	0	0	63	0	250
Simsim	0	0	0	0	0	0	0	0	0	0	0	0	0
Groundnut	0	0	0	0	0	0	0	0	0	0	0	0	0
OIL SEEDS & OIL NUTS	63	0	0	0	63	0	0	0	0	0	63	0	250

Cont…..

5.41 MARKETING PROBLEMS: Number of Households Reporting Marketing Problems for agricultural products by Crop - KILIMANJARO- SHORT RAINY SEASON
Siha

Crop	Open Market Price too low	No Transport	Transport Cost too high	No buyer	Crop Market too Far	Farmer Association problems	Cooperative problems	Trade Union Problems	Goernment Rugulatory Problems	Lack of Market Information	No problem	Other	Not Applicable
Radish	0	0	0	0	0	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	0	0	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0	0	0	0	0	0
Ginger	0	0	0	0	0	0	0	0	0	0	0	0	0
Cabbage	63	0	0	0	0	0	0	0	0	0	0	0	0
Tomatoes	250	0	63	0	0	0	0	0	0	0	0	0	0
Spinach	0	0	0	0	0	0	0	0	0	0	0	0	0
Carrot	0	0	0	0	0	0	0	0	0	0	0	0	63
Chillies	125	0	0	0	0	0	0	0	0	0	0	0	0
Amaranths	63	0	0	0	0	0	0	0	0	0	63	0	0
Pumpkins	0	0	0	0	0	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES	500	0	63	0	0	0	0	0	0	0	63	0	63
Tobacco	0	0	0	0	0	0	0	0	0	0	0	0	0
CASH CROPS	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1,563	0	63	0	250	0	0	0	63	0	813	0	5,878

5.42 MARKETING PROBLEMS: Number of Households Reporting Marketing Problems for agricultural products by Crop -KILIMANJARO, LONG RAINY SEASON
Siha

Crop	Open Market Price too low	No Transport	Transport Cost too high	No buyer	Crop Market too Far	Farmer Association problems	Cooperative problems	Trade Union Problems	Goernment Rugulatory Problems	Lack of Market Information	No problem	Other	Not Applicable
Maize	6,503	63	750	0	0	0	0	0	250	250	4,064	438	6,503
Paddy	63	0	0	0	0	0	0	0	0	0	0	0	0
Sorghum	0	0	0	0	0	0	0	0	0	0	0	0	0
Finger Millet	188	0	0	0	0	0	0	0	0	0	0	0	250
CEREALS	6,753	63	750	0	0	0	0	0	250	250	4,064	438	6,753
Cassava	0	0	0	0	0	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	0	0	0	0	0	0	0	0	0	0
Irish potatoes	63	0	0	0	0	0	0	0	0	63	0	0	0
Yams	63	0	0	0	0	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0	0	0	0	0	0
ROOTS & TUBERS	125	0	0	0	0	0	0	0	0	63	0	0	0
Mung Bean	0	0	0	0	0	0	0	0	0	0	0	0	0
Beans	2,876	0	313	0	63	0	0	0	63	313	2,751	63	6,878
Cowpeas	0	0	0	0	0	0	0	0	0	0	0	0	0
Green gram	0	0	0	0	0	0	0	0	0	0	0	0	0
Field Peas	63	0	0	0	0	0	0	0	0	63	0	0	0
PULSES	2,939	0	313	0	63	0	0	0	63	375	2,751	63	6,878
Sunflower	938	0	0	0	125	0	0	0	63	63	500	125	2,126
Simsim	0	0	0	0	0	0	0	0	0	0	0	0	0
Groundnut	0	0	0	0	0	0	0	0	0	0	0	0	0
OIL SEEDS & OIL NUTS	938	0	0	0	125	0	0	0	63	63	500	125	2,126

Cont……

5.42 MARKETING PROBLEMS: Number of Households Reporting Marketing Problems for agricultural products by Crop -KILIMANJARO, LONG RAINY SEASON
Siha

Crop	Open Market Price too low	No Transport	Transport Cost too high	No buyer	Crop Market too Far	Farmer Association problems	Cooperative problems	Trade Union Problems	Goernment Rugulatory Problems	Lack of Market Information	No problem	Other	Not Applicable
Radish	63	0	0	0	0	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0	0	0	0	0	63
Bitteer Aubergine	0	0	0	0	0	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0	0	0	0	0	0
Ginger	0	0	0	0	0	0	0	0	0	0	0	0	0
Cabbage	125	0	0	0	0	0	0	0	0	0	0	0	0
Tomatoes	125	0	63	0	0	0	0	0	0	0	63	0	0
Spinach	0	0	0	0	0	0	0	0	0	0	63	0	0
Carrot	63	0	63	0	0	0	0	0	0	0	0	0	0
Chillies	63	0	0	0	0	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0	0	0	63	0	0
Pumpkins	0	0	0	0	0	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES	500	0	125	0	0	0	0	0	0	0	188	0	63
Tobacco	0	0	0	0	0	0	0	0	0	0	0	0	0
CASH CROPS	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	11,255	63	1,188	0	188	0	0	0	375	750	7,503	625	15,819

INPUT USE SHORT RAINY SEASON

5.75 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Insecticide use and Crop for the 2007/08 agriculture year - SHORT RAINY SEASON (VULI) - KILIMANJARO

Rombo

Crops	Insecticide use							% of Planted area using Insecticide
	Number of Households using Insecticide	Planted Area Insecticide Used	Number of Households NOT using Insecticide	Planted Area Insecticide not Used	Cost of Insecticide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	12,323	3,419	18,917	4,932	40,788,840	31,240	8,351	41
Paddy	0	0	0	0	0	0	0	0
Sorghum	0	0	0	0	0	0	0	0
Finger Millet	649	109	973	199	1,037,719	1,621	309	35
CEREALS		3,529		5,131	41,826,559		8,660	41
Cassava	108	18	0	0	432,383	108	18	100
Sweet Potato	0	0	0	0	0	0	0	0
Irish potatoes	0	0	216	13	0	216	13	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	108	0	0	108	0	0
ROOTS & TUBERS		18		14	432,383		31	56
Mung Bean	0	0	0	0	0	0	0	0
Beans	4,108	717	18,592	3,634	10,636,619	22,700	4,351	16
Cowpeas	2,270	352	2,594	323	5,137,790	4,864	674	52
Green gram	432	51	1,297	161	445,354	1,730	211	24
Field Peas	0	0	0	0	0	0	0	0
PULSES		1,120		4,117	16,219,763		5,237	21
Sunflower	540	65	5,297	951	918,814	5,837	1,016	6
Simsim	0	0	108	7	0	108	7	0
Groundnut	216	28	3,135	571	567,503	3,351	599	5
OIL SEEDS & OIL NUTS		92		1,529	1,486,316		1,621	6
Okra	0	0	108	4	0	108	4	0
Radish	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0
Ginger	0	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	0	0	0	0	0
Spinach	0	0	0	0	0	0	0	0
Carrot	0	0	0	0	0	0	0	0
Chillies	0	0	0	0	0	*0*	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		0		4	0		4	0
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		0		0	0		0	0
Total		4,759		10,795	59,965,022		15,553	31

5.76 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Insecticide use and Crop for the 2007/08 agriculture year - SHORT RAINY SEASON (VULI) - KILIMANJARO

Mwanga

Crops	Insecticide use							% of Planted area using Insecticide
	Number of Households using Insecticide	Planted Area Insecticide Used	Number of Households NOT using Insecticide	Planted Area Insecticide not Used	Cost of Insecticide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	877	410	13,669	6,639	5,137,483	14,546	7,049	6
Paddy	0	0	567	428	0	567	428	0
Sorghum	0	0	52	10	0	52	10	0
Finger Millet	0	0	0	0	0	0	0	0
CEREALS		410		7,077	5,137,483	15,165	7,487	5
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	1,496	256	0	1,496	256	0
Irish potatoes	0	0	52	42	0	52	42	0
Yams	0	0	155	18	0	155	18	0
Coco Yam	0	0	928	68	0	928	68	0
ROOTS & TUBERS		0		384	0	2,631	384	0
Mung Bean	0	0	0	0	0	0	0	0
Beans	413	140	8,150	1,678	2,604,848	8,562	1,817	8
Cowpeas	0	0	671	185	0	671	185	0
Green gram	0	0	155	56	0	155	56	0
Field Peas	0	0	0	0	0	0	0	0
PULSES		140		1,919	2,604,848	9,388	2,059	7
Sunflower	0	0	877	358	0	877	358	0
Simsim	0	0	0	0	0	0	0	0
Groundnut	0	0	52	10	0	*52*	*10*	0
OIL SEEDS & OIL NUTS		0		368	0	928	368	0
Okra	0	0	52	2	0	52	2	0
Radish	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0
Bitteer Aubergine	103	10	0	0	747,927	103	10	100
Onion	0	0	52	10	0	52	10	0
Ginger	0	0	0	0	0	0	0	0
Cabbage	103	10	0	0	773,717	103	10	100
Tomatoes	206	42	103	10	3,543,625	309	52	80
Spinach	0	0	0	0	0	*0*	*0*	0
Carrot	0	0	0	0	0	0	0	0
Chillies	0	0	155	32	0	155	32	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		63		55	5,065,269	774	117	53
Tobacco	0	0	52	10	0	52	10	0
CASH CROPS		0		10	0	52	10	0
Total		613		9,813	12,807,600	28,937	10,426	6

5.77 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Insecticide use and Crop for the 2007/08 agriculture year - SHORT RAINY SEASON (VULI) - KILIMANJARO

Same

Crops	Insecticide use							% of Planted area using Insecticide
	Number of Households using Insecticide	Planted Area Insecticide Used	Number of Households NOT using Insecticide	Planted Area Insecticide not Used	Cost of Insecticide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	3,345	2,752	25,703	12,807	60,305,652	29,048	15,559	18
Paddy	2,113	746	1,760	717	15,602,360	3,873	1,463	51
Sorghum	0	0	88	36	0	88	36	0
Finger Millet	0	0	0	0	0	0	0	0
CEREALS		3,498		13,560	75,908,012	33,009	17,058	21
Cassava	0	0	616	187	0	616	187	0
Sweet Potato	0	0	880	111	0	880	111	0
Irish potatoes	0	0	1,496	279	0	1,496	279	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	88	9	0	88	9	0
ROOTS & TUBERS		0		586	0	3,081	586	0
Mung Bean	0	0	0	0	0	0	0	0
Beans	528	428	17,253	6,223	18,045,043	17,781	6,651	6
Cowpeas	0	0	176	82	0	176	82	0
Green gram	0	0	88	18	0	88	18	0
Field Peas	0	0	0	0	0	0	0	0
PULSES		428		6,323	18,045,043	18,045	6,750	6
Sunflower	0	0	528	107	0	528	107	0
Simsim	0	0	0	0	0	0	0	0
Groundnut	0	0	264	53	0	264	53	0
OIL SEEDS & OIL NUTS		0		160	0	792	160	0
Okra	0	0	88	36	0	88	36	0
Radish	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0
Bitteer Aubergine	88	36	0	0	572,160	88	36	100
Onion	704	187	352	71	6,381,783	1,056	258	72
Ginger	0	0	2,113	634	0	2,113	634	0
Cabbage	0	0	88	9	0	88	9	0
Tomatoes	616	121	264	36	12,490,690	880	157	77
Spinach	0	0	88	18	0	88	18	0
Carrot	0	0	0	0	0	0	0	0
Chillies	176	27	0	0	1,144,320	176	27	100
Amaranths	0	0	264	27	0	264	27	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	176	71	0	0	1,408,394	176	71	100
FRUITS & VEGETABLES		442		830	21,997,347	5,017	1,272	35
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		0		0	0	0	0	0
Total		4,368		21,460	115,950,402	59,945	25,828	17

5.75 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Insecticide use and Crop for the 2007/08 agriculture year - SHORT RAINY SEASON (VULI) - KILIMANJARO

Moshi Rural

Crops	Insecticide use							% of Planted area using Insecticide
	Number of Households using Insecticide	Planted Area Insecticide Used	Number of Households NOT using Insecticide	Planted Area Insecticide not Used	Cost of Insecticide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	2,961	1,755	27,920	7,951	19,480,414	30,881	9,707	18
Paddy	2,750	1,515	423	583	19,903,442	3,173	2,098	72
Sorghum	0	0	0	0	0	0	0	0
Finger Millet	0	0	423	109	0	423	109	0
CEREALS		3,270		8,643	39,383,856	34,477	11,913	27
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	0	0	0	0	0
Irish potatoes	0	0	0	0	0	0	0	0
Yams	0	0	423	10	0	423	10	0
Coco Yam	0	0	4,865	314	0	4,865	314	0
ROOTS & TUBERS		0		325	0	5,288	325	0
Mung Bean	0	0	212	4	0	212	4	0
Beans	846	594	20,940	3,754	3,236,160	21,786	4,348	14
Cowpeas	0	0	0	0	0	0	0	0
Green gram	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0
PULSES		594		3,758	3,236,160	21,997	4,352	14
Sunflower	212	171	2,961	766	232,665	3,173	937	18
Simsim	0	0	0	0	0	0	0	0
Groundnut	0	0	0	0	0	0	0	0
OIL SEEDS & OIL NUTS		171		766	232,665	3,173	937	18
Okra	212	43	0	0	380,725	212	43	100
Radish	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0
Ginger	0	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	0	0	0	0	0
Spinach	423	33	212	17	1,057,569	635	50	66
Carrot	0	0	0	0	0	0	0	0
Chillies	0	0	0	0	0	*0*	*0*	0
Amaranths	212	11	0	0	317,271	212	11	100
Pumpkins	212	21	0	0	423,027	212	21	100
Cucumber	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		108		17	2,178,591	1,269	125	86
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		0		0	0	0	0	0
Total		4,143		13,508	45,031,273	66,204	17,652	23

5.76 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Insecticide use and Crop for the 2007/08 agriculture year - SHORT RAINY SEASON (VULI) - KILIMANJARO

Hai

Crops	Insecticide use							
	Number of Households using Insecticide	Planted Area Insecticide Used	Number of Households NOT using Insecticide	Planted Area Insecticide not Used	Cost of Insecticide	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of Planted area using Insecticide
Maize	4,514	1,424	6,250	1,808	30,140,965	10,763	3,232	44
Paddy	521	158	87	35	5,251,342	608	193	82
Sorghum	0	0	0	0	0	0	0	0
Finger Millet	0	0	87	18	0	87	18	0
CEREALS		1,582		1,861	35,392,307	11,457	3,443	46
Cassava	0	0	260	84	0	260	84	0
Sweet Potato	0	0	694	42	0	694	42	0
Irish potatoes	0	0	0	0	0	0	0	0
Yams	0	0	87	3	0	87	3	0
Coco Yam	0	0	87	3	0	87	3	0
ROOTS & TUBERS		0		131	0	1,128	131	0
Mung Bean	0	0	0	0	0	0	0	0
Beans	2,083	492	6,857	1,178	16,648,055	8,940	1,670	29
Cowpeas	174	13	0	0	347,196	174	13	100
Green gram	0	0	0	0	0	0	0	0
Field Peas	0	0	1,042	51	0	1,042	51	0
PULSES		505		1,229	16,995,251	10,155	1,734	29
Sunflower	0	0	174	105	0	174	105	0
Simsim	0	0	0	0	0	0	0	0
Groundnut	0	0	0	0	0	*0*	*0*	0
OIL SEEDS & OIL NUTS		0		105	0	174	105	0
Okra	260	70	87	35	12,412,262	347	105	67
Radish	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0
Bitteer	87	35	87	4	1,215,186			
Aubergine						174	39	91
Onion	955	211	0	0	50,039,644	955	211	100
Ginger	0	0	0	0	0	0	0	0
Cabbage	347	27	260	45	1,011,209	608	71	38
Tomatoes	781	174	434	70	9,227,605	1,215	244	71
Spinach	260	21	347	20	1,041,588	*608*	*41*	51
Carrot	87	35	347	44	1,562,383	434	79	44
Chillies	434	45	694	68	2,777,569	1,128	113	40
Amaranths	0	0	1,128	84	0	1,128	84	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	260	61	260	16	1,779,380	521	78	79
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		680		386	81,066,827	7,118	1,065	64
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		0		0	0	0	0	0
Total		2,767		3,712	133,454,384	30,032	6,479	43

5.77 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Insecticide use and Crop for the 2007/08 agriculture year - SHORT RAINY SEASON (VULI) - KILIMANJARO

Siha

Crops	Insecticide use							% of Planted area using Insecticide
	Number of Households using Insecticide	Planted Area Insecticide Used	Number of Households NOT using Insecticide	Planted Area Insecticide not Used	Cost of Insecticide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	125	51	1,626	569	468,957	1,751	619	8
Paddy	0	0	0	0	0	0	0	0
Sorghum	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0
CEREALS		51		569	468,957	1,751	619	8
Cassava	0	0	63	13	0	63	13	0
Sweet Potato	0	0	0	0	0	0	0	0
Irish potatoes	125	139	125	38	2,376,049	250	177	79
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
ROOTS & TUBERS		139		51	2,376,049	313	190	73
Mung Bean	0	0	188	58	0	188	58	0
Beans	250	94	5,002	1,752	781,595	5,252	1,846	5
Cowpeas	0	0	0	0	0	0	0	0
Green gram	0	0	0	0	0	0	0	0
Field Peas	0	0	63	6	0	63	6	0
PULSES		94		1,816	781,595	5,502	1,909	5
Sunflower	0	0	438	47	0	438	47	0
Simsim	0	0	0	0	0	0	0	0
Groundnut	0	0	0	0	0	0	0	0
OIL SEEDS & OIL NUTS		0		47	0	438	47	0
Okra	0	0	0	0	0	0	0	0
Radish	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0
Ginger	0	0	0	0	0	0	0	0
Cabbage	63	13	0	0	562,748	63	13	100
Tomatoes	313	68	0	0	5,596,221	313	68	100
Spinach	0	0	0	0	0	0	0	0
Carrot	63	8	0	0	0	63	8	100
Chillies	125	19	0	0	1,438,135	125	19	100
Amaranths	0	0	125	14	0	125	14	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		108		14	7,597,104	688	122	89
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		0		0	0	0	0	0
Total		391		2,496	11,223,706	8,691	2,887	14

5.78 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Insecticide use and Crop for the 2007/08 agriculture year - SHORT RAINY SEASON (VULI) - KILIMANJARO

Total

Crops	Insecticide use							% of Planted area using Insecticide
	Number of Households using Insecticide	Planted Area Insecticide Used	Number of Households NOT using Insecticide	Planted Area Insecticide not Used	Cost of Insecticide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	24,145	9,812	94,084	34,706	156,322,311	118,229	44,517	22
Paddy	5,383	2,419	2,838	1,764	40,757,143	8,221	4,183	58
Sorghum	0	0	140	46	0	140	46	0
Finger Millet	649	109	1,483	325	1,037,719	2,131	435	25
CEREALS		12,340		36,841	198,117,174	128,720	49,181	25
Cassava	108	18	939	283	432,383	1,047	301	6
Sweet Potato	0	0	3,070	409	0	3,070	409	0
Irish potatoes	125	139	1,889	372	2,376,049	2,014	511	27
Yams	0	0	665	31	0	665	31	0
Coco Yam	0	0	6,076	395	0	6,076	395	0
ROOTS & TUBERS		157		1,490	2,808,432	12,873	1,647	10
Mung Bean	0	0	399	62	0	399	62	0
Beans	8,228	2,464	76,794	18,218	51,952,320	85,022	20,682	12
Cowpeas	2,444	365	3,441	589	5,484,986	5,885	955	38
Green gram	432	51	1,540	235	445,354	1,972	286	18
Field Peas	0	0	1,104	56	0	1,104	56	0
PULSES		2,880		19,160	57,882,660	94,382	22,041	13
Sunflower	752	236	10,274	2,334	1,151,479	11,026	2,570	9
Simsim	0	0	108	7	0	108	7	0
Groundnut	216	28	3,450	635	567,503	3,667	663	4
OIL SEEDS & OIL NUTS		264		2,975	1,718,981	14,801	3,239	8
Okra	472	113	335	77	12,792,987	806	190	59
Radish	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0
Bitteer Aubergine	278	81	87	4	2,535,273	365	85	96
Onion	1,659	398	404	82	56,421,427	2,063	480	83
Ginger	0	0	2,113	634	0	2,113	634	0
Cabbage	513	50	348	53	2,347,674	861	103	48
Tomatoes	1,916	405	801	116	30,858,142	2,718	522	78
Spinach	683	53	647	55	2,099,157	1,330	108	49
Carrot	149	43	347	44	1,562,383	497	87	49
Chillies	735	91	849	100	5,360,024	1,584	191	48
Amaranths	212	11	1,518	125	317,271	1,729	136	8
Pumpkins	212	21	0	0	423,027	212	21	100
Cucumber	260	61	260	16	1,779,380	521	78	79
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	176	71	0	0	1,408,394	176	71	100
FRUITS & VEGETABLES		1,400		1,306	117,905,139	14,974	2,706	52
Tobacco	0	0	52	10	0	52	10	0
CASH CROPS		0		10	0	52	10	0
Total		17,040		61,783	378,432,386	265,801	78,824	22

INPUT USE LONG RAINY SEASON

5.72 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop growing Households by Fungicide Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - KILIMANJARO

Rombo

Crops	Fungicide use							% of Planted area using Fungicide
	Number of Households using Fungicide	Planted Area Fungicide Used	Number of Households NOT using Fungicide	Planted Area Fungicide not Used	Cost of Fungicide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	216	88	14,052	3,036	3,459,063	14,269	3,124	2.8
Paddy	0	0	0	0	0	0	0	0.0
Sorghum	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	6,161	1,548	0	6,161	1,548	0.0
CEREALS		88		4,584	3,459,063	20,430	4,672	1.9
Cassava	0	0	0	0	0	0	0	0.0
Sweet Potato	0	0	0	0	0	0	0	0.0
Irish potatoes	649	197	108	22	40,643,992	757	219	90.0
Yams	0	0	0	0	0	0	0	0.0
Coco Yam	0	0	0	0	0	0	0	0.0
ROOTS & TUBERS		197		22	40,643,992	757	219	90.0
Mung Bean	0	0	0	0	0	0	0	0.0
Beans	865	395	16,863	4,653	18,376,273	17,728	5,048	7.8
Cowpeas	0	0	4,864	998	0	4,864	998	0.0
Green gram	0	0	973	165	0	973	165	0.0
Field Peas	0	0	0	0	0	0	0	0.0
PULSES		395		5,815	18,376,273	23,565	6,210	6.4
Sunflower	0	0	4,756	786	0	4,756	786	0.0
Simsim	0	0	0	0	0	0	0	0.0
Groundnut	0	0	3,135	581	0	3,135	581	0.0
OIL SEEDS & OIL NUTS		0		1,367	0	7,891	1,367	0.0
Okra	0	0	0	0	0	0	0	0.0
Radish	0	0	0	0	0	0	0	0.0
Turmeric	0	0	0	0	0	0	0	0.0
Bitteer Aubergine	0	0	0	0	0	0	0	0.0
Onion	0	0	0	0	0	0	0	0.0
Ginger	0	0	0	0	0	0	0	0.0
Cabbage	0	0	0	0	0	0	0	0.0
Tomatoes	0	0	0	0	0	0	0	0.0
Spinach	0	0	0	0	0	0	0	0.0
Carrot	0	0	0	0	0	0	0	0.0
Chillies	0	0	0	0	0	*0*	0	0.0
Amaranths	0	0	0	0	0	0	0	0.0
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	0	0	0	0	0	0	0	0.0
Egg Plant	0	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		0		0	0	0	0	0.0
Tobacco	0	0	0	0	0	0	0	0.0
CASH CROPS		0		0	0	0	0	0.0
Total		679		11,789	62,479,328	52,643	12,468	5.4

5.74 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop growing Households by Fungicide Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - KILIMANJARO

Mwanga

Crops	Fungicide use							% of Planted area using Fungicide
	Number of Households using Fungicide	Planted Area Fungicide Used	Number of Households NOT using Fungicide	Planted Area Fungicide not Used	Cost of Fungicide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	52	59	13,360	6,370	180,534	13,411	6,429	0.9
Paddy	0	0	516	240	0	516	240	0.0
Sorghum	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	0	0	0	0	0	0.0
CEREALS		59		6,610	180,534	13,927	6,669	0.9
Cassava	0	0	52	10	0	52	10	0.0
Sweet Potato	0	0	309	39	0	309	39	0.0
Irish potatoes	0	0	0	0	0	0	0	0.0
Yams	0	0	155	5	0	155	5	0.0
Coco Yam	0	0	361	25	0	361	25	0.0
ROOTS & TUBERS		0		80	0	877	80	0.0
Mung Bean	0	0	0	0	0	0	0	0.0
Beans	103	42	9,439	2,527	4,307,026	9,543	2,569	1.6
Cowpeas	52	1	774	254	20,632	825	255	0.5
Green gram	0	0	103	22	0	103	22	0.0
Field Peas	0	0	0	0	0	0	0	0.0
PULSES		43		2,803	4,327,659	10,471	2,846	1.5
Sunflower	0	0	567	245	0	567	245	0.0
Simsim	0	0	0	0	0	0	0	0.0
Groundnut	0	0	52	21	0	52	21	0.0
OIL SEEDS & OIL NUTS		0		266	0	619	266	0.0
Okra	0	0	52	4	0	52	4	0.0
Radish	0	0	0	0	0	0	0	0.0
Turmeric	0	0	0	0	0	0	0	0.0
Bitteer Aubergine	0	0	0	0	0	0	0	0.0
Onion	0	0	0	0	0	0	0	0.0
Ginger	0	0	52	5	0	52	5	0.0
Cabbage	103	8	103	10	1,124,469	206	19	44.4
Tomatoes	155	49	52	5	1,521,644	206	54	90.4
Spinach	0	0	0	0	0	0	0	0.0
Carrot	0	0	0	0	0	0	0	0.0
Chillies	0	0	52	4	0	52	4	0.0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		57		29	2,646,113	567	87	66.3
Tobacco	0	0	52	3	0	52	3	0.0
CASH CROPS		0		3	0	52	3	0.0
Total		159		9,791	7,154,306	26,513	9,951	1.6

5.72 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop growing Households by Fungicide Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - KILIMANJARO

Same

Crops	Fungicide use							% of Planted area using Fungicide
	Number of Households using Fungicide	Planted Area Fungicide Used	Number of Households NOT using Fungicide	Planted Area Fungicide not Used	Cost of Fungicide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	88	36	9,947	5,201	1,320,369	10,035	5,236	0.7
Paddy	176	71	440	151	1,336,213	616	223	32.0
Sorghum	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	0	0	0	0	0	0.0
CEREALS		107		5,352	2,656,582	10,651	5,459	2.0
Cassava	0	0	88	36	0	88	36	0.0
Sweet Potato	0	0	264	36	0	264	36	0.0
Irish potatoes	88	9	880	187	968,271	968	196	4.5
Yams	0	0	0	0	0	0	0	0.0
Coco Yam	0	0	88	18	0	88	18	0.0
ROOTS & TUBERS		9		276	968,271	1,408	285	3.1
Mung Bean	0	0	88	36	0	88	36	0.0
Beans	88	36	16,637	5,797	528,148	16,725	5,833	0.6
Cowpeas	88	36	176	110	220,061	264	146	24.4
Green gram	88	36	0	0	220,061	88	36	99.0
Field Peas	0	0	0	0	0	0	0	0.0
PULSES		107		5,943	968,271	17,165	6,050	1.8
Sunflower	88	107	264	53	220,061	352	160	66.7
Simsim	0	0	0	0	0	0	0	0.0
Groundnut	0	0	264	45	0	264	45	0.0
OIL SEEDS & OIL NUTS		107		98	220,061	616	205	52.2
Okra	0	0	0	0	0	0	0	0.0
Radish	0	0	0	0	0	0	0	0.0
Turmeric	0	0	0	0	0	0	0	0.0
Bitteer Aubergine	88	9	88	9	88,025	176	18	50.0
Onion	88	9	88	9	1,408,394	176	18	50.0
Ginger	0	0	352	169	0	352	169	0.0
Cabbage	88	1	176	13	176,049	264	14	4.3
Tomatoes	1,056	196	440	45	15,906,045	1,496	241	81.5
Spinach	0	0	88	9	0	88	9	0.0
Carrot	88	1	176	13	88,025	264	14	0.0
Chillies	0	0	0	0	0	*0*	*0*	0.0
Amaranths	88	9	440	45	44,012	528	53	16.7
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	0	0	0	0	0	0	0	0.0
Egg Plant	0	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		224		311	17,710,549	3,345	535	41.9
Tobacco	0	0	0	0	0	0	0	0.0
CASH CROPS	0	0	0	0	0	0	0	0.0
Total		554		11,981	22,523,734	33,185	12,534	4.4

5.74 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop growing Households by Fungicide Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - National

Moshi Rural

Crops	Fungicide use							% of Planted area using Fungicide
	Number of Households using Fungicide	Planted Area Fungicide Used	Number of Households NOT using Fungicide	Planted Area Fungicide not Used	Cost of Fungicide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	0	0	41,245	23,035	0	41,245	23,035	0
Paddy	423	107	0	0	4,272,577	423	107	100
Sorghum	0	0	635	86	0	635	86	0
Finger Millet	0	0	635	66	0	635	66	0
CEREALS		107		23,187	4,272,577	42,937	23,294	0.5
Cassava	0	0	423	35	0	423	35	0
Sweet Potato	0	0	0	0	0	0	0	0
Irish potatoes	0	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	1,692	101	0	1,692	101	0
ROOTS & TUBERS		0		136	0	2,115	136	0
Mung Bean	0	0	0	0	0	0	0	0
Beans	212	43	20,517	3,976	1,057,569	20,728	4,019	1.1
Cowpeas	0	0	0	0	0	0	0	0
Green gram	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0
PULSES		43		3,976	1,057,569	20,728	4,019	1.1
Sunflower	0	0	6,768	1,227	0	6,768	1,227	0
Simsim	0	0	0	0	0	0	0	0
Groundnut	0	0	846	278	0	846	278	0
OIL SEEDS & OIL NUTS		0		1,505	0	7,614	1,505	0
Okra	0	0	212	21	0	212	21	0
Radish	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0
Bitteer	0	0	0	0	0		0	0
Aubergine						0		
Onion	0	0	0	0	0	0	0	0
Ginger	0	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0	0
Tomatoes	1,692	152	423	86	19,247,749	2,115	238	64
Spinach	0	0	635	81	0	635	81	0
Carrot	0	0	0	0	0	0	0	0
Chillies	846	86	212	43	41,879,718	1,058	128	66.7
Amaranths	0	0	212	13	0	212	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	212	10	0	0	846,055	212	10	102.8
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		248		244	61,973,522	4,442	492	50.4
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		0		0	0	0	0	0
Total		398		29,048	67,303,668	77,837	29,447	1.4

5.72 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop growing Households by Fungicide Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - KILIMANJARO

Hai

Crops	Fungicide use							% of Planted area using Fungicide
	Number of Households using Fungicide	Planted Area Fungicide Used	Number of Households NOT using Fungicide	Planted Area Fungicide not Used	Cost of Fungicide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	521	131	27,168	12,134	3,072,686	27,689	12,265	1.1
Paddy	0	0	608	193	0	608	193	0.0
Sorghum	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	0	0	0	0	0	0.0
CEREALS		131		12,328	3,072,686	28,296	12,458	1.0
Cassava	0	0	0	0	0	0	0	0.0
Sweet Potato	0	0	0	0	0	0	0	0.0
Irish potatoes	0	0	0	0	0	0	0	0.0
Yams	0	0	87	3	0	87	3	0.0
Coco Yam	0	0	87	3	0	87	3	0.0
ROOTS & TUBERS		0		6	0	174	6	0.0
Mung Bean	0	0	0	0	0	0	0	0.0
Beans	260	39	21,092	4,398	729,112	21,353	4,437	0.9
Cowpeas	0	0	0	0	0	0	0	0.0
Green gram	0	0	434	176	0	434	176	0.0
Field Peas	0	0	87	2	0	87	2	0.0
PULSES		39		4,575	729,112	21,873	4,614	0.9
Sunflower	0	0	5,208	568	0	5,208	568	0.0
Simsim	0	0	87	9	0	87	9	0.0
Groundnut	0	0	0	0	0	0	0	0.0
OIL SEEDS & OIL NUTS		0		577	0	5,295	577	0.0
Okra	174	70	0	0	4,166,354	174	70.0	100.4
Radish	0	0	0	0	0	0	0.0	0.0
Turmeric	0	0	0	0	0	0	0.0	0.0
Bitteer Aubergine	0	0	174	21	0	174	21	0.0
Onion	0	0	0	0	0	0	0.0	0.0
Ginger	0	0	0	0	0	0	0.0	0.0
Cabbage	0	0	174	14	0	174	14	0.0
Tomatoes	174	26	434	88	1,822,780	608	114	23.1
Spinach	0	0	434	114	0	434	114	0.0
Carrot	0	0	0	0	0	0	0	0.0
Chillies	0	0	87	9	0	*87*	*9*	0.0
Amaranths	0	0	694	311	0	694	311	0.0
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	87	26	260	44	1,562,383	347	70	37.5
Egg Plant	0	0	260	38	0	260	38	0.0
Water Mellon	0	0	87	18	0	87	18	0.0
FRUITS & VEGETABLES		123		657	7,551,516	3,038	780	15.8
Tobacco	0	0	174	18	0	174	18	0.0
CASH CROPS		0		18	0	174	18	0.0
Total		293		18,159	11,353,314	58,850	18,452	1.6

5.74 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop growing Households by Fungicide Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - National

Siha

Crops	Fungicide use							% of Planted area using Fungicide
	Number of Households using Fungicide	Planted Area Fungicide Used	Number of Households NOT using Fungicide	Planted Area Fungicide not Used	Cost of Fungicide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	250	117	18,696	13,208	6,377,816	18,946	13,325	0.9
Paddy	0	0	63	20	0	63	20	0.0
Sorghum	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	438	89	0	438	89	0.0
CEREALS		117		13,317	6,377,816	19,446	13,434	0.9
Cassava	0	0	0	0	0	0	0	0.0
Sweet Potato	0	0	0	0	0	0	0	0.0
Irish potatoes	125	101	0	0	3,751,656	125	101	100.3
Yams	0	0	63	9	0	63	9	0.0
Coco Yam	0	0	0	0	0	0	0	0.0
ROOTS & TUBERS		101		9	3,751,656	188	110	91.7
Mung Bean	0	0	0	0	0	0	0	0.0
Beans	188	37	13,193	3,673	2,688,687	13,381	3,710	1.0
Cowpeas	0	0	0	0	0	0	0	0.0
Green gram	0	0	0	0	0	0	0	0.0
Field Peas	0	0	125	30	0	125	30	0.0
PULSES		37		3,703	2,688,687	13,506	3,741	1.0
Sunflower	0	0	3,939	964	0	3,939	964	0.0
Simsim	0	0	0	0	0	0	0	0.0
Groundnut	0	0	0	0	0	0	0	0.0
OIL SEEDS & OIL NUTS		0		964	0	3,939	964	0.0
Okra	0	0	63	25	0	63	25	0.0
Radish	0	0	63	25	0	63	25	0.0
Turmeric	0	0	63	6	0	63	6	0.0
Bitteer Aubergine	0	0	0	0	0	0	0	0.0
Onion	0	0	0	0	0	0	0	0.0
Ginger	0	0	0	0	0	0	0	0.0
Cabbage	63	13	63	51	1,875,828	125	63	20.0
Tomatoes	188	63	63	13	9,379,141	250	76	83.3
Spinach	0	0	63	10	0	63	10	0.0
Carrot	63	10	63	13	875,387	125	22	0.0
Chillies	63	13	0	0	1,875,828	63	13	97.4
Amaranths	0	0	63	6	0	63	6	0.0
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	0	0	0	0	0	0	0	0.0
Egg Plant	0	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		98		149	14,006,184	875	247	39.8
Tobacco	0	0	0	0	0	0	0	0.0
CASH CROPS		0		0	0	0	0	0.0
Total		354		18,142	26,824,344	37,954	18,496	1.9

5.75 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop growing Households by Fungicide Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - KILIMANJARO

Total

Crops	Fungicide use							% of Planted area using Fungicide
	Number of Households using Fungicide	Planted Area Fungicide Used	Number of Households NOT using Fungicide	Planted Area Fungicide not Used	Cost of Fungicide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	1,127	430	124,468	62,985	14,410,468	125,594	63,414	0.7
Paddy	599	178	1,626	605	5,608,791	2,225	783	22.8
Sorghum	0	0	635	86	0	635	86	0.0
Finger Millet	0	0	7,234	1,702	0	7,234	1,702	0.0
CEREALS		608		65,378	20,019,259	135,688	65,986	0.9
Cassava	0	0	563	81	0	563	81	0.0
Sweet Potato	0	0	574	75	0	574	75	0.0
Irish potatoes	862	307	988	209	45,363,919	1,850	516	59.5
Yams	0	0	304	17	0	304	17	0.0
Coco Yam	0	0	2,228	147	0	2,228	147	0.0
ROOTS & TUBERS		307		529	45,363,919	5,518	836	36.7
Mung Bean	0	0	88	36	0	88	36	0.0
Beans	1,715	592	97,741	25,024	27,686,814	99,457	25,616	2.3
Cowpeas	140	37	5,814	1,362	240,694	5,954	1,399	2.6
Green gram	88	36	1,510	362	220,061	1,598	397	9.0
Field Peas	0	0	212	32	0	212	32	0.0
PULSES		664		26,816	28,147,570	107,308	27,480	2.4
Sunflower	88	107	21,503	3,845	220,061	21,591	3,951	2.7
Simsim	0	0	87	9	0	87	9	0.0
Groundnut	0	0	4,296	924	0	4,296	924	0.0
OIL SEEDS & OIL NUTS		107		4,778	220,061	25,975	4,885	2.2
Okra	174	70	326	51	4,166,354	499	121	58.0
Radish	0	0	63	25	0	63	25	0.0
Turmeric	0	0	63	6	0	63	6	0.0
Bitteer Aubergine	88	9	262	30	88,025	350	39	22.9
Onion	88	9	88	9	1,408,394	176	18	50.0
Ginger	0	0	404	174	0	404	174	0.0
Cabbage	254	22	515	88	3,176,347	769	110	19.6
Tomatoes	3,264	487	1,411	236	47,877,359	4,676	723	67.4
Spinach	0	0	1,219	214	0	1,219	214	0.0
Carrot	151	10	239	26	963,411	389	36	28.5
Chillies	909	98	350	56	43,755,547	1,258	154	63.8
Amaranths	88	9	1,409	375	44,012	1,497	384	2.3
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	298	37	260	44	2,408,438	559	81	45.5
Egg Plant	0	0	260	38	0	260	38	0.0
Water Mellon	0	0	87	18	0	87	18	0.0
FRUITS & VEGETABLES		751		1,390	103,887,885	12,267	2,141	35.1
Tobacco	0	0	225	20	0	225	20	0.0
CASH CROPS		0		20	0	225	20	0.0
Total		2,437		98,910	197,638,694	286,982	101,347	2.4

5.75 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Insecticide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - KILIMANJARO

Rombo

Crops	Insecticide use							% of Planted area using Insecticide
	Number of Households using Insecticide	Planted Area Insecticide Used	Number of Households NOT using Insecticide	Planted Area Insecticide not Used	Cost of Insecticide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	3,783	868	10,485	2,256	8,533,076	14,269	3,124	27.8
Paddy	0	0	0	0	0	0	0	0.0
Sorghum	0	0	0	0	0	0	0	0.0
Finger Millet	1,081	335	5,080	1,213	2,561,869	6,161	1,548	21.6
CEREALS		1,203		3,469	11,094,945	20,430	4,672	25.8
Cassava	0	0	0	0	0	0	0	0.0
Sweet Potato	0	0	0	0	0	0	0	0.0
Irish potatoes	0	0	757	219	0	757	219	0.0
Yams	0	0	0	0	0	0	0	0.0
Coco Yam	0	0	0	0	0	0	0	0.0
ROOTS & TUBERS		0		219	0	757	219	0.0
Mung Bean	0	0	0	0	0	0	0	0.0
Beans	4,000	1,517	13,728	3,530	12,646,119	17,728	5,048	30.1
Cowpeas	2,378	452	2,486	546	31,220,207	4,864	998	45.3
Green gram	324	60	649	105	647,493	973	165	36.2
Field Peas	0	0	0	0	0	0	0	0.0
PULSES		2,029		4,181	44,513,819	23,565	6,210	32.7
Sunflower	216	28	4,540	759	324,287	4,756	786	3.5
Simsim	0	0	0	0	0	0	0	0.0
Groundnut	108	6	3,027	575	8,648	3,135	581	1.0
OIL SEEDS & OIL NUTS		33		1,334	332,935	7,891	1,367	2.4
Okra	0	0	0	0	0	0	0	0.0
Radish	0	0	0	0	0	0	0	0.0
Turmeric	0	0	0	0	0	0	0	0.0
Bitteer Aubergine	0	0	0	0	0	0	0	0.0
Onion	0	0	0	0	0	0	0	0.0
Ginger	0	0	0	0	0	0	0	0.0
Cabbage	0	0	0	0	0	0	0	0.0
Tomatoes	0	0	0	0	0	0	0	0.0
Spinach	0	0	0	0	0	0	0	0.0
Carrot	0	0	0	0	0	0	0	0.0
Chillies	0	0	0	0	0	0	0	0.0
Amaranths	0	0	0	0	0	0	0	0.0
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	0	0	0	0	0	0	0	0.0
Egg Plant	0	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		0		0	0	0	0	0.0
Tobacco	0	0	0	0	0	0	0	0.0
CASH CROPS		0		0	0	0	0	0.0
Total		3,265		9,203	55,941,699	52,643	12,468	26.2

5.76 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Insecticide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - KILIMANJARO

Mwanga

Crops	Insecticide use							% of Planted area using Insecticide
	Number of Households using Insecticide	Planted Area Insecticide Used	Number of Households NOT using Insecticide	Planted Area Insecticide not Used	Cost of Insecticide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	567	230	12,792	6,199	3,419,830	13,360	6,429	3.6
Paddy	52	10	464	230	77,372	516	240	4.3
Sorghum	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	0	0	0	0	0	0.0
CEREALS		240		6,429	3,497,202	13,875	6,669	3.6
Cassava	0	0	52	10	0	52	10	0.0
Sweet Potato	0	0	309	39	0	309	39	0.0
Irish potatoes	0	0	0	0	0	0	0	0.0
Yams	0	0	155	5	0	155	5	0.0
Coco Yam	0	0	361	25	0	361	25	0.0
ROOTS & TUBERS		0		80	0	877	80	0.0
Mung Bean	0	0	0	0	0	0	0	0.0
Beans	671	224	8,872	2,345	3,561,678	9,543	2,569	0.0
Cowpeas	155	60	619	196	526,128	774	255	23.3
Green gram	0	0	103	22	0	103	22	0.0
Field Peas	0	0	0	0	0	0	0	0.0
PULSES		284		2,562	4,087,806	10,419	2,846	0.0
Sunflower	52	21	516	224	51,581	567	245	0.0
Simsim	0	0	0	0	0	0	0	0.0
Groundnut	0	0	52	21	0	*52*	*21*	0.0
OIL SEEDS & OIL NUTS		21		245	51,581	619	266	0.0
Okra	0	0	52	4	0	52	4	0.0
Radish	0	0	0	0	0	0	0	0.0
Turmeric	0	0	0	0	0	0	0	0.0
Bitteer Aubergine	0	0	0	0	0	0	0	0.0
Onion	0	0	0	0	0	0	0	0.0
Ginger	0	0	52	5	0	52	5	0.0
Cabbage	103	8	103	10	1,289,529	206	19	44.4
Tomatoes	206	54	0	0	3,404,356	206	54	0.0
Spinach	0	0	0	0	0	*0*	*0*	0.0
Carrot	0	0	0	0	0			0.0
Chillies	0	0	52	4	0	52	4	0.0
Amaranths	0	0	0	0	0	0	0	0.0
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	0	0	0	0	0	0	0	0.0
Egg Plant	0	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		63		24	4,693,885	567	87	72.3
Tobacco	0	0	52	3	0	52	3	3
CASH CROPS		0		3	0	52	3	3
Total		607		9,343	12,330,474	26,410	9,951	6.1

5.77 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Insecticide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - KILIMANJARO

Same

Crops	Insecticide use							% of Planted area using Insecticide
	Number of Households using Insecticide	Planted Area Insecticide Used	Number of Households NOT using Insecticide	Planted Area Insecticide not Used	Cost of Insecticide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	1,144	614	8,890	4,622	11,997,753	10,035	5,236	11.7
Paddy	440	178	176	45	4,379,224	616	223	80.0
Sorghum	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	0	0	0	0	0	0.0
CEREALS		792		4,667	16,376,976	10,651	5,459	14.5
Cassava	0	0	88	36	0	88	36	0.0
Sweet Potato	0	0	264	36	0	264	36	0.0
Irish potatoes	88	9	880	187	968,271	968	196	4.5
Yams	0	0	0	0	0	0	0	0.0
Coco Yam	0	0	88	18	0	88	18	0.0
ROOTS & TUBERS		9		276	968,271	1,408	285	3.1
Mung Bean	0	0	88	36	0	88	36	0.0
Beans	264	178	16,461	5,655	2,262,232	16,725	5,833	3.1
Cowpeas	88	36	176	110	880,246	264	146	24.4
Green gram	88	36	0	0	880,246	88	36	99.0
Field Peas	0	0	0	0	0	0	0	0.0
PULSES		249		5,801	4,022,724	17,165	6,050	4.1
Sunflower	88	107	264	53	880,246	352	160	66.7
Simsim	0	0	0	0	0	0	0	0.0
Groundnut	0	0	264	45	0	264	45	0.0
OIL SEEDS & OIL NUTS		107		98	880,246	616	205	52.2
Okra	0	0	0	0	0	0	0	0.0
Radish	0	0	0	0	0	0	0	0.0
Turmeric	0	0	0	0	0	0	0	0.0
Bitteer Aubergine	88	9	88	9	264,074	176	18	50.0
Onion	88	2	176	16	70,420	264	18	12.5
Ginger	0	0	352	169	0	352	169	0.0
Cabbage	0	0	176	14	0	176	14	0.0
Tomatoes	968	172	616	69	10,298,878	1,584	241	71.3
Spinach	0	0	88	9	0	88	9	0.0
Carrot	0	0	176	14	0	176	14	0.0
Chillies	0	0	0	0	0	0	0	0.0
Amaranths	176	18	352	36	352,098	528	53	33.3
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	0	0	0	0	0	0	0	0.0
Egg Plant	0	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		200		334	10,985,470	3,345	535	37.5
Tobacco	0	0	0	0	0	0	0	0.0
CASH CROPS		0		0	0	0	0	0.0
Total		1,358		11,176	33,233,687	33,185	12,534	10.8

5.75 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Insecticide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - KILIMANJARO

Moshi Rural

Crops	Insecticide use							% of Planted area using Insecticide
	Number of Households using Insecticide	Planted Area Insecticide Used	Number of Households NOT using Insecticide	Planted Area Insecticide not Used	Cost of Insecticide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	10,787	10,496	30,669	12,539	106,666,373	41,457	23,035	45.6
Paddy	423	107	0	0	2,115,137	423	107	100.0
Sorghum	0	0	635	86	0	635	86	0.0
Finger Millet	212	21	423	45	549,936	635	66	32.5
CEREALS		10,624		12,669	109,331,446	43,149	23,294	45.6
Cassava	0	0	423	35	0	423	0	0.0
Sweet Potato	0	0	0	0	0	0	0	0.0
Irish potatoes	0	0	0	0	0	0	0	0.0
Yams	0	0	0	0	0	0	0	0.0
Coco Yam	0	0	1,692	101	0	1,692	101	0.0
ROOTS & TUBERS		0		136	0	2,115	136	0.0
Mung Bean	0	0	0	0	0	0	0	0.0
Beans	3,384	1,464	17,344	2,554	12,764,854	20,728	4,019	36.4
Cowpeas	0	0	0	0	0	0	0	0.0
Green gram	0	0	0	0	0	0	0	0.0
Field Peas	0	0	0	0	0	0	0	0.0
PULSES		1,464		2,554	12,764,854	20,728	4,019	36.4
Sunflower	635	120	6,134	1,107	9,391,210	6,768	1,227	9.8
Simsim	0	0	0	0	0	0	0	0.0
Groundnut	0	0	846	278	0	846	278	0.0
OIL SEEDS & OIL NUTS		120		1,386	9,391,210	7,614	1,505	8.0
Okra	212	21	0	0	465,330	212	21	101.9
Radish	0	0	0	0	0	0	0	0.0
Turmeric	0	0	0	0	0	0	0	0.0
Bitteer Aubergine	0	0	0	0	0	0	0	0.0
Onion	0	0	0	0	0	0	0	0.0
Ginger	0	0	0	0	0	0	0	0.0
Cabbage	0	0	0	0	0	0	0	0.0
Tomatoes	1,904	235	212	3	23,583,781	2,115	238	98.9
Spinach	212	69	423	13	2,538,165	635	81	84.2
Carrot	0	0	0	0	0	0	0	0.0
Chillies	1,058	128	0	0	14,488,690	*1,058*	*128*	0.0
Amaranths	0	0	212	13	0	212	13	0.0
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	212	10	0	0	592,238	212	0	0.0
Egg Plant	0	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		464		28	41,668,205	4,442	492	94.3
Tobacco	0	0	0	0	0	0	0	0.0
CASH CROPS		0		0	0	0	0	0.0
Total		12,673		16,774	173,155,714	78,049	29,447	43.0

5.76 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Insecticide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - KILIMANJARO
Hai

Crops	Insecticide use							% of Planted area using Insecticide
	Number of Households using Insecticide	Planted Area Insecticide Used	Number of Households NOT using Insecticide	Planted Area Insecticide not Used	Cost of Insecticide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	10,155	4,444	17,620	7,821	106,051,061	27,776	12,265	36.2
Paddy	521	158	87	35	3,879,917	608	193	81.8
Sorghum	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	0	0	0	0	0	0.0
CEREALS		4,602		7,856	109,930,978	28,383	12,458	36.9
Cassava	0	0	0	0	0	0	0	0.0
Sweet Potato	0	0	0	0	0	0	0	0.0
Irish potatoes	0	0	0	0	0	0	0	0.0
Yams	0	0	87	3	0	87	3	0.0
Coco Yam	0	0	87	3	0	87	3	0.0
ROOTS & TUBERS		0		6	0	174	6	0.0
Mung Bean	0	0	0	0	0	0	0	0.0
Beans	2,778	548	18,662	3,889	20,441,173	21,439	4,437	0.0
Cowpeas	0	0	0	0	0	0	0	0.0
Green gram	0	0	434	176	0	434	176	0.0
Field Peas	0	0	87	2	0	87	2	0.0
PULSES		548		4,067	20,441,173	21,960	4,614	0.0
Sunflower	0	0	5,208	568	0	5,208	568	0.0
Simsim	0	0	87	9	0	87	9	0.0
Groundnut	0	0	0	0	0	*0*	*0*	0.0
OIL SEEDS & OIL NUTS		0		577	0	5,295	577	0.0
Okra	174	70	0	0	3,992,756	174	0	0.0
Radish	0	0	0	0	0	0	0	0.0
Turmeric	0	0	0	0	0	0	0	0.0
Bitteer Aubergine	87	18	87	4	737,792	174	21	83.3
Onion	0	0	0	0	0	0	0	0.0
Ginger	0	0	0	0	0	0	0	0.0
Cabbage	87	9	87	6	520,794	174	14	61.0
Tomatoes	174	26	434	88	2,603,971	608	114	0.0
Spinach	0	0	434	114	0	*434*	*114*	0.0
Carrot	0	0	0	0	0			0.0
Chillies	0	0	87	9	0	87	9	0.0
Amaranths	87	9	608	302	1,301,986	694	311	2.8
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	87	26	260	44	1,041,588	347	70	37.5
Egg Plant	0	0	260	38	0	260	260	0.0
Water Mellon	0	0	87	18	0	87	87	0.0
FRUITS & VEGETABLES		158		622	10,198,887	3,038	780	20.3
Tobacco	0	0	174	18	0	174	18	0.0
CASH CROPS		0		18	0	174	18	0.0
Total		5,308		13,145	140,571,037	59,023	18,452	28.8

5.77 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Insecticide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - KILIMANJARO

Siha

Crops	Insecticide use							% of Planted area using Insecticide
	Number of Households using Insecticide	Planted Area Insecticide Used	Number of Households NOT using Insecticide	Planted Area Insecticide not Used	Cost of Insecticide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	2,751	2,605	16,507	10,720	24,106,769	19,259	13,325	19.6
Paddy	0	0	63	20	0	63	20	0.0
Sorghum	0	0	0	0	0	0	0	0.0
Finger Millet	63	6	375	82	31,264	438	89	7.1
CEREALS		2,612		10,822	24,138,033	19,759	13,434	19.4
Cassava	0	0	0	0	0	0	0	0.0
Sweet Potato	0	0	0	0	0	0	0	0.0
Irish potatoes	125	76	125	25	3,001,325	250	101	75.0
Yams	0	0	63	9	0	63	9	0.0
Coco Yam	0	0	0	0	0	0	0	0.0
ROOTS & TUBERS		76		34	3,001,325	313	110	68.8
Mung Bean	0	0	0	0	0	0	0	0.0
Beans	3,001	1,058	10,442	2,652	15,112,923	13,443	3,710	28.5
Cowpeas	0	0	0	0	0	0	0	0.0
Green gram	0	0	0	0	0	0	0	0.0
Field Peas	0	0	125	30	0	125	30	0.0
PULSES		1,058		2,682	15,112,923	13,568	3,741	28.3
Sunflower	813	164	3,189	800	3,001,325	4,002	964	17.0
Simsim	0	0	0	0	0	0	0	0.0
Groundnut	0	0	0	0	0	0	0	0.0
OIL SEEDS & OIL NUTS		164		800	3,001,325	4,002	964	17.0
Okra	0	0	63	25	0	63	25	0.0
Radish	0	0	63	25	0	63	25	0.0
Turmeric	0	0	63	6	0	63	6	0.0
Bitteer Aubergine	0	0	0	0	0	0	0	0.0
Onion	0	0	0	0	0	0	0	0.0
Ginger	0	0	0	0	0	0	0	0.0
Cabbage	125	63	0	0	2,626,160	125	63	100.5
Tomatoes	188	63	63	13	2,626,160	250	76	83.3
Spinach	63	10	0	0	187,583	63	0	0.0
Carrot	63	10	63	13	78,160	125	22	43.2
Chillies	63	13	0	0	562,748	63	0	0.0
Amaranths	63	6	0	0	62,528	63	6	105.5
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	0	0	0	0	0	0	0	0.0
Egg Plant	0	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		165		82	6,143,338	875	247	66.7
Tobacco	0	0	0	0	0	0	0	0.0
CASH CROPS		0		0	0	0	0	0.0
Total		4,075		14,421	51,396,944	38,517	18,496	22.0

5.78 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Insecticide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - KILIMANJARO

Total

Crops	Insecticide use							% of Planted area using Insecticide
	Number of Households using Insecticide	Planted Area Insecticide Used	Number of Households NOT using Insecticide	Planted Area Insecticide not Used	Cost of Insecticide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	29,189	19,257	96,965	44,157	260,774,863	126,154	63,414	30.4
Paddy	1,436	454	790	330	10,451,650	2,225	783	57.9
Sorghum	0	0	635	86	0	635	86	0.0
Finger Millet	1,355	363	5,879	1,340	3,143,068	7,234	1,702	21.3
CEREALS		20,074		45,912	274,369,580	136,247	65,986	30.4
Cassava	0	0	563	81	0	563	81	0.0
Sweet Potato	0	0	574	75	0	574	75	0.0
Irish potatoes	213	85	1,762	431	3,969,596	1,975	516	16.4
Yams	0	0	304	17	0	304	17	0.0
Coco Yam	0	0	2,228	147	0	2,228	147	0.0
ROOTS & TUBERS		85		751	3,969,596	5,643	836	10.1
Mung Bean	0	0	88	36	0	88	36	0.0
Beans	14,097	4,990	85,509	20,626	66,788,979	99,606	25,616	19.5
Cowpeas	2,621	547	3,281	852	32,626,581	5,902	1,399	39.1
Green gram	412	95	1,186	302	1,527,739	1,598	397	23.9
Field Peas	0	0	212	32	0	212	32	0.0
PULSES		5,632		21,848	100,943,299	107,406	27,480	20.5
Sunflower	1,803	440	19,851	3,512	13,648,649	21,654	3,951	11.1
Simsim	0	0	87	9	0	87	9	0.0
Groundnut	108	6	4,188	919	8,648	4,296	924	0.6
OIL SEEDS & OIL NUTS		445		4,439	13,657,297	26,037	4,885	9.1
Okra	385	92	114	29	4,458,086	499	121	75.7
Radish	0	0	63	25	0	63	25	0.0
Turmeric	0	0	63	6	0	63	6	0.0
Bitteer Aubergine	175	26	175	12	1,001,866	350	39	68.1
Onion	88	2	176	16	70,420	264	18	12.5
Ginger	0	0	404	174	0	404	174	0.0
Cabbage	315	80	366	30	4,436,483	681	110	73.1
Tomatoes	3,439	551	1,324	172	42,517,145	4,764	723	76.2
Spinach	274	78	945	136	2,725,748	1,219	214	36.5
Carrot	63	10	239	26	78,160	301	36	26.9
Chillies	1,120	141	138	13	15,051,439	1,258	154	91.6
Amaranths	325	33	1,171	351	1,716,612	1,497	384	8.6
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	298	37	260	44	1,633,827	559	81	45.5
Egg Plant	0	0	260	38	0	260	38	0.0
Water Mellon	0	0	87	18	0	87	18	0.0
FRUITS & VEGETABLES		1,050		1,091	73,689,783	12,267	2,141	49.1
Tobacco	0	0	225	20	0	225	20	0.0
CASH CROPS		0		20	0	225	20	0.0
Total		27,286		74,061	466,629,555	287,826	101,347	26.9

5.78 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Herbicide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - KILIMANJARO

Rombo

Crops	Herbicide use							% of Planted area using Herbicide
	Number of Households using Herbicide	Planted Area Herbicide Used	Number of Households NOT using Herbicide	Planted Area Herbicide not Used	Cost of Herbicide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	216	70	14,052	3,054	1,880,866	14,269	3,124	2.2
Paddy	0	0	0	0	0	0	0	0.0
Sorghum	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	6,161	1,548	0	6,161	1,548	0.0
CEREALS		70		4,602	1,880,866	20,430	4,672	1.5
Cassava	0	0	0	0	0	0	0	0.0
Sweet Potato	0	0	0	0	0	0	0	0.0
Irish potatoes	108	44	649	175	3,026,680	757	219	20.0
Yams	0	0	0	0	0	0	0	0.0
Coco Yam	0	0	0	0	0	0	0	0.0
ROOTS & TUBERS		44		175	3,026,680	757	219	20.0
Mung Bean	0	0	0	0	0	0	0	0.0
Beans	324	326	17,403	4,722	4,161,685	17,728	5,048	6.5
Cowpeas	0	0	4,864	998	0	4,864	998	0.0
Green gram	0	0	973	165	0	973	165	0.0
Field Peas	0	0	0	0	0	0	0	0.0
PULSES		326		5,884	4,161,685	23,565	6,210	5.3
Sunflower	0	0	4,756	786	0	4,756	786	0.0
Simsim	0	0	0	0	0	0	0	0.0
Groundnut	0	0	3,135	581	0	3,135	581	0.0
OIL SEEDS & OIL NUTS		0		1,367	0	7,891	1,367	0.0
Okra	0	0	0	0	0	0	0	0.0
Radish	0	0	0	0	0	0	0	0.0
Turmeric	0	0	0	0	0	0	0	0.0
Bitteer Aubergine	0	0	0	0	0	0	0	0.0
Onion	0	0	0	0	0	0	0	0.0
Ginger	0	0	0	0	0	0	0	0.0
Cabbage	0	0	0	0	0	0	0	0.0
Tomatoes	0	0	0	0	0	0	0	0.0
Spinach	0	0	0	0	0	0	0	0.0
Carrot	0	0	0	0	0	0	0	0.0
Chillies	0	0	0	0	0	0	0	0.0
Amaranths	0	0	0	0	0	0	0	0.0
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	0	0	0	0	0	0	0	0.0
Egg Plant	0	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		0		0	0	0	0	0.0
Tobacco	0	0	0	0	0	0	0	0.0
CASH CROPS		0		0	0	0	0	0.0
Total		440		12,028	9,069,231	52,643	12,468	3.5

5.79 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Herbicide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - KILIMANJARO

Mwanga

Crops	Herbicide use							% of Planted area using Herbicide
	Number of Households using Herbicide	Planted Area Herbicide Used	Number of Households NOT using Herbicide	Planted Area Herbicide not Used	Cost of Herbicide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	619	261	12,741	6,168	7,169,780	13,360	6,429	4.1
Paddy	0	0	516	240	0	516	240	0.0
Sorghum	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	0	0	0	0	0	0.0
CEREALS		261		6,408	7,169,780	13,875	6,669	3.9
Cassava	0	0	52	10	0	52	10	0.0
Sweet Potato	0	0	309	39	0	309	39	0.0
Irish potatoes	0	0	0	0	0	0	0	0.0
Yams	0	0	155	5	0	155	5	0.0
Coco Yam	0	0	361	25	0	361	25	0.0
ROOTS & TUBERS		0		80	0	877	80	0.0
Mung Bean	0	0	0	0	0	0	0	0.0
Beans	206	63	9,336	2,507	2,914,335	9,543	2,569	0.0
Cowpeas	0	0	774	255	0	774	255	0.0
Green gram	0	0	103	22	0	103	22	0.0
Field Peas	0	0	0	0	0	0	0	0.0
PULSES		63		2,783	2,914,335	10,419	2,846	0.0
Sunflower	0	0	567	245	0	567	245	0.0
Simsim	0	0	0	0	0	0	0	0.0
Groundnut	0	0	52	21	0	52	21	0.0
OIL SEEDS & OIL NUTS		0		266	0	619	266	0.0
Okra	0	0	52	4	0	0	4	0.0
Radish	0	0	0	0	0	0	0	0.0
Turmeric	0	0	0	0	0	0	0	0.0
Bitteer Aubergine	0	0	0	0	0	0	0	0.0
Onion	0	0	0	0	0	0	0	0.0
Ginger	0	0	52	5	0	52	0	0.0
Cabbage	0	0	206	19	0	206	0	0.0
Tomatoes	52	37	155	18	618,974	206	54	0.0
Spinach	0	0	0	0	0	0	0	0.0
Carrot	0	0	0	0	0	0	0	0.0
Chillies	0	0	52	4	0	52	0	0.0
Amaranths	0	0	0	0	0	0	0	0.0
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	0	0	0	0	0	0	0	0.0
Egg Plant	0	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		37		50	618,974	567	87	42.2
Tobacco	0	0	52	3	0	52	3	0.0
CASH CROPS		0		3	0	52	3	0.0
Total		360		9,590	10,703,089	26,410	9,951	3.6

5.80 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Herbicide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - KILIMANJARO

Same

Crops	Herbicide use							% of Planted area using Herbicide
	Number of Households using Herbicide	Planted Area Herbicide Used	Number of Households NOT using Herbicide	Planted Area Herbicide not Used	Cost of Herbicide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	88	36	9,947	5,201	3,432,959	10,035	5,236	0.7
Paddy	88	36	528	187	3,432,959	616	223	16.0
Sorghum	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	0	0	0	0	0	0.0
CEREALS		71		5,388	6,865,919	10,651	5,459	1.3
Cassava	0	0	88	36	0	88	36	0.0
Sweet Potato	0	0	264	36	0	264	36	0.0
Irish potatoes	0	0	968	196	0	968	196	0.0
Yams	0	0	0	0	0	0	0	0.0
Coco Yam	0	0	88	18	0	88	18	0.0
ROOTS & TUBERS		0		285	0		285	0.0
Mung Bean	0	0	88	36	0	88	36	0.0
Beans	0	0	16,725	5,833	0	16,725	5,833	0.0
Cowpeas	88	36	176	110	440,123	176	146	24.4
Green gram	88	36	0	0	440,123	88	36	99.0
Field Peas	0	0	0	0	0	88	0	0.0
PULSES	176	71	16,989	5,979	880,246	16,989	6,050	1.2
Sunflower	88	107	264	53	440,123	440	160	66.7
Simsim	0	0	0	0	0		0	0.0
Groundnut	0	0	264	45	0	264	45	0.0
OIL SEEDS & OIL NUTS		107		98	440,123	528	205	52.2
Okra	0	0	0	0	0		0	0.0
Radish	0	0	0	0	0	0	0	0.0
Turmeric	0	0	0	0	0	0	0	0.0
Bitteer Aubergine	0	0	176	18	0	176	18	0.0
Onion	0	0	176	18	0	176	18	0.0
Ginger	0	0	352	169	0	352	169	0.0
Cabbage	0	0	176	14	0	176	14	0.0
Tomatoes	88	36	1,408	205	3,432,959	1,496	241	14.8
Spinach	0	0	88	9	0	88	9	0.0
Carrot	0	0	176	14	0	176	14	0.0
Chillies	0	0	0	0	0	0	0	0.0
Amaranths	0	0	528	53	0	528	53	0.0
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	0	0	0	0	0	0	0	0.0
Egg Plant	0	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		36		499	3,432,959	3,081	535	6.7
Tobacco	0	0	0	0	0	88	0	0.0
CASH CROPS		0		0	0	0	0	0.0
Total		285		12,249	11,619,247	32,481	12,534	2.3

5.78 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Herbicide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - KILIMANJARO

Moshi Rural

Crops	Herbicide use							% of Planted area using Herbicide
	Number of Households using Herbicide	Planted Area Herbicide Used	Number of Households NOT using Herbicide	Planted Area Herbicide not Used	Cost of Herbicide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	1,058	338	40,611	22,697	10,300,719	41,668	23,035	1.5
Paddy	212	64	212	43	338,422	423	107	60.0
Sorghum	0	0	635	86	0	635	86	0.0
Finger Millet	0	0	635	66	0	635	66	0.0
CEREALS		402		22,891	10,639,141	43,360	23,294	1.7
Cassava	0	0	423	35	0	423	35	0.0
Sweet Potato	0	0	0	0	0	0	0	0.0
Irish potatoes	0	0	0	0	0	0	0	0.0
Yams	0	0	0	0	0	0	0	0.0
Coco Yam	0	0	1,692	101	0	1,692	101	0.0
ROOTS & TUBERS		0		136	0	2,115	136	0.0
Mung Bean	0	0	0	0	0	0	0	0.0
Beans	0	0	20,728	4,019	0	20,728	4,019	0.0
Cowpeas	0	0	0	0	0	0	0	0.0
Green gram	0	0	0	0	0	0	0	0.0
Field Peas	0	0	0	0	0	0	0	0.0
PULSES		0		4,019	0	20,728	4,019	0.0
Sunflower	0	0	6,768	1,227	0	6,768	1,227	0.0
Simsim	0	0	0	0	0	0	0	0.0
Groundnut	0	0	846	278	0	846	278	0.0
OIL SEEDS & OIL NUTS		0		1,505	0	7,614	1,505	0.0
Okra	0	0	212	21	0	212	21	0.0
Radish	0	0	0	0	0	0	0	0.0
Turmeric	0	0	0	0	0	0	0	0.0
Bitteer Aubergine	0	0	0	0	0	0	0	0.0
Onion	0	0	0	0	0	0	0	0.0
Ginger	0	0	0	0	0	0	0	0.0
Cabbage	0	0	0	0	0	0	0	0.0
Tomatoes	0	0	2,115	238	0	2,115	238	0.0
Spinach	0	0	635	81	0	635	81	0.0
Carrot	0	0	0	0	0	0	0	0.0
Chillies	0	0	1,058	128	0	1,058	128	0.0
Amaranths	0	0	212	13	0	212	13	0.0
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	0	0	212	10	0	212	10	0.0
Egg Plant	0	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		0		492	0	4,442	492	0.0
Tobacco	0	0	0	0	0	0	0	0.0
CASH CROPS		0		0	0	0	0	0.0
Total		402		29,044	10,639,141	78,260	29,447	1.4

5.79 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Herbicide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - KILIMANJARO

Hai

Crops	Herbicide use							% of Planted area using Herbicide
	Number of Households using Herbicide	Planted Area Herbicide Used	Number of Households NOT using Herbicide	Planted Area Herbicide not Used	Cost of Herbicide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	2,864	1,263	24,738	11,002	47,652,670	27,602	12,265	10.3
Paddy	260	105	347	88	3,732,359	608	193	54.5
Sorghum	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	0	0	0	0	0	0.0
CEREALS		1,369		11,090	51,385,029	28,210	12,458	11.0
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	0	0	0	0	0
Irish potatoes	0	0	0	0	0	0	0	0
Yams	0	0	87	3	0	87	3	0
Coco Yam	0	0	87	3	0	87	3	0
ROOTS & TUBERS		0		6	0	174	6	0
Mung Bean	0	0	0	0	0	0	0	0
Beans	260	33	21,179	4,404	1,041,588	21,439	4,437	0.0
Cowpeas	0	0	0	0	0	0	0	0.0
Green gram	0	0	434	176	0	434	176	0.0
Field Peas	0	0	87	2	0	87	2	0.0
PULSES		33		4,582	1,041,588	21,960	4,614	0.0
Sunflower	0	0	5,208	568	0	5,208	568	0.0
Simsim	0	0	87	9	0	87	9	0.0
Groundnut	0	0	0	0	0	0	0	0.0
OIL SEEDS & OIL NUTS		0		577	0	5,295	577	0.0
Okra	87	35	87	35	2,603,971	0	0	0.0
Radish	0	0	0	0	0	0	0	0.0
Turmeric	0	0	0	0	0	0	0	0.0
Bitteer Aubergine	87	18	87	4	1,475,584	174	21	83.3
Onion	0	0	0	0	0	0	0	0
Ginger	0	0	0	0	0	0	0	0
Cabbage	87	9	87	6	260,397	174	14	0.0
Tomatoes	174	35	434	79	1,735,981	608	114	0.0
Spinach	0	0	434	114	0	434	114	0
Carrot	0	0	0	0	0	0	0	0
Chillies	0	0	87	9	0	87	9	0.0
Amaranths	0	0	694	311	0	694	311	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	347	70	0	347	70	0.0
Egg Plant	0	0	260	38	0	260	38	0
Water Mellon	0	0	87	18	0	87	18	0
FRUITS & VEGETABLES		97		683	6,075,932	3,038	780	12.4
Tobacco	0	0	174	18	0	174	18	0
CASH CROPS		0		18	0	174	18	0
Total		1,498		16,954	58,502,550	58,850	18,452	8.1

5.80 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Herbicide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - KILIMANJARO

Siha

Crops	Herbicide use							% of Planted area using Herbicide
	Number of Households using Herbicide	Planted Area Herbicide Used	Number of Households NOT using Herbicide	Planted Area Herbicide not Used	Cost of Herbicide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	6,190	5,442	13,756	7,883	109,757,462	19,946	13,325	40.8
Paddy	0	0	63	20	0	63	0	0.0
Sorghum	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	438	89	0	438	89	0.0
CEREALS		5,442		7,992	109,757,462	20,447	13,434	40.5
Cassava	0	0	0	0	0	0	0	0.0
Sweet Potato	0	0	0	0	0	0	0	0.0
Irish potatoes	0	0	125	101	0	125	101	0.0
Yams	0	0	63	9	0	63	9	0.0
Coco Yam	0	0	0	0	0	0	0	0.0
ROOTS & TUBERS		0		110	0	188	110	0.0
Mung Bean	0	0	0	0	0	0	0	0.0
Beans	1,938	533	12,193	3,177	25,324,369	14,131	3,710	14.4
Cowpeas	0	0	0	0	0	1,938	0	0.0
Green gram	0	0	0	0	0	0	0	0.0
Field Peas	0	0	125	30	0	125	0	0.0
PULSES		533		3,207	25,324,369	12,318	3,741	14.3
Sunflower	1,188	187	3,376	777	17,288,884	5,315	964	19.4
Simsim	0	0	0	0	0	1,188	0	0.0
Groundnut	0	0	0	0	0	0	0	0.0
OIL SEEDS & OIL NUTS		187		777	17,288,884	3,376	964	19.4
Okra	63	25	0	0	625,276	1,188	25	100.0
Radish	63	25	0	0	625,276	63	25	100.0
Turmeric	0	0	63	6	0	63	6	0.0
Bitteer Aubergine	0	0	0	0	0	0	0	0.0
Onion	0	0	0	0	0	0	0	0.0
Ginger	0	0	0	0	0	0	0	0.0
Cabbage	0	0	125	63	0	125	63	0.0
Tomatoes	0	0	250	76	0	250	76	0.0
Spinach	0	0	63	10	0	63	10	0.0
Carrot	63	13	63	10	937,914	63	23	55.0
Chillies	0	0	63	13	0	125	13	0.0
Amaranths	0	0	63	6	0	63	6	0.0
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	0	0	0	0	0	0	0	0.0
Egg Plant	0	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		63		184	2,188,466	688	247	25.6
Tobacco	0	0	0	0	0	188	0	0
CASH CROPS		0		0	0	0	0	0
Total		6,226		12,270	154,559,181	30,826	18,496	33.7

5.81 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Herbicide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - KILIMANJARO

Total

Crops	Herbicide use							% of Planted area using Herbicide
	Number of Households using Herbicide	Planted Area Herbicide Used	Number of Households NOT using Herbicide	Planted Area Herbicide not Used	Cost of Herbicide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	11,035	7,410	115,844	56,004	180,194,456	126,880	63,414	11.7
Paddy	560	205	1,665	578	7,503,740	2,225	783	26.2
Sorghum	0	0	635	86	0	635	86	0.0
Finger Millet	0	0	7,234	1,702	0	7,234	1,702	0.0
CEREALS		7,616		58,370	187,698,195	136,973	65,986	11.5
Cassava	0	0	563	81	0	563	81	0.0
Sweet Potato	0	0	574	75	0	574	75	0.0
Irish potatoes	108	44	1,742	472	3,026,680	1,850	516	8.5
Yams	0	0	304	17	0	304	17	0.0
Coco Yam	0	0	2,228	147	0	2,228	147	0.0
ROOTS & TUBERS		44		792	3,026,680	5,518	836	5.2
Mung Bean	0	0	88	36	0	88	36	0.0
Beans	2,729	954	97,564	24,661	33,441,978	100,294	25,616	3.7
Cowpeas	88	36	5,814	1,363	440,123	5,902	1,399	2.5
Green gram	88	36	1,510	362	440,123	1,598	397	9.0
Field Peas	0	0	212	32	0	212	32	0.0
PULSES		1,026		26,454	34,322,224	108,094	27,480	3.7
Sunflower	1,276	294	20,941	3,658	17,729,007	22,217	3,951	7.4
Simsim	0	0	87	9	0	87	9	0.0
Groundnut	0	0	4,296	924	0	4,296	924	0.0
OIL SEEDS & OIL NUTS		294		4,591	17,729,007	26,600	4,885	6.0
Okra	149	60	350	61	3,229,247	499	121	49.9
Radish	63	25	0	0	625,276	63	25	100.0
Turmeric	0	0	63	6	0	63	6	0.0
Bitteer Aubergine	87	18	263	21	1,475,584	350	39	45.2
Onion	0	0	176	18	0	176	18	0.0
Ginger	0	0	404	174	0	404	174	0.0
Cabbage	87	9	594	101	260,397	681	110	8.0
Tomatoes	313	107	4,362	616	5,787,914	4,676	723	14.8
Spinach	0	0	1,219	214	0	1,219	214	0.0
Carrot	63	13	239	23	937,914	301	36	35.3
Chillies	0	0	1,258	154	0	1,258	154	0.0
Amaranths	0	0	1,497	384	0	1,497	384	0.0
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	0	0	559	81	0	559	81	0.0
Egg Plant	0	0	260	38	0	260	38	0.0
Water Mellon	0	0	87	18	0	87	18	0.0
FRUITS & VEGETABLES		232		1,909	12,316,332	12,091	2,141	10.8
Tobacco	0	0	225	20	0	225	20	0
CASH CROPS		0		20	0	225	20	0
Total		9,211		92,136	255,092,438	289,502	101,347	9.1

5.81 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Irrigation Use and Crop for the 2007/08agriculture year - LONG SEASON - KILIMANJARO

Rombo

Crops	Irrigation use						% of Planted area using Irrigation
	Number of Households using Irrigation	Planted Area Irrigation Used	Number of Households NOT using Irrigation	Planted Area Irrigation not Used	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	1,730	346	12,539	2,778	14,269	3,124	11.1
Paddy	0	0	0	0	0	0	0.0
Sorghum	0	0	0	0	0	0	0.0
Finger Millet	216	8	5,945	1,539	6,161	1,548	0.5
CEREALS		354		4,317		4,672	7.6
Cassava	0	0	0	0	0	0	0.0
Sweet Potato	0	0	0	0	0	0	0.0
Irish potatoes	0	0	757	219	757	219	0.0
Yams	0	0	0	0	0	0	0.0
Coco Yam	0	0	0	0	0	0	0.0
ROOTS & TUBERS		0		219		219	0.0
Mung Bean	0	0	0	0	0	0	0.0
Beans	1,189	335	16,539	4,713	17,728	5,048	6.6
Cowpeas	216	16	4,648	982	4,864	998	1.6
Green gram	108	5	865	159	973	165	3.2
Field Peas	0	0	0	0	0	0	0.0
PULSES		356		5,854		6,210	5.7
Sunflower	216	8	4,540	778	4,756	786	1.0
Simsim	0	0	0	0	0	0	0.0
Groundnut	108	3	3,027	578	3,135	581	0.5
OIL SEEDS & OIL NUTS		11		1,357		1,367	0.8
Okra	0	0	0	0	0	0	0.0
Radish	0	0	0	0	0	0	0.0
Turmeric	0	0	0	0	0	0	0.0
Bitteer Aubergine	0	0	0	0	0	0	0.0
Onion	0	0	0	0	0	0	0.0
Ginger	0	0	0	0	0	0	0.0
Cabbage	0	0	0	0	0	0	0.0
Tomatoes	0	0	0	0	0	0	0.0
Spinach	0	0	0	0	0	0	0.0
Carrot	0	0	0	0	0	0	0.0
Chillies	0	0	0	0	0	0	0.0
Amaranths	0	0	0	0	0	0	0.0
Pumpkins	0	0	0	0	0	0	0.0
Cucumber	0	0	0	0	0	0	0.0
Egg Plant	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		0		0		0	0.0
CASH CROPS		0		0		0	0.0
Total		721		11,747		12468	5.8

5.82 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Irrigation Use and Crop for the 2007/08agriculture year - LONG SEASON - KILIMANJARO

Mwanga

Crops	Irrigation use						% of Planted area using Irrigation
	Number of Households using Irrigation	Planted Area Irrigation Used	Number of Households NOT using Irrigation	Planted Area Irrigation not Used	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	1,135	379	12,225	6,050	13,360	6,429	5.9
Paddy	516	240	0	0	516	240	100.1
Sorghum	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0
CEREALS		619		6,050	13,875	6,669	9.3
Cassava	0	0	52	10	52	10	0.0
Sweet Potato	52	8	258	31	309	39	0.0
Irish potatoes	0	0	0	0	0	0	0.0
Yams	0	0	155	5	155	5	0.0
Coco Yam	52	3	309	23	361	25	10.7
ROOTS & TUBERS		11		69		80	13.8
Mung Bean	0	0	0	0	0	0	0.0
Beans	1,083	286	8,459	2,284	9,543	2,569	0.0
Cowpeas	0	0	774	255	774	225	0.0
Green gram	0	0	103	22	103	22	0.0
Field Peas	0	0	0	0	0	0	0.0
PULSES		286		2,560		2,846	0.0
Sunflower	0	0	567	245	567	245	0.0
Simsim	0	0	0	0	0	0	0.0
Groundnut	0	0	52	21	52	21	0.0
OIL SEEDS & OIL NUTS		0		266		266	0.0
Okra	0	0	52	4	52	4	0.0
Radish	0	0	0	0	0	0	0.0
Turmeric	0	0	0	0	0	0	0.0
Bitteer Aubergine	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0
Ginger	0	0	52	5	52	0	0
Cabbage	103	8	103	10	206	19	44.4
Tomatoes	206	54	0	0	206	0	0.0
Spinach	0	0	0	0	0	0	0.0
Carrot	0	0	0	0	0	0	0.0
Chillies	0	0	52	4	52	4	0.0
Amaranths	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		63		24		87	72.3
Tobacco	0	0	52	3	52	3	0.0
CASH CROPS		0		3		3	0.0
Total		978		8,972		9,951	9.8

5.83 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Irrigation Use and Crop for the 2007/08agriculture year - LONG SEASON -KILIMANJARO

Same

Crops	Irrigation use						% of Planted area using Irrigation
	Number of Households using Irrigation	Planted Area Irrigation Used	Number of Households NOT using Irrigation	Planted Area Irrigation not Used	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	2,729	1,176	7,306	4,060	10,035	5,236	22.5
Paddy	616	223	0	0	616	223	99.9
Sorghum	0	0	0	0	0	0	0.0
Finger Millet	0	0	0	0	0	0	0.0
CEREALS		1,399		4,060		5,459	25.6
Cassava	0	0	88	36	88	36	0.0
Sweet Potato	0	0	264	36	264	36	0.0
Irish potatoes	176	27	792	169	968	196	13.6
Yams	0	0	0	0	0	0	0.0
Coco Yam	88	18	0	0	88	18	99.0
ROOTS & TUBERS		45		241		285	15.6
Mung Bean	0	0	88	36	88	36	0.0
Beans	2,465	650	14,260	5,183	16,725	5,833	11.1
Cowpeas	0	0	264	146	264	146	0.0
Green gram	0	0	88	36	88	36	0.0
Field Peas	0	0	0	0	0	0	0.0
PULSES		650		5,401		6,050	10.7
Sunflower	0	0	352	160	352	160	0.0
Simsim	0	0	0	0	0	0	0.0
Groundnut	88	2	176	42	264	45	5.0
OIL SEEDS & OIL NUTS		2		203		205	1.1
Okra	0	0	0	0	0	0	0
Radish	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0
Bitteer Aubergine	176	13	0	4	176	18	75.0
Onion	176	18	0	0	176	18	99.0
Ginger	352	169	0	0	352	169	100.2
Cabbage	88	9	88	5	176	14	65.8
Tomatoes	1,496	226	0	14	1,496	241	94.0
Spinach	88	9	0	0	88	9	99.0
Carrot	88	9	88	5	176	14	65.8
Chillies	0	0	0	0	0	0	0.0
Amaranths	528	41	0	12	528	53	77.1
Pumpkins	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0
FRUITS & VEGETABLES		494		40		535	92.4
Tobacco	0	0	0	0	0	0	0
CASH CROPS		0		0		0	0
Total		2,590		9,944		12,534	20.7

5.81 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Irrigation Use and Crop for the 2007/08agriculture year - LONG SEASON - KILIMANJARO Moshi Rural

Crops	Irrigation use						% of Planted area using Irrigation
	Number of Households using Irrigation	Planted Area Irrigation Used	Number of Households NOT using Irrigation	Planted Area Irrigation not Used	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	9,730	4,763	31,516	18,272	41,245	23,035	20.7
Paddy	423	107	0	0	423	107	100.0
Sorghum	212	21	423	64	635	86	25.0
Finger Millet	0	0	635	66	635	66	0.0
CEREALS		4,891		18,403		23,294	21.0
Cassava	0	0	423	35	423	35	0
Sweet Potato	0	0	0	0	0	0	0
Irish potatoes	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0
Coco Yam	0	0	1,692	101	1,692	101	0
ROOTS & TUBERS		0		136		136	0
Mung Bean	0	0	0	0	0	0	0
Beans	3,596	1,507	17,133	2,511	20,728	4,019	37.5
Cowpeas	0	0	0	0	0	0	0
Green gram	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0
PULSES		1,507		2,511		4,019	37.5
Sunflower	635	128	6,134	1,099	6,768	1,227	10.5
Simsim	0	0	0	0	0	0	0.0
Groundnut	212	43	635	235	846	278	15.4
OIL SEEDS & OIL NUTS		171		1,334		1,505	11.4
Okra	212	21	0	0	212	21	101.9
Radish	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0
Ginger	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0
Tomatoes	2,115	238	0	0	2,115	238	100.0
Spinach	635	81	0	0	635	81	100.4
Carrot	0	0	0	0	0	0	0.0
Chillies	1,058	128	0	0	1,058	128	0.0
Amaranths	212	13	0	0	212	13	98.8
Pumpkins	0	0	0	0	0	0	0.0
Cucumber	212	10	0	0	212	10	102.8
Egg Plant	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		492		0		492	100.1
Tobacco	0	0	0	0	0	0	0.0
CASH CROPS		0		0		0	0.0
Total		7,062		22,384		29447	24.0

5.82 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Irrigation Use and Crop for the 2007/08agriculture year - LONG SEASON - KILIMANJARO

Hai

Crops	Irrigation use						% of Planted area using Irrigation
	Number of Households using Irrigation	Planted Area Irrigation Used	Number of Households NOT using Irrigation	Planted Area Irrigation not Used	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	6,336	2,887	21,179	9,378	27,515	12,265	23.5
Paddy	608	193	0	0	608	193	100.1
Sorghum	0	0	0	0	0	0	0.0
Finger Millet	0	0	0	0	0	0	0.0
CEREALS		3,081		9,378		12,458	24.7
Cassava	0	0	0	0	0	0	0.0
Sweet Potato	0	0	0	0	0	0	0.0
Irish potatoes	0	0	0	0	0	0	0.0
Yams	87	3	0	0	87	3	100.0
Coco Yam	87	3	0	0	87	3	100.0
ROOTS & TUBERS		6		0		6	100.0
Mung Bean	0	0	0	0	0	0	0.0
Beans	2,864	663	18,488	3,773	21,353	4,437	0.0
Cowpeas	0	0	0	0	0	0	0.0
Green gram	87	35	347	141	434	176	20.0
Field Peas	0	0	87	2	87	2	0.0
PULSES		699		3,916		4,614	0.0
Sunflower	521	79	4,687	489	5,208	568	0.0
Simsim	0	0	87	9	87	9	0.0
Groundnut	0	0	0	0	0	0	0.0
OIL SEEDS & OIL NUTS		79		498		577	0.0
Okra	174	70	0	0	174	70	100.4
Radish	0	0	0	0	0	0	0.0
Turmeric	0	0	0	0	0	0	0.0
Bitteer Aubergine	174	21	0	0	174	21	100.4
Onion	0	0	0	0	0	0	0.0
Ginger	0	0	0	0	0	0	0.0
Cabbage	174	14	0	0	174	14	102.9
Tomatoes	347	31	260	83	608	114	0.0
Spinach	260	13	174	101	434	114	0.0
Carrot	0	0	0	0	0	0	0.0
Chillies	87	9	0	0	87	9	97.6
Amaranths	608	280	87	31	694	311	90.1
Pumpkins	0	0	0	0	0	0	0.0
Cucumber	260	37	87	33	347	70	53.1
Egg Plant	260	23	0	15	260	38	0.0
Water Mellon	87	18	0	0	87	18	97.6
FRUITS & VEGETABLES		516		264		780	66.2
Tobacco	87	9	87	9	174	18	50.0
CASH CROPS		9		9		18	50.0
Total		4,389		14,063		18,452	23.8

5.83 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Irrigation Use and Crop for the 2007/08agriculture year - LONG SEASON -KILIMANJARO

Siha

Crops	Irrigation use						% of Planted area using Irrigation
	Number of Households using Irrigation	Planted Area Irrigation Used	Number of Households NOT using Irrigation	Planted Area Irrigation not Used	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	688	233	18,133	13,092	18,821	13,325	1.7
Paddy	0	0	63	20	63	20	0.0
Sorghum	0	0	0	0	0	0	0.0
Finger Millet	0	0	438	89	438	0	0.0
CEREALS		233		13,201		13,434	1.7
Cassava	0	0	0	0	0	0	0.0
Sweet Potato	0	0	0	0	0	0	0.0
Irish potatoes	63	51	63	51	125	101	50.0
Yams	0	0	63	9	63	9	0.0
Coco Yam	0	0	0	0	0	0	0.0
ROOTS & TUBERS		51		60		110	45.9
Mung Bean	0	0	0	0	0	0	0.0
Beans	188	35	13,131	3,675	13,318	3,710	1.0
Cowpeas	0	0	0	0	0	0	0
Green gram	0	0	0	0	0	0	0
Field Peas	0	0	125	30	125	30	0
PULSES		35		3,705		3,741	0.9
Sunflower	0	0	3,939	964	3,939	964	0
Simsim	0	0	0	0	0	0	0
Groundnut	0	0	0	0	0	0	0
OIL SEEDS & OIL NUTS		0		964		964	0
Okra	0	0	63	25	63	25	0
Radish	0	0	63	25	63	25	0
Turmeric	0	0	63	6	63	6	0
Bitteer Aubergine	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0
Ginger	0	0	0	0	0	0	0
Cabbage	125	63	0	0	125	63	100.5
Tomatoes	188	63	63	13	250	76	83.3
Spinach	0	0	63	10	63	10	0.0
Carrot	0	0	125	22	125	22	0.0
Chillies	63	13	0	0	63	13	0.0
Amaranths	63	6	0	0	63	6	105.5
Pumpkins	0	0	0	0	0	0	0.0
Cucumber	0	0	0	0	0	0	0.0
Egg Plant	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		146		102		247	58.9
Tobacco	0	0	0	0	0	0	0.0
CASH CROPS		0		0		0	0.0
Total		464		18,032		18,496	2.5

5.84 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Irrigation Use and Crop for the 2007/08agriculture year - LONG SEASON - KILIMANJARO

Total

Crops	Irrigation use						% of Planted area using Irrigation
	Number of Households using Irrigation	Planted Area Irrigation Used	Number of Households NOT using Irrigation	Planted Area Irrigation not Used	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	22,347	9,784	105,009	53,630	127,356	63,414	15.4
Paddy	2,163	763	63	20	2,225	783	97.4
Sorghum	212	21	423	64	635	86	25.0
Finger Millet	216	8	7,126	1,694	7,342	1,702	0.5
CEREALS		10,577		55,409		65,986	16.0
Cassava	0	0	563	81	563	81	0.0
Sweet Potato	52	8	522	66	574	75	11.2
Irish potatoes	239	77	1,611	439	1,850	516	15.0
Yams	87	3	217	14	304	17	16.4
Coco Yam	226	23	2,002	124	2,228	147	15.9
ROOTS & TUBERS		112		724		836	13.4
Mung Bean	0	0	88	36	88	36	0.0
Beans	11,385	3,476	89,290	22,139	100,675	25,616	13.6
Cowpeas	216	16	5,686	1,383	5,902	1,399	1
Green gram	195	40	1,403	357	1,598	397	10
Field Peas	0	0	212	32	212	32	0
PULSES		3,533		23,947		27,480	12.9
Sunflower	1,372	216	20,751	3,736	22,122	3,951	5
Simsim	0	0	87	9	87	9	0
Groundnut	408	48	3,977	877	4,385	924	5
OIL SEEDS & OIL NUTS		263		4,622		4,885	5
Okra	385	92	114	29	499	121	76
Radish	0	0	63	25	63	25	0
Turmeric	0	0	63	6	63	6	0
Bitteer Aubergine	350	34	88	4	438	39	89
Onion	176	18	0	0	176	18	100
Ginger	352	169	52	5	404	174	97
Cabbage	490	95	191	15	681	110	86.3
Tomatoes	4,353	612	673	111	5,025	723	84.7
Spinach	983	103	410	111	1,393	214	48.3
Carrot	88	9	213	27	301	36	24.9
Chillies	1,207	150	52	4	1,258	154	97.3
Amaranths	1,410	341	436	43	1,846	384	88.8
Pumpkins	0	0	0	0	0	0	0.0
Cucumber	472	48	174	33	646	81	59.1
Egg Plant	260	23	87	15	347	38	59.5
Water Mellon	87	18	0	0	87	18	100.0
FRUITS & VEGETABLES		1,711		430		2,141	79.9
Tobacco	87	9	138	11	225	20	43.8
CASH CROPS		9		11		20	43.8
Total		16,205		85,143		101,347	16.0

5.84 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Improved seed Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - KILIMANJARO

Rombo

Crops	Improved seed use							% of Planted area using Improved seed
	Number of Households using Improved seed	Planted Area Improved seed Used	Number of Households NOT using Improved seed	Planted Area without Improved seed	Cost of Improved seed	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	9,404	2,004	4,864	1,120	140,529,846	14,269	3,124	64.1
Paddy	0	0	0	0	0	0	0	0.0
Sorghum	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	6,161	1,548	0	6,161	1,548	0.0
CEREALS		2,004		2,668	140,529,846	20,430	4,672	42.9
Cassava	0	0	0	0	0	0	0	0.0
Sweet Potato	0	0	0	0	0	0	0	0.0
Irish potatoes	540	131	216	88	14,055,147	757	219	60.0
Yams	0	0	0	0	0	0	0	0.0
Coco Yam	0	0	0	0	0	0	0	0.0
ROOTS & TUBERS		131		88	14,055,147		219	60.0
Mung Bean	0	0	0	0	0	0	0	0.0
Beans	2,919	1,146	14,809	3,902	79,471,976	17,728	5,048	22.7
Cowpeas	216	35	4,648	963	1,945,723	4,864	998	3.5
Green gram	108	33	865	132	324,287	973	165	19.9
Field Peas	0	0	0	0	0	0	0	0.0
PULSES		1,213		4,997	81,741,986		6,210	19.5
Sunflower	324	68	4,432	719	1,189,053	4,756	786	8.6
Simsim	0	0	0	0	0	0	0	0.0
Groundnut	0	0	3,135	581	0	3,135	581	0.0
OIL SEEDS & OIL NUTS		68		1,299	1,189,053		1,367	5.0
Okra	0	0	0	0	0	0	0	0.0
Radish	0	0	0	0	0	0	0	0.0
Turmeric	0	0	0	0	0	0	0	0.0
Bitteer Aubergine	0	0	0	0	0	0	0	0.0
Onion	0	0	0	0	0	0	0	0.0
Ginger	0	0	0	0	0	0	0	0.0
Cabbage	0	0	0	0	0	0	0	0.0
Tomatoes	0	0	0	0	0	0	0	0.0
Spinach	0	0	0	0	0	0	0	0.0
Carrot	0	0	0	0	0	0	0	0.0
Chillies	0	0	0	0	0	0	0	0.0
Amaranths	0	0	0	0	0	0	0	0.0
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	0	0	0	0	0	0	0	0.0
Egg Plant	0	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		0		0	0	0	0	0.0
Tobacco	0	0	0	0	0	0	0	0.0
CASH CROPS		0		0	0	0	0	0.0
Total		3,416		9,052	237,516,032	52,643	12,468	27.4

5.85 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Improved seed Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - KILIMANJARO

Mwanga

Crops	Improved seed use							% of Planted area using Improved seed
	Number of Households using Improved seed	Planted Area Improved seed Used	Number of Households NOT using Improved seed	Planted Area without Improved seed	Cost of Improved seed	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	7,221	3,619	6,138	2,810	152,231,449	13,360	6,429	56.3
Paddy	413	209	103	31	3,455,937	516	240	87.0
Sorghum	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	0	0	0	0	0	0.0
CEREALS		3,828		2,841	155,687,386	13,875	6,669	57.4
Cassava	52	10	0	0	103,162	52	10	100.0
Sweet Potato	0	0	309	39	0	309	39	0.0
Irish potatoes	0	0	0	0	0	0	0	0.0
Yams	0	0	155	5	0	155	5	0.0
Coco Yam	52	1	309	24	2,579	361	25	4.1
ROOTS & TUBERS		11		69	105,741	877	80	14.3
Mung Bean	0	0	0	0	0	0	0	0.0
Beans	928	319	8,614	2,251	47,078,116	9,543	2,569	0.0
Cowpeas	0	0	774	255	0	774	255	0.0
Green gram	0	0	103	22	0	103	22	0.0
Field Peas	0	0	0	0	0	0	0	0.0
PULSES		319		2,527	47,078,116	10,419	2,846	0.0
Sunflower	464	162	103	84	4,100,701	567	245	0.0
Simsim	0	0	0	0	0	0	0	0.0
Groundnut	0	0	52	21	0	52	0	0.0
OIL SEEDS & OIL NUTS		162		104	4,100,701	619	266	0.0
Okra	0	0	52	4	0	52	4	0.0
Radish	0	0	0	0	0	0		0.0
Turmeric	0	0	0	0	0	0	0	0.0
Bitteer Aubergine	0	0	0	0	0	0	0	0.0
Onion	0	0	0	0	0	0	0	0.0
Ginger	0	0	52	5	0	52	5	0.0
Cabbage	155	14	52	5	569,456	206	19	5.0
Tomatoes	206	53	0	1	2,140,618			0.0
Spinach	0	0	0	0	0	0	0	0.0
Carrot	0	0	0	0	0	0	0	0.0
Chillies	52	3	0	1	128,953	52	4	75.0
Amaranths	0	0	0	0	0	0	0	0.0
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	0	0	0	0	0	0	0	0.0
Egg Plant	0	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		70		17	2,839,027	567	87	80.4
Tobacco	0	0	52	3	0	52	0	0.0
CASH CROPS		0		3	0	52	0	0.0
Total		4,389		5,561	209,810,971	26,410	9,951	44.1

5.86 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Improved seed Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - KILIMANJARO

Same

Crops	Improved seed use							% of Planted area using Improved seed
	Number of Households using Improved seed	Planted Area Improved seed Used	Number of Households NOT using Improved seed	Planted Area without Improved seed	Cost of Improved seed	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	1,760	757	8,274	4,479	25,703,183	10,035	5,236	14.5
Paddy	176	62	440	160	3,168,886	616	223	28.0
Sorghum	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0
CEREALS		820		4,639	28,872,068	10,651	5,459	15.0
Cassava	0	0	88	36	0	88	36	0.0
Sweet Potato	0	0	264	36	0	264	36	0.0
Irish potatoes	176	27	792	169	4,929,377	968	196	13.6
Yams	0	0	0	0	0	0	0	0.0
Coco Yam	0	0	88	18	0	88	18	0.0
ROOTS & TUBERS		27		258	4,929,377	1,408	285	9.4
Mung Bean	0	0	88	36	0	88	36	0.0
Beans	1,672	515	15,052	5,318	37,850,577	16,725	5,833	8.8
Cowpeas	0	0	264	146	0	264	146	0.0
Green gram	0	0	88	36	0	88	36	0.0
Field Peas	0	0	0	0	0	0	0	0.0
PULSES		515		5,535	37,850,577	17,165	6,050	8.5
Sunflower	88	107	264	53	352,098	352	160	66.7
Simsim	0	0	0	0	0	0	0	0.0
Groundnut	0	0	264	45	0	264	45	0.0
OIL SEEDS & OIL NUTS		107		98	352,098	616	205	52.2
Okra	0	0	0	0	0	0	0	0.0
Radish	0	0	0	0	0	0	0	0.0
Turmeric	0	0	0	0	0	0	0	0.0
Bitteer Aubergine	88	9	88	9	132,037	176	18	50.0
Onion	176	18	0	0	2,464,689	176	18	99.0
Ginger	0	0	352	169	0	352	169	0.0
Cabbage	176	10	0	3	396,111	176	14	74.3
Tomatoes	792	134	704	107	3,547,391	1,496	241	55.6
Spinach	88	9	0	0	132,037	88	9	99.0
Carrot	176	10	0	3	193,654	176	14	74.3
Chillies	0	0	0	0	0	0	0	0.0
Amaranths	176	18	352	36	158,444	528	53	33.3
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	0	0	0	0	0	0	0	0.0
Egg Plant	0	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		207		328	7,024,363	3,169	535	38.7
Tobacco	0	0	0	0	0	0	0	0.0
CASH CROPS		0		0	0	0	0	0.0
Total		1,675		10,859	79,028,484	33,009	12,534	13.4

5.84 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Improved seed Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - - KILIMANJARO

Moshi Rural

Crops	Improved seed use							% of Planted area using Improved seed
	Number of Households using Improved seed	Planted Area Improved seed Used	Number of Households NOT using Improved seed	Planted Area without Improved seed	Cost of Improved seed	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	29,400	12,415	11,845	10,620	704,934,224	41,245	23,035	53.9
Paddy	423	107	0	0	11,633,255	423	107	100.0
Sorghum	423	64	212	21	380,725	635	86	75.0
Finger Millet	212	21	423	45	528,784	635	66	32.5
CEREALS		12,608		10,686	717,476,988	42,937	23,294	54.1
Cassava	0	0	423	35	0	423	35	0.0
Sweet Potato	0	0	0	0	0	0	0	0.0
Irish potatoes	0	0	0	0	0	0	0	0.0
Yams	0	0	0	0	0	0	0	0.0
Coco Yam	0	0	1,692	101	0	1,692	101	0.0
ROOTS & TUBERS		0		136	0		136	0.0
Mung Bean	0	0	0	0	0	0	0	0.0
Beans	2,961	558	17,767	3,460	43,148,801	20,728	4,019	13.9
Cowpeas	0	0	0	0	0	0	0	0.0
Green gram	0	0	0	0	0	0	0	0.0
Field Peas	0	0	0	0	0	0	0	0.0
PULSES		558		3,460	43,148,801		4,019	13.9
Sunflower	4,653	822	2,115	405	19,846,333	6,768	1,227	67.0
Simsim	0	0	0	0	0	0	0	0.0
Groundnut	0	0	846	278	0	846	278	0.0
OIL SEEDS & OIL NUTS		822		684	19,846,333		1,505	54.6
Okra	212	21	0	0	317,271	212	21	101.9
Radish	0	0	0	0	0	0	0	0.0
Turmeric	0	0	0	0	0	0	0	0.0
Bitteer Aubergine	0	0	0	0	0	0	0	0.0
Onion	0	0	0	0	0	0	0	0.0
Ginger	0	0	0	0	0	0	0	0.0
Cabbage	0	0	0	0	0	0	0	0.0
Tomatoes	2,115	238	0	0	13,008,094	2,115	238	100.0
Spinach	423	73	212	9	867,206	635	81	89.5
Carrot	0	0	0	0	0	0	0	0.0
Chillies	1,058	128	0	0	9,200,847	1,058	128	0.0
Amaranths	0	0	212	13	0	212	13	0.0
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	212	10	0	0	253,816	212	10	102.8
Egg Plant	0	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		471		21	23,647,235	4,442	492	95.7
Tobacco	0	0	0	0	0	0	0	0.0
CASH CROPS		0		0	0	0	0	0.0
Total		14,459		14,988	804,119,356	77,837	29,447	49.1

5.85 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Improved seed Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - - KILIMANJARO

Hai

Crops	Improved seed use							% of Planted area using Improved seed
	Number of Households using Improved seed	Planted Area Improved seed Used	Number of Households NOT using Improved seed	Planted Area without Improved seed	Cost of Improved seed	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	20,398	9,021	7,118	3,244	574,292,014	27,515	12,265	73.5
Paddy	521	176	87	18	5,173,222	608	193	90.9
Sorghum	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	0	0	0	0	0	0.0
CEREALS		9,196		3,262	579,465,236	28,123	12,458	73.8
Cassava	0	0	0	0	0	0	0	0.0
Sweet Potato	0	0	0	0	0	0	0	0.0
Irish potatoes	0	0	0	0	0	0	0	0.0
Yams	87	3	0	0	1,301,986	87	3	100.0
Coco Yam	87	3	0	0	173,598	87	3	100.0
ROOTS & TUBERS		6		0	1,475,584	174	6	100.0
Mung Bean	0	0	0	0	0	0	0	0.0
Beans	2,170	393	19,183	4,044	27,515,294	21,353	4,437	0.0
Cowpeas	0	0	0	0	0	0		0.0
Green gram	0	0	434	176	0	434	176	0.0
Field Peas	0	0	87	2	0	87	2	0.0
PULSES		393		4,221	27,515,294	21,873	4,614	0.0
Sunflower	1,042	179	4,166	389	4,400,711	5,208	568	0.0
Simsim	0	0	87	9	0	87	9	0.0
Groundnut	0	0	0	0	0	0	0	0.0
OIL SEEDS & OIL NUTS		179		397	4,400,711	5,295	577	0.0
Okra	0	0	174	70	0	174	70	0.0
Radish	0	0	0	0	0	0		0.0
Turmeric	0	0	0	0	0	0	0	0.0
Bitteer Aubergine	87	2	87	19	104,159	174	21	8.3
Onion	0	0	0	0	0	0	0	0.0
Ginger	0	0	0	0	0	0	0	0.0
Cabbage	87	9	87	6	433,995	174	14	61.0
Tomatoes	434	64	174	51	5,338,141			0.0
Spinach	260	20	174	94	1,666,541	434	114	0.0
Carrot	0	0	0	0	0	0	0	0.0
Chillies	0	0	87	9	0	87	9	0.0
Amaranths	87	2	608	309	520,794	694	311	0.0
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	174	29	174	42	2,213,375	347	70	40.6
Egg Plant	87	2	174	36	520,794	260	38	5.8
Water Mellon	87	18	0	0	1,301,986	87	18	97.6
FRUITS & VEGETABLES		145		635	12,099,785	3,038	780	18.5
Tobacco	0	0	174	18	0	174	18	0.0
CASH CROPS		0		18	0	174	18	0.0
Total		9,919		8,533	624,956,611	58,676	18,452	53.8

5.86 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Improved seed Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON -- KILIMANJARO

Siha

Crops	Improved seed use							% of Planted area using Improved seed
	Number of Households using Improved seed	Planted Area Improved seed Used	Number of Households NOT using Improved seed	Planted Area without Improved seed	Cost of Improved seed	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	12,756	8,468	6,065	4,857	539,810,846	18,821	13,325	63.6
Paddy	0	0	63	20	0	63	0	0.0
Sorghum	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	438	89	0	438	89	0.0
CEREALS		8,468		4,966	539,810,846	19,321	13,434	63.0
Cassava	0	0	0	0	0	0	0	0.0
Sweet Potato	0	0	0	0	0	0	0	0.0
Irish potatoes	0	0	125	101	0	125	101	0.0
Yams	0	0	63	9	0	63	9	0.0
Coco Yam	0	0	0	0	0	0	0	0.0
ROOTS & TUBERS		0		110	0	188	110	0.0
Mung Bean	0	0	0	0	0	0	0	0.0
Beans	2,439	849	10,880	2,861	63,377,984	13,318	3,710	22.9
Cowpeas	0	0	0	0	0	0	0	0.0
Green gram	0	0	0	0	0	0	0	0.0
Field Peas	0	0	125	30	0	125	30	0.0
PULSES		849		2,892	63,377,984	13,443	3,741	22.7
Sunflower	813	246	3,126	719	5,940,123	3,939	964	25.5
Simsim	0	0	0	0	0	0	0	0.0
Groundnut	0	0	0	0	0	0	0	0.0
OIL SEEDS & OIL NUTS		246		719	5,940,123	3,939	964	25.5
Okra	0	0	63	25	0	63	25	0.0
Radish	0	0	63	25	0	63	25	0.0
Turmeric	0	0	63	6	0	63	6	0.0
Bitteer Aubergine	0	0	0	0	0	0	0	0.0
Onion	0	0	0	0	0	0	0	0.0
Ginger	0	0	0	0	0	0	0	0.0
Cabbage	125	63	0	0	1,625,718	125	63	100.0
Tomatoes	250	76	0	0	1,219,288	250	76	100.0
Spinach	63	10	0	0	187,583	63	10	100.0
Carrot	125	22	0	0	1,750,773	125	22	100.0
Chillies	63	13	0	0	375,166	63	13	100.0
Amaranths	63	6	0	0	62,528	63	6	100.0
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	0	0	0	0	0	0	0	0.0
Egg Plant	0	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		190		57	5,221,055	875	247	76.9
Tobacco	0	0	0	0	0	0	0	0.0
CASH CROPS		0		0	0	0	0	0.0
Total		9,753		8,743	614,350,008	37,767	18,496	52.7

5.87 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Improved seed Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - KILIMANJARO

Total

Crops	Improved seed use							% of Planted area using Improved seed
	Number of Households using Improved seed	Planted Area Improved seed Used	Number of Households NOT using Improved seed	Planted Area without Improved seed	Cost of Improved seed	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	80,940	36,284	49,674	27,130	2,137,501,561	130,614	63,414	57.2
Paddy	1,533	554	693	230	23,431,300	2,225	783	70.7
Sorghum	423	64	212	21	380,725	635	86	75.0
Finger Millet	212	21	7,022	1,681	528,784	7,234	1,702	1.3
CEREALS		36,923		29,062	2,161,842,371	140,708	65,986	56.0
Cassava	52	10	511	71	103,162	563	81	12.9
Sweet Potato	0	0	574	75	0	574	75	0.0
Irish potatoes	717	158	1,133	358	18,984,524	1,850	516	30.6
Yams	87	3	217	14	1,301,986	304	17	16.4
Coco Yam	138	4	2,090	143	176,177	2,228	147	2.6
ROOTS & TUBERS		175		661	20,565,849	5,518	836	20.9
Mung Bean	0	0	88	36	0	88	36	0.0
Beans	13,089	3,780	87,051	21,836	298,442,748	100,140	25,616	14.8
Cowpeas	216	35	5,686	1,364	1,945,723	5,902	1,399	2.5
Green gram	108	33	1,490	365	324,287	1,598	397	8.3
Field Peas	0	0	212	32	0	212	32	0.0
PULSES		3,848		23,632	300,712,758	107,940	27,480	14.0
Sunflower	7,384	1,583	14,693	2,368	35,829,020	22,077	3,951	40.1
Simsim	0	0	87	9	0	87	9	0.0
Groundnut	0	0	4,296	924	0	4,296	924	0.0
OIL SEEDS & OIL NUTS		1,583		3,302	35,829,020	26,461	4,885	32.4
Okra	212	21	288	100	317,271	499	121	17.7
Radish	0	0	63	25	0	63	25	0.0
Turmeric	0	0	63	6	0	63	6	0.0
Bitteer Aubergine	175	11	262	28	236,196	436	39	27.4
Onion	176	18	0	0	2,464,689	176	18	100.0
Ginger	0	0	404	174	0	404	174	0.0
Cabbage	543	96	226	14	3,025,280	769	110	87.0
Tomatoes	3,798	564	1,103	159	25,253,532	4,901	723	78.0
Spinach	834	111	559	103	2,853,367	1,393	214	51.9
Carrot	301	32	88	3	1,944,427	389	36	90.3
Chillies	1,172	144	138	10	9,704,966	1,310	154	93.6
Amaranths	325	26	1,258	357	741,766	1,583	384	6.9
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	385	39	260	42	2,467,192	646	81	48.2
Egg Plant	87	2	260	36	520,794	347	38	5.8
Water Mellon	87	18	0	0	1,301,986	87	18	100.0
FRUITS & VEGETABLES		1,083		1,058	50,831,465	13,065	2,141	50.6
Tobacco	0	0	225	20	0	225	20	0.0
CASH CROPS		0		20	0	225	20	0.0
Total		43,612		57,736	2,569,781,462	293,917	101,347	43.0

5.87 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Local seed Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - KILIMANJARO

Rombo

Crops	Local seed use							% of Planted area using Local seed
	Number of Households using Local seed	Planted Area Local seed Used	Number of Households NOT using Local seed	Planted Area Local seed not Used	Cost of Local seed	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	4,864	1,016	9,404	2,108	23,943,203	14,269	3,124	32.5
Paddy	0	0	0	0	0	0	0	0.0
Sorghum	0	0	0	0	0	0	0	0.0
Finger Millet	6,161	1,548	0	0	13,214,702	6,161	1,548	100.0
CEREALS		2,564		2,108	37,157,905	20,430	4,672	54.9
Cassava	0	0	0	0	0	0	0	0.0
Sweet Potato	0	0	0	0	0	*0*	*0*	0.0
Irish potatoes	216	88	540	131	12,971,487	757	219	40.0
Yams	0	0	0	0	0	0	0	0.0
Coco Yam	0	0	0	0	0	0	0	0.0
ROOTS & TUBERS		88		131	12,971,487		219	40.0
Mung Bean	0	0	0	0	0	*0*	*0*	0.0
Beans	14,809	3,895	2,919	1,153	199,074,490	17,728	5,048	77.2
Cowpeas	4,648	963	216	35	21,824,527	4,864	998	96.5
Green gram	865	132	108	33	2,032,200	973	165	80.1
Field Peas	0	0	0	0	0	0	0	0.0
PULSES		4,989		1,221	222,931,216		6,210	80.3
Sunflower	4,432	716	324	71	11,214,931	4,756	786	91.0
Simsim	0	0	0	0	0	0	0	0.0
Groundnut	3,135	581	0	0	34,443,621	*3,135*	581	100.0
OIL SEEDS & OIL NUTS		1,297		71	45,658,553		1,367	94.8
Okra	0	0	0	0	0	0	0	0.0
Radish	0	0	0	0	0	0	0	0.0
Turmeric	0	0	0	0	0	0	0	0.0
Bitteer Aubergine	0	0	0	0	0	*0*	0	0.0
Onion	0	0	0	0	0	0	0	0.0
Ginger	0	0	0	0	0	0	0	0.0
Cabbage	0	0	0	0	0	0	0	0.0
Tomatoes	0	0	0	0	0	0	0	0.0
Spinach	0	0	0	0	0	0	0	0.0
Carrot	0	0	0	0	0	0	0	0.0
Chillies	0	0	0	0	0	0	0	0.0
Amaranths	0	0	0	0	0	0	0	0.0
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	0	0	0	0	0	0	0	0.0
Egg Plant	0	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		0		0	0	0	0	0.0
Tobacco	0	0	0	0	0	0	0	0.0
CASH CROPS		0		0	0	0	0	0.0
Total		8,937		3,531	318,719,161	52,643	12,468	71.7

5.88 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Local seed Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - KILIMANJARO

Mwanga

Crops	Local seed use							% of Planted area using Local seed
	Number of Households using Local seed	Planted Area Local seed Used	Number of Households NOT using Local seed	Planted Area Local seed not Used	Cost of Local seed	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	6,138	2,725	7,221	3,704	38,170,567	13,360	6,429	42.4
Paddy	103	31	413	209	1,573,225	516	240	13.0
Sorghum	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	0	0	0	0	0	0.0
CEREALS		2,757		3,912	39,743,792	13,875	6,669	41.3
Cassava	0	0	52	10	0	52	10	0.0
Sweet Potato	309	39	0	0	980,042	309	39	100.1
Irish potatoes	0	0	0	0	0	0	0	0.0
Yams	155	5	0	0	464,230	155	5	104.4
Coco Yam	309	23	52	3	683,450	361	25	88.7
ROOTS & TUBERS		67		13	2,127,722	877	80	83.4
Mung Bean	0	0	0	0	0	0	0	0.0
Beans	8,614	2,237	928	333	136,698,301	9,543	2,569	0.0
Cowpeas	774	222	0	34	3,200,095	774	255	86.9
Green gram	103	3	0	19	134,111	103	22	12.5
Field Peas	0	0	0	0	0	0	0	0.0
PULSES		2,461		385	140,032,507	10,419	2,846	86.5
Sunflower	103	78	464	167	618,974	567	245	31.9
Simsim	0	0	0	0	0	0	0	0.0
Groundnut	52	21	0	0	1,547,435	52	21	99.4
OIL SEEDS & OIL NUTS		99		167	2,166,408	619	266	37.3
Okra	52	4	0	0	412,649	52	4	104.4
Radish	0	0	0	0	0	0	0	0.0
Turmeric	0	0	0	0	0	0	0	0.0
Bitteer Aubergine	0	0	0	0	0	0	0	0.0
Onion	0	0	0	0	0	0	0	0.0
Ginger	52	5	0	0	2,579,058	52	5	104.4
Cabbage	52	5	155	14	257,906	206	19	27.8
Tomatoes	0	0	206	54	0	206	54	0.0
Spinach	0	0	0	0	0	0	0	0.0
Carrot	0	0	0	0	0	0	0	0.0
Chillies	0	0	52	4	0	52	4	0.0
Amaranths	0	0	0	0	0	0	0	0.0
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	0	0	0	0	0	0	0	0.0
Egg Plant	0	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		15		72	3,249,612	567	87	16.9
Tobacco	52	3	0	0	618,974	52	3	100.0
CASH CROPS		3		0	618,974	52	3	100.0
Total		5,401		4,550	187,939,016	26,410	9,951	54.3

5.89 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Local seed Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - KILIMANJARO

Same

Crops	Local seed use							% of Planted area using Local seed
	Number of Households using Local seed	Planted Area Local seed Used	Number of Households NOT using Local seed	Planted Area Local seed not Used	Cost of Local seed	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	8,274	4,456	1,760	780	47,612,505	10,035	5,236	85.1
Paddy	440	160	176	62	4,823,748	616	223	72.0
Sorghum	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	0	0	0	0	0	0.0
CEREALS		4,616		843	52,436,253	10,651	5,459	84.6
Cassava	88	36	0	0	1,760,492	88	36	100.0
Sweet Potato	264	36	0	0	660,184	264	36	100.0
Irish potatoes	792	169	176	27	21,478,002	968	196	86.4
Yams	0	0	0	0	0	0	0	0.0
Coco Yam	88	18	0	0	1,760,492	88	18	99.0
ROOTS & TUBERS		258		27	25,659,170	1,408	285	90.6
Mung Bean	88	36	0	0	5,281,476	88	36	99.0
Beans	15,052	5,278	1,672	555	336,694,087	16,725	5,833	90.5
Cowpeas	264	146	0	0	1,232,344	264	146	100.0
Green gram	88	36	0	0	176,049	88	36	100.0
Field Peas	0	0	0	0	0	0	0	0.0
PULSES		5,495		555	343,383,957	17,165	6,050	90.8
Sunflower	264	53	88	107	2,904,812	352	160	33.3
Simsim	0	0	0	0	0	0	0	0.0
Groundnut	264	45	0	0	4,084,341	264	45	100.0
OIL SEEDS & OIL NUTS		98		107	6,989,153	616	205	47.8
Okra	0	0	0	0	0	0	0	0.0
Radish	0	0	0	0	0	0	0	0.0
Turmeric	0	0	0	0	0	0	0	0.0
Bitteer Aubergine	88	9	88	9	88,025	176	18	50.0
Onion	0	0	176	18	0	176	0	0.0
Ginger	352	169	0	0	116,368,519	352	196	86.4
Cabbage	0	0	176	14	0	176	14	0.0
Tomatoes	704	107	792	134	1,980,553	1,496	241	44.4
Spinach	0	0	88	9	0	88	9	0.0
Carrot	0	0	176	14	0	176	14	0.0
Chillies	0	0	0	0	0	0	0	0.0
Amaranths	352	36	176	18	528,148	528	53	66.7
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	0	0	0	0	0	0	0	0.0
Egg Plant	0	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		321		214	118,965,244	3,169	535	60.0
Tobacco	0	0	0	0	0	0	0	0.0
CASH CROPS		0		0	0	0	0	0.0
Total		10,788		1,746	547,433,777	33,009	12,534	86.1

5.89 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Local seed Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - KILIMANJARO

Same

Crops	Local seed use							% of Planted area using Local seed
	Number of Households using Local seed	Planted Area Local seed Used	Number of Households NOT using Local seed	Planted Area Local seed not Used	Cost of Local seed	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	8,274	4,456	1,760	780	47,612,505	10,035	5,236	85.1
Paddy	440	160	176	62	4,823,748	616	223	72.0
Sorghum	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	0	0	0	0	0	0.0
CEREALS		4,616		843	52,436,253	10,651	5,459	84.6
Cassava	88	36	0	0	1,760,492	88	36	100.0
Sweet Potato	264	36	0	0	660,184	264	36	100.0
Irish potatoes	792	169	176	27	21,478,002	968	196	86.4
Yams	0	0	0	0	0	0	0	0.0
Coco Yam	88	18	0	0	1,760,492	88	18	99.0
ROOTS & TUBERS		258		27	25,659,170	1,408	285	90.6
Mung Bean	88	36	0	0	5,281,476	88	36	99.0
Beans	15,052	5,278	1,672	555	336,694,087	16,725	5,833	90.5
Cowpeas	264	146	0	0	1,232,344	264	146	100.0
Green gram	88	36	0	0	176,049	88	36	100.0
Field Peas	0	0	0	0	0	0	0	0.0
PULSES		5,495		555	343,383,957	17,165	6,050	90.8
Sunflower	264	53	88	107	2,904,812	352	160	33.3
Simsim	0	0	0	0	0	0	0	0.0
Groundnut	264	45	0	0	4,084,341	264	45	100.0
OIL SEEDS & OIL NUTS		98		107	6,989,153	616	205	47.8
Okra	0	0	0	0	0	0	0	0.0
Radish	0	0	0	0	0	0	0	0.0
Turmeric	0	0	0	0	0	0	0	0.0
Bitteer Aubergine	88	9	88	9	88,025	176	18	50.0
Onion	0	0	176	18	0	176	0	0.0
Ginger	352	169	0	0	116,368,519	352	196	86.4
Cabbage	0	0	176	14	0	176	14	0.0
Tomatoes	704	107	792	134	1,980,553	1,496	241	44.4
Spinach	0	0	88	9	0	88	9	0.0
Carrot	0	0	176	14	0	176	14	0.0
Chillies	0	0	0	0	0	0	0	0.0
Amaranths	352	36	176	18	528,148	528	53	66.7
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	0	0	0	0	0	0	0	0.0
Egg Plant	0	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		321		214	118,965,244	3,169	535	60.0
Tobacco	0	0	0	0	0	0	0	0.0
CASH CROPS		0		0	0	0	0	0.0
Total		10,788		1,746	547,433,777	33,009	12,534	86.1

5.88 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Local seed Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - KILIMANJARO

Hai

Crops	Local seed use							% of Planted area using Local seed
	Number of Households using Local seed	Planted Area Local seed Used	Number of Households NOT using Local seed	Planted Area Local seed not Used	Cost of Local seed	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	7,204	2,813	20,311	9,485	89,308,829	27,515	12,298	22.9
Paddy	87	18	521	176	1,041,588	608	193	9.1
Sorghum	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	0	0	0	0	0	0.0
CEREALS		2,830		9,661	90,350,418	28,123	12,491	22.7
Cassava	0	0	0	0	0	0	0	0.0
Sweet Potato	0	0	0	0	0	0	0	0.0
Irish potatoes	0	0	0	0	0	0	0	0.0
Yams	0	0	87	3	0	87	3	0.0
Coco Yam	0	0	87	3	0	87	3	0.0
ROOTS & TUBERS		0		6	0	174	6	0.0
Mung Bean	0	0	0	0	0	0	0	0.0
Beans	19,183	3,815	2,170	622	252,004,593	21,353	4,437	0.0
Cowpeas	0	0	0	0	0	0	0	0.0
Green gram	434	176	0	0	6,353,689	434	176	100.0
Field Peas	87	2	0	0	260,397	87	2	100.0
PULSES		3,993		622	258,618,680	21,873	4,614	86.5
Sunflower	4,166	292	1,042	276	13,783,687	5,208	568	51.4
Simsim	87	9	0	0	433,995	87	9	100.0
Groundnut	0	0	0	0	0	0	0	0.0
OIL SEEDS & OIL NUTS		301		276	14,217,682	5,295	577	52.1
Okra	174	70	0	0	3,645,559	174	70	100.0
Radish	0	0	0	0	0	0	0	0.0
Turmeric	0	0	0	0	0	0	0	0.0
Bitteer Aubergine	87	18	87	4	867,990	174	21	83.3
Onion	0	0	0	0	0	0	0	0.0
Ginger	0	0	0	0	0	0	0	0.0
Cabbage	87	6	87	9	433,995	174	14	39.0
Tomatoes	174	18	434	97	1,866,179	608	114	0.0
Spinach	174	15	260	99	781,191	434	114	0.0
Carrot	0	0	0	0	0	0	0	0.0
Chillies	87	4	0	4	104,159	87	9	0.0
Amaranths	608	287	87	24	1,566,723	694	311	92.2
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	174	26	174	44	1,909,579	347	70	37.5
Egg Plant	174	15	87	23	564,194	260	38	0.0
Water Mellon	0	0	87	18	0	87	18	0.0
FRUITS & VEGETABLES		459		321	11,739,569	3,038	780	58.8
Tobacco	174	18	0	0	781,191	174	18	100.0
CASH CROPS		18		0	781,191	174	18	100.0
Total		7,600		10,886	375,707,540	58,676	18,485	41.1

5.89 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Local seed Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - KILIMANJARO

Siha

Crops	Local seed use							% of Planted area using Local seed
	Number of Households using Local seed	Planted Area Local seed Used	Number of Households NOT using Local seed	Planted Area Local seed not Used	Cost of Local seed	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	6,065	3,849	12,756	9,476	131,590,415	18,821	13,325	28.9
Paddy	63	20	0	0	187,583	63	20	100.0
Sorghum	0	0	0	0	0	0	0	0.0
Finger Millet	438	89	0	0	1,982,125	438	89	100.0
CEREALS		3,958		9,476	133,760,123	19,321	13,434	29.5
Cassava	0	0	0	0	0	0	0	0.0
Sweet Potato	0	0	0	0	0	0	0	0.0
Irish potatoes	125	101	0	0	8,753,865	125	101	100.0
Yams	63	9	0	0	93,791	63	9	100.0
Coco Yam	0	0	0	0	0	0	0	0.0
ROOTS & TUBERS		110		0	8,847,657	188	110	100.0
Mung Bean	0	0	0	0	0	0	0	0.0
Beans	10,880	2,677	2,439	1,034	179,967,525	13,318	3,710	72.1
Cowpeas	0	0	0	0	0	0	0	0.0
Green gram	0	0	0	0	0	0	0	0.0
Field Peas	125	30	0	0	625,276	125	30	100.0
PULSES		2,707		1,034	180,592,801	13,443	3,741	72.4
Sunflower	3,126	696	813	268	6,809,882	3,939	964	72.2
Simsim	0	0	0	0	0	0	0	0.0
Groundnut	0	0	0	0	0	0	0	0.0
OIL SEEDS & OIL NUTS		696		268	6,809,882	3,939	964	72.2
Okra	63	25	0	0	125,055	63	25	100.0
Radish	63	25	0	0	3,751,656	63	25	100.0
Turmeric	63	6	0	0	75,033	63	6	100.0
Bitteer Aubergine	0	0	0	0	0	0	0	0.0
Onion	0	0	0	0	0	0	0	0.0
Ginger	0	0	0	0	0	0	0	0.0
Cabbage	0	0	125	63	0	125	63	0.0
Tomatoes	0	0	250	76	0	250	76	0.0
Spinach	0	0	63	10	0	63	10	0.0
Carrot	0	0	125	22	0	125	22	0.0
Chillies	0	0	63	13	0	63	13	0.0
Amaranths	0	0	63	6	0	63	6	125.1
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	0	0	0	0	0	0	0	0.0
Egg Plant	0	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		57		190	3,951,745	875	247	23.1
Tobacco	0	0	0	0	0	0	0	0.0
CASH CROPS		0		0	0	0	0	0.0
Total		7,528		10,968	333,962,207	37,767	18,496	40.7

5.90 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Local seed Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - KILIMANJARO

Total

Crops	Local seed use							% of Planted area using Local seed
	Number of Households using Local seed	Planted Area Local seed Used	Number of Households NOT using Local seed	Planted Area Local seed not Used	Cost of Local seed	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	44,391	22,193	82,628	41,254	453,832,265	127,019	63,447	35.0
Paddy	693	230	1,533	554	7,626,144	2,225	783	29.3
Sorghum	212	21	423	64	126,908	635	86	25.0
Finger Millet	7,022	1,681	212	21	16,783,180	7,234	1,702	98.7
CEREALS		24,125		41,893	478,368,498	137,112	66,019	36.5
Cassava	511	71	52	10	5,165,863	563	81	87.1
Sweet Potato	574	75	0	0	1,640,226	574	75	100.0
Irish potatoes	1,133	358	717	158	43,203,354	1,850	516	69.4
Yams	217	14	87	3	558,022	304	17	83.6
Coco Yam	2,090	140	613	7	12,702,358	2,703	147	95.1
ROOTS & TUBERS		658		178	63,269,823	5,993	836	78.7
Mung Bean	88	36	0	0	5,281,476	88	36	100.0
Beans	86,305	21,361	15,436	4,255	1,341,171,718	101,741	25,616	83.4
Cowpeas	5,686	1,331	423	69	26,256,966	6,108	1,399	95.1
Green gram	1,490	346	211	52	8,696,049	1,701	397	87.0
Field Peas	212	32	0	0	885,673	212	32	100.0
PULSES		23,105		4,375	1,382,291,882	109,850	27,480	84.1
Sunflower	14,207	2,239	7,978	1,713	40,831,642	22,185	3,951	56.7
Simsim	87	9	0	0	433,995	87	9	100.0
Groundnut	4,296	924	0	0	76,032,731	4,296	924	100.0
OIL SEEDS & OIL NUTS		3,172		1,713	117,298,369	26,568	4,885	64.9
Okra	288	100	212	21	4,183,264	499	121	82.3
Radish	63	25	0	0	3,751,656	63	25	100.0
Turmeric	63	6	0	0	75,033	63	6	100.0
Bitteer Aubergine	175	26	175	12	956,015	350	39	68.1
Onion	0	0	176	18	0	176	18	0.0
Ginger	404	174	0	0	118,947,576	404	174	100.0
Cabbage	138	11	543	99	691,901	681	110	9.9
Tomatoes	878	124	3,798	599	3,846,733	4,676	723	17.2
Spinach	385	24	921	190	1,098,462	1,306	214	11.2
Carrot	0	0	301	36	0	301	36	0.0
Chillies	87	4	1,258	150	104,159	1,345	154	2.9
Amaranths	1,171	335	412	48	2,412,141	1,583	384	87.4
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	174	26	385	54	1,909,579	559	81	32.7
Egg Plant	174	15	260	23	564,194	434	38	38.4
Water Mellon	0	0	87	18	0	87	18	0.0
FRUITS & VEGETABLES		872		1,269	138,540,712	12,525	2,141	40.7
Tobacco	225	20	0	0	1,400,165	225	20	100.0
CASH CROPS		20		0	1,400,165	225	20	100.0
Total		51,953		49,428	2,181,169,450	292,275	101,380	51.2

5.87 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Organic Fertilizers Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - KILIMANJARO

Rombo

Crops	Organic Fertilizers							% of Planted area using Organic Fertilizers
	Number of Households using Organic Fertilizers	Planted Area Organic Fertilizers Used	Number of Households NOT using Organic Fertilizers	Planted Area Organic Fertilizers not Used	Cost of Organic Fertilizers	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	3,891	690	10,810	2,434	61,517,277	14,701	3,124	22.1
Paddy	0	0	0	0	0	0	0	0.0
Sorghum	0	0	0	0	0	0	0	0.0
Finger Millet	108	11	6,053	1,537	432,383	6,161	1,548	0.7
CEREALS		701		3,971	61,949,659	20,862	4,672	15.0
Cassava	0	0	0	0	0	0	0	0.0
Sweet Potato	0	0	0	0	0	*0*	*0*	0.0
Irish potatoes	0	0	757	219	0	757	0	0.0
Yams	0	0	0	0	0	0	0	0.0
Coco Yam	0	0	0	0	0	0	0	0.0
ROOTS & TUBERS		0		219	0		0	0.0
Mung Bean	0	0	0	0	0	*0*	*0*	0.0
Beans	2,702	813	15,133	4,235	44,632,724	17,836	5,048	16.1
Cowpeas	108	13	4,756	985	6,485,743	4,864	998	1.3
Green gram	0	0	973	165	0	973	165	0.0
Field Peas	0	0	0	0	0	0	0	0.0
PULSES		826		5,384	51,118,468		6,210	13.3
Sunflower	0	0	4,756	786	0	4,756	786	0.0
Simsim	0	0	0	0	0	0	0	0.0
Groundnut	0	0	3,135	581	0	*3,135*	581	0.0
OIL SEEDS & OIL NUTS		0		1,367	0		1,367	0.0
Okra	0	0	0	0	0	0	0	0.0
Radish	0	0	0	0	0	0	0	0.0
Turmeric	0	0	0	0	0	0	0	0.0
Bitteer Aubergine	0	0	0	0	0	*0*	0	0.0
Onion	0	0	0	0	0	0	0	0.0
Ginger	0	0	0	0	0	0	0	0.0
Cabbage	0	0	0	0	0	0	0	0.0
Tomatoes	0	0	0	0	0	0	0	0.0
Spinach	0	0	0	0	0	0	0	0.0
Carrot	0	0	0	0	0	0	0	0.0
Chillies	0	0	0	0	0	0	0	0.0
Amaranths	0	0	0	0	0	0	0	0.0
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	0	0	0	0	0	0	0	0.0
Egg Plant	0	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		0		0	0	0	0	0.0
Tobacco	0	0	0	0	0	0	0	0.0
CASH CROPS		0		0	0	0	0	0.0
Total		1,527		10,941	113,068,127	53,183	12,468	12.2

5.88 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Organic Fertilizers Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - KILIMANJARO

Mwanga

Crops	Organic Fertilizers							% of Planted area using Organic Fertilizers
	Number of Households using Organic Fertilizers	Planted Area Organic FertilizersUsed	Number of Households NOT using Organic Fertilizers	Planted Area Organic Fertilizers not Used	Cost of Organic Fertilizers	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	2,682	579	10,987	5,850	60,824,492	13,669	6,429	9.0
Paddy	0	0	516	240	0	516	240	0.0
Sorghum	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	0	0	0	0	0	0.0
CEREALS		579		6,090	60,824,492	14,185	6,669	8.7
Cassava	0	0	52	10	0	52	10	0.0
Sweet Potato	206	31	103	8	11,502,597	*309*	*39*	79.2
Irish potatoes	0	0	0	0	0	0	0	0.0
Yams	103	3	52	2	516	155	5	62.6
Coco Yam	206	8	155	17	10,378,127	361	25	32.8
ROOTS & TUBERS		42		38	21,881,240		80	52.9
Mung Bean	0	0	0	0	0	*0*	*0*	0.0
Beans	1,032	166	8,511	2,403	45,417,203	9,543	2,569	0.0
Cowpeas	0	0	774	255	0	774	255	0.0
Green gram	0	0	103	22	0	103	22	0.0
Field Peas	0	0	0	0	0	0	0	0.0
PULSES		166		2,680	45,417,203		2,846	5.8
Sunflower	0	0	567	245	0	567	245	0.0
Simsim	0	0	0	0	0	0	0	0.0
Groundnut	0	0	52	21	0	*52*	21	0.0
OIL SEEDS & OIL NUTS		0		266	0		266	0.0
Okra	0	0	52	4	0	52	4	0.0
Radish	0	0	0	0	0	0	0	0.0
Turmeric	0	0	0	0	0	0	0	0.0
Bitteer Aubergine	0	0	0	0	0	*0*	0	0.0
Onion	0	0	0	0	0	0	0	0.0
Ginger	52	5	0	0	1,031,623	52	5	104.4
Cabbage	155	16	52	3	980,042	206	19	83.3
Tomatoes	52	5	155	49	206,325	206	54	0.0
Spinach	0	0	0	0	0	0	0	0.0
Carrot	0	0	0	0	0	0	0	0.0
Chillies	52	4	0	0	154,743	52	4	0.0
Amaranths	0	0	0	0	0	0	0	0.0
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	0	0	0	0	0	0	0	0.0
Egg Plant	0	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		30		56	2,372,733	567	87	34.9
Tobacco	52	3	0	0	1,547,435	52	3	100.0
CASH CROPS		3		0	1,547,435	52	3	100.0
Total		820		9,130	132,043,102	26,719	9,951	8.2

5.89 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Organic Fertilizers Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - KILIMANJARO

Same

Crops	Organic Fertilizers							
	Number of Households using Organic Fertilizersd	Planted Area Organic Fertilizers Used	Number of Households NOT using Organic Fertilizers	Planted Area Organic Fertilizers not Used	Cost of Organic Fertilizers	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of Planted area using Organic Fertilizers
Maize	616	221	9,419	5,015	9,330,607	10,035	5,236	4.2
Paddy	88	36	528	187	4,401,230	616	223	16
Sorghum	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0
CEREALS		257		5,202	13,731,837	10,651	5,459	4.7
Cassava	0	0	88	36	0	88	36	0
Sweet Potato	0	0	264	36	0	*264*	*36*	0
Irish potatoes	264	45	704	151	2,068,578	968	196	22.7
Yams	0	0	0	0	0	0	0	0
Coco Yam	88	18	0	0	2,640,738	88	18	99
ROOTS & TUBERS		62		223	4,709,316		285	21.9
Mung Bean	0	0	88	36	0	*88*	*36*	0
Beans	176	27	16,549	5,806	176,049	16,725	5,833	0.5
Cowpeas	0	0	264	146	0	264	146	0
Green gram	0	0	88	36	0	88	36	0
Field Peas	0	0	0	0	0	0	0	0
PULSES		27		6,023	176,049		6,050	0.4
Sunflower	0	0	352	160	0	352	160	0
Simsim	0	0	0	0	0	0	0	0
Groundnut	88	9	176	36	264,074	*264*	45	20
OIL SEEDS & OIL NUTS		9		196	264,074		205	4.3
Okra	0	0	0	0	0	0	0	0
Radish	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0
Bitteer	176	18	0	0	396,111		18	
Aubergine						*176*		100
Onion	88	9	88	9	88,025	176	0	0
Ginger	264	116	88	53	9,506,657	352	196	59.1
Cabbage	88	9	88	5	88,025	176	14	0
Tomatoes	880	100	704	140	17,076,772	1,584	241	41.7
Spinach	88	9	0	0	88,025	88	9	0
Carrot	88	9	88	5	220,061	176	14	0
Chillies	0	0	0	0	0	0	0	0
Amaranths	528	46	88	8	686,592	616	53	85.4
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		315		220	28,150,266	3,345	535	58.9
Tobacco	0	0	0	0	0	0	0	0
CASH CROPS		0		0	0	0	0	0
Total		670		11,864	47,031,543	33,185	12,534	5.3

5.87 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Organic Fertilizers Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - KILIMANJARO

Moshi Rural

Crops	Organic Fertilizers							% of Planted area using Organic Fertilizers
	Number of Households Organic Fertilizersl seed	Planted Area Organic Fertilizers Used	Number of Households NOT using Organic Fertilizers	Planted Area Organic Fertilizers not Used	Cost of Organic Fertilizers	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	5,288	2,303	36,592	20,733	137,314,713	41,880	23,035	10.0
Paddy	0	0	423	107	0	423	107	0.0
Sorghum	212	43	423	43	2,115,137	635	86	50.0
Finger Millet	0	0	635	66	0	635	66	0.0
CEREALS		2,345		20,948	139,429,850	43,572	23,294	10.1
Cassava	0	0	423	35	0	423	35	0.0
Sweet Potato	0	0	0	0	0	*0*	*0*	0.0
Irish potatoes	0	0	0	0	0	0	0	0.0
Yams	0	0	0	0	0	0	0	0.0
Coco Yam	423	21	1,269	80	1,903,624	1,692	101	20.3
ROOTS & TUBERS		21		116	1,903,624		136	15.1
Mung Bean	0	0	0	0	0	*0*	*0*	0.0
Beans	2,327	724	18,402	3,294	33,842,197	20,728	4,019	18.0
Cowpeas	0	0	0	0	0	0	0	0.0
Green gram	0	0	0	0	0	0	0	0.0
Field Peas	0	0	0	0	0	0	0	0.0
PULSES		724		3,294	33,842,197		4,019	18.0
Sunflower	212	86	6,557	1,141	2,115,137	6,768	1,227	7.0
Simsim	0	0	0	0	0	0	0	0.0
Groundnut	0	0	846	278	0	*846*	278	0.0
OIL SEEDS & OIL NUTS		86		1,420	2,115,137		1,505	5.7
Okra	0	0	212	21	0	212	21	0.0
Radish	0	0	0	0	0	0	0	0.0
Turmeric	0	0	0	0	0	0	0	0.0
Bitteer Aubergine	0	0	0	0	0	*0*	0	0.0
Onion	0	0	0	0	0	0	0	0.0
Ginger	0	0	0	0	0	0	0	0.0
Cabbage	0	0	0	0	0	0	0	0.0
Tomatoes	212	3	1,904	235	528,784	2,115	238	0.0
Spinach	635	81	0	0	1,269,082	635	81	100.0
Carrot	0	0	0	0	0	0	0	0.0
Chillies	0	0	1,058	128	0	1,058	128	0.0
Amaranths	212	13	0	0	211,514	212	13	0.0
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	0	0	212	10	0	212	10	0.0
Egg Plant	0	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		97		396	2,009,380	4,442	492	19.7
Tobacco	0	0	0	0	0	0	0	0.0
CASH CROPS		0		0	0	0	0	0.0
Total		3,273		26,174	179,300,188	78,472	29,447	11.1

5.88 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Organic Fertilizers Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - KILIMANJARO

Hai

Crops	Organic Fertilizers							% of Planted area using Organic Fertilizers
	Number of Households using Organic Fertilizers	Planted Area Organic Fertilizers Used	Number of Households NOT using Organic Fertilizers	Planted Area Organic Fertilizers not Used	Cost of Organic Fertilizers	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	2,170	690	25,432	11,575	83,925,987	27,602	12,265	5.6
Paddy	0	0	608	193	0	608	193	0.0
Sorghum	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	0	0	0	0	0	0.0
CEREALS		690		11,768	83,925,987	28,210	12,458	5.5
Cassava	0	0	0	0	0	0	0	0.0
Sweet Potato	0	0	0	0	0	*0*	*0*	0.0
Irish potatoes	0	0	0	0	0	0	0	0.0
Yams	87	3	0	0	43,400	87	3	0.0
Coco Yam	87	3	0	0	208,318	87	3	0.0
ROOTS & TUBERS		6		0	251,717		6	0.0
Mung Bean	0	0	0	0	0	*0*	*0*	0.0
Beans	868	140	20,485	4,297	12,967,776	21,353	4,437	0.0
Cowpeas	0	0	0	0	0	0	0	0.0
Green gram	0	0	434	176	0	434	176	0.0
Field Peas	0	0	87	2	0	87	2	0.0
PULSES		140		4,475	12,967,776		4,614	3.0
Sunflower	87	0	5,208	568	173,598	5,295	568	0.0
Simsim	0	0	87	9	0	87	9	0.0
Groundnut	0	0	0	0	0	*0*	0	0.0
OIL SEEDS & OIL NUTS		0		576	173,598		577	0.0
Okra	0	0	174	70	0	174	70	0.0
Radish	0	0	0	0	0	0	0	0.0
Turmeric	0	0	0	0	0	0	0	0.0
Bitteer Aubergine	87	4	87	18	20,832	*174*	21	16.7
Onion	0	0	0	0	0	0	0	0.0
Ginger	0	0	0	0	0	0	0	0.0
Cabbage	87	6	87	9	34,720	174	14	39.0
Tomatoes	87	9	521	105	40,535	608	114	0.0
Spinach	87	9	347	105	303,797	434	114	0.0
Carrot	0	0	0	0	0	0	0	0.0
Chillies	87	9	0	0	38,192	87	9	0.0
Amaranths	260	263	434	48	520,794	694	311	84.4
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	87	9	260	61	303,797	347	70	12.5
Egg Plant	174	20	87	18	324,628	260	38	0.0
Water Mellon	0	0	87	18	0	87	18	0.0
FRUITS & VEGETABLES		327		453	1,587,294	3,038	780	42.0
Tobacco	87	9	87	9	433,995	174	18	50.0
CASH CROPS		9		9	433,995	174	18	50.0
Total		1,172		17,280	99,340,367	58,850	18,452	6.4

5.89 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Organic Fertilizers Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - KILIMANJARO
Siha

Crops	Organic Fertilizers							% of Planted area using Organic Fertilizers
	Number of Households using Organic Fertilizers	Planted Area Organic Fertilizers Used	Number of Households NOT using Organic Fertilizers	Planted Area Organic Fertilizers not Used	Cost of Organic Fertilizers	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	1,688	943	17,383	12,382	41,465,183	19,071	13,325	7.1
Paddy	0	0	63	20	0	63	20	0.0
Sorghum	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	438	89	0	438	89	0.0
CEREALS		943		12,490	41,465,183		13,434	7.0
Cassava	0	0	0	0	0	0	0	0.0
Sweet Potato	0	0	0	0	0	*0*	*0*	0.0
Irish potatoes	0	0	125	101	5,002,209	125	101	0.0
Yams	63	9	0	0	187,583	63	9	100.0
Coco Yam	0	0	0	0	0	0	0	0.0
ROOTS & TUBERS		9		101	5,189,791		110	8.3
Mung Bean	0	0	0	0	0	*0*	*0*	0.0
Beans	563	86	12,818	3,624	1,635,097	13,381	3,710	2.3
Cowpeas	0	0	0	0	0	0	0	0.0
Green gram	0	0	0	0	0	0	0	0.0
Field Peas	0	0	125	30	0	125	30	0.0
PULSES		86		3,654	1,635,097		3,741	2.3
Sunflower	63	6	3,877	958	62,528	3,939	964	0.7
Simsim	0	0	0	0	0	0	0	0.0
Groundnut	0	0	0	0	0	*0*	0	0.0
OIL SEEDS & OIL NUTS		6		958	62,528		964	0.7
Okra	0	0	63	25	0	63	25	0.0
Radish	0	0	63	25	0	63	25	0.0
Turmeric	0	0	63	6	0	63	6	0.0
Bitteer Aubergine	0	0	0	0	0	*0*	0	0.0
Onion	0	0	0	0	0	0	0	0.0
Ginger	0	0	0	0	0	0	0	0.0
Cabbage	63	13	63	51	937,914	125	63	0.0
Tomatoes	188	63	63	13	5,439,902	250	76	0.0
Spinach	0	0	63	10	0	63	10	0.0
Carrot	125	22	0	0	187,583	125	22	0.0
Chillies	63	13	0	0	937,914	63	13	0.0
Amaranths	0	0	63	6	0	63	6	125
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		111		136	7,503,313		247	44.9
Tobacco	0	0	0	0	0	0	0	0.0
CASH CROPS		0		0	0		0	0.0
Total		1,156		17,340	55,855,912		18,496	6.3

5.88 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Inrganic Fertilizers Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - KILIMANJARO

Mwanga

Crops	Inrganic Fertilizers							
	Number of Households using Inrganic Fertilizers	Planted Area Inrganic Fertilizers Used	Number of Households NOT using Inrganic Fertilizers	Planted Area Inrganic Fertilizers not Used	Cost of Inrganic Fertilizers	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of Planted area using Inrganic Fertilizers
Maize	464	147	12,895	6,282	3,956,274	13,360	6,429	2.3
Paddy	413	209	103	31	18,775,539	516	240	87
Sorghum	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0
CEREALS		356		6,313	22,731,813	13,875	6,669	5.3
Cassava	0	0	52	10	0	52	10	0
Sweet Potato	0	0	309	39	0	*309*	*39*	0
Irish potatoes	0	0	0	0	0	0	0	0
Yams	0	0	155	5	0	155	5	0
Coco Yam	0	0	361	25	0	361	25	0
ROOTS & TUBERS		0		80	0		80	0
Mung Bean	0	0	0	0	0	*0*	*0*	0
Beans	155	42	9,388	2,527	412,649	9,543	2,569	0
Cowpeas	0	0	774	255	0	774	255	0
Green gram	0	0	103	22	0	103	22	0
Field Peas	0	0	0	0	0	0	0	0
PULSES		42		2,804	412,649		2,846	1.5
Sunflower	0	0	567	245	0	567	245	0
Simsim	0	0	0	0	0	0	0	0
Groundnut	0	0	52	21	0	*52*	21	0
OIL SEEDS & OIL NUTS		0		266	0		266	0
Okra	0	0	52	4	0	52	4	0
Radish	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0
Bitteer	0	0	0	0	0		0	0
Aubergine						*0*		
Onion	0	0	0	0	0	0	0	0
Ginger	0	0	52	5	0	52	5	0
Cabbage	52	3	155	16	1,934,293	206	19	16.7
Tomatoes	155	48	103	7	3,056,183	258	54	88.5
Spinach	0	0	0	0	0	0	0	0
Carrot	0	0	0	0	0	0	0	0
Chillies	0	0	52	4	0	52	4	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES		51		36	4,990,476	619	87	58.7
Tobacco	0	0	52	3	0	52	3	0
CASH CROPS		0		3	0	52	3	0
Total		449		9,502	28,134,938	26,461	9,951	4.5

5.89 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Inrganic Fertilizers Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - KILIMANJARO

Same

Crops	Inrganic Fertilizers							% of Planted area using Inrganic Fertilizers
	Number of Households using Inrganic Fertilizers	Planted Area Inrganic Fertilizers Used	Number of Households NOT using Inrganic Fertilizers	Planted Area Inrganic Fertilizers not Used	Cost of Inrganic Fertilizers	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	968	151	9,067	5,085	17,376,056	10,035	5,236	2.9
Paddy	528	187	88	36	29,224,167	616	223	84.0
Sorghum	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	0	0	0	0	0	0.0
CEREALS		339		5,120	46,600,222	10,651	5,459	6.2
Cassava	0	0	88	36	0	88	36	0.0
Sweet Potato	0	0	264	36	0	*264*	*36*	0.0
Irish potatoes	0	0	968	196	0	968	196	0.0
Yams	0	0	0	0	0	0	0	0.0
Coco Yam	0	0	88	18	0	88	18	0.0
ROOTS & TUBERS		0		285	0		285	0.0
Mung Bean	0	0	88	36	0	*88*	*36*	0.0
Beans	88	36	16,637	5,797	440,123	16,725	5,833	0.6
Cowpeas	0	0	264	146	0	264	146	0.0
Green gram	0	0	88	36	0	88	36	0.0
Field Peas	0	0	0	0	0	0	0	0.0
PULSES		36		6,015	440,123		6,050	0.6
Sunflower	88	107	264	53	880,246	352	160	66.7
Simsim	0	0	0	0	0	0	0	0.0
Groundnut	0	0	264	45	0	*264*	45	0.0
OIL SEEDS & OIL NUTS		107		98	880,246		205	52.2
Okra	0	0	0	0	0	0	0	0.0
Radish	0	0	0	0	0	0	0	0.0
Turmeric	0	0	0	0	0	0	0	0.0
Bitteer Aubergine	0	0	176	18	0	*176*	18	0.0
Onion	88	9	88	9	1,408,394	176	0	0.0
Ginger	0	0	352	169	0	352	196	0.0
Cabbage	0	0	176	14	0	176	14	0.0
Tomatoes	616	134	880	107	7,344,772	1,496	241	55.6
Spinach	0	0	88	9	0	88	9	0.0
Carrot	0	0	176	14	0	176	14	0.0
Chillies	0	0	0	0	0	0	0	0.0
Amaranths	0	0	528	53	0	528	53	0.0
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	0	0	0	0	0	0	0	0.0
Egg Plant	0	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		143		392	8,753,166	3,169	535	26.6
Tobacco	0	0	0	0	0	0	0	0.0
CASH CROPS		0		0	0	0	0	0.0
Total		624		11,910	56,673,757	33,009	12,534	5.0

5.87 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Inrganic Fertilizers Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - KILIMANJARO

Moshi Rural

Crops	Inrganic Fertilizers							% of Planted area using Inrganic Fertilizers
	Number of Households using Inrganic Fertilizers	Planted Area Inrganic Fertilizers Used	Number of Households NOT using Inrganic Fertilizers	Planted Area Inrganic Fertilizers not Used	Cost of Inrganic Fertilizers	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	25,170	10,505	17,133	12,530	922,707,489	42,303	23,035	45.6
Paddy	423	107	0	0	24,324,079	423	107	0.0
Sorghum	0	0	635	86	0	635	86	0.0
Finger Millet	0	0	635	66	0	635	66	0.0
CEREALS		10,612		12,682	947,031,568	43,995	23,294	45.6
Cassava	0	0	423	35	0	423	35	0.0
Sweet Potato	0	0	0	0	0	*0*	*0*	0.0
Irish potatoes	0	0	0	0	0	0	0	0.0
Yams	0	0	0	0	0	0	0	0.0
Coco Yam	0	0	1,692	101	0	1,692	101	0.0
ROOTS & TUBERS		0		136	0		136	0.0
Mung Bean	0	0	0	0	0	*0*	*0*	0.0
Beans	0	0	20,728	4,019	0	20,728	4,019	0.0
Cowpeas	0	0	0	0	0	0	0	0.0
Green gram	0	0	0	0	0	0	0	0.0
Field Peas	0	0	0	0	0	0	0	0.0
PULSES		0		4,019	0		4,019	0.0
Sunflower	0	0	6,768	1,227	0	6,768	1,227	0.0
Simsim	0	0	0	0	0	0	0	0.0
Groundnut	0	0	846	278	0	*846*	278	0.0
OIL SEEDS & OIL NUTS		0		1,505	0		1,505	0.0
Okra	212	21	0	0	2,115,137	212	21	0.0
Radish	0	0	0	0	0	0	0	0.0
Turmeric	0	0	0	0	0	0	0	0.0
Bitteer Aubergine	0	0	0	0	0	*0*	0	0.0
Onion	0	0	0	0	0	0	0	0.0
Ginger	0	0	0	0	0	0	0	0.0
Cabbage	0	0	0	0	0	0	0	0.0
Tomatoes	1,904	230	423	8	76,567,970	2,327	238	0.0
Spinach	0	0	635	81	0	635	81	0.0
Carrot	0	0	0	0	0	0	0	0.0
Chillies	1,058	123	212	5	49,494,212	1,269	128	0.0
Amaranths	0	0	212	13	0	212	13	0.0
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	212	10	0	0	4,230,275	212	10	0.0
Egg Plant	0	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		385		107	132,407,594	4,865	492	78.2
Tobacco	0	0	0	0	0	0	0	0.0
CASH CROPS		0		0	0	0	0	0.0
Total		10,997		18,450	1,079,439,162	79,318	29,447	37.3

5.88 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Inrganic Fertilizers Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - KILIMANJARO

Hai

Crops	Inrganic Fertilizers							% of Planted area using Inrganic Fertilizers
	Number of Households using Inrganic Fertilizers	Planted Area Inrganic Fertilizers Used	Number of Households NOT using Inrganic Fertilizers	Planted Area Inrganic Fertilizers not Used	Cost of Inrganic Fertilizers	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	19,617	8,490	9,287	3,775	859,042,237	28,904	12,265	69.2
Paddy	608	193	0	0	30,709,499	608	193	100.0
Sorghum	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	0	0	0	0	0	0.0
CEREALS		8,683		3,775	889,751,736	29,512	12,458	69.7
Cassava	0	0	0	0	0	0	0	0.0
Sweet Potato	0	0	0	0	0	*0*	*0*	0.0
Irish potatoes	0	0	0	0	0	0	0	0.0
Yams	0	0	87	3	0	87	3	0.0
Coco Yam	0	0	87	3	0	87	3	0.0
ROOTS & TUBERS		0		6	0		6	0.0
Mung Bean	0	0	0	0	0	*0*	*0*	0.0
Beans	434	47	21,005	4,390	8,627,824	21,439	4,437	0.0
Cowpeas	0	0	0	0	0	0	0	0.0
Green gram	0	0	434	176	0	434	176	0.0
Field Peas	87	2	0	0	260,397	87	2	100.0
PULSES		48		4,566	8,888,221		4,614	1.0
Sunflower	347	22	4,948	545	2,864,368	5,295	568	3.9
Simsim	0	0	87	9	0	87	9	0.0
Groundnut	0	0	0	0	0	*0*	0	0.0
OIL SEEDS & OIL NUTS		22		554	2,864,368		577	3.9
Okra	174	70	0	0	7,117,521	174	70	100.0
Radish	0	0	0	0	0	0	0	0.0
Turmeric	0	0	0	0	0	0	0	0.0
Bitteer Aubergine	87	18	87	4	3,037,966	*174*	21	83.3
Onion	0	0	0	0	0	0	0	0.0
Ginger	0	0	0	0	0	0	0	0.0
Cabbage	87	7	174	8	867,990	260	14	45.7
Tomatoes	521	99	174	15	20,354,374	694	114	0.0
Spinach	260	29	260	86	3,940,676	521	114	0.0
Carrot	0	0	0	0	0	0	0	0.0
Chillies	0	0	87	9	0	87	9	0.0
Amaranths	434	42	347	269	2,777,569	781	311	13.5
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	260	61	87	9	8,028,911	347	70	87.5
Egg Plant	87	18	174	20	1,041,588	260	38	0.0
Water Mellon	87	18	0	0	2,169,976	87	18	0.0
FRUITS & VEGETABLES		360		419	49,336,571	3,385	780	46.2
Tobacco	0	0	174	18	0	174	18	0.0
CASH CROPS		0		18	0	174	18	0.0
Total		9,115		9,338	950,840,897	60,586	18,452	49.4

5.89 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Inrganic Fertilizers Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - KILIMANJARO

Siha

Crops	Inrganic Fertilizers							% of Planted area using Inrganic Fertilizers
	Number of Households using Inrganic Fertilizers	Planted Area Inrganic Fertilizers Used	Number of Households NOT using Inrganic Fertilizers	Planted Area Inrganic Fertilizers not Used	Cost of Inrganic Fertilizers	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	9,004	5,504	11,380	7,821	493,108,351	20,384	13,325	41.3
Paddy	0	0	63	20	0	63	20	0.0
Sorghum	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	438	89	0	438	89	0.0
CEREALS		5,504		7,930	493,108,351	20,884	13,434	41.0
Cassava	0	0	0	0	0	0	0	0.0
Sweet Potato	0	0	0	0	0	*0*	*0*	0.0
Irish potatoes	63	51	63	51	5,002,209	125	101	50.0
Yams	0	0	63	9	0	63	9	0.0
Coco Yam	0	0	0	0	0	0	0	0.0
ROOTS & TUBERS		51		60	5,002,209		110	45.9
Mung Bean	0	0	0	0	0	*0*	*0*	0.0
Beans	1,125	290	12,506	3,420	4,833,384	13,631	3,710	7.8
Cowpeas	0	0	0	0	0	0	0	0.0
Green gram	0	0	0	0	0	0	0	0.0
Field Peas	0	0	125	30	0	125	30	0.0
PULSES		290		3,451	4,833,384		3,741	7.8
Sunflower	0	0	3,939	964	0	3,939	964	0.0
Simsim	0	0	0	0	0	0	0	0.0
Groundnut	0	0	0	0	0	*0*	0	0.0
OIL SEEDS & OIL NUTS		0		964	0		964	0.0
Okra	0	0	63	25	0	63	25	0.0
Radish	0	0	63	25	0	63	25	0.0
Turmeric	0	0	63	6	0	63	6	0.0
Bitteer Aubergine	0	0	0	0	0	*0*	0	0.0
Onion	0	0	0	0	0	0	0	0.0
Ginger	0	0	0	0	0	0	0	0.0
Cabbage	63	51	63	13	3,126,380	125	63	0.0
Tomatoes	0	0	250	76	0	250	76	0.0
Spinach	63	10	0	0	500,221	63	10	0.0
Carrot	0	0	125	22	0	125	22	0.0
Chillies	0	0	63	13	0	63	13	0.0
Amaranths	63	6	0	0	468,957	63	6	62.5
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	0	0	0	0	0	0	0	0.0
Egg Plant	0	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		67		180	4,095,558	875	247	26.9
Tobacco	0	0	0	0	0	0	0	0.0
CASH CROPS		0		0	0	0	0	0.0
Total		5,911		12,585	507,039,502	39,643	18,496	32.0

5.90 ANNUAL CROP & VEGETABLE PRODUCTION: Planted Area & Number of Crop Growing Households by Inrganic Fertilizers Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - KILIMANJARO

Total

Crops	Inrganic Fertilizers							% of Planted area using Inrganic Fertilizers
	Number of Households using Inrganic Fertilizers	Planted Area Inrganic Fertilizers Used	Number of Households NOT using Inrganic Fertilizers	Planted Area Inrganic Fertilizers not Used	Cost of Inrganic Fertilizers	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	56,412	25,144	72,842	38,270	2,318,382,459	129,254	63,414	39.7
Paddy	1,971	696	254	87	103,033,283	2,225	783	88.9
Sorghum	0	0	635	86	0	635	86	0
Finger Millet	0	0	7,234	1,702	0	7,234	1,702	0
CEREALS		25,840		40,146	2,421,415,742	139,347	65,986	39.2
Cassava	0	0	563	81	0	563	81	0
Sweet Potato	0	0	574	75	0	*574*	*75*	0
Irish potatoes	495	204	1,355	312	22,297,524	1,850	516	39.5
Yams	0	0	304	17	0	304	17	0
Coco Yam	0	0	2,228	147	0	2,228	147	0
ROOTS & TUBERS		204		632	22,297,524		836	24.4
Mung Bean	0	0	88	36	0	*88*	*36*	0
Beans	3,748	1,396	96,046	24,219	33,187,494	99,794	25,616	5.5
Cowpeas	0	0	5,902	1,399	0	5,902	1,399	0
Green gram	0	0	1,598	397	0	1,598	397	0
Field Peas	87	2	125	30	260,397	212	32	5.5
PULSES		1,398		26,082	33,447,891		27,480	5.1
Sunflower	435	129	21,243	3,822	3,744,614	21,678	3,951	3.3
Simsim	0	0	87	9	0	87	9	0
Groundnut	0	0	4,296	924	0	*4,296*	924	0
OIL SEEDS & OIL NUTS		129		4,755	3,744,614		4,885	2.6
Okra	385	92	114	29	9,232,658	499	121	75.7
Radish	0	0	63	25	0	63	25	0
Turmeric	0	0	63	6	0	63	6	0
Bitteer	87	18	263	21	3,037,966		39	45.2
Aubergine						*350*		
Onion	88	9	88	9	1,408,394	176	18	50
Ginger	0	0	404	174	0	404	174	0
Cabbage	201	60	567	50	5,928,664	768	110	54.8
Tomatoes	3,195	510	1,830	213	107,323,299	5,025	723	70.6
Spinach	323	38	983	176	4,440,897	1,306	214	17.8
Carrot	0	0	301	36	0	301	36	0
Chillies	1,058	123	412	31	49,494,212	1,470	154	79.9
Amaranths	497	48	1,087	335	3,246,526	1,583	384	12.6
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	472	72	87	9	12,259,185	559	81	89.1
Egg Plant	87	18	174	20	1,041,588	260	38	46.3
Water Mellon	87	18	0	0	2,169,976	87	18	100
FRUITS & VEGETABLES		1,005		1,136	199,583,366	12,913	2,141	47
Tobacco	0	0	225	20	0	225	20	0
CASH CROPS		0		20	0	225	20	0
Total		28,577		72,771	2,680,489,138	291,659	101,347	28.2

ACCESS TO EQUIPMENTS

6.1.1 ACCESS TO EQUIPMENT: Number of Agriculture Households that used Agricultural Equipment/Asset by type and District for 2007/08 agriculture year - Kilimanjaro

	Equipment/Asset Name											
	Sword		Hand Hoe		Hand Sprayer		Grater, Chiper, Oil Press na Oil Mill		Oxplough		Oxplanter	
District	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Rombo	43,346	99.0	42,590	97.3	13,404	30.6	1,189	2.7	108	.2	0	.0
Mwanga	20,787	99.5	20,787	99.5	4,591	22.0	413	2.0	464	2.2	52	.2
Same	35,386	99.3	35,122	98.5	6,074	17.0	440	1.2	88	.2	0	.0
Moshi Rural	85,029	99.3	83,548	97.5	25,593	29.9	423	.5	1,692	2.0	212	.2
Hai	34,546	98.3	34,633	98.5	13,888	39.5	434	1.2	1,215	3.5	87	.2
Siha	21,134	98.0	21,259	98.6	12,068	55.9	188	.9	4,002	18.6	188	.9
Total	240,228	99.0	237,939	98.0	75,617	31.2	3,086	1.3	7,569	3.1	537	.2

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Cont. 6.1.1 ACCESS TO EQUIPMENT: Number of Agriculture Households that used Agricultural Equipment/Asset by type and District for 2007/08 agriculture year - Kilimanjaro

	Equipment/Asset Name											
	Ox cart		Trekta		Tractor plough		Tractor Harrow		Castrated bulls		Uncastrated bulls	
District	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Rombo	324	.7	108	.2	108	.2	0	.0	540	1.2	757	1.7
Mwanga	206	1.0	155	.7	52	.2	0	.0	413	2.0	774	3.7
Same	88	.2	1,232	3.5	1,232	3.5	1,056	3.0	0	.0	1,144	3.2
Moshi Rural	212	.2	5,922	6.9	3,384	4.0	635	.7	423	.5	1,058	1.2
Hai	521	1.5	6,336	18.0	3,646	10.4	174	.5	1,736	4.9	1,823	5.2
Siha	438	2.0	688	3.2	563	2.6	313	1.4	3,689	17.1	2,251	10.4
Total	1,789	.7	14,442	6.0	8,985	3.7	2,177	.9	6,801	2.8	7,806	3.2

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Cont. 6.1.1 ACCESS TO EQUIPMENT: Number of Agriculture Households that used Agricultural Equipment/Asset by type and District for 2007/08 agriculture year- Kilimanjaro

	Equipment/Asset Name										Total number of Agricultural Households
	Cow		Donkey		Shellers/Threshers		Power tiller		Ox Ridger		
District	Number of Household	%	Number of Household	%	Number of Household	%	Number of Household	%	Number of Household	%	
Rombo	3,135	7.2	216	.5	8,540	19.5	216	.5	108	.2	43,779
Mwanga	1,186	5.7	52	.2	309	1.5	52	.2	103	.5	20,890
Same	2,905	8.1	0	.0	176	.5	0	.0	0	.0	35,650
Moshi Rural	2,750	3.2	635	.7	8,038	9.4	212	.2	212	.2	85,663
Hai	4,340	12.3	434	1.2	2,083	5.9	260	.7	87	.2	35,154
Siha	3,126	14.5	2,626	12.2	3,064	14.2	125	.6	188	.9	21,572
Total	17,442	7.2	3,962	1.6	22,210	9.2	865	.4	697	.3	242,708

6.1.2 ACCESS TO EQUIPMENT: Number of Agricultural Equipment/Asset owned by type and District for 2007/08 agriculture year- Kilimanjaro

District	Equipment/Asset Name											
	Sword		Hand Hoe		Hand Sprayer		Grater, Chiper, Oil Press na Oil Mill		Oxplough		Oxplanter	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Rombo	146,470	42.7	141,930	41.4	17,620	5.1	1,189	.3	2,162	.6	.	.
Mwanga	44,979	35.0	62,258	48.5	5,107	4.0	413	.3	722	.6	1,032	.8
Same	72,092	36.0	98,323	49.1	6,690	3.3	2,993	1.5	352	.2	.	.
Moshi Rural	241,972	42.1	249,798	43.5	28,554	5.0	1,481	.3	3,384	.6	423	.1
Hai	77,598	33.3	96,955	41.6	15,884	6.8	2,170	.9	1,910	.8	1,736	.7
Siha	47,896	24.4	71,532	36.4	14,131	7.2	563	.3	6,565	3.3	188	.1
Total	631,007	37.7	720,795	43.0	87,986	5.3	8,808	.5	15,095	.9	3,378	.2

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Cont. 6.1.2 ACCESS TO EQUIPMENT: Number of Agricultural Equipment/Asset owned by type and District for 2007/08 agriculture year- Kilimanjaro

District	Equipment/Asset Name											
	Ox cart		Trekta		Tractor plough		Tractor Harrow		Castrated bulls		Uncastrated bulls	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Rombo	7,891	2.3	108	.0	2,378	.7	.	.	973	.3	3,027	.9
Mwanga	206	.2	155	.1	1,135	.9	.	.	2,063	1.6	1,805	1.4
Same	2,641	1.3	3,081	1.5	6,514	3.2	1,056	.5	.	.	1,496	.7
Moshi Rural	212	.0	12,056	2.1	9,730	1.7	9,518	1.7	635	.1	2,327	.4
Hai	2,344	1.0	10,242	4.4	3,646	1.6	174	.1	3,472	1.5	2,604	1.1
Siha	438	.2	2,564	1.3	1,938	1.0	2,001	1.0	9,692	4.9	8,816	4.5
Total	13,731	.8	28,206	1.7	25,340	1.5	12,749	.8	16,834	1.0	20,075	1.2

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Cont. 6.1.2 ACCESS TO EQUIPMENT: Number of Agricultural Equipment/Asset owned by type and District for 2007/08 agriculture year - Kilimanjaro

District	Equipment/Asset Name									
	Cow		Donkey		Thrasher		Power tiller		Rigder	
	Number	%	Number	%	Number	%	Number	%	Number	%
Rombo	6,053	1.8	216	.1	9,621	2.8	2,486	.7	649	.2
Mwanga	5,674	4.4	103	.1	1,341	1.0	1,135	.9	361	.3
Same	5,017	2.5	.	.	176	.1	.	.	.	.
Moshi Rural	4,653	.8	846	.1	8,249	1.4	423	.1	212	.0
Hai	7,638	3.3	1,042	.4	3,212	1.4	1,996	.9	347	.1
Siha	14,569	7.4	7,191	3.7	3,064	1.6	1,438	.7	3,752	1.9
Total	43,605	2.6	9,398	.6	25,662	1.5	7,479	.4	5,320	.3

6.2.1 ACCESS TO EQUIPMENT: Number of Agricultural Households that Used Tractors/Draft animals to cultivate Land By Type and District for 2007/08 agriculture year - Kilimanjaro

	Oxen		Bulls		Cows		Donkeys		Tractor		Power Tiller	
District	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Rombo	108	14.3	0	.0	0	.0	108	14.3	540	71.4	0	.0
Mwanga	2,063	56.3	52	1.4	0	.0	361	9.9	1,032	28.2	155	4.2
Same	88	4.5	0	.0	0	.0	264	13.6	1,496	77.3	88	4.5
Moshi Rural	2,538	12.0	212	1.0	0	.0	3,173	15.0	15,229	72.0	0	.0
Hai	3,385	15.9	608	2.9	521	2.4	2,517	11.8	13,541	63.7	694	3.3
Siha	5,502	44.0	938	7.5	0	.0	1,876	15.0	4,127	33.0	63	.5
Total	13,685	22.3	1,809	3.0	521	.8	8,299	13.5	35,965	58.7	1,000	1.6

6.2.2 ACCESS TO EQUIPMENT: Number of Tractors/Draft animals Owned by Type and District for 2007/08 agriculture year - Kilimanjaro

	Oxen		Bulls		Cows		Donkeys		Tractor		Power Tiller	
District	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Rombo	324	37.5	0	0	324	37.5	0	0	216	25.0	0	0
Mwanga	928	40.9	413	18.2	825	36.4	0	0	103	4.5	0	0
Same	0	0	0	0	0	0	176	14.3	1,056	85.7	0	0
Moshi Rural	423	4.9	846	9.8	423	4.9	635	7.3	5,922	68.3	423	4.9
Hai	1,823	23.6	434	5.6	2,083	27.0	1,389	18.0	1,302	16.9	694	9.0
Siha	9,817	63.6	1,563	10.1	625	4.0	1,188	7.7	875	5.7	1,376	8.9
Total	13,315	36.8	3,256	9.0	4,281	11.8	3,387	9.4	9,475	26.2	2,493	6.9

IRRIGATION

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

	Main Source of Irrigation Water							
District	River	Borehole	Lake	Canal	Dam	Tap Water	Well	Total
Rombo	0	0	0	0	108	108	0	216
Mwanga	1,135	0	0	0	0	980	0	2,115
Same	9,947	0	528	0	0	1,937	88	12,499
Moshi Rural	12,479	0	212	0	0	6,768	635	20,094
Hai	6,336	87	87	87	0	10,589	87	17,273
Siha	250	0	0	63	0	2,314	0	2,626
Total	30,147	87	826	149	108	22,696	809	54,823

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

	Households practicing irrigation		Households not practicing irrigation		Total Number of Households	
District	Number	%	Number	%	Number	%
Rombo	216	.5	43,563	99.5	43,779	100.0
Mwanga	2,218	10.6	18,672	89.4	20,890	100.0
Same	12,588	35.3	23,062	64.7	35,650	100.0
Moshi Rural	20,305	23.7	65,358	76.3	85,663	100.0
Hai	17,273	49.1	17,881	50.9	35,154	100.0
Siha	2,626	12.2	18,946	87.8	21,572	100.0
Total	55,226	22.8	187,482	77.2	242,708	100.0

6.5.3 IRRIGATION: Number of Agriculture Households by method of used to obtain water and District during 2007/08 agriculture year

	Main method of Obtaining Water					
District	Gravity	Hand bucket	Hand pump	motor pump	Other	Total
Rombo	108	0	108	0	0	216
Mwanga	2,063	0	0	0	52	2,115
Same	12,147	264	0	88	0	12,499
Moshi Rural	17,344	1,058	635	423	635	20,094
Hai	16,579	608	0	87	0	17,273
Siha	2,439	125	0	63	0	2,626
Total	50,680	2,054	743	660	686	54,823

EROSION CONTROL

6.6.1 EROSION CONTROL: 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	%
Rombo	14,917	34.1	28,862	65.9	43,779	100.0
Mwanga	3,765	18.0	17,125	82.0	20,890	100.0
Same	12,940	36.3	22,710	63.7	35,650	100.0
Moshi Rural	14,806	17.3	70,857	82.7	85,663	100.0
Hai	4,253	12.1	30,900	87.9	35,154	100.0
Siha	2,689	12.5	18,883	87.5	21,572	100.0
Total	53,370	22.0	189,338	78.0	242,708	100.0

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

	Presence of Erosion Control/Water Harvesting Facilities					
	Have any erosion control/water harvesting facilities		Do not have have any erosion control/water harvesting facilities		Total	
District	Number	%	Number	%	Number	%
Rombo	20,430	46.7	23,349	53.3	43,779	100.0
Mwanga	4,126	19.8	16,764	80.2	20,890	100.0
Same	13,380	37.5	22,270	62.5	35,650	100.0
Moshi Rural	11,633	13.6	74,030	86.4	85,663	100.0
Hai	3,038	8.6	32,116	91.4	35,154	100.0
Siha	2,251	10.4	19,321	89.6	21,572	100.0
Total	54,859	22.6	187,849	77.4	242,708	100.0

6.6.3 EROSION CONTROL: Number of Erosion Control/Water Harvesting Structures by Type and District as of 2007/08agriculture year

District	Terraces	Erosion Control Bunds	Gabions / Sandbag	Vetiver Grass	Tree Belts	Water Harvesting Bunds	Drainage Ditches	Others
Rombo	11,782	53,507	1,081	0	649	108	20,106	22,160
Mwanga	33,734	3,559	206	6,293	0	206	2,115	2,115
Same	204,745	31,425	3,961	4,401	2,729	4,841	32,921	3,961
Moshi Rural	9,307	9,730	1,481	1,904	2,961	1,904	7,403	635
Hai	4,340	3,732	3,212	1,302	0	260	1,042	781
Siha	1,251	3,376	125	4,877	0	188	375	0
Total	265,159	105,330	10,066	18,777	6,339	7,507	63,962	29,651

AGRICULTURE CREDIT

7.1 AGRICULTURE CREDIT: 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	%
Rombo	973	2.2	42,806	97.8	43,779	100.0
Mwanga	258	1.2	20,632	98.8	20,890	100.0
Same	176	.5	35,474	99.5	35,650	100.0
Moshi Rural	846	1.0	84,817	99.0	85,663	100.0
Hai	347	1.0	34,806	99.0	35,154	100.0
Siha	1,188	5.5	20,384	94.5	21,572	100.0
Total	3,788	1.6	238,920	98.4	242,708	100.0

7.2 AGRICULTURE CREDIT: Number of Credits by sex of the household Member receiving credit from source B and District During the 2007/08 Agriculture Year

District	Male		Female		Total	
	Number	%	Number	%	Number	%
Rombo	865	88.9	108	11.1	973	100.0
Mwanga	155	60.0	103	40.0	258	100.0
Same	88	50.0	88	50.0	176	100.0
Moshi Rural	635	75.0	212	25.0	846	100.0
Hai	174	50.0	174	50.0	347	100.0
Siha	875	73.7	313	26.3	1,188	100.0
Total	2,791	73.7	997	26.3	3,788	100.0

7.3 AGRICULTURE CREDIT: 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		Private individual		NGO/Development Project		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Rombo	540	55.6	0	0.0	0	0.0	0	0.0	0	0.0	432	44.4	0	0.0	973	100
Mwanga	0	0.0	0	0.0	0	0.0	103	40.0	0	0.0	0	0.0	155	60.0	258	100
Same	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	176	100.0	0	0.0	176	100
Moshi Rural	423	50.0	0	0.0	0	0.0	423	50.0	0	0.0	0	0.0	0	0.0	846	100
Hai	87	25.0	0	0.0	0	0.0	260	75.0	0	0.0	0	0.0	0	0.0	347	100
Siha	313	26.3	250	21.1	63	5.3	188	15.8	313	26.3	0	0.0	63	5.3	1,188	100
Total	1,363	36.0	250	6.6	63	1.7	974	25.7	313	8.3	608	16.1	217	5.7	3,788	100

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

District	Not needed		Not available		Did not want to go into debt		Interest rate/cost too high		Did not know how to get credit		Difficult bureaucratic procedure		Credit granted too late		Other (specify)		Dont know about credit		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Rombo	8,215	19.2	3,135	7.3	11,891	27.8	5,945	13.9	6,486	15.2	757	1.8	108	0.3	2,378	5.6	3,891	9.1	42,806	100
Mwanga	3,456	16.7	1,805	8.7	4,333	21.0	2,321	11.2	4,849	23.5	619	3.0	103	0.5	206	1.0	2,940	14.2	20,632	100
Same	5,105	14.4	4,665	13.2	5,193	14.6	2,377	6.7	11,003	31.0	1,496	4.2	440	1.2	88	0.2	5,105	14.4	35,474	100
Moshi Rural	10,576	12.5	12,691	15.0	16,075	19.0	3,384	4.0	23,478	27.7	3,173	3.7	212	0.2	423	0.5	14,806	17.5	84,817	100
Hai	5,034	14.5	3,385	9.7	9,201	26.4	4,948	14.2	9,027	25.9	521	1.5	347	1.0	87	0.2	2,257	6.5	34,806	100
Siha	1,938	9.5	5,440	26.7	3,376	16.6	563	2.8	4,752	23.3	1,313	6.4	938	4.6	63	0.3	2,001	9.8	20,384	100
Total	34,325	14.4	31,121	13.0	50,069	21.0	19,538	8.2	59,595	24.9	7,879	3.3	2,148	0.9	3,245	1.4	31,001	13.0	238,920	100

7.5 AGRICULTURE CREDIT: Number of Households receiving Credits by Main Source of credit B and District During the 2007/08 Agriculture Year

	Family, friend or relative		Bank		Savings & credit Soc		Trader/trade store		Total	
District	Number	%	Number	%	Number	%	Number	%	Number	%
Rombo	0	0.0	0	0.0	108	100.0	0	0.0	108	100
Mwanga	0	0.0	52	100.0	0	0.0	0	0.0	52	100
Moshi Rural	212	100.0	0	0.0	0	0.0	0	0.0	212	100
Hai	0	0.0	0	0.0	0	0.0	0	0.0	0	0
Siha	0	0.0	0	0.0	0	0.0	63	100.0	63	100
Total	212	48.8	52	11.9	108	24.9	63	14.4	434	100

7.6 AGRICULTURE CREDIT: Number of Households receiving Credits by Main Source of credit C and District During the 2007/08 Agriculture Year

	Family, friend or relative		Bank		Cooperative		Other		Total	
Region	Number	%	Number	%	Number	%	Number	%	Number	%
Rombo	0	0.0	108	50.0	108	50.0	0	0.0	216	100
Same	0	0.0	88	100.0	0	0.0	0	0.0	88	100
Moshi Rural	423	66.7	212	33.3	0	0.0	0	0.0	635	100
Hai	0	0.0	0	0.0	0	0.0	0	0.0	0	0
Siha	0	0.0	0	0.0	0	0.0	63	100.0	63	100
Total	423	42.2	408	40.7	108	10.8	63	6.2	1,001	100

7.7: Provision of credit A by sex and District During the 2007/08 Agriculture Year

	Male		Female		Total	
District	Number	%	Number	%	Number	%
Rombo	865	88.9	108	11.1	973	100.0
Mwanga	155	60.0	103	40.0	258	100.0
Same	88	50.0	88	50.0	176	100.0
Moshi Rural	635	75.0	212	25.0	846	100.0
Hai	174	50.0	174	50.0	347	100.0
Siha	875	73.7	313	26.3	1,188	100.0
Total	2,791	73.7	997	26.3	3,788	100.0

7.8 : Provision of credit B by sex and District During the 2007/08 Agriculture Year

	Male		Female		Total	
District	Number	%	Number	%	Number	%
Rombo	0	.0	108	100.0	108	100.0
Mwanga	52	100.0	0	.0	52	100.0
Moshi Rural	212	100.0	0	.0	212	100.0
Hai	0	.0	0	.0	0	.0
Siha	0	.0	63	100.0	63	100.0
Total	263	60.7	171	39.3	434	100.0

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

	Male		Female		Total	
District	Number	%	Number	%	Number	%
Rombo	108	50.0	108	50.0	216	100.0
Moshi Rural	212	100.0	0	.0	212	100.0
Hai	0	.0	0	.0	0	.0
Siha	63	50.0	63	50.0	125	100.0
Total	382	69.1	171	30.9	553	100.0

CROP EXTENSION

8.1 : CROP EXTENSION: 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	%	
Rombo	37,942	86.7	5,837	13.3	43,779
Mwanga	17,795	85.2	3,095	14.8	20,890
Same	24,559	70.3	10,387	29.7	34,946
Moshi Rural	71,280	83.8	13,749	16.2	85,029
Hai	30,119	86.1	4,861	13.9	34,980
Siha	18,758	87.7	2,626	12.3	21,384
Total	200,454	83.2	40,554	16.8	241,008

8.3 : CROP EXTENSION: 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	%
Rombo	216	0.5	43,563	99.5	43,779	100
Mwanga	206	1.0	20,684	99.0	20,890	100
Same	264	0.7	35,386	99.3	35,650	100
Moshi Rural	5,288	6.2	80,375	93.8	85,663	100
Hai	174	0.5	34,980	99.5	35,154	100
Siha	375	1.7	21,197	98.3	21,572	100
Total	6,523	2.7	236,185	97.3	242,708	100

8.2 : CROP EXTENSION: 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 GrowerAgreement		Total Number of Households	
	Number	%	Number	%	Number	%
Rombo	2,162	4.9	41,617	95.1	43,779	100
Mwanga	258	1.2	20,632	98.8	20,890	100
Same	792	2.2	34,858	97.8	35,650	100
Moshi Rural	9,307	10.9	76,356	89.1	85,663	100
Hai	521	1.5	34,633	98.5	35,154	100
Siha	625	2.9	20,947	97.1	21,572	100
Total	13,665	5.6	229,043	94.4	242,708	100

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

District	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		Total Households that received advices
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Rombo	35,780	94.3	973	2.56	2,054	5.41	649	1.7	8,215	21.7	5,513	14.5	324	.9	37,942
Mwanga	15,887	89.3	3,250	18.3	309	1.7	567	3.2	2,476	13.9	3,353	18.8	155	.9	17,795
Same	20,862	84.9	1,232	5.0	176	.7	704	2.9	3,609	14.7	7,746	31.5	1,849	7.5	24,559
Moshi Rural	66,627	93.5	6,980	9.8	2,115	3.0	2,961	4.2	21,363	30.0	16,921	23.7	1,904	2.7	71,280
Hai	28,817	95.7	3,993	13.3	3,472	11.5	4,253	14.1	6,770	22.5	7,378	24.5	608	2.0	30,119
Siha	17,133	91.3	1,563	8.3	1,313	7.0	563	3.0	3,376	18.0	2,751	14.7	750	4.0	18,758
Total	185,105	92.3	17,991	9.0	9,440	4.7	9,697	4.8	45,810	22.9	43,662	21.8	5,589	2.8	200,454

8.5 CROP EXTENSION: Number of households receiving extension advice on Spacing byDistrict during the 2007/08 agriculture year

District	Source of Crop Extension															
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Rombo	29,402	93.5	0	.0	0	.0	0	.0	1,189	3.8	865	2.7	0	.0	31,456	100.0
Mwanga	12,792	86.1	567	3.8	155	1.0	0	.0	309	2.1	1,032	6.9	0	.0	14,855	100.0
Same	17,605	82.6	176	.8	0	.0	352	1.7	792	3.7	2,201	10.3	176	.8	21,302	100.0
Moshi Rural	51,821	87.5	1,904	3.2	0	.0	0	.0	2,327	3.9	2,961	5.0	212	.4	59,224	100.0
Hai	24,217	87.5	174	.6	87	.3	521	1.9	955	3.4	1,736	6.3	0	.0	27,689	100.0
Siha	15,194	87.4	250	1.4	188	1.1	63	.4	375	2.2	1,313	7.6	0	.0	17,383	100.0
Total	151,031	87.9	3,071	1.8	429	.2	935	.5	5,947	3.5	10,107	5.9	388	.2	171,909	100.0

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

District	Source of Crop Extension														Total Number of Households	
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)			
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Rombo	28,213	96.3	108	.4	108	.4	0	.0	432	1.5	432	1.5	0	.0	29,294	100.0
Mwanga	8,717	80.5	980	9.0	103	1.0	52	.5	206	1.9	774	7.1	0	.0	10,832	100.0
Same	14,700	81.1	0	.0	0	.0	88	.5	880	4.9	2,289	12.6	176	1.0	18,133	100.0
Moshi Rural	46,110	83.5	1,904	3.4	1,058	1.9	0	.0	3,596	6.5	2,115	3.8	423	.8	55,205	100.0
Hai	21,787	86.6	694	2.8	174	.7	347	1.4	1,389	5.5	781	3.1	0	.0	25,172	100.0
Siha	12,818	87.6	250	1.7	125	.9	188	1.3	500	3.4	750	5.1	0	.0	14,631	100.0
Total	132,345	86.3	3,936	2.6	1,567	1.0	674	.4	7,004	4.6	7,141	4.7	599	.4	153,267	100.0

8.7 CROP EXTENSION: Number of households receiving extensionadvice 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	%	Number	%
Rombo	27,024	93.3	0	.0	0	.0	0	.0	1,189	4.1	757	2.6	0	.0	28,970	100.0
Mwanga	7,221	76.5	1,290	13.7	155	1.6	103	1.1	206	2.2	464	4.9	0	.0	9,439	100.0
Same	16,109	84.3	528	2.8	0	.0	176	.9	440	2.3	1,496	7.8	352	1.8	19,101	100.0
Moshi Rural	28,343	80.7	1,481	4.2	0	.0	0	.0	2,115	6.0	2,961	8.4	212	.6	35,111	100.0
Hai	13,280	80.5	174	1.1	694	4.2	608	3.7	955	5.8	694	4.2	87	.5	16,492	100.0
Siha	9,692	87.1	125	1.1	63	.6	250	2.2	500	4.5	500	4.5	0	.0	11,130	100.0
Total	101,669	84.6	3,597	3.0	912	.8	1,137	.9	5,406	4.5	6,873	5.7	650	.5	120,243	100.0

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

District	Source of Crop Extension														Total Number of Households	
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)			
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Rombo	**30,915**	**90.8**	**0**	**.0**	**0**	**.0**	**108**	**.3**	**1,189**	**3.5**	**1,621**	**4.8**	**216**	**.6**	**34,050**	**100.0**
Mwanga	**9,594**	**78.5**	**980**	**8.0**	**0**	**.0**	**206**	**1.7**	**464**	**3.8**	**928**	**7.6**	**52**	**.4**	**12,225**	**100.0**
Same	**15,844**	**85.3**	**176**	**.9**	**0**	**.0**	**88**	**.5**	**528**	**2.8**	**1,672**	**9.0**	**264**	**1.4**	**18,573**	**100.0**
Moshi Rural	**41,245**	**78.3**	**1,692**	**3.2**	**423**	**.8**	**0**	**.0**	**4,019**	**7.6**	**4,865**	**9.2**	**423**	**.8**	**52,667**	**100.0**
Hai	**16,839**	**74.6**	**694**	**3.1**	**260**	**1.2**	**1,042**	**4.6**	**1,389**	**6.2**	**1,910**	**8.5**	**434**	**1.9**	**22,568**	**100.0**
Siha	**12,443**	**86.5**	**125**	**.9**	**63**	**.4**	**125**	**.9**	**563**	**3.9**	**1,000**	**7.0**	**63**	**.4**	**14,381**	**100.0**
Total	**126,881**	**82.1**	**3,668**	**2.4**	**746**	**.5**	**1,569**	**1.0**	**8,152**	**5.3**	**11,997**	**7.8**	**1,451**	**.9**	**154,464**	**100.0**

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

District	Source of Crop Extension														Total Number of Households	
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)			
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Rombo	19,890	88	0	0	108	0.5	324	1.4	1,405	6.2	757	3.3	108	0.5	22,592	100
Mwanga	6,860	82.1	361	4.3	103	1.2	0	0	464	5.6	567	6.8	0	0	8,356	100
Same	13,644	80.3	176	1	88	0.5	88	0.5	440	2.6	2,289	13.5	264	1.6	16,989	100
Moshi Rural	42,514	84.5	1,481	2.9	212	0.4	212	0.4	2,961	5.9	2,750	5.5	212	0.4	50,340	100
Hai	22,741	85.6	694	2.6	694	2.6	781	2.9	955	3.6	694	2.6	0	0	26,561	100
Siha	13,819	88	125	0.8	63	0.4	125	0.8	750	4.8	813	5.2	0	0	15,694	100
Total	119,468	85	2,837	2	1,268	0.9	1,530	1.1	6,976	5	7,870	5.6	584	0.4	140,532	100

8.10 CROP EXTENSION: 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	%	Number	%
Rombo	26,916	92.2	0	.0	0	.0	0	.0	1,189	4.1	973	3.3	108	.4	29,186	100.0
Mwanga	11,038	79.3	928	6.7	155	1.1	103	.7	671	4.8	1,032	7.4	0	.0	13,927	100.0
Same	16,020	84.3	176	.9	0	.0	176	.9	792	4.2	1,408	7.4	440	2.3	19,013	100.0
Moshi Rural	47,379	86.2	635	1.2	212	.4	212	.4	3,807	6.9	2,327	4.2	423	.8	54,994	100.0
Hai	24,825	89.1	434	1.6	434	1.6	260	.9	955	3.4	955	3.4	0	.0	27,862	100.0
Siha	14,694	88.3	63	.4	125	.8	0	.0	938	5.6	813	4.9	0	.0	16,632	100.0
Total	140,872	87.2	2,236	1.4	925	.6	751	.5	8,352	5.2	7,507	4.6	971	.6	161,614	100.0

8.11 CROP EXTENSION: Number of households receiving extension advice on Mechanization and Labor Saving Technologies by District during the 2007/08 agriculture year

District	Source of Crop Extension														Total Number of Households	
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)			
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Rombo	13,080	89.6	216	1.5	0	.0	0	.0	865	5.9	324	2.2	108	.7	14,593	100.0
Mwanga	5,829	77.9	464	6.2	103	1.4	103	1.4	619	8.3	361	4.8	0	.0	7,479	100.0
Same	10,123	71.9	264	1.9	0	.0	88	.6	1,144	8.1	2,201	15.6	264	1.9	14,084	100.0
Moshi Rural	15,864	60.0	1,058	4.0	0	.0	0	.0	8,038	30.4	1,058	4.0	423	1.6	26,439	100.0
Hai	15,190	81.4	781	4.2	260	1.4	260	1.4	1,562	8.4	608	3.3	0	.0	18,662	100.0
Siha	9,067	81.9	250	2.3	250	2.3	125	1.1	500	4.5	813	7.3	63	.6	11,067	100.0
Total	69,151	74.9	3,033	3.3	614	.7	577	.6	12,728	13.8	5,364	5.8	858	.9	92,325	100.0

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

District	Source of Crop Extension														Total Number of Households	
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)			
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Rombo	4,864	86.5	0	.0	0	.0	0	.0	649	11.5	108	1.9	0	.0	5,621	100.0
Mwanga	3,146	72.6	361	8.3	155	3.6	52	1.2	258	6.0	361	8.3	0	.0	4,333	100.0
Same	12,059	77.0	264	1.7	88	.6	0	.0	264	1.7	2,025	12.9	968	6.2	15,668	100.0
Moshi Rural	19,459	68.7	212	.7	0	.0	423	1.5	3,384	11.9	4,442	15.7	423	1.5	28,343	100.0
Hai	14,582	72.7	694	3.5	955	4.8	1,476	7.4	781	3.9	1,562	7.8	0	.0	20,051	100.0
Siha	7,316	81.8	125	1.4	125	1.4	0	.0	625	7.0	625	7.0	125	1.4	8,941	100.0
Total	61,427	74.0	1,656	2.0	1,323	1.6	1,950	2.4	5,961	7.2	9,123	11.0	1,516	1.8	82,957	100.0

8.13 CROP EXTENSION: 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	%	Number	%
Rombo	13,944	82.2	324	1.9	1,405	8.3	216	1.3	324	1.9	757	4.5	0	.0	16,971	100.0
Mwanga	5,829	77.9	464	6.2	52	.7	0	.0	619	8.3	464	6.2	52	.7	7,479	100.0
Same	13,556	74.0	440	2.4	0	.0	88	.5	792	4.3	2,465	13.5	968	5.3	18,309	100.0
Moshi Rural	31,939	78.2	635	1.6	212	.5	1,269	3.1	1,481	3.6	4,230	10.4	1,058	2.6	40,822	100.0
Hai	16,839	79.8	347	1.6	781	3.7	868	4.1	868	4.1	1,389	6.6	0	.0	21,092	100.0
Siha	11,505	84.0	250	1.8	500	3.7	0	.0	688	5.0	563	4.1	188	1.4	13,694	100.0
Total	93,611	79.1	2,460	2.1	2,950	2.5	2,441	2.1	4,772	4.0	9,867	8.3	2,265	1.9	118,367	100.0

8.14 CROP EXTENSION: 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	%	Number	%
Rombo	16,971	83.1	108	.5	865	4.2	108	.5	757	3.7	1,621	7.9	0	.0	20,430	100.0
Mwanga	5,416	69.5	206	2.6	52	.7	52	.7	464	6.0	1,599	20.5	0	.0	7,789	100.0
Same	11,795	78.4	88	.6	0	.0	0	.0	528	3.5	1,849	12.3	792	5.3	15,052	100.0
Moshi Rural	17,979	66.9	212	.8	0	.0	1,269	4.7	1,904	7.1	4,865	18.1	635	2.4	26,862	100.0
Hai	11,110	74.9	434	2.9	608	4.1	260	1.8	781	5.3	1,562	10.5	87	.6	14,843	100.0
Siha	7,316	82.4	375	4.2	125	1.4	0	.0	313	3.5	250	2.8	500	5.6	8,879	100.0
Total	70,587	75.2	1,423	1.5	1,649	1.8	1,689	1.8	4,747	5.1	11,746	12.5	2,014	2.1	93,855	100.0

AGRICULTURE CONSRAINTS

9.11.1 AGRICULTURE CONSTRAINTS: Number of Agricultural Households Reporting the FIRST most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Access to Land		Ownership of Land		Poor Soil Cultivation Equipment		Soil Fertility	
District	Number	%	Number	%	Number	%	Number	%
Rombo	11,566	26.5	216	.5	1,189	2.7	1,730	4.0
Mwanga	2,115	10.1	52	.2	825	4.0	1,186	5.7
Same	3,081	8.6	440	1.2	4,225	11.9	2,201	6.2
Moshi Rural	27,285	31.9	846	1.0	4,865	5.7	1,904	2.2
Hai	10,329	29.5	608	1.7	3,298	9.4	1,042	3.0
Siha	6,253	29.0	250	1.2	2,376	11.0	813	3.8
Total	60,629	25.0	2,412	1.0	16,779	6.9	8,875	3.7

Cont 9.11.1 AGRICULTURE CONSTRAINTS: Number of Agricultural Households Reporting the FIRST most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Access to Improved Seed		Irrigation Facilities		Access to Chemical Inputs		Cost of Inputs	
District	Number	%	Number	%	Number	%	Number	%
Rombo	216	.5	324	.7	108	.2	6,053	13.9
Mwanga	619	3.0	980	4.7	52	.2	2,682	12.8
Same	3,081	8.6	1,760	4.9	792	2.2	2,465	6.9
Moshi Rural	3,173	3.7	4,442	5.2	3,384	4.0	16,498	19.3
Hai	1,910	5.4	1,476	4.2	434	1.2	8,940	25.5
Siha	938	4.3	1,251	5.8	500	2.3	5,440	25.2
Total	9,936	4.1	10,233	4.2	5,270	2.2	42,079	17.4

Cont. 9.11.1 AGRICULTURE CONSTRAINTS: Number of Agricultural Households Reporting the FIRST most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Extension Services		Access to Forest Resources		Hunting and Gathering		Access to Potable Water	
District	Number	%	Number	%	Number	%	Number	%
Rombo	540	1.2	0	.0	0	.0	1,189	2.7
Mwanga	825	4.0	0	.0	0	.0	206	1.0
Same	1,056	3.0	0	.0	88	.2	1,408	4.0
Moshi Rural	1,692	2.0	212	.2	0	.0	1,692	2.0
Hai	608	1.7	0	.0	0	.0	781	2.2
Siha	375	1.7	0	.0	0	.0	63	.3
Total	5,097	2.1	212	.1	88	.0	5,340	2.2

Cont. 9.11.1 AGRICULTURE CONSTRAINTS: Number of Agricultural Households Reporting the FIRST most important Constraint by District, 2007/08 Agricultural Year

	Constraint			
	Access to Credit		Access to Off Farm Income	
District	Number	%	Number	%
Rombo	432	1.0	865	2.0
Mwanga	671	3.2	567	2.7
Same	1,056	3.0	792	2.2
Moshi Rural	5,499	6.4	4,865	5.7
Hai	694	2.0	260	.7
Siha	750	3.5	188	.9
Total	9,103	3.8	7,537	3.1

Cont. 9.11.1 AGRICULTURE CONSTRAINTS: Number of Agricultural Households Reporting the FIRST most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Crop Storage		Crop Processing		Marketing Information		Higher Transport Costs	
District	Number	%	Number	%	Number	%	Number	%
Rombo	0	.0	108	.2	0	.0	108	.2
Mwanga	0	.0	52	.2	0	.0	52	.2
Same	88	.2	88	.2	264	.7	88	.2
Moshi Rural	0	.0	212	.2	0	.0	635	.7
Hai	87	.2	87	.2	0	.0	174	.5
Siha	0	.0	63	.3	0	.0	63	.3
Total	175	.1	609	.3	264	.1	1,118	.5

Cont. 9.11.1 AGRICULTURE CONSTRAINTS: Number of Agricultural Households Reporting the FIRST most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Destruction by Animals		Stealing		Pest and Disease		Local Government Taxation	
District	Number	%	Number	%	Number	%	Number	%
Rombo	1,838	4.2	432	1.0	1,838	4.2	108	.2
Mwanga	464	2.2	52	.2	206	1.0	0	.0
Same	704	2.0	88	.2	528	1.5	88	.2
Moshi Rural	0	.0	212	.2	2,750	3.2	0	.0
Hai	87	.2	0	.0	260	.7	0	.0
Siha	125	.6	0	.0	438	2.0	0	.0
Total	3,218	1.3	784	.3	6,020	2.5	196	.1

Cont. 9.11.1 AGRICULTURE CONSTRAINTS: Number of Agricultural Households Reporting the FIRST most important Constraint by District, 2007/08 Agricultural Year

	Constraint					
	Extended dry spell		Crop Farmers/Livestock keepers Conflicts		Total	
District	Number	%	Number	%	Number	%
Rombo	14,809	33.9	0	.0	43,671	100.0
Mwanga	9,233	44.2	52	.2	20,890	100.0
Same	10,827	30.4	440	1.2	35,650	100.0
Moshi Rural	5,499	6.4	0	.0	85,663	100.0
Hai	3,993	11.4	0	.0	35,067	100.0
Siha	1,688	7.8	0	.0	21,572	100.0
Total	46,050	19.0	492	.2	242,513	100.0

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

	Constraint							
	Access to Land		Ownership of Land		Poor Soil Cultivation Equipment		Soil Fertility	
District	Number	%	Number	%	Number	%	Number	%
Rombo	2,378	5.4	540	1.2	5,405	12.4	5,189	11.9
Mwanga	567	2.7	928	4.4	1,599	7.7	1,496	7.2
Same	1,408	4.0	704	2.0	4,841	13.6	3,609	10.1
Moshi Rural	5,711	6.7	7,403	8.6	9,518	11.1	7,191	8.4
Hai	1,996	5.7	347	1.0	3,298	9.4	4,253	12.1
Siha	813	3.8	1,313	6.1	1,876	8.7	1,063	4.9
Total	12,874	5.3	11,236	4.6	26,537	10.9	22,801	9.4

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Cont. 9.11.2 AGRICULTURE CONSTRAINTS: Number of Agricultural Households Reporting the SECOND most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Access to Improved Seed		Irrigation Facilities		Access to Chemical Inputs		Cost of Inputs	
District	Number	%	Number	%	Number	%	Number	%
Rombo	324	.7	1,405	3.2	216	.5	9,621	22.0
Mwanga	1,444	6.9	1,805	8.6	309	1.5	3,869	18.5
Same	2,729	7.7	2,289	6.4	2,377	6.7	4,049	11.4
Moshi Rural	4,019	4.7	4,230	4.9	6,557	7.7	19,248	22.5
Hai	3,212	9.2	1,823	5.2	1,302	3.7	7,725	22.0
Siha	3,314	15.4	1,563	7.2	1,626	7.5	3,189	14.8
Total	15,042	6.2	13,115	5.4	12,387	5.1	47,700	19.7

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Cont. 9.11.2 AGRICULTURE CONSTRAINTS: Number of Agricultural Households Reporting the SECOND most important Constraint by District, 2007/08 Agricultural Year

	Constraint					
	Extension Services		Access to Forest Resources		Access to Potable Water	
District	Number	%	Number	%	Number	%
Rombo	865	2.0	0	.0	3,567	8.2
Mwanga	825	4.0	0	.0	825	4.0
Same	1,408	4.0	0	.0	3,169	8.9
Moshi Rural	4,442	5.2	0	.0	635	.7
Hai	694	2.0	0	.0	2,864	8.2
Siha	563	2.6	125	.6	125	.6
Total	8,797	3.6	125	.1	11,185	4.6

Cont. 9.11.2 AGRICULTURE CONSTRAINTS: Number of Agricultural Households Reporting the SECOND most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Access to Credit		Access to Off Farm Income		Threshing		Harvesting	
District	Number	%	Number	%	Number	%	Number	%
Rombo	757	1.7	973	2.2	0	.0	0	.0
Mwanga	877	4.2	722	3.5	0	.0	0	.0
Same	1,849	5.2	792	2.2	0	.0	0	.0
Moshi Rural	4,442	5.2	2,115	2.5	0	.0	0	.0
Hai	1,562	4.5	1,562	4.5	174	.5	0	.0
Siha	875	4.1	438	2.0	0	.0	63	.3
Total	10,362	4.3	6,602	2.7	174	.1	63	.0

Cont. 9.11.2 AGRICULTURE CONSTRAINTS: Number of Agricultural Households Reporting the SECOND most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Crop Storage		Crop Processing		Marketing Information		Higher Transport Costs	
District	Number	%	Number	%	Number	%	Number	%
Rombo	0	.0	0	.0	324	.7	216	.5
Mwanga	103	.5	52	.2	0	.0	258	1.2
Same	0	.0	88	.2	880	2.5	176	.5
Moshi Rural	0	.0	212	.2	212	.2	846	1.0
Hai	0	.0	434	1.2	87	.2	260	.7
Siha	0	.0	0	.0	0	.0	313	1.4
Total	103	.0	785	.3	1,503	.6	2,069	.9

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Cont. 9.11.2 AGRICULTURE CONSTRAINTS: Number of Agricultural Households Reporting the SECOND most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Destruction by Animals		Stealing		Pest and Disease		Local Government Taxation	
District	Number	%	Number	%	Number	%	Number	%
Rombo	4,000	9.2	108	0.2	2,702	6.2	108	0.2
Mwanga	1,393	6.7	103	0.5	567	2.7	0	0
Same	1,144	3.2	264	0.7	1,760	4.9	88	0.2
Moshi Rural	1,058	1.2	0	0	2,538	3	0	0
Hai	87	0.2	87	0.2	1,562	4.5	0	0
Siha	250	1.2	125	0.6	2,126	9.9	125	0.6
Total	7,931	3.3	687	0.3	11,257	4.6	321	0.1

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Cont. 9.11.2 AGRICULTURE CONSTRAINTS: Number of Agricultural Households Reporting the SECOND most important Constraint by District, 2007/08 Agricultural Year

	Constraint					
	Extended dry spell		Crop Farmers/Livestock keepers Conflicts		Total	
District	Number	%	Number	%	Number	%
Rombo	4,972	11.4	0	.0	43,671	100.0
Mwanga	2,734	13.1	413	2.0	20,890	100.0
Same	1,849	5.2	176	.5	35,650	100.0
Moshi Rural	5,076	5.9	212	.2	85,663	100.0
Hai	1,649	4.7	87	.2	35,067	100.0
Siha	1,688	7.8	0	.0	21,572	100.0
Total	17,968	7.4	887	.4	242,513	100.0

9.11.3 AGRICULTURE CONSTRAINTS: Number of Agricultural Households Reporting the THIRD Most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Access to Land		Ownership of Land		Poor Soil Cultivation Equipment		Soil Fertility	
District	Number	%	Number	%	Number	%	Number	%
Rombo	2,810	6.4	108	.2	2,162	5.0	5,837	13.4
Mwanga	52	.2	309	1.5	2,063	9.9	2,012	9.6
Same	880	2.5	440	1.2	3,609	10.1	3,521	9.9
Moshi Rural	3,807	4.4	1,058	1.2	7,826	9.1	7,403	8.6
Hai	1,215	3.5	174	.5	1,302	3.7	1,910	5.4
Siha	2,126	9.9	188	.9	1,188	5.5	625	2.9
Total	10,891	4.5	2,276	.9	18,150	7.5	21,308	8.8

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Cont. 9.11.3 AGRICULTURE CONSTRAINTS: Number of Agricultural Households Reporting the THIRD Most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Access to Improved Seed		Irrigation Facilities		Access to Chemical Inputs		Cost of Inputs	
District	Number	%	Number	%	Number	%	Number	%
Rombo	649	1.5	2,594	5.9	865	2.0	9,512	21.8
Mwanga	1,805	8.6	1,857	8.9	722	3.5	3,611	17.3
Same	3,697	10.4	2,641	7.4	2,377	6.7	6,074	17.0
Moshi Rural	4,019	4.7	8,461	9.9	3,807	4.4	17,556	20.5
Hai	1,562	4.5	3,038	8.7	1,736	5.0	8,072	23.0
Siha	1,376	6.4	1,000	4.6	1,251	5.8	3,564	16.5
Total	13,108	5.4	19,591	8.1	10,757	4.4	48,389	20.0

Cont. 9.11.3 AGRICULTURE CONSTRAINTS: Number of Agricultural Households Reporting the THIRD Most important Constraint by District, 2007/08 Agricultural Year

	Constraint					
	Extension Services		Access to Forest Resources		Access to Potable Water	
District	Number	%	Number	%	Number	%
Rombo	2,054	4.7	108	.2	2,702	6.2
Mwanga	1,290	6.2	0	.0	671	3.2
Same	2,289	6.4	0	.0	2,113	5.9
Moshi Rural	6,134	7.2	0	.0	423	.5
Hai	1,389	4.0	0	.0	1,476	4.2
Siha	625	2.9	125	.6	438	2.0
Total	13,780	5.7	233	.1	7,822	3.2

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Cont. 9.11.3 AGRICULTURE CONSTRAINTS: Number of Agricultural Households Reporting the THIRD Most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Access to Credit		Access to Off Farm Income		Threshing		Harvesting	
District	Number	%	Number	%	Number	%	Number	%
Rombo	649	1.5	1,838	4.2	0	.0	108	.2
Mwanga	1,547	7.4	567	2.7	52	.2	0	.0
Same	1,496	4.2	1,144	3.2	0	.0	0	.0
Moshi Rural	5,076	5.9	7,826	9.1	0	.0	0	.0
Hai	2,517	7.2	1,910	5.4	260	.7	0	.0
Siha	2,626	12.2	1,125	5.2	188	.9	63	.3
Total	13,912	5.7	14,410	5.9	500	.2	171	.1

Cont. 9.11.3 AGRICULTURE CONSTRAINTS: Number of Agricultural Households Reporting the THIRD Most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Crop Storage		Crop Processing		Marketing Information		Higher Transport Costs	
District	Number	%	Number	%	Number	%	Number	%
Rombo	216	.5	432	1.0	216	.5	0	.0
Mwanga	0	.0	103	.5	52	.2	413	2.0
Same	0	.0	0	.0	792	2.2	528	1.5
Moshi Rural	212	.2	635	.7	423	.5	635	.7
Hai	434	1.2	347	1.0	521	1.5	1,736	5.0
Siha	500	2.3	0	.0	563	2.6	375	1.7
Total	1,362	.6	1,517	.6	2,567	1.1	3,686	1.5

Cont. 9.11.3 AGRICULTURE CONSTRAINTS: Number of Agricultural Households Reporting the THIRD Most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Destruction by Animals		Stealing		Pest and Disease		Local Government Taxation	
District	Number	%	Number	%	Number	%	Number	%
Rombo	1,838	4.2	649	1.5	5,621	12.9	0	.0
Mwanga	567	2.7	103	.5	1,290	6.2	0	.0
Same	792	2.2	0	.0	1,408	4.0	0	.0
Moshi Rural	1,058	1.2	846	1.0	2,538	3.0	212	.2
Hai	434	1.2	347	1.0	2,430	6.9	0	.0
Siha	125	.6	250	1.2	1,563	7.2	0	.0
Total	4,814	2.0	2,195	.9	14,851	6.1	212	.1

Cont. 9.11.3 AGRICULTURE CONSTRAINTS: Number of Agricultural Households Reporting the THIRD Most important Constraint by District, 2007/08 Agricultural Year

	Constraint					
	Extended dry spell		Crop Farmers/Livestock keepers Conflicts		Total	
District	Number	%	Number	%	Number	%
Rombo	2,594	5.9	108	.2	43,671	100.0
Mwanga	1,599	7.7	206	1.0	20,890	100.0
Same	1,496	4.2	352	1.0	35,650	100.0
Moshi Rural	5,711	6.7	0	.0	85,663	100.0
Hai	2,170	6.2	87	.2	35,067	100.0
Siha	1,563	7.2	125	.6	21,572	100.0
Total	15,134	6.2	878	.4	242,513	100.0

9.11.4 AGRICULTURE CONSTRAINTS: Number of Agricultural Households Reporting the FOURTH Most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Access to Land		Ownership of Land		Poor Soil Cultivation Equipment		Soil Fertility	
District	Number	%	Number	%	Number	%	Number	%
Rombo	1,838	4.2	432	1.0	3,027	6.9	4,108	9.4
Mwanga	361	1.7	103	.5	1,135	5.4	1,702	8.1
Same	1,232	3.5	352	1.0	2,025	5.7	2,377	6.7
Moshi Rural	4,653	5.4	423	.5	4,653	5.4	5,922	6.9
Hai	868	2.5	0	.0	608	1.7	2,170	6.2
Siha	625	2.9	313	1.4	750	3.5	813	3.8
Total	9,578	3.9	1,623	.7	12,197	5.0	17,092	7.0

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Cont. 9.11.4 AGRICULTURE CONSTRAINTS: Number of Agricultural Households Reporting the FOURTH Most important Constraint by District, 2007/08 Agricultural Year

	Constraint					
	Extension Services		Access to Forest Resources		Access to Potable Water	
District	Number	%	Number	%	Number	%
Rombo	1,838	4.2	0	.0	3,783	8.7
Mwanga	1,238	5.9	52	.2	1,135	5.4
Same	2,377	6.7	0	.0	880	2.5
Moshi Rural	7,826	9.1	212	.2	1,058	1.2
Hai	1,996	5.7	0	.0	1,476	4.2
Siha	1,063	4.9	0	.0	1,000	4.6
Total	16,338	6.7	263	.1	9,332	3.8

Cont. 9.11.4 AGRICULTURE CONSTRAINTS: Number of Agricultural Households Reporting the FOURTH Most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Access to Improved Seed		Irrigation Facilities		Access to Chemical Inputs		Cost of Inputs	
District	Number	%	Number	%	Number	%	Number	%
Rombo	1,081	2.5	1,081	2.5	865	2.0	8,756	20.0
Mwanga	1,341	6.4	2,012	9.6	825	4.0	3,146	15.1
Same	3,257	9.1	2,641	7.4	1,760	4.9	5,370	15.1
Moshi Rural	5,499	6.4	2,961	3.5	3,384	4.0	10,576	12.3
Hai	1,215	3.5	2,170	6.2	1,562	4.5	2,344	6.7
Siha	750	3.5	1,125	5.2	1,563	7.2	2,876	13.3
Total	13,144	5.4	11,990	4.9	9,960	4.1	33,067	13.6

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Cont. 9.11.4 AGRICULTURE CONSTRAINTS: Number of Agricultural Households Reporting the FOURTH Most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Access to Credit		Access to Off Farm Income		Threshing		Harvesting	
District	Number	%	Number	%	Number	%	Number	%
Rombo	1,730	4.0	2,594	5.9	0	.0	0	.0
Mwanga	1,651	7.9	928	4.4	0	.0	0	.0
Same	1,672	4.7	2,025	5.7	176	.5	0	.0
Moshi Rural	11,210	13.1	7,191	8.4	212	.2	0	.0
Hai	2,257	6.4	3,298	9.4	0	.0	87	.2
Siha	1,688	7.8	1,000	4.6	125	.6	0	.0
Total	20,208	8.3	17,038	7.0	513	.2	87	.0

Cont. 9.11.4 AGRICULTURE CONSTRAINTS: Number of Agricultural Households Reporting the FOURTH Most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Crop Storage		Crop Processing		Marketing Information		Higher Transport Costs	
District	Number	%	Number	%	Number	%	Number	%
Rombo	108	.2	324	.7	324	.7	324	.7
Mwanga	52	.2	52	.2	155	.7	464	2.2
Same	352	1.0	88	.2	1,496	4.2	1,496	4.2
Moshi Rural	0	.0	423	.5	0	.0	2,538	3.0
Hai	347	1.0	781	2.2	1,649	4.7	2,170	6.2
Siha	1,000	4.6	188	.9	1,376	6.4	563	2.6
Total	1,859	.8	1,856	.8	5,000	2.1	7,556	3.1

Cont. 9.11.4 AGRICULTURE CONSTRAINTS: Number of Agricultural Households Reporting the FOURTH Most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Destruction by Animals		Stealing		Pest and Disease		Local Government Taxation	
District	Number	%	Number	%	Number	%	Number	%
Rombo	1,621	3.7	757	1.7	4,756	10.9	0	.0
Mwanga	1,290	6.2	413	2.0	1,290	6.2	0	.0
Same	2,113	5.9	176	.5	2,729	7.7	0	.0
Moshi Rural	2,538	3.0	1,269	1.5	7,403	8.6	212	.2
Hai	781	2.2	868	2.5	3,993	11.4	174	.5
Siha	188	.9	313	1.4	2,126	9.9	63	.3
Total	8,530	3.5	3,795	1.6	22,296	9.2	448	.2

Cont. 9.11.4 AGRICULTURE CONSTRAINTS: Number of Agricultural Households Reporting the FOURTH Most important Constraint by District, 2007/08 Agricultural Year

	Constraint					
	Extended dry spell		Crop Farmers/Livestock keepers Conflicts		Total	
District	Number	%	Number	%	Number	%
Rombo	4,324	9.9	0	.0	43,671	100.0
Mwanga	1,393	6.7	155	.7	20,890	100.0
Same	880	2.5	176	.5	35,650	100.0
Moshi Rural	5,499	6.4	0	.0	85,663	100.0
Hai	3,559	10.1	694	2.0	35,067	100.0
Siha	2,063	9.6	0	.0	21,572	100.0
Total	17,718	7.3	1,025	.4	242,513	100.0

9.11.4 AGRICULTURE CONSTRAINTS: Number of Agricultural Households Reporting the FIFTH important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Access to Land		Ownership of Land		Poor Soil Cultivation Equipment		Soil Fertility	
District	Number	%	Number	%	Number	%	Number	%
Rombo	1,838	4.2	108	.2	3,567	8.2	5,945	13.6
Mwanga	103	.5	155	.7	1,702	8.1	1,186	5.7
Same	1,760	4.9	792	2.2	2,905	8.1	2,025	5.7
Moshi Rural	3,173	3.7	1,269	1.5	6,980	8.1	6,345	7.4
Hai	608	1.7	260	.7	1,910	5.4	2,257	6.4
Siha	688	3.2	188	.9	1,813	8.4	1,063	4.9
Total	8,169	3.4	2,772	1.1	18,877	7.8	18,821	7.8

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Cont. 9.11.4 AGRICULTURE CONSTRAINTS: Number of Agricultural Households Reporting the FIFTH important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Access to Improved Seed		Irrigation Facilities		Access to Chemical Inputs		Cost of Inputs	
District	Number	%	Number	%	Number	%	Number	%
Rombo	649	1.5	1,730	4.0	540	1.2	3,567	8.2
Mwanga	1,599	7.7	1,032	4.9	877	4.2	2,579	12.3
Same	2,553	7.2	2,377	6.7	1,849	5.2	4,137	11.6
Moshi Rural	2,327	2.7	4,442	5.2	4,230	4.9	5,499	6.4
Hai	1,042	3.0	2,257	6.4	868	2.5	1,476	4.2
Siha	1,188	5.5	1,251	5.8	813	3.8	1,751	8.1
Total	9,357	3.9	13,087	5.4	9,177	3.8	19,009	7.8

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Cont. Table 9.11.4 AGRICULTURE CONSTRAINTS: Number of Agricultural Households Reporting the FIFTH important Constraint by District, 2007/08 Agricultural Year

District	Constraint					
	Extension Services		Access to Forest Resources		Access to Potable Water	
	Number	%	Number	%	Number	%
Rombo	2,162	5.0	216	.5	4,324	9.9
Mwanga	1,651	7.9	52	.2	1,496	7.2
Same	1,056	3.0	88	.2	616	1.7
Moshi Rural	8,038	9.4	0	.0	1,481	1.7
Hai	1,562	4.5	0	.0	1,736	5.0
Siha	1,000	4.6	125	.6	688	3.2
Total	15,469	6.4	481	.2	10,340	4.3

Cont. Table 9.11.4 AGRICULTURE CONSTRAINTS: Number of Agricultural Households Reporting the FIFTH important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Access to Credit		Access to Off Farm Income		Threshing		Harvesting	
	Number	%	Number	%	Number	%	Number	%
Rombo	3,135	7.2	3,135	7.2	0	.0	0	.0
Mwanga	1,496	7.2	1,083	5.2	103	.5	0	.0
Same	1,937	5.4	1,760	4.9	88	.2	88	.2
Moshi Rural	9,730	11.4	5,922	6.9	212	.2	0	.0
Hai	2,170	6.2	2,864	8.2	0	.0	0	.0
Siha	2,063	9.6	875	4.1	63	.3	0	.0
Total	20,530	8.5	15,641	6.4	465	.2	88	.0

Cont. Table 9.11.4 AGRICULTURE CONSTRAINTS: Number of Agricultural Households Reporting the FIFTH important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Crop Storage		Crop Processing		Marketing Information		Higher Transport Costs	
	Number	%	Number	%	Number	%	Number	%
Rombo	324	.7	216	.5	324	.7	540	1.2
Mwanga	103	.5	0	.0	567	2.7	155	.7
Same	176	.5	0	.0	2,289	6.4	880	2.5
Moshi Rural	423	.5	423	.5	423	.5	4,442	5.2
Hai	1,042	3.0	434	1.2	1,562	4.5	2,257	6.4
Siha	750	3.5	0	.0	1,188	5.5	438	2.0
Total	2,818	1.2	1,073	.4	6,354	2.6	8,712	3.6

Cont. 9.11.4 AGRICULTURE CONSTRAINTS: Number of Agricultural Households Reporting the FIFTH important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Destruction by Animals		Stealing		Pest and Disease		Local Government Taxation	
	Number	%	Number	%	Number	%	Number	%
Rombo	1,621	3.7	1,405	3.2	4,108	9.4	108	.2
Mwanga	1,186	5.7	258	1.2	1,909	9.1	0	.0
Same	1,496	4.2	440	1.2	3,961	11.1	0	.0
Moshi Rural	2,750	3.2	1,904	2.2	10,153	11.9	212	.2
Hai	1,128	3.2	1,302	3.7	3,646	10.4	174	.5
Siha	500	2.3	563	2.6	2,188	10.1	125	.6
Total	8,683	3.6	5,872	2.4	25,964	10.7	618	.3

Cont. 9.11.4 AGRICULTURE CONSTRAINTS: Number of Agricultural Households Reporting the FIFTH important Constraint by District, 2007/08 Agricultural Year

District	Constraint					
	Extended dry spell		Crop Farmers/Livestock keepers Conflicts		Total	
	Number	%	Number	%	Number	%
Rombo	4,108	9.4	0	.0	43,671	100.0
Mwanga	1,444	6.9	155	.7	20,890	100.0
Same	1,937	5.4	440	1.2	35,650	100.0
Moshi Rural	5,076	5.9	0	.0	85,663	100.0
Hai	3,819	10.9	694	2.0	35,067	100.0
Siha	2,126	9.9	125	.6	21,572	100.0
Total	18,510	7.6	1,414	.6	242,513	100.0

POVERTY MODULE

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

District	Number of rooms	Iron Sheets	Tiles	Concrete	Asbestos	Grass/Leaves	Grass & Mud	Other	Total HH
Rombo	3	42,914	432	216	108	108	0	0	43,779
Mwanga	3	19,240	103	0	52	1,444	52	0	20,890
Same	3	27,728	264	0	88	6,954	616	0	35,650
Moshi Rural	3	83,125	635	0	212	1,692	0	0	85,663
Hai	3	33,418	0	0	0	1,649	87	0	35,154
Siha	3	19,696	63	0	63	688	938	125	21,572
Total	3	226,120	1,497	216	522	12,535	1,692	125	242,708
%		93.2	0.6	0.1	0.2	5.2	0.7	0.1	100.0

10.2 HOUSEHOLD FACILITIES: Number of households reporting average number of rooms and type of Roofing Materials by District, 2007/08 Agricultural Year

District		Roofing Materials						
	Mean Number of rooms	Earth,Sand, Dung	Wood Planks, Bamboo, Palm	Parquet Or Polished Wood	Ceramic Tiles, Terrazzo	Cement	Other	Total HH
Rombo	3	28,429	973	324	0	13,836	216	43,779
Mwanga	3	10,884	516	103	155	9,233	0	20,890
Same	3	25,791	528	0	88	9,243	0	35,650
Moshi Rural	3	32,573	2,538	0	423	50,129	0	85,663
Hai	3	17,099	868	260	87	16,665	174	35,154
Siha	3	11,630	250	125	0	9,567	0	21,572
Total	3	126,407	5,673	813	753	108,673	390	242,708
%		52.1	2.3	0.3	0.3	44.8	0.2	100.0

10.3 HOUSEHOLD FACILITIES: 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 HH
Rombo	6,270	16,971	757	108	9,837	9,080	0	757	43,779
Mwanga	1,238	6,190	3,353	9,388	155	567	0	0	20,890
Same	2,113	7,130	2,025	23,062	264	792	0	264	35,650
Moshi Rural	5,922	24,959	3,384	7,191	5,711	34,688	0	3,807	85,663
Hai	1,996	10,329	4,861	1,649	1,562	14,322	0	434	35,154
Siha	3,126	5,565	1,688	875	2,314	7,003	0	1,000	21,572
Total	20,665	71,143	16,067	42,274	19,842	66,453	0	6,262	242,708
%	8.5	29.3	6.6	17.4	8.2	27.4	0.0	2.6	100.0

10.4 HOUSEHOLD FACILITIES: 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 HH
Rombo	35,023	8,756	43,779	1,189	42,590	43,779	22,484	21,295	43,779	23,241	20,538	43,779	11,458	32,321	43,779
Mwanga	18,105	2,785	20,890	774	20,117	20,890	12,947	7,943	20,890	10,626	10,265	20,890	2,373	18,518	20,890
Same	24,119	11,531	35,650	968	34,682	35,650	15,316	20,334	35,650	13,380	22,270	35,650	1,849	33,801	35,650
Moshi Rural	75,510	10,153	85,663	1,269	84,394	85,663	54,148	31,516	85,663	51,398	34,265	85,663	29,823	55,840	85,663
Hai	30,553	4,600	35,154	694	34,459	35,154	21,092	14,061	35,154	20,137	15,016	35,154	9,027	26,127	35,154
Siha	19,884	1,688	21,572	438	21,134	21,572	14,944	6,628	21,572	13,881	7,691	21,572	6,565	15,007	21,572
Total	203,194	39,514	242,708	5,332	237,376	242,708	140,931	101,777	242,708	132,662	110,045	242,708	61,095	181,612	242,708
%	84	16	100	2	98	100	58	42	100	55	45	100	25	75	100

cont… 10.4 HOUSEHOLD FACILITIES: 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 HH
Rombo	18,592	25,186	43,779	3,351	40,428	43,779	2,919	40,860	43,779	1,081	42,698	43,779	2,594	41,184	43,779
Mwanga	5,829	15,062	20,890	980	19,910	20,890	2,218	18,672	20,890	1,599	19,291	20,890	516	20,375	20,890
Same	5,634	30,016	35,650	1,584	34,066	35,650	1,408	34,242	35,650	616	35,034	35,650	440	35,210	35,650
Moshi Rural	23,055	62,608	85,663	7,614	78,049	85,663	12,479	73,184	85,663	8,884	76,779	85,663	2,750	82,913	85,663
Hai	11,978	23,175	35,154	3,819	31,334	35,154	3,819	31,334	35,154	1,649	33,504	35,154	694	34,459	35,154
Siha	7,753	13,819	21,572	938	20,634	21,572	1,563	20,009	21,572	438	21,134	21,572	875	20,697	21,572
Total	72,841	169,866	242,708	18,287	224,421	242,708	24,407	218,301	242,708	14,267	228,441	242,708	7,870	234,838	242,708
%	30	70	100	8	92	100	10	90	100	6	94	100	3	97	100

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

District	Electricity	Solar	Gas (Biogas)	Hurricane Lamp	Pressure Lamp	Wick Lamp	Candles	Firewood	Other	Total HH
Rombo	4,324	432	0	14,052	973	23,024	649	324	0	43,779
Mwanga	4,900	361	0	9,904	413	4,797	103	413	0	20,890
Same	1,584	352	0	15,756	1,408	16,461	0	88	0	35,650
Moshi Rural	19,248	1,058	0	30,881	3,384	30,246	212	635	0	85,663
Hai	6,163	260	0	14,929	1,389	12,239	174	0	0	35,154
Siha	2,063	438	0	10,817	1,063	7,066	63	63	0	21,572
Total	38,282	2,901	0	96,340	8,630	93,833	1,199	1,522	0	242,708
%	15.8	1.2	0	39.7	3.6	38.7	0.5	0.6	0	100

10.6 HOUSEHOLD FACILITIES: 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(Industrial)	Parraffin / Kerosine	Charcoal	Firewood	Crop Residues	Livestock Dung	Other	Total HH
Rombo	324	108	216	0	108	324	41,725	973	0	0	43,779
Mwanga	0	0	0	52	0	206	20,478	155	0	0	20,890
Same	88	0	88	264	88	528	34,506	88	0	0	35,650
Moshi Rural	1,904	0	0	423	212	2,327	80,587	212	0	0	85,663
Hai	260	87	87	87	87	434	33,938	174	0	0	35,154
Siha	63	0	63	0	0	125	20,947	375	0	0	21,572
Total	2,639	195	454	825	494	3,944	232,180	1,976	0	0	242,708
%	1.09	0.08	0.19	0.34	0.20	1.63	95.66	0.81	0.00	0.00	100.00

10.7 HOUSEHOLD FACILITIES: 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	Uprotected Well	Unprotected Spring	Surface Water (Lake / Dam / River / Stream)	Covered Rainwater Catchment	Uncovered Rainwater Catchment	Water Vendor	Tanked Truck	Bottled water	Other	Total HH
Rombo	38,266	108	0	108	1,621	649	757	432	324	0	0	3	43,779
Mwanga	10,110	3,611	980	1,186	2,837	2,012	0	103	52	0	0	0	20,890
Same	10,651	2,905	3,081	2,377	12,235	4,313	0	0	0	88	0	0	35,650
Moshi Rural	56,263	3,596	2,538	423	15,017	6,134	635	212	423	423	0	0	85,663
Hai	28,296	608	781	87	2,604	2,430	87	174	0	0	0	0	35,154
Siha	16,382	63	250	0	500	4,064	0	188	125	0	0	0	21,572
Total	159,968	10,889	7,630	4,181	34,815	19,602	1,478	1,108	924	511	0	3	242,708
%	65.9	4.5	3.1	1.7	14.3	8.1	0.6	0.5	0.4	0.2	0.0	0.0	100.0

10.8 HOUSEHOLD FACILITIES: Number of Agricultural Households Reporting Distance to Main Source of Drinking Water during Wet Season by District, 2007/08 Agricultural Year

District	Less than 100m	100-299 m	300-499 m	500-999 m	1-1.99 Km	2-2.99 Km	3-4.99 Km	10Km and above	Total HH
Rombo	30,807	1,621	0	4,864	4,864	1,621	0	0	43,779
Mwanga	9,285	4,642	0	5,416	774	774	0	0	20,890
Same	11,883	6,602	1,320	6,602	6,602	1,320	1,320	0	35,650
Moshi Rural	60,281	9,518	3,173	6,345	6,345	0	0	0	85,663
Hai	23,436	2,604	1,302	3,906	3,906	0	0	0	35,154
Siha	14,069	2,814	0	2,814	0	0	0	1,876	21,572
Total	149,761	27,801	5,795	29,947	22,491	3,716	1,320	1,876	242,708
%	62	11	2	12	9	2	1	1	100

10.9 HOUSEHOLD FACILITIES: Number of Agricultural Households Reporting Time Spent to and from Main Source of Drinking Water during Wet Season by District, 2007/08 Agricultural Year

District	Less than 10	10-19 Minutes	20-29 Minutes	30-39 Minutes	40-49 Minutes	above one Hour	Total HH
Rombo	25,943	0	3,243	9,729	0	4,864	43,779
Mwanga	7,737	2,321	1,547	5,416	1,547	2,321	20,890
Same	7,922	5,281	3,961	11,883	0	6,602	35,650
Moshi Rural	57,109	12,691	6,345	6,345	3,173	0	85,663
Hai	24,738	2,604	1,302	5,208	0	1,302	35,154
Siha	14,069	938	938	3,752	0	1,876	21,572
Total	137,518	23,835	17,337	42,333	4,720	16,965	242,708
%	56.7	9.8	7.1	17.4	1.9	7.0	100.0

10.10 HOUSEHOLD FACILITIES: Number of Agricultural Households Reporting Main Source of Drinking Water during Dry Season by District, 2007/08 Agricultural Year

District	Piped Water	Protected Well	Protected / Covered Spring	Uprotected Well	Unprotected Spring	Surface Water (Lake / Dam / River / Stream)	Covered Rainwater Catchment	Uncovered Rainwater Catchment	Water Vendor	Tanker truck	Bottled water	Total HH
Rombo	37,834	216	324	0	2,378	2,378	216	0	432	0	0	43,779
Mwanga	9,285	3,662	980	1,393	3,198	2,166	0	103	52	52	0	20,890
Same	10,739	2,817	3,169	2,289	12,499	4,049	0	0	0	88	0	35,650
Moshi Rural	56,897	3,596	2,538	423	15,229	5,922	212	0	635	212	0	85,663
Hai	27,515	868	781	87	2,691	2,604	87	87	0	347	87	35,154
Siha	15,319	63	250	0	500	5,190	0	0	125	125	0	21,572
Total	157,589	11,221	8,043	4,191	36,496	22,310	515	190	1,244	823	87	242,708
%	65	5	3	2	15	9	0	0	1	0	0	100

10.11 HOUSEHOLD FACILITIES: Number of Agricultural Households Reporting Distance to Main Source of Drinking Water during Dry Season by District, 2007/08 Agricultural Year

District	Less than 100m	100-299 m	300-499 m	500-999 m	1-1.99 Km	2-2.99 Km	3-4.99 Km	5-9.99 Km	10Km and above	Total HH
Rombo	27,564	1,621	0	3,243	1,621	3,243	1,621	3,243	1,621	43,779
Mwanga	8,511	5,416	0	4,642	774	774	0	774	0	20,890
Same	11,883	6,602	0	5,281	7,922	1,320	1,320	1,320	0	35,650
Moshi Rural	60,281	9,518	3,173	6,345	6,345	0	0	0	0	85,663
Hai	23,436	2,604	1,302	3,906	3,906	0	0	0	0	35,154
Siha	14,069	2,814	0	2,814	0	0	938	0	938	21,572
Total	145,744	28,575	4,475	26,232	20,569	5,337	3,880	5,337	2,559	242,708
%	60	12	5	20	26	8	5	2	1	100

10.12 HOUSEHOLD FACILITIES: Number of Agricultural Households Reporting Time Spent to and from Main Source of Drinking Water during Dry Season by District, 2007/08 Agricultural Year

District	Less than 10 Minutes	10 - 19 Minutes	20 - 29 Minutes	30 - 39 Minutes	40 - 49 Minutes	above one Hour	Total HH
Rombo	21,079	0	1,621	6,486	0	14,593	43,779
Mwanga	5,416	2,321	774	6,963	774	4,642	20,890
Same	5,281	5,281	2,641	15,844	0	6,602	35,650
Moshi Rural	53,936	12,691	6,345	6,345	3,173	3,173	85,663
Hai	24,738	2,604	1,302	5,208	0	1,302	35,154
Siha	13,131	1,876	938	2,814	938	1,876	21,572
Total	123,581	24,773	13,621	43,661	4,884	32,188	242,708
%	51	10	6	18	2	13	100

10.13 HOUSEHOLD FACILITIES: Number of Agricultural Households Reporting type of TOILET the household normally use by District, 2007/08 Agricultural Year

District	No Toilet / Bush	Flush Toilet	Traditional Pit Latrine	Improved Pit Latrine - hh Owned	Other Type	Total HH
Rombo	432	865	38,050	4,216	216	43,779
Mwanga	361	309	18,157	2,012	52	20,890
Same	1,056	528	30,192	3,785	88	35,650
Moshi Rural	0	8,884	66,415	10,364	0	85,663
Hai	521	1,215	29,164	4,253	0	35,154
Siha	1,000	375	14,631	5,565	0	21,572
Total	3,371	12,176	196,610	30,195	356	242,708
%	1.4	5.0	81.0	12.4	0.1	100.0

10.14 HOUSEHOLD FACILITIES: Number of Agricultural Households Reporting Number of meals the household normally has per day by District, 2007/08 Agricultural Year

District	One	Two	Three	Total HH
Rombo	5,513	21,835	16,431	43,779
Mwanga	309	3,456	17,125	20,890
Same	704	7,042	27,904	35,650
Moshi Rural	8,249	36,592	40,822	85,663
Hai	1,128	13,107	20,919	35,154
Siha	1,251	10,692	9,629	21,572
Total	17,155	92,724	132,829	242,708
%	7.1	38.2	54.7	100.0

10.15 HOUSEHOLD FACILITIES: Number of Agricultural Households Reporting Number of days the household Consumed Meat during the Preceeding Week by District, 2007/08 Agricultural Year

District	Not Eaten	One	Two	Three	Four	Five	Six	Seven	Total HH
Rombo	3,783	28,645	10,377	973	0	0	0	0	43,779
Mwanga	6,757	8,201	4,694	980	206	0	52	0	20,890
Same	9,419	17,165	6,338	2,113	352	176	88	0	35,650
Moshi Rural	8,038	31,093	33,631	9,518	2,538	635	0	212	85,663
Hai	3,125	12,586	14,669	3,819	781	174	0	0	35,154
Siha	2,626	11,005	6,565	1,063	125	125	0	63	21,572
Total	33,748	108,695	76,274	18,466	4,003	1,109	140	274	242,708
%	14	45	31	8	2	0	0	0	100

10.16 HOUSEHOLD FACILITIES: Number of Agricultural Households Reporting Number of days the household Consumed Fish during the Preceeding Week by District, 2007/08 Agricultural Year

District	Not Eaten	One	Two	Three	Four	Five	Six	Seven	Total HH
Rombo	14,593	18,376	9,512	1,189	0	0	108	0	43,779
Mwanga	1,290	1,857	5,158	5,829	3,920	980	722	1,135	20,890
Same	2,729	6,250	10,123	7,218	4,049	2,465	1,849	968	35,650
Moshi Rural	8,249	28,343	31,304	12,056	4,865	635	212	0	85,663
Hai	5,295	13,454	11,110	3,212	1,389	260	87	347	35,154
Siha	6,065	9,754	4,690	563	313	63	63	63	21,572
Total	38,220	78,034	71,897	30,066	14,536	4,402	3,040	2,513	242,708
%	16	32	30	12	6	2	1	1	100

10.17 HOUSEHOLD FACILITIES: 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 HH
Rombo	13,620	18,484	2,702	5,080	3,891	43,779
Mwanga	6,241	8,872	2,012	2,631	1,135	20,890
Same	6,866	13,732	3,697	8,098	3,257	35,650
Moshi Rural	44,206	25,805	5,499	4,230	5,922	85,663
Hai	14,409	12,065	3,212	3,819	1,649	35,154
Siha	9,504	6,941	2,689	1,563	875	21,572
Total	94,847	85,898	19,811	25,422	16,730	242,708
%	39.1	35.4	8.2	10.5	6.9	100.0

10.18 HOUSEHOLD FACILITIES: Number of Agricultural Households Reporting Main Source of Income by District, 2007/08 Agricultural Year

District	Sales of Food Crops	Sale of Livestock	Sale of Livestock Products	Sales of Cash Crops	Sale of Forest Products	Business Income	Wages & Salaries in Cash	Other Casual Cash Earnings	Cash Remittance	Fishing	Other	Not applicable	Total
Rombo	21,295	4,540	757	4,756	216	4,000	2,162	4,864	1,081	0	0	108	43,779
Mwanga	10,161	722	1,238	309	413	1,290	1,754	2,682	1,496	155	464	206	20,890
Same	22,006	1,849	2,289	1,849	264	968	1,496	4,665	176	0	88	0	35,650
Moshi Rural	42,091	1,058	3,807	3,384	212	7,191	11,422	10,787	4,653	0	1,058	0	85,663
Hai	21,787	868	2,517	2,083	174	1,476	1,649	2,951	955	0	521	174	35,154
Siha	11,630	750	1,188	2,126	63	2,126	1,438	2,063	125	0	63	0	21,572
Total	128,970	9,787	11,796	14,508	1,341	17,050	19,921	28,014	8,486	155	2,193	488	242,708
%	53.1	4.0	4.9	6.0	0.6	7.0	8.2	11.5	3.5	0.1	0.9	0.2	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

d d / m m / y y y y

Start Time

End Time

Hour	Minutes

Field level checking by:

District Supervisor	Name	Signature	Date / /	*! To be filled by the supervisor ONLY after Field/farm level checking of the enumeration process. This should be countersigned by the Supervisor in front of the enumerator*
Regional Supervisor	Name	Signature	Date / /	
National Supervisor	Name	Signature	Date / /	

Distric checking in Office

District Supervisor	Name	Signature	Date / /	*All questionnaires must be checked at the district office.*

For Use at Regional Level Only

Data entered by:	Name	Signature	Date / /	*See the back page for details of queries*
Queried	Name	Signature	Date / /	

Ministry of Agriculturte and Food Security, Ministry of Livestock and Fisheries Development, Ministry of Agriculture and Environment of Zanzibar, Ministry of Water and Irrigation, Prime Ministers' Office Regional Administration and Local Government, Ministry of Industry Trade and Marketing, National Bureau of Statistics, and the Office of the Government Statistician General of Revolution Governemnet of Zanzibar

Definition and working page for page 1

General Definitions

Who is a Smallholder /Small Scale farmer?
Should have one or more of the following: in the 2007/08 farming season had one or more cultivated and planted farms. The farm land may either be owned, rented, borrowed. The farmer may also be raising 1 and 50 head of cattle, and/or between 5 and 100 head of sheep/Goats/Pigs, and/or between 50 and 1000

Household: A group of people who occupy the whole of part one or more housing units and makes joint provision for food and/or other household items. Usually such a group comprises a husband, wife, and their children. Other relatives may be members of the household if they happen to live and get food provisions from the same household. People who live together and eat from the same pot may be considered as member s of the same household even if they stay in separate dwellings. An individual who lives and east alone is considered as an independent household.

Household Head: A person who is acknowledged by all other members of the household either by virtue of his age or standing in the household as the head. He/she should be a permanent resident of the house and he/she is the main person responsible for decision making regarding use of household resources..

Agricultural Holding: This is an economic unit of agricultural production under single management. This unit may have been grown various crops. For the purpose of the survey, the agricultural holdings are restricted to those which meet one of the following conditions:
- Having or operated at least 25 sq meter of arable land
- Own or keep at least one head of cattle or five goats/sheep/five pigs or fifty chicken/ducks/turkeys during the agricultural year 2007/08 (from October 2007 to September 2008).

Question Specific Definitions:

Type of Agriculture holding Codes (Q2.1):
Crops only: A holding is referred to be a crop only holding if it has cultivated at least one piece of land. This also applies to all households owning or have kept livestock whose number does not qualify such households to be an agricultural holding (No cattle, less than 5 goats/sheep/pigs, less than 50 chickens/turkeys/rabbits).

Livestock only: A holding is referred to be a livestock only holding if it has exercised livestock husbandry only during the 2007/08 agricultural year.

NOTE
For agricultural holding only and pastoralist holding only; the number of livestock should be at least one head of cattle, not less than five goats/sheep/pigs, not less than 50 chickens /turkeys /rabbits. This also applies to households having or operated less than 25 sq meter of cultivated land (which does not qualify the household to be considered as agricultural holding) but has the number of livestock that makes the holding qualifies to be considered as livestock holding.

Pastoralist holding: This refers to a household which practices livestock production as its major income generating activity and a means of subsistence, but moves from one place to another searching for water and pasture for the livestock. This movement usually involves long distances and in many cases the whole household unit moves with the livestock and they have no permanent place of residence.

Both crops and livestock: A holding is referred to be a both crops and livestock if it has cultivated a piece of land equal or exceeding 25 sq meter and if such households have own or kept livestock whose number qualify such household be considered as an agricultural holding.

Procedures for questions:

Q 2.1 Type of agriculture household/holding

Using the options under the question classify the type of agriculture household/holding

Note: If the household had an acre of crops and raised 40 chickens during 2007/08, it is classified as 'Crops only' as the number of chickens does not qualify the household as a livestock holding.

1.0 IDENTIFICATION DETAILS

Identification

1.1 **Location**

Na.	Location Name	Codes
1.1.1	Rgion ……	
1.1.2	District ……	
1.1.3	Ward ……	
1.1.4	Village ……	

1.2 Deatails of the respondent or household head

Na.		Codes
1.2.1	Name and number of local leader	
1.2.2	Name and number of household head ……..	
1.2.3	**Sex of household head**	
1.2.4	Name of respondent ……..	
1.2.5	**Relationship of Respondent to household head**	

Relationship to household head codes (Q 1.2.5)

Head of Household ……..1 Son /Daughter…….3 Grandson/Granddaughter…….5 No relationship…….7

Spouse……..2 Father/Mother……4 Other relatives……6

2.0 ACTIVITIES OF THE HOUSEHOLD

2.1	Typeof Agriculture Household	

Household agricultural activities codes(Q 2.1)

Crops only……..1 Livestock only ……..2 Pastoralist……3 Crops and Livestock ……..4

Definition and working page for page 2

Question Specific Definitions:

Relation to head (Col 2):
Household Head: A person who is acknowledged by all other members of the household either by virtue of their age or standing as the household head.

Read and Write (Col 8)
Any other language: Must be a written language.
For someone who can read and write in Kiswahili and any other language apart from English, the correct code is 1. For one who can read and write in English and any other language apart from Kiswahili the the correct code is 2. Code 4 should only be used for any other language which is not English or Kiswahili.

Education Level Reached (Col 10):
Ask the respondent the highest educational level reached. This aims at establishing whether at the time of enumeration the member of the household is studying has completed or has never studied. Make further enquiry for the level of education reached for those who have completed studies. Establish if the member had attained any training after graduation for the purposes for completing column number 9. For those who still continue attending studies during the period of this survey, establish their learning stage. For instance for a household member who studied up to Standard Three but did complete his/her education at this level, then his/her highest education level reached is Standard Two. For those indicated under code 3 (not studied) in column 8 should be marked code 99 (Not applicable) in column 9.

Section 3.0 Note

Make sure that you define the hh proper to ensure that all the members of the hh are included. Ensure that you stress that the hh is not just the hh heads direct family and that it includes other people living and eating together with the family.

If you notice that the hh is large or you see many people around the hh and you have been given a smaller number of the hh members, make further enquiries until you are sure that you have captured all the hh members.

Section 3.0 Household information.

ii) For each household member complete columns 1,2,3 and 3
After completing columns 1, 2, 3 and 3 for each household member, go back to the first household member and complete the remaining columns for that member.
iii) Repeat step 2 for the rest of the household members.

3.0 HOUSEHOLD INFORMATION

Identification

3.1 Give details of personal particulars of all hh members beginning with hh head

Na.	Names of hh members *(Start with hh Head)*	Ex Start with hh Head	Sex M = 1 F = 2	Age *(98 years or more enter 97, under one year old write 00)*	Marital Status	Parental Survival		Not applicable for children under 5 years					
						Mother	Father	Reard and Write	Education status	Levek of education attained	On farm engagements	Main activity	Off farm income yes=1 no=2
	(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*	*(7)*	*(8)*	*(9)*	*(10)*	*(11)*	*(12)*	*(13)*
01	……..….	1											
02	……..….												
03	……..….												
04	……..….												
05	……..….												
06	……..….												
07	……..….												
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29	……..….												
30	……..….												
31	……..….												
32	……..….												
33	……..….												

Relationship to household head (Col 2)

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

Marrital Status(Col 4)

Married.....…….…..1
Single.....…….…..…2
Co-habiting 3
Divorced
Separated..... ……..…...4
Widow/widower...……...5

Survival of Parents(Col 6 & 7)

Yes.....…1 No ….....2
Dont't know ...…….…….3

Ed.ucation Level(Col 9)

Studying ……..1
Has completed…….....2
Never been to school ...…3

Reading and writing (Col 8)

Kiswahili…….....……..1
English …….....……2
Kiswahili and English….....3
Lugha nyingine…….....…...4
Canno tread or write.....….5

Education Level (Col 10)

Primary education	Secondary Education
Below Standard One.....00	Form One.....11
Standard One 01	Form Two 12
Standard Two.....02	Fomr Three.....13
Standard Three.....03	Form Four 14
Standard Four.....04	Form Five 15
Standard Five.....05	Form Six 16
Standard Six 06	Training after Seo.ondary Ed.....17
Standard Seven.....07	University and other Tertiary Ed...8
Daras Standard Eight ..08	Adult
Education.....19	
Training after Primary Ed...09	Not apllicable 99
Pre Form One.....10	

Involvement in farming activitie (Col 11)

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

..... **Main activity (Col 12)**

Crop farming: ……..01.
Livestock farming/herding: ….02.
Pastoralist ……03
Fishing ……..04
Fish farming …….……05
Paid employment / Government/parastal……06
Private/NGOs ……07
Self employee (Off- farm cativities)
- With employees ……...08
- Without employees ……...09
Non paid household member (off – farm activities) ……10.
Unemployed but available for work ….11
Unemployed but unavailable for work..12
House mother ……13
Student ……..14
Unable to work too old, too young, retired, disabled,child 15
Others (specify) …….....98

Off-farm Income (Col 13)

These are income made from activities NOT on the HH's farming activites. This can be from formal employmenbt (e.g. in gpvrenment etc.), temporary jobs, casual labourers and income generation activity and includes working for cash on other people's farms.
Indicate whether each member was involved in an off farm income generating activity during 2007/08

Definitions and working page for page 3

Definitions for Key Specific Questions
Section 4.1 – Land Access/Ownership
These are areas that were used by the households for the 2007/08 farming season

Lease/Certificate of Ownership: Area under lease/certificate of ownership refers to the areas which were issued by the government. The household possesses government issued leasehold little or certificate of ownership. The land will normally be officially surveyed and boundaries marked. This includes leased land bought from others where the lease/certificate of ownership has been transferred.

Customary Law: This refers to the land which the household does not have an official government but its right of use is granted by the traditional leaders.
Bought: This refers to the areas of customary land that has been bought from others. This land does not have an official title and therefore is not leasehold.
Rented from others: Land rented from others for cash or for a fixed amount in crop produce (e.g. fixed number of bags at harvest).

Borrowed: use granted by land owner free of charge. Land owner can either be a lease holder or has right of access through customary law.
Share cropping: where the household is permitted to use land which is then paid for from a percentage of the harvested crop

Section 4.2 Land Use
Temporary crops: are sown and harvested during the same agricultural year
Permanent crops: are crops once sown or planted last for some years and need not to be replanted after each annual harvest.
Permanent crops /mixed crops: This is a mixture of permanent and seasonal crops. The two crops can either be randomly planted together or in a particular pattern e; for example intercropping (1 row of maize and 1 row of beans). A field that has been divided into plots for different crops is not mixed).
This is further subdivided into:
Mixture of Permanent crops – two or more permanent crops grown tougher
Mixture of Permanent and Temporary crops – permanent crop and annual crop together
Mixture of Temporary crops– two or more temporary, annual crops grown together
Pasture land: this is an area of owned/allocated land which is set aside for livestock grazing. It can be improved pasture where the farmer has planted grass, applied fertilized or where other means have been applied to improve the pasture. Or it can be natural pasture.
Natural Bush: Land which has naturally grown shrubs and trees and is considered productive but is not utilized for farming or livestock production.

Overview to section 4

Overview to section 4
Section 4.0: Preliminary note
Land Access/Ownership
Land access/ownership refers to the area utilized by the members of the household. This does not include communal land where the resources are shared between household members. It does not include official communal land that the household has sole access to for example a plot for crop farming in the communal area.

Procedures for questions

Section 4.0 – Land Ownership
1. Ask the respondent if he knows the total areas of land the household has sole access to. If he knows make a note in the calculation space
2 Ask the respondent the area of the different land ownership categories the household has sole access to (Q4.1, 1 to 4.1.7) and record in the appropriate spaces.
3. Add up the area of the different categories of land and compare it with the total area obtained in step 1 (if the respondent provided the information)
4. If the total area is different find out which one is correct and make

Section 4.2: Land Use
1. Ask the respondent the area of the different land use categories the household has sole access to (Q4.2.1 to 4.2.12) and record in the appropriate spaces.

2. Add up the area of the different categories of land and compare it with the total area obtained in section 4.0. The total area should be the same.

3. If the total area is different find out which one is correct and make amendments where appropriate.

4.0 LAND ACCESS/OWNERSHIP/TENURE Identification

4.1 LAND ACCESS/OWNERSHIP/TENURE

Give details on Area owned by the household during 2007/08 agricultural season.

	Give area as reported by the respondent in acres	Area in Acre		
			4.1.8	Was the whole household area used during the 2007/08 agricultural season? (Yes=1, No=2)
4.1.1	Area under certificate of ownership			
4.1.2	Area owned under customary law			
4.1.3	Area bought		4.1.9	Do you consider to have enough land for your household? (Yes=1, No=2)
4.1.4	Area rented from others			
4.1.5	Area borrowed from others			
4.1.6	Area share cropped from others		4.1.10	Is there any female who owns land or has customary rights to land ownership in this household? (Yes=1, No=2)
4.1.7	Area under other forms of tenure			
	Total area			

4.2 LAND USE

Area used by the household for various agricultural activities during 2007/08 agricultural season

	Enter area as reported by the respondent in acres	Area in acre	Working space for calculations
4.2.1	Area planted temporary monocrops		
4.2.2	Area planted temporary mixed crops (e.g. maize and beans)		
4.2.3	Area planted permanent moncrops		
4.2.4	Area planted permanent mixed crops (e.g. banana, coffee, trees)		
4.2.5	Area planted permanent and temporary mixed crops (e.g. maize and banana)		
4.2.6	Area under pasture		
4.2.7	Area under fallow		
4.2.8	Area under natural forest		
4.2.9	Area planted trees		
4.2.10	Area rented to others		
4.2.11	Area unsuitable for agricultrure		
4.2.12	Uncultivated arable land (minus area under fallow)		
	Total area		

Definitions and working page for page 4

Working table for the calculation area for annual mixed crops

Mixed crops 1	Crop Name	Total area of mixed (acre)	Area for plants (acre)	Total number of plants	Total area of plants (acre)
(a)	*(b)*	*(c)*	*(d)*	*(e)*	*(f)=(d)*(e)*
Permanent crop 1			0.000		
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		

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		
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 temporary crop
Name of the crop temp/permanent 1					
Name of the crop temp/permanent 2					
Name of the crop temp/permanent 3					
Check total area			Check total area for temporary crops		

Planted Area: Area in acre the household was able to plant
Harvested Area: Area in acre the household was able to harvest a large portion of harvests. this is the same as the area planted minus the area that was destroyed by floods/ pets /

Temporary/Annual Crops
Crops planted and harvested within 12 months after which time the plants die . Most annual crops are planted and harvested on a seasonal base.

Cash crop codes:

Code	Crop
50	Cotton
51	Tobacco
53	Payrethrum
62	Jute
19	Seaweed

Crop Codes(Creal / Tubers/ Roots:

Code	Crop
11	Maizei
12	Paddy
13	Sorghum
14	Buirush Millet
15	Finger Millet
16	Wheat
17	Barley
22	Sweet Potatoes
23	Irish Potatyoes
24	Yams
25	Cocoyamsi
26	Onions
27	Gingeri

Vegetable Codes:

Code	Crop
86	Cabbage
87	Tomatoes
88	Spinach
89	Carrot
90	Chillies
91	Amaranths
92	Pumpkin
93	Cucumber
94	Egg plant
95	Water mellon
96	Cauliflower
06	Melllon
05	nyanyachungu
02	Ocra
03	Radish
01	Green Beans
04	Bizari

Crop Codes Legumes and Oil

Code	Crop
31	Beans
32	Cowpeas
33	Green Gram
34	Chick Peas
35	Dengu
36	Bambara nuts
37	Njegere
41	Sun flower
42	Simsim
43	Ground uts
47	Soya beans
48	Caster Seed

Instructions for calculating the area of mixed crops in a mixture

A. If the mixed crop is mixed annual ly only enter the total area of the field in the remaining area under temporary Crop and go to step one of these instructions.

B. If the mixed crop is mixed permanent and annual try to work tyhe percent age taken by the different crops and calculate the area of annual crops outlined in step 1. Otherwise use the number of trees method to calculate the area of annula crops in the mix.

C: Number of trees method to calculate annual crop areas in a permanent-annual crop mix.:

(i) List each of the permanent crop in collumn **b** and enter the ground area per acre for each permanent crop (from instrcutions for page 8) in colum d.

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

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

iv) To obatin the area for tempofrary crops , substract **(-)** the area fro permanent crops from thne total area of crop mix and enter the resulst in in the total area under temporary crops.

(v) Proceed to step 1 to calculate the area under each temporary crop.

1. Enter the name of each temporary crop in tyhe crop mix and estimate percentages of each crop**.**

2. Using the percentage for each crop, calculate the are for each crop from the remaining area under tenmporary crop.

3. After completing the exrcise for all the fields, sum the area of each crop in tyhe mix plus any monocrops and uenter the totals in section 5.1.1 Collumn 3.

4. Once the quantity harvested is obtained , cakIculate the yields (metric tonnes/acre) and compare the figures with the norms given in the crops code box. If there is significantly differentce, check the area and the amouint harvested..

5.0 **PERMANENT AND TEMPORARY CROP PRODUCTION** **Identificatoion**

5.1 **ANNUAL CROPS AND VEGATBLE PRODUCTION-SHORT RAINY SEASON**

Did your household palnted any crop duding short rainy season for 2007/08 agricultural year? Yes = 1, No = 2,(If the answer is yes proceed to Section 5.3)

5.1.1 Provide the following details for each crop planted during the short rainy season for 2007/08 agricultural year

Name of Crop	Planting: Crop code	Planting: Actual area plnated (acre)	Main crop owner: Enetr the number of the hh member from page 2 on informati on for hh members	Pembejeo: Use of Seeds: The type of seed plant ed	Use of seeds	Quantity: Quant ity	Quantity: Quantity used	Cost (Tshs)	Irriga ted area	Use of fertilisers (If 6 is the answer in col 11 proceed to col 16): Cultiv ated area	Tyep of fertili sers used	Quantity of fertilisers: Meas urem ent	Quantity of fertilisers: Quantity used	Coist (Ths)	Use of chemicals agaisnt weeds (If 6 is the answer in col 11 proceed to col 20): Cultiv ated areaE neo lililot umik a	Qunaity of agrochemicals: Quant ity	Qunaity of agrochemicals: Quantity used	Cost
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*	*(7)*	*(8)*	*(9)*	*(10)*	*(11)*	*(12)*	*(13)*	*(14)*	*(15)*	*(16)*	*(17)*	*(18)*	*(19)*
……		•																
……		•																
……		•																
……		•																
……		•																
……		•																
……		•																
……		•																
……		•																
Total area planted		•																

Type of seeds planted (Col 5)
Local seeds …1
Improved seeds……..2

Main crop owner: (Col 4)
Enter number of hh member from page 2 on details on hh members in Q. 3

Use of agricultural seeds (Col 6,)
For the whole crop……..1
3/4 of the whole crop……..2
1/2 of tyhe whole crop……..3
1/4 ofd the whole crop……..4
Under 1/4 of the whole crop…5

Qunatity (Col 7)
Kg ……1
Seedlings….2
Gram…..3

Use of farm inputs (SCol10,11 & 16)
For the whole crop……..1
3/4 of the wholrecrop……..2
1/2 of tyhe whole crop……..3
1/4 ofd the whole crop……..4
Under 1/4 of the whole crop…5
Not used ……..6

Type of fertilsers (Col 12)
Organic fertiliser……..1
inorganic fertlisers…….2

Quantity (Col 17)
Kig ……1
Litre……..2
Gram…..3
Millilitre…..6

Kipimo (S/wima 13)
Kilo ……1
Lita……..2
Milli-lita..3

5.2 ANNUAL CROPS AND VEGATBLE PRODUCTION-LONG RAINY SEASON CONTINUED …

5.2.1 Provide the following details for each crop planted during the short rainy season for 2007/08 agricultural year

Identification ☐☐ ☐☐ ☐☐☐☐☐☐ ☐☐☐☐ ☐☐

Name of crop	Crop code	Use of fungicides (If 6 is the answer in col 20 proceed to col 24)				Use of pesticides (If 6 is the answer in col 24 proceed to col 28)				Harvesting and Storage			Marketing		
		Area used	Size		Cost	Area used	Size		Cost	Quantity harvested (kg)	Quantity stored (kg)	Main storage methods	Quantity sold (kg)	Where was the crop mostly sold?	Main problems in crop marketing
			Quantity	Used			Quantity	Used							
(1)	(2)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)
……	☐☐	☐	☐	☐☐☐☐☐☐	☐☐☐☐☐☐	☐	☐	☐☐☐☐☐☐	☐☐☐☐☐☐	☐☐☐☐☐	☐☐☐☐☐	☐	☐☐☐☐☐	☐☐	☐☐
……	☐☐	☐	☐	☐☐☐☐☐☐	☐☐☐☐☐☐	☐	☐	☐☐☐☐☐☐	☐☐☐☐☐☐	☐☐☐☐☐	☐☐☐☐☐	☐	☐☐☐☐☐	☐☐	☐☐
……	☐☐	☐	☐	☐☐☐☐☐☐	☐☐☐☐☐☐	☐	☐	☐☐☐☐☐☐	☐☐☐☐☐☐	☐☐☐☐☐	☐☐☐☐☐	☐	☐☐☐☐☐	☐☐	☐☐
……	☐☐	☐	☐	☐☐☐☐☐☐	☐☐☐☐☐☐	☐	☐	☐☐☐☐☐☐	☐☐☐☐☐☐	☐☐☐☐☐	☐☐☐☐☐	☐	☐☐☐☐☐	☐☐	☐☐
……	☐☐	☐	☐	☐☐☐☐☐☐	☐☐☐☐☐☐	☐	☐	☐☐☐☐☐☐	☐☐☐☐☐☐	☐☐☐☐☐	☐☐☐☐☐	☐	☐☐☐☐☐	☐☐	☐☐
……	☐☐	☐	☐	☐☐☐☐☐☐	☐☐☐☐☐☐	☐	☐	☐☐☐☐☐☐	☐☐☐☐☐☐	☐☐☐☐☐	☐☐☐☐☐	☐	☐☐☐☐☐	☐☐	☐☐
……	☐☐	☐	☐	☐☐☐☐☐☐	☐☐☐☐☐☐	☐	☐	☐☐☐☐☐☐	☐☐☐☐☐☐	☐☐☐☐☐	☐☐☐☐☐	☐	☐☐☐☐☐	☐☐	☐☐
……	☐☐	☐	☐	☐☐☐☐☐☐	☐☐☐☐☐☐	☐	☐	☐☐☐☐☐☐	☐☐☐☐☐☐	☐☐☐☐☐	☐☐☐☐☐	☐	☐☐☐☐☐	☐☐	☐☐
……	☐☐	☐	☐	☐☐☐☐☐☐	☐☐☐☐☐☐	☐	☐	☐☐☐☐☐☐	☐☐☐☐☐☐	☐☐☐☐☐	☐☐☐☐☐	☐	☐☐☐☐☐	☐☐	☐☐

Use of farm inputs (Col 20&24)

For the whole crop.....1
3/4 of the wholrecrop.....2
1/2 of tyhe whole crop.....3
1/4 ofd the whole crop.....4
Under 1/4 of the whole crop...5
Not used 6

Quantity (Col 21&25)

Kig 1
Litre.....2
Gram.....3
Millilitre.....6

Main Storage mechanisms (Col 30)

Locall storage facilities.....1
Improved Local storage facilitiies 2
Modern store.....3
Open drums/sacks.. 4
Cealed drums.....5
In heaps.....O.....6
not Stored.....7
Other means ()Specify.....8

Where the crop was sold(Col 32)

Neighbours.....01 Private Businessman.....08
Open markets. .....02 Contract farming.....09
Auctions.....03 Not sold.....10
Main Market.....04 Others 98
Cooperative Union….05
Farmers Association..06
Large Scale farm.....07

Marketing problems (Col 33)

Very low prices.....01 No problem 11
No transport.....02 Others (Specify 98
High transport costs.....03 Not applicable 99
Lack of crop buyers 04
Markets located far away ..05
Problems with farmers Associations 06
Probloems with cooperative Unions 7
Problems with Businessmen Association ...8
Strigent Government Conditions ...9

Definitions and working page for page 5

Storage (Col. 30, Q 5.1.1):
- **Traditionally Made strcutures:** The design of storage structures villagers have inherited from forefathers .
- **Improved Traditionally made structures:** The design of tradional storagesrutures improved through modern technology.

Marketing Challenges Q 5.1.1 Col. 33:

- **Farmers' Association:** Village farmers who came together and started an association for the puporses of purchasing inputs/selling/storage of crops aiiming at fetching better prices.
- **Cooperative Union:** A large inter-village/community set up in the district/ region or at national level for providing inputs, markets and storage of farmers' crops.
- **Government Regulatory laws for crops marketing:** Government instituted laws for regulating transportation and selling of crops.

Inputs (Q 5.1.1)

Farm Yard Manure: An organics fertliser made on farm from animal dung. .
Compost: An organic fertiliser made on farm from decomposed plant materials.
Insectcides: This is the chemical usde in protecting plants or killing pests.
Fungicides: Protects plants from fungi attack.
Herbicide: Chemicals used to control or kills weeds.
Improved seeds: Scientifically attested to be suitable for agricultural use.

Questions specific definitions

Q 5.1.1. Instructions on crops storage:
1. For the listed crops establish whether or not the household stored crops for 2007/2008 agricultural season.

2. For the listed crops give explanations on storage.

Crops storage is keeping/reserving crops in a container or a special place for future use.

Q 5.1.1 Col 31
1. For each of crops listed indicate major marketing problems for 2007/2008 agricultural season.

Working area/calculation space

Definitions and working page for page 6

Working table for the calculation area for annual mixed crops

Mixed crops 1	Crop Name	Total area of mixed (acre)	Area for plants (acre)	Total number of plants	Total area of plants (acre)
(a)	*(b)*	*(c)*	*(d)*	*(e)*	*(f)=(d)*(e)*
Permanent crop 1			0.000		0.
Permanent crop 2			0.000		0.
Permanent crop 3			0.000		0.
Permanent crop 4			0.000		0.
			Total area for permanent crops		0.
Total Area for mixed crops					
The remaining area for temp crops					.

	% of temporary	Area for permanent crop
Name of the crop temp/permanent 1		.
Name of the crop temp/permanent 2		.
Name of the crop temp/permanent 3		.
Check total area .	Check total area for temporary crops	.

Mazao mchanganyiko 2	Name of plant	Total area mix (acre)	Area for the plant (acre)	Total of plants	Total area for plants (acre)
(a)	*(b)*	*(c)*	*(d)*	*(e)*	*(f)=(d)*(e)*
Permanent crop 1			0.000		0.
Permanent crop 2			0.000		0.
Permanent crop 3			0.000		0.
Permanent crop 4			0.000		0.
			Total area for permanent crops		0.
Total area for mixed crops					
The remaining area for temp crops					.

	% of temporary	Area for temporary crop
Name of the crop temp/permanent 1		.
Name of the crop temp/permanent 2		.
Name of the crop temp/permanent 3		.
Check total area .	Check total area for temporary crops	.

Planted Area: Area in acre the household was able to plant
Harvested Area: Area in acre the household was able to harvest a large portion of harvests. this is the same as the area planted minus the area that was destroyed by floods/ pets /

Temporary/Annual Crops
Crops planted and harvested within 12 months after which time the plants die . Most annual crops are planted and harvested on a seasonal base.

Cash crop codes:

Code	Crop
50	Cotton
51	Tobacco
53	Payrethrum
62	Jute
19	Seaweed

Crop Codes(Creal / Tubers/ Roots:

Code	Crop
11	Maizei
12	Paddy
13	Sorghum
14	Buirush Millet
15	Finger Millet
16	Wheat
17	Barley
22	Sweet Potatoes
23	Irish Potatyoes
24	Yams
25	Cocoyamsi
26	Onions
27	Gingeri

Vegetable Codes:

Code	Crop
86	Cabbage
87	Tomatoes
88	Spinach
89	Carrot
90	Chillies
91	Amaranths
92	Pumpkin
93	Cucumber
94	Egg plant
95	Water mellon
96	Cauliflower
06	Melllon
05	nyanyachungu
02	Ocra
03	Radish
01	Green Beans
04	Bizari

Crop Codes Legumes and Oil

Code	Crop
31	Beans
32	Cowpeas
33	Green Gram
34	Chick Peas
35	Dengu
36	Bambara nuts
37	Njegere
41	Sun flower
42	Simsim
43	Ground uts
47	Soya beans
48	Caster Seed

Instructions for calculating the area of mixed crops in a mixture

A. If the mixed crop is mixed annual ly only enter the total area of the field in the remaining area under temporary Crop and go to step one of these instructions

B. If the mixed crop is mixed permanent and annual try to work tyhe percent age taken by the different crops and calcualet the area of annual crops outlined in step 1. Otherwise use the number of trees method to calculate the area of annula crops in the mix.

C: Number of trees method to calculate annual crop areas in a permanent-annual crop mix.:

(i) List each of tyhe permanent crop in collumn **b** and enter the ground area per acre for each permanent crop (from instrcutions for page 8) in colum d.

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

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

iv) To obatin the area for tempofrary crops , substract **(-)** the area fro permanent crops from thne total area of crop mix and enter the resulst in in the total area under temporary crops.

(v) Proceed to step 1 to calculate the area under each temporary crop.

1. Enter the name of each temporary crop in tyhe crop mix and estimate percentages of each crop**.**

2. Using the percentage for each crop, calculate the are for each crop from the remaining area under tenmporary crop.

3. After completing the exrcise for all the fields, sum the area of each crop in tyhe mix plus any monocrops and uenter the totals in section 5.1.1 Collumn 3.

4. Once the quantity harvested is obtained , cakIculate the yields (metric tonnes/acre) and compare the figures with the norms given in the crops code box. If there is significantly differentce, check the area and the amouint harvested..

5.3 PERMANENT/PERENNIAL CROPS AND FRUIT TREE PRODUCTION

Identification

Does your household have any permanent/perennial crops or fruit trees Yes =1, No = 2, (If answer is NO proceed to Section 6.0)

5.3.1 Give details on permanent/perennial crops or fruit trees

		Production Section				Farm inputs									
		Monocrops	Mixed crops		Main crop owner: Enetr the number of the hh member from page 2 on information for hh	Uses of seeds					Irrigation	Uses of Fertilisers (If 6 is the answer in col 13 proceed to col. 17)			
Name of permanent/perennial crop	crop code of permanent / perennial crop/fruit trees	Area for trees/seedling/branch/bushes	Are for mixed crops (Acre)	Number of Tplants/ trees in the crop mixh of permanent and perennial crop		Type of planted seeds	Cultivated area	Size: Quantity	Size: Used	Cost (Ths)		Area used	The type of fertiliser used	Quantity of fertiliser (kg)	Cost (Ths)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
.....															
.....															
.....															
.....															
.....															
.....															
.....															
.....															
.....															

Type of seed planted (Col 7)
Local seeds.....1
Improved seeds.....2
Dont't know/ Not applicable...3

Main crop owner (Col 6):
nter the number of the hh member from page 2 on information for hh members in Q 3

Area cultivated (col. 8)
For the whole crop.....1
3/4 of the whole crop.....2
1/2 of tyhe whole crop.....3
1/4 ofd the whole crop.....4
Under 1/4 of the whole crop...

Qunatity (Col 9)
Kg 1
Seedlings....2
Gram.....3

Use of farm inputs (Col 12 & 13)
For the whole crop.....1
3/4 of the wholrecrop.....2
1/2 of tyhe whole crop.....3
1/4 ofd the whole crop.....4
Under 1/4 of the whole crop...5
Not used 6

Type of fertilsers (Col 14)
Organic fertiliser... 1

5.3 PERMANENT/PERENNIAL CROPS AND FRUIT TREE PRODUCTION CONTINUED ….. Identification

5.3.1 Give details on permanent/perennial crops or fruit trees during 2007/08 agricultural year

Name of crop	Crop code	Uses of weeds control chemical (If 6 is the naswer in col 17 Proceed to col 21)				Use of fungicides (If 6 is the answer in col 20 proceed to col 24)				Use of pesticides (If 6 is the answer in col 25 proceed to col 29)				Crop harvesting and storage					Marketing	
		Area used	Size		Cost	Area used	Size		Cost	Area used	Size		Cost	Harvested area (acre)	Quantity of mature plants	Quantity harvested (kg)	Quantity stored (kg)	Njia Kuu ya kuhifadhi	Quantity sold (kg)	Main marketing problem
			Quantity	Used			Quantity	Used			Quantity	Used								
(1)	(2)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)

Area used (Col 20&24)
For the whole crop……..1
3/4 of the wholrecrop…… ……2
1/2 of tyhe whole crop…… … …3
1/4 ofd the whole crop…… … …4
Under 1/4 of the whole crop…5

Main Storage mechanisms (Col 33)
Locall storage facilities… … … … … … …1
Improved Local storage facilitiiies ……..2
Modern store… …… … … … … ……. …3
Open drums/sacks…… ……. …4
Cealed drums…. ……. … … … …5
In heaps……6
not Stored……7
Other means ()Specify…… … … … … …..8

Marketing problems (Col 35)
Very low prices……..01 No problem ……..11
No transport……..02 Others (Specify ……..98
High transport costs……..03 Not applicable ……99
Lack of crop buyers ……..04
Markets located far away ..05
Problems with farmers Associations 06
Probloems with cooperative Unions ….7
Problems with Businessmen Association …8
Strigent Government Conditions …9

Quantity (Col 18, 22, & 26)
Kig … … .1
Litre……..2
Gram… …3
Millilitre… …6

Definitions and working page for page 7

Storage (Col. 30, Q 5.2.1):
- **Traditionally Made strcutures:** The design of storage structures villagers have inherited from forefathers .
- **Improved Traditionally made structures:** The design of tradional storagesrutures improved through modern technology.

Marketing Challenges Q 5.2.1 Col. 33:

- **Farmers' Association:** Village farmers who came together and started an association for the puporses of purchasing inputs/selling/storage of crops aiiming at fetching better prices.
- **Cooperative Union:** A large inter-village/community set up in the district/ region or at national level for providing inputs, markets and storage of farmers' crops.
- **Government Regulatory laws for crops marketing:** Government instituted laws for regulating transportation and selling of crops.

Inputs (Q 5.2.1)

Farm Yard Manure: An organics fertliser made on farm from animal dung. .
Compost: An organic fertiliser made on farm from decomposed plant materials.
Insectcides: This is the chemical usde in protecting plants or killing pests.
Fungicides: Protects plants from fungi attack.
Herbicide: Chemicals used to control or kills weeds.
Improved seeds: Scientifically attested to be suitable for agricultural use.

Working area/calculation space

Questions specific definitions

Q 5.2.1. Instructions on crops storage:
1. For the listed crops establish whether or not the household stored crops for 2007/2008 agricultural season.

2. For the listed crops give explanations on storage.

Crops storage is keeping/reserving crops in a container or a special place for future use.

Q 5.2.1 Col 33
1. For each of crops listed indicate major marketing problems for 2007/2008 agricultural season.

Definitions and working page for page 8

Permanent Crops:
These are crops once planted last longer in the farm and need not be replanted after each annual harvest. Most of the permanent plants include tress such as coconut tress, apple trees, grape trees, banana trees, pineapple trees etc.

Number of Trees:
These include manure trees and premature trees.

Number of mature plants:
A total of fruit bearing tress (e.g. mango trees, orange trees, avocado trees e.t.c).

Instructions for permanent monocrops and crop mix:
A. For a field with permanent monocrop enter farm size in collumn. 3.
B. For a field with a permanent crop mix or a temporary crop mix, enter the number of trees only in collumn **4**.
C. For a field with a permanent crop mix /temporary annual crops , either:
-Enter the area in collumn 4, if the total arae for permanent crops was obatined through calcualtion of percentages of each crop
OR
Enter the number of tree in collumn 5, if the number of plants/ seedlings of permanent crops was excluded

21 Cassava: Cassava is a temporary crop, in order to simplify data collection on areas of production, data on cassava will be collected from areas under permanent crops.

Permanent crops:(crop oils)

Code	Crop	Area per crop
44	Palm Trees	0.00049
45	Coconut tree	0.00037
46	Cashew nut tress	0.00062

Permanent crops (Cash crops)

Code	Crop	Area per crop
53	Sisal	0.00012
54	Coffee	0.00049
55	Tea	0.00037
56	Cocoa	0.00049
57	Rubber	0.00099
58	Wattle	0.00099
59	Kapok	0.00124
60	Sugar-cane	0.00012
61	Cardamon	0.00049
63	Tamarin	0.00099
64	Cinarmon	0.00124
65	Nutmeg	0.00099
66	Clove	0.00074
18	Black pepper	0.00037
34	Pigeon Peas	0.00025
21	Cassava	0.00019
75	Pineapple	0.00006
86	Lemon Grass	

Permanent crops:

Code	Crop	Area per crop
70	Passion Fruit	0.00074
71	Bananas	0.00037
72	Avocado	0.00099
73	Mango	0.00099
74	Pawpaw	0.00037
76	Orange	0.00074
77	Grape fruit	0.00074
78	Grape	0.00012
79	Mandarin	0.00074
80	Guava .	0.00074
81	Plums	0.00074
82	Apples	0.00074
83	Peaches	0.00074
84	**Mifyoksi**	0.00074
85	Lime/lemon	0.00074
68	Pomelo	0.00099
69	Jack Fruit	0.00074
97	Durian	0.00074
98	Bilimbi	0.00074
99	Rambutan	0.00074
67	Bread Fruit	0.00099
38	Malay apple	0.00074
39	Star Fruit (Sakua)	0.00074

Definitions and working page for page 9

Storage (Col. 33, Q 5.3.1):
- **Traditionally Made strcutures:** The design of storage structures villagers have inherited from forefathers .
- **Improved Traditionally made structures:** The design of tradional storagesrutures improved through modern technology.

Marketing Challenges Q 5.3.1 Col. 35:

- **Farmers' Association:** Village farmers who came together and started an association for the puporses of purchasing inputs/selling/storage of crops aiiming at fetching better prices.
- **Cooperative Union:** A large inter-village/community set up in the district/ region or at national level for providing inputs, markets and storage of farmers' crops.
- **Government Regulatory laws for crops marketing:** Government instituted laws for regulating transportation and selling of crops.

Inputs (Q 5.3.1)

Farm Yard Manure: An organics fertliser made on farm from animal dung. .
Compost: An organic fertiliser made on farm from decomposed plant materials.
Insectcides: This is the chemical usde in protecting plants or killing pests.
Fungicides: Protects plants from fungi attack.
Herbicide: Chemicals used to control or kills weeds.
Improved seeds: Scientifically attested to be suitable for agricultural use.

Questions specific definitions

Q 5.3.1. Instructions on crops storage:
1. For the listed crops establish whether or not the household stored crops for 2007/2008 agricultural season.

2. For the listed crops give explanations on storage.

Q 5.3.1 Col 35
1. For each of crops listed indicate major marketing problems for 2007/2008 agricultural season.

Working area/calculation space

Definitions and working page for page 10

Investment in agriculture
Investment activities:
Investment activities refer to medium to long term farm development structures and projects. This can be irrigation structures, erosion conrol and water harvesting structures or other permanent or semi-permanent investment made on the land that the household owns.

Irrigated farming: Section 6.5:
Source of irrigation water (Col 1): The main source of the water used for irrigation.
Method of obtaining water (Col 2): The mechanism by which the water is extracted from the source
Irrigatable area (Col 3): The area the irrigation system is designed to cover in acrage
Area of irrigated land during the 2007/08 (Col 5): Area of land under irrigation during the 2007/08 agricultural year. This is the actual area nd NOT the cumulative areas recultivated in 2 or more cropping seasons.

Farm Implements (Col. 1):

Machette : Includea all implements use in tree cutting namely cicle, et.c.

Sprimkler: The pump carrued on the back or a hand used water pump
Hand used small tractor: A small tractor used in cultivation while the user walks on foot (see photo).

Section 6.2 Use of draft animals
Animals used in agricultural activities by the household during 2007/08 agricultural season.

Castrated Bulls: Castrated oxen meant for use in agricultural production.
Uncastrated Bulls: mature bulls used for garicultrural activities but are not castrated**.**
Cow: Farmers also use mature female cattle in agricultural activities due to shortage of bulls
Donkey: Mature Male or female donekys are also used for agricultural production.

Q 6.5 Irrigation.
1. If a household uses irrigated farming give explanations aon source and method of obatining water**.** .
2. **See Col** 10, Q. 5.1.1 and 5.2.1 and **Col** 12, Q 5.3.1 to see if irrigation was applied to any crop.

Farm implements, Q 6.1:
1. Collumn **2** Indicate whether or not inputs were used
2. Complete collumn 3 by entering the number of inputs used.

Farm inputs: Sections 6.3 and 6.4

1. Collumn **2** Indicate whether or not inputs were used.
2. Compelte collumn 3 by indicating where the inouts were obatined and collumn 4 by indicating the distance from where the inputs were obatined

Compost: An organic fertiliser made on farm from decomposed plant materials.
Insectcides: This is the chemical usde in protecting plants or killing pests.
Fungicides: Protects plants from fungi attack.
Herbicide: Chemicals used to control or kills weeds.
Improved seeds: Scientifically attested to be suitable for agricultural use.

Tractor tiller		
Tractor hallow		
Castrated bulls		
Uncastrated bulls		
Cows		
Donkeys		
Shredding Machine		
Power Tiller		
Oxen pulled plough for making terraces		

6.2.6	Power Tiller			

6.3 USE OF ORGANIC FERTILISERS

6.3.1 Give details on the use of organic fertlisers during 2007/08 agriculture year

	Type of fertiliser	Used Yes=1, No=2	Quantity	Quantity used	Area used (Acre)
	(1)	(2)	(3)	(4)	(5)
6.3.2	Manure				
6.3.3	Compost				

ACCES TO INPUTS

Give details on inputs used during 2007/08 agricultural year

Name of inputs	Used (Yes=1, No=2)	Source	Distance
(1)	(2)	(3)	(4)
Inorganic fertilisers			
Farm yard manure			
Compost			
Insecticides/Fungicide			
Pest and weeds control chemicals			
Improved seeds			

Source (Col.3)
Government….....01
Cooperative Union….. ...02
Farm inputs store/market.....03
Auction.....04
Development project…….....05
Corp buyers….....06
Large Scake farms….....07
Made by the household.....08
Form neighbour.....09
Cooperative Union…….....10
Others ....…….....98
Not applicable.....99

KQuantity (Col 3)
Kg.....1
Ton…….....2

Distance from the source (Cola 4)
Under 1 kilometre…….....1
Btween One and three kilometres 2
Btween three and 10 killometres3
Between 10 and 20 Kilometres 4
Over 20 Kilometres.....5
Not applicable.....9

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

IRRIGATED FARMING

Did the household use irrigated farming during 2007/08 agriculture year? Yes=1, No = 2

If the answer is yes proceed to Section 6.6

Na.	Main source of water for irrigation	Main source of obtaining water	Area that can be irrigated (Acre)	Area irrigated during 2007/08 agriculture year (Acre)
	(1)	(2)	(3)	(4)
6.5.2				

Means of obtaining water(C0l2)
Flwoing. (gravity)……...1
Using a bucket…….....2
Water pump (using hand or leg)……...3
Electric /fuel driven pump/ mafuta……..4
Other (Specify)……..……..8

Definitions and working page for page 11

Q 6.6

The type of erosion contro/Water harvesting (Col 1)
Terraces: Structures constructed on mountain slopes to provide flat terrain for crop planting.

Erosion control bunds: these are bunks of earth/stones built perpendicular to the slope to slow dowm the speed of water and thus preventing soil erosion. Its differs from terraces in that the soils on these banks are not at ground level **.**

Gabions: A box like structure made of wire and filled with large stones to prevent gully errosion.

Sand bags: Are used in controlling and preventing gully errosion
Tree belt/wind breaks: Trees planted against the wind direction for breaking wind speed..

Section 7.0 Acces to credit for crop or livestock production
Credit refers to something provided in cash or in kind (such as farm inputs, machines, livestock and other things) for crop or livestock production. The value of the credit must be repaid back to the lender. An Interest may or may not be attached to the value of the credit
The credit may be repaid either in cash or through farm produce to be harvested **.**

In this question the enumerator is at liberty to inquire up to three sources of credit where the farmer accessed credit from more than one source.

Section 8.0 Agricultural Extension Services
Agricultural Extension Services: Refers to educational services provided to farmers by exetsion officers for the purposes of increasing crop and livestock production.

Share-cropping: Refers to farming where smallholder / Smallscale farmer enters into an agreement with large scale farmer where the former sells produce to the latter in exchange of provisions of farm inputs and the like. .

Contract farming Farming: Farming agreement entered between smallscale and large scale farmerswith regards to markets of farm produce and provision of farm inputs

Q 6.6 Number of water harvestin structures and year of construction

1. The number water haversting structures refers to the number of wokring / maintained structures and does not include derelict or iireparable structures.

2. Year of construction refers to the year in which the structures were built, and not the year the structures were last repaired.The year should be written in figures e.g. 1998, 2006.

Section 7.0 Source of agriculture credit
If tghe farmer obtained credit from more than one source the use the code from the list provided. Start with the main source of credit in Section **"7.1.1".a**

Section 8.0 Agricultural extension services

1. Ask if the household did receive agricultural extension services during 2007/08 agricultural season from the respondents listed in collumn 1, then enter column 2.

2. Complete all columns for every extension officer**.**

6.6 SOIL EROSION Identification

6.6.1 Did the household experience soil erosion during 2007/08 agriculture year? *(Yes=1,No=2)*

6.6.2 Did the household applied any methods for erosion contro/water harvesting during 2007/08 agricultural year? (Yes=1, No =2) (If the answer is No, Proceed to Section *7.0)*

Na.	Mechanisms of controlling erosion/ Water harvesting	Number of water harvesting	Year of construction
	(1)	*(2)*	*(3)*
6.6.3	Terraces		
6.6.4	Bunks for erosion control		
6.6.5	Gabions/sand bags		
6.6.6	Vetiva leaves		

	Type of erosion control/water harvesting	Number of water harvesting	Year of construction
	(1)	*(2)*	*(3)*
6.6.7	Tree belt		
6.6.8	Soil bunks of water harvesting		
6.6.9	Trenches		
6.6.10	Other		

7.0 ACCESS TO ON FARM CREDITS

7.1 Is there any household member who accessed on farm credit during 2007/08 agriculture year? Yes=1, No=2 (If answer is NO, Proceed to Section *7.2)*

SELECT UP TO THREE SOURCES AND PROCEED TO QUESTIONA 8.0

(Source of credit Q 7.1.1, 7.1.2, 7.1.3)
Relative..... 1 Saccos....4 NGO/Development projectsi.....7
Bank... .....2 Busineman/Shop.....5
Cooperative Union.....3 Priviate individuaks.....6 Other.....9

		1st	2nd	3rd
Source of credit		7.1.1a	7.1.2a	7.1.3a
Credit provided to (Male=1, Female=2)		7.1.1b	7.1.2b	7.1.3b

7.2 IF THE ANSWER TO QUESTION 7.1 IS NO

Give reasons for not accessing credit

Reasons for not accessing credit (Q 7.2)COL
Not required .....1 Did not to be indebted.....3 Did nott know how to access credit.....5 Credit delayed.....7 Did not credit existed.....9
Not available .....2 High interest rates.....4 Bureaucracy.....6 Other (Specify).....8

8.0 ADVISORY SERVICES IN AGRICULTURE

8.1 Did the household participate in outgrowers scheme during 2007/08 agriculture year? (Yes=1, No=2)

8.2 Did the household participate in the contract farming during 2007/08 agriculture year? (Yes=1, No=2)

8.3 Did your household receive agricultural advise on the following : *(IF THE ANSWER IS NO IN COL 2 PROCEED TO THE FOLLOWING QUESTION*

Na.	Advise on agriculture	Rceived advice (Yes=1, No=2)	Source of advise
	(1)	(2)	(3)
8.3.1	Spacing		
8.3.2	Use of agrochemicals		
8.3.3	Soil erosion control		
8.3.4	Use of organic manure		
8.3.5	Matumizi ya mbolea za viwandani		
8.3.6	Use of improved seeds		
8.3.7	Use of modern farm implements		
8.3.8	Irrigation		
8.3.9	Crop Storage		
8.3.10	Pest control		
8.3.11	Other (Specify)		

Source of agricultural advice (Cokl. 3)
Government.....1 NGO/Development project.....2 Cooperative....3 Large Scale farmer....4 Ratdio/Newspapers....5 Neighbour .....6 Other source.....8

Definitions and working page for page 12

Q 9.1 and 9.3 : What is required is to establish whether or not the household kept or raised the listed livetsock during 2007/08 agricultural season (i.e. from October 2007 to September 2008). Also to establish the number of livestock as of 1st October 2008

Keeping or raising livestock is to to keep livestock at home while providing the livestock with animal feeds and medication and other services. The livestock could be owned by the farmer or kept on behalf of relatives or neighbours .

Sections 9.1.1 to 9.1.7 Cattle

Note:
Q 9.1 is for the actual number of cattle owned or kept by the household (as of 1st October 2008). This number does not include herds of cattle kept on behalf by relatives or neighbours; that is, the cattle outside the residential area of the household under survey.
1. If the the household keep mature fecund female cattle, it is expected that such a household will have calves which will be entered in question 9.1.6 or 9.1.7

Type of cattle (sectioin 9.1.1 to 9.1.7)

Bull: Mature uncastrated made cattle used for breeding
Cow: Mature female cattle that has given birth at least once

Ox: Castrated made cattle used for farm work

Steer: Castrated made cattle used for meat

Heifer: Female cattle of 1 year up to the first calving

Section 9.3 Goat
Note:
Question 9.3 is for the actual number of owned or raised by the household (as of 1st October 2008) This number does not include goats kept on behalf by relatives or neighbours, that is the goat outside the residential area of the household under survey.

1. If the household has she goats, you would normally expect them to have kids

Type of Goat (Qs 9.3.1 to 9.3.5)

Billy Goat (he-goat): Mature Uncastrated male goat used for breeding
Castrated goat: Male goat that has been castrated
She Goat: Mature female goat over 9 months of age

9.0 LIVESTOCK (LIVESTOCK AND FISH) Identification

9.1 CATTLE

Did your household keep or raise cattle during 2007/08 agriculture year? Yes=1, No= 2 (If the answer is No proceed to Section 9.3)

Number of cattle as of 1.10.2008

No.	Type of cattle	Number of indigenous cattle (2)	Number of improved cattle: for meat (3)	Number of improved cattle: Dairy (4)	Total (5)
9.1.1	Castrated bulls				
9.1.2	uncastrated bulls				
9.1.3	Cows				
9.1.4	Steers				
9.1.5	Heifer				
9.1.6	Male calves				
9.1.7	Female calves				
	Grand total				

9.1.8 What main methods do you use to identify your cattle?

Cattle idenfificatio methods
Iron stamp (chapa moto).....1 Throat....2 Ear/tail cutting.....3
Colour.....4 Earings...5 Other 8

9.2 Milk production: CATTLE

Na.	Season (1)	Type of cattle (2)	Number of milked cows (3)	Average of milk per cow per day (litre) (4)	Average number of days which your cows were milked (5)	Average price per litre per season (6)
9.2.1	Rainy	Improved		.		
9.2.2		Indigenous		.		
9.2.3	Dry	Improved		.		
9.2.4		Indigenous		.		

9.3 GOAT

Did your household keep or raise cattle during 2007/08 agriculture year? Yes=1, No= 2 (If the answer is No proceed to Section 9.3)

Number of goats as of 1.10.2008

Na.	Tyep of goat (1)	Number of indigenous goat (2)	Number of improved: for meat (3)	Number of improved: Dairy (4)	Total (5)
9.3.1	Male uncastrated goat				
9.3.2	Male castrated goat				
9.3.3	She goat				
9.3.4	Male kid				
9.3.5	She kid				
	Grand total				

Milk Production: GOAT

Na.	Season (1)	Number of ilked goats (2)	Average of milk per goat per day (litre) (3)	Average number of days which your she goats were milked (4)	Average price per litre per season (5)
9.3.6	Rainy		.		
9.3.7	Dry		.		

Definitions and working page for page 13

Q 9.1 and 9.3 : What is required is to establish whether or not the household kept or raised the listed livetsock during 2007/08 agricultural season (i.e. from October 2007 to September 2008). Also to establish the number of livestock as of 1st October 2008

Keeping or raising livestock is to to keep livestock at home while providing the livestock with animal feeds and medication and other services. The livestock could be owned by the farmer or kept on behalf of relatives or neighbours .

Sections 9.4 Sheep

Note:
Q 9.4 is for the actual number of sheep owned or kept by the household (as of 1st October 2008). This number does not include sheep kept on behalf by relatives or neighbours; that is, the sheep outside the residential area of the household under survey.

1. If the the household keep ewes, it is expected that such a household will have calves which will be entered in question 9.1.6 or 9.1.7

Type of Sheepe (Sectioin 9.4.1 to 9.4.5)

Ram: Mature Uncastrated male sheept used for breeding

Castrated sheep: Male sheep that has been castrated

Ewe: Mature female sheep over 9 months of age

Lamb: Young sheep under 9 months of age.

Section 9.5 Pigs
Note:
Question 9.3 is for the actual number of pigs owned or raised by the household (as of 1st October 2008). This number does not include pigs kept on behalf by relatives or neighbours, that is the cattle outside the residential area of the household under survey. .

1. If the household has she goats, you would normally expect them to have kids in column

Type of Pigs (Qs 9.5.1 to 9.5.5)

Boar: Mature Uncastrated male pig used for breeing
Sow: Mature female pig that has given birth to at least one ltter of pigs.
Gilt; Female pig of over 3 months up to the first farrowing
Piglet: Young pig less than 3 months of age

Identification

9.4 SHEEP

Did your household keep or raise cattle during 2007/08 agriculture year? Yes=1, No 2 (If the answer is No proceed to Section 9.5)

Number of sheep as of 1.10.2008

Na.	Type of sheep	Number of indigenous sheep	Number of improved	Total
	(1)	(2)	(3)	(5)
9.4.1	Ram			
9.4.2	Castrated sheep			
9.4.3	She sheep			
9.4.4	Male lamb			
9.4.5	Female lamb			
	Grand total			

9.5 PIGS

Did your household keep or raise cattle during 2007/08 agriculture year? Yes=1, No= 2 (If the answer is No proceed to Section 9.6)

Number of pigsp as of 1.10.2008

Na.	Type Pigs	Number of pigs
	(1)	(2)
9.5.1	Boar	
9.5.2	Castrated male	
9.5.3	Sow/Gilt	
9.5.4	Male piglet	
9.5.5	Female piglet	
	Grand total	

9.6 OTHER LIVESTOCK

	Type of animal	Number as of 1 October 2008	Number of eggs 2007/08 agriculture year
	(1)	(2)	(3)
9.6.1	Local chicken		
9.6.2	Layers		
9.6.3	Broilers		
9.6.4	Ducks		
9.6.5	Guinea pigs		

	Type of animal	Number as of 1 October 2008	Number of Eggs 2007/08 agriculture year
	1	(2)	(3)
9.6.6	Turkeys		
9.6.7	Rabbit		
9.6.8	Donkeys		
9.6.9	Horses		
9.6.10	Dogs		

Definitions and working page for page 14

Control of livestock dieases causing bugs

Livestock worm control medicine: Medicine used to kill or control livestock on livestock . It is often used for cattle, goats, sheep and pigs.

Tiick: Is a dangerous bug that sucks blood form livestock and transmits animals diseases from one to the other animal.

Tse tse fly: A fly like bug that sucks blood from livetsock and transmits diseases sleewping sickness from one to the other animal.

Livestock advice (Section 9.8)
IA service provided by extension officers to livestock keepers for increasing livestock production.

9.7 LIVESTOCK DISEASES AND PEST CONTROL

Identificatio

	Did you livestock during 2007/08 agriculture year? (Yes=1, No=2) (If the answer is No proceed to Section 9.7.5	
9.7.1	Which animals did your deworm? (Yes=1,No =2, Not applicable=3 in the relevant box) Cattle **9.7.2** Goat/Sheep **9.7.3** Pigs **9.7.4** Poutry	
9.7.5	Do you experience tick problem with your livestock? (Yes =1, No = 2, Not applicable 3)	
9.7.6	How did you control tick problem? *Control method (Q. 9.7.6): Dipping……1 Spaying……2 Application of medicine on back bone……3 None..4 ..... Other……8*	
9.7.7	Do you experience Tse tse problem with your livestock? (Yes =1, No = 2, Not applicable 3)	
9.7.8	How did you control Tse tse problem with your livestock? *Control method (Q. 9.7.8): Dipping……1 Spaying……2 Traps……3 None..4 ..... Other……8*	
9.7.9 9.7.7	Do you experience Newcastle disease problem with your poutry? (Yes =1, No = 2, Not applicable 3)	
9.7.10	How do you control Newcastle disease problem with your poutry? *Control/Curative methods (Q. 9.7.10) Vaccination..1 Herbs....2 None..3*	
9.7.11	Did you experience Fowl Typhoid with your poutry?Yes=1, No=2 , Not applicanblei=3	
9.7.12	How did you cotrol/ cure Fowl Typhoid with your poutry? *Contro/curative methods(Swali 9.7.12 Vaccination..1 Herbs....2 Noe.3*	
9.7.13	Were your cattle vaccinated agaionst the following diseases? (Yes = 1, No = 2, Not applicable=3). **9.7.13 A:** Foot and Mouth diseases **9.7.13B:** Skin disease	

NOTE : If answers to Qs *9.1 to 9.6 is No (THAIS THE HOUSEHOUSE DOES NOT RAISE LIVESTOCK,) Proceed to q 9.9*

9.8 Extenmsion services on livestock

Did you receive the following extension advice on the followingJe? *(IF THE ANSWER IS NO IN COL 2 PROCEED TO THE FOLLOWING QUESTION*

Na.	**Livestock extension advice**	Received Extension advice (Yes=1, No=2)	Soure of Extension
	(1)	(2)	(3)
9.8.1	Feed and better feeding methods		
9.8.2	Improved livestock shed (Goat, Dairy cattle, Poutry and pigs)		
9.8.3	Milking and hygiene		
9.8.4	Cattle fattening		
9.8.5	Livetsock diseases control		
9.8.6	Livestock keeping in line with land availability		
9.8.7	Pasture establsihment and maintanence		
9.8.8	Forming and strengthening groups/cooperatives		
9.8.9	Calf rearing		
9.8.10	Basics of production and use of improved bulls (AI)		
9.8.11	Animals feed production		
9.8.12	Other extension advice (Specify) ……		

Source of agriculture extesnion(S/wima 3)
SGovernment……1 NGO/Development project…..2 Cooperative Union….3 Large Scale farmer….4 Radio/TV/Newspapere.5 Neighbour……6 Other source …..8

Definitions and working page for page 15

General definitions

Fish farming: Refers to the rearing/production of fish. It is different from fishing in that in fish farming the fish have to be reared. While in fishing, fishing nets or traps are used to catch fish from rivers, lakes and the sea; thus fishing should not be included in this section

I

Question Specific Definitions (Q 9.9)

Production unit number (Col 1): A production unit is a pond river/lake which is treated as a separate entity for the production of fish eg it may be by virtue of manageable size, maturity of fish, tye of fish etc. eg. a farmer may have 3 fish ponds (each one is a separate production unit).

Frequency of stocking (Col . 5): What is the number of time the farmer puts new fingerlings into the pond each year.

Fingerlings: These are young immature fish used for stocking ponds.

Sols: (Col 10 & 11)

If no fish were sold enter "0" in column 10 and 11`

Fish sold (Col.12)

Kama hakuna samaki waliouzwa jaza "0" katika safuwima 12

Working space for page 15

9.9 FISH FARMING

Identification

Did your household practice fish farming? Yes=1, No=2 (*If the answer is no proceed to section 9.10)*

Give details on the fish farming during 2007/08 agriculture year

No.	Number of Ponds	Jina ya ufugaji	Square area of pond (m^2)	Source of fingerings	What is the frequency of stocking during the period?	Kiwango cha Huduma ya bwawa	Total number of stoked fish: Tialpia	Mwatiko	Crabs	Lulu	Total number of fish harvested	Total weight of all fish: waliovuliwa (kg)	waliouzwa (kg)	What is the main fish outlet?
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
9.9.1	1													
9.9.2	2													
9.9.3	3													

Type of farming (SCol 2)
Natural pond……..1
Small earth pond…….2
Large pond……..3
Other ……..8

Standard of servives to the pond (Col6)
High leve ……..1
Intermediate level……2
Low leve……3
Don't know……..8

Source of fingerings(Col 4)
From the pond……1 Neighbour…….4
Government……..2 Business man…..5
NGO/Development Project…3 Natural Pond……..6
Other ……..8

mainly sold to? (Col 14)
Neighbour…1 Auction……...3 Large Scale farmers……..5
Open market….2 Fish processing industry..4 Private business people ….6
Did not sell…….7 Other ……..8

9.10 HONEY PRODUCTION

Is there honey production/harvesting in your household? Yes=1, No=2 (If answer is no PROCEED to Section 9.11)

Give details on honery harvesting during 2007/08 agriculture year

Number	Type of honey	Harvesting done ? (Yes=1, No=2)	Number of improved bee hives	Number of local bee hives	Amount sold per year (Litre)	Amount of honey sold (litre)	Price per litre	Main market)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
9.10.1	Small bees							
9.10.2	Large bees							

Honey outlet Co 8
Neighbour…1 Auction……...3
Large Scale farmers……..5
Open market….2 Fish processing industry..4
Private business people ….6
Did not sell…….7

9.11 AGRICULURAL CHALLENGES

From the list of cahhalengs in farming on the right of the page, SELECT FIVE MAIN CHALLENGES WHICH constrain your development in agriculture

No	With first five priorities	Code
	(1)	(2)
9.11.1	Priority 1	
9.11.2	Priority 2	
9.11.3	Priority 3	

No	Important for	Code
	(1)	(2)
9.11.4	Priority 4	
9.11.5	Prioty 5	

LIST OF CHALLENGES

01 Land availability
02 Land owenership
03 Poor farm implementso
04 Soil fertility
05 Availability of imrpoved seeds
06 Irrigation services
07 Availability of agrochemicals
08 Cists of farm inputs
09 Extension services
10 Availability of forest resources
11 Huntinf and collection problems
12 Water availability
13 Access to credits
14 Lack of off farm incomes
15 Harvesting problems
16 Kupukuchua
17 Crop stiorage
18 Crop processing
19 Market information
20 High transporation costs
21 Destructive animals
22 Crop thefty
23 Pests and diseases
24 Advice from Local government
25 Long dry spells
26 Conflicts between livetsock keepera and pastoralists

Definitions and working page for page 16

10.0 Household poverty indicators

Number of rooms used for sleeping in the household (Q 10.1.4)
Include sitting room, during room, kitchen, etc if used for sleeping.

It also includes rooms outside the main dwelling

A room is defined as a space which is separate from the rest of the building by a permanent wall or division. A building / house that is not divided into rooms is considered to have one room.

Household assets (Q 10.2):
There assets must be functionin. Do not include if broken.

Access to drinking water (Q 10.4):
If there is more than one source use the one, which the hh uses most frequently.

Main source of hh cash income:(Q 10.7:
Activity that provides the hh with the most can during 2007/08 agricultural season.

10.0 POVERTY INDICATORS

Idetification

10.1 HOUSE CONSTRUCTION
Specify materials used in the construction of the following
sehemu zifuatazo

10.1.1 Roof **10.1.2** Floor **10.1.3 Wall**

Roofing materials
Iron sheets……..1
Tiles……..2
Concrete……3
Asbestos ….4
GrassiMakuti……..5
Grass and mud….6
Other …….. .8

Floor matrials
Earthen material……..1
Wood……..2
Wooden tiles…3
Tiles……..4
Cement……5
Other……..8

Main materials
Grass and pieces of woods……..1 Mud……..2
Wet bricks……3 Burnt bricks…4
Wood……..5 Block bricks……6
Stonese ……..7 Bricks /Mawe ya kichanga……8

10.1.4 Number of bedrooms

10.2 Household property
Does your houshold woen the following?, (Yeso=1 No =2)

Number	Property	Yes=1, No=2
	(1)	(2)
10.2.1	Radio (Radio, Radio Casette, music system)	
10.2.2	Land line	
10.2.3	Celkl phone	
10.2.4	Iron	
10.2.5	Trolley	
10.2.6	Bycicle	
10.2.7	Vehicle	
10.2.8	TV/ Video	
10.2.9	Refrigerator	
10.2.10	Motorbike/vespa	

10.3 Energy use and availability in the hsousehold

Main source of energy

10.3.1 Lightining 10.3.2 Cooking

Nishati za Kuangazia
Umeme……..01
Sola……..02
Gesi (biogas) ……03
Taa ya kandili……04
Karabai……..05
Kibatari……..06
Mishumaa……07
kuni……..08
Nyingine …….. 98

Nishati za kupikia
Umeme……..01
Sola……..02
Gesi (biogas) ……03
Gesi (Kiwandani)…..04
Mafuta ya taa……05
Mkaa……06
Kuni ……..07
Mabaki ya Mazao….08
Kinyesi cha
Wanyama……09
Nyingine ……..98

10.4 Availability of drinking water

	Season	Main source of water	Distance from source (km)	Time spent waitingor going to and from the source (Hours)
	(1)	(2)	(3)	(4)
10.4.1	Rainy			
10.4.2	Dry period			

Main sourece of drinking water
Col. 2
Tape water……..01 Water venders……..09
Arificial well……..02 Boozer……10
Arificial spring… ……..03 Bottled water……11
Openwell……04 Other (Specify)……98
Natural spring……..05
Lake water,piond,river,stream n etc……..06
Covered Rain water harvesting well..07

Note: *Code01,* ***Bomba*** *kwa Zanzibar hujulikana kama Mfereji*

10.5 Toilet facilities

10.5.1 What type of toilet does your hosuehold use?

Tyep of toilet
No toilet/in the buish……1 Pit latrine….4
Flash toilet……..2 Other type (Specify)……..8
Ordinal pit latrine……3

10.6 Eating patterns

10.6.1	**How many meals does your hosue usually get per day** ?	
10.6.2	How days did the household eat meat last week?	
10.6.3	How days did the household eat fish last week?	
10.6.4	How many times did the household experience food shortages last year?	

Food shortage problems
(Swali 10.6.4)
Never ……..1
Few times……..2
Sometimes……..3
Many times……4
Often……..5

10.7 Main source of household cash income?

10.7.1 What are the sources of household income?

Code for source of income
Selling food crops……..01 Sales of foerst products..05 Cash assisnatce…09
Sales of livestock……..02 Business……06 Fishingi……10
Sales of livestock products……03 Salaries……07 Other……98
Sales of cash crops…04 Casual labour……08 None……99

TIME OF FINISHING THE INTERVIEW Hour Minutes

Average/maximum yields per area

Use this table to compare the yields calculated in Sections 5.1, 5.2 and 5.3.

These stats are strictly to be used used as a guide for the purpose of assisting to get the correct area and yields for each crop.

	Name of Crop	Kilogram/ha		Kilogram/acre				Name of Crop	Kilogram/ha		Kilogram/acre	
		Average	Max	Average	Max				Average	Max	Average	Max
11	Maize	1,150	6,250	466	2,530		86	Cabbage	20,000	50,000	8,097	20,243
12	Paddy	700	4,000	283	1,619		87	Tomatoes	25,000	60,000	10,121	24,291
13	Sorghum	750	3,500	304	1,417		88	Spinach	15,000	17,000	6,073	6,883
14	Bulrush Millet	350	3,000	142	1,215		89	Carrot	25,000	30,000	10,121	12,146
15	Funger Millet	300	2,500	121	1,012		90	Pepper	3,500		1,417	0
16	Wheat	1,150	4,500	466	1,822		91	Amaranthus	20,000	40,000	8,097	16,194
17	Barley	1,400	1,800	567	729		92	Pumpkin	35,000	40,000	14,170	16,194
16	Cassava	3,000	7,000	1,215	2,834		93	Cucumber	5,000	10,000	2,024	4,049
17	Sweet potatoes	600	8,000	243	3,239		94	Egg plant	30,000	60,000	12,146	24,291
18	Irish potatoes	750	8,500	304	3,441		95	Water melon	10,000	20,000	4,049	8,097
19	Yams	4,000	10,000	466	1,822		96	Caouliflower	17,000	20,000	8,097	16,194
25	Coco yams	2,500	5,000	567	729		52	Cotton	800	25,000	14,170	16,194
26	Onions	30,000	50,000	1,215	2,834		54	Coffee	500	100	2,024	4,049
27	Ginger	20,000	30,000	243	3,239		55	Tea	2,500	10,000	12,146	24,291
31	Mahara Beans	400	1,300	304	3,441		56	Cocoa	150	1,000	4,049	8,097
32	Cow peas	300	1,750	121	709		57	Rubber	400	1,400	6,883	8,097
33	Green gram	1,500	1,800	1,012	2,024		58	Wattle			324	10,121
34	Pigeon peas	600	1,500	243	607		59	Kapok			0	0
35	Chick peas	500	1,500	202	607		60	Sugar cane	60,000	150,000	24,291	60,729
36	Bambara nuts	600	4,000	243	1,619		61	Cardamon	3,000		1,215	0
41	Sun flower	600	1,700	243	688		71	Banana	10,000	50,000	4,049	20,243
42	Simsim	300	1,000	121	405		72	Avocado			0	0
43	Gound nuts	600	4,000	243	1,619		73	Mango	10,000	25,000	4,049	10,121
47	Soyabeans	1,300	2,500	526	1,012		74	Pawpaw	50,000	70,000	20,243	28,340
48	Caster seeds	300	750	121	304		76	Orrage	15,000	40,000	6,073	16,194
75	Pineapple	25,000	60,000	10,121	24,291		77	Grape fruit	30,000	50,000	12,146	20,243
50	Cotton	300	1,500	121	607		78	Grapes	5,000	30,000	2,024	12,146
51	Tobacco	500	1,500	202	607		79	Mandarin	15,000	40,000	6,073	16,194
53	Pyrethrum			0	0		80	Quava	7,000	35,000	2,834	14,170
62	Jute	800	3,500	324	1,417		81	Plums			0	0
44	Palm oil	1,150	5,000	466	2,024		82	Tufaha		20,000	0	8,097
45	Cononut	1,500	8,000	607	3,239		83	Pea	15,000	27,000	6,073	10,931
46	Cashw nut	9	60/tree	4	24		84	Pitches	14,000	57,000	5,668	23,077
							66	Clove	4,500	5,000	1,772	1,969
								Black pepper	2,000	3,750		
								Mung'unye				
								Ocra	1,000	1,500		

Appendix V

Community Level Questionnaire

United Republic of Tanzania

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Village/Community Level Formats

Access to and Use of Community Resources

Farmg Gate Prices of commodoties produced by the village

Agricultural Sample Census 2007/2008

NUMBER OF FARMERS HH IN THE VIALLAGE
To be filled by the enumerator after completeing form ACLF2

NUMBER OF HH MEMBERS
To be filled by the enumerator after completeing form ACLF2

Region	.....			Ward	
District	.....			Village	

Enumerator Name _____ Signature _____

Date of Enumeration

d d / m m / m y y y y

Start Time

End Time

Hour	Minutes

Field level checking by:

District Supervisor	Name		Signature		Date / /
Regional Supervisor	Name		Signature		Date / /
National Supervisor	Name		Signature		Date / /

I To be filled by the supervisor ONLY after Field/farm level checking of the enumeration process. This should be countersigned by the Supervisor in front of the enumerator

Distric checking in Office

District Supervisor	Name		Signature		Date / /

All questionnaires must be checked at the district office.

For Use at Regional Level Only

Data entered by:	Name		Signature		Date / /
Queried	Name		Signature		Date / /

See the back page for details of queries

Ministry of Agriculturte and Food Security, Ministry of Livestock and Fisheries Development, Ministry of Agriculture and Environment of Zanzibar, Ministry of Water and Irrigation, Prime Ministers' Office Regional Adminstration and Local Government, Ministry of Industry Trade and Marketing, National Bureau of Statistics, and the Office of the Government Statistician General of Revolution Governemnet of Zanzibar

Definitions and working page for page 3

Question Specific Definitions:

Obtain answers to the following questions from the meeting between the enumerator and influencial farmers in the village Infuencial people can be Village Chairman, Village Governement Executive Officer, Councillor, Ward Chairman, Extension Officer in the village or any other person in the village and who is well informed about village matters. It is important to not that these questions must be asked in groups (of more than one people) to obtain answers discussed and approved by many people.

Definitions of some specific terms

Access to community resources. Section 1.0
Community Resources: Resources in which the hh members have no individual claim to and which are shared together by all the village
Community Land: The area officiall demarcated by the village as shared/public land.
Squatting farmers Land: Communal land where individual hhs make sole claim to (for crop farming or fenced livestock) without official rights to ownership.
Available remaining Land: Official area of communal land minus areas of squatting farners.
Givernment Land Reserve: Area set aside by the government as national reserve

Community tree planting scheme(Section 14.3)

Community Forest: A forest planted on the communal land which is planted, replanted or spt planted by the members of the village.

Plant Planting: An area designated by the village for planting a block of trees.

Spot Planted: Replanting an area where selective logging has been carried out. A tree is planted to replace the one that has been cut.

Indigeous Trees: Trees that are native to Tanzania

Exotic Trees: Trees that are not native to Tanzania

Non Government Organisation: Is managed by people from outside the village and it normally covers more than one village/District/Region. Its function is to provide deveoopment assistance to the farmer and is free from direct government links.

Village level organization: is managed by members of the village. Its purpose is normally to access/provide development assistance to the village

ACCESS TO COMMUNAL RESOURCES

1 ACCESS TO COMMUNITY RESOURCES

1.1 Does the village set aside an area for communal resources e.g. forest, grazing, etc. (Yes =1 No =2) ☐

(If the answer is no proceed to 1.2)

	Are of Comminity, Village, Wrad resources	Area in acre	
1.1.1	**Total area of communal land**	☐☐☐☐☐	Oficial figures from the leader
1.1.2	**Area of squatting famers in communal land**	☐☐☐☐☐	Key informant (Leader/Extension officer etc.)
1.1.3	**Remaining available communal land**	☐☐☐☐☐	Key informant (Leader/Extension officer etc.)
1.1.4	**Government reserve land**	☐☐☐☐☐	Key informant (Leader/Extension officer etc.)

1.2 UPATIKANAJI NA MATUMIZI YA MALIASILI ZA JUMUIYA/KIJIJI/SHEHIA

	Community Resources	Distance from the resource in Km -season Dry	Distance from the resource in Km -season Rainy	Main Use
	(1)	(2)	(3)	(4)
1.2.1	Water for human consumption	☐☐☐	☐☐☐	☐
1.2.2	Wtar for livestock	☐☐☐	☐☐☐	☐
1.2.3	Communal grazing land	☐☐☐	☐☐☐	☐
1.2.4	**Communal firewood**	☐☐☐	☐☐☐	☐
1.2.5	Wood for chracoal burning	☐☐☐	☐☐☐	☐
1.2.6	**Wood for building poles**	☐☐☐	☐☐☐	☐
1.2.7	Forest for bee keeping (honey)	☐☐☐	☐☐☐	☐
1.2.8	**Hunting**	☐☐☐	☐☐☐	☐
1.2.9	**Fishing**	☐☐☐	☐☐☐	☐

Instructions on distance from the resource (Cols 2 and 3):
Distance is estimated from the centre of the village.

If under1 km 1, enter 0
If abover 1 km 1 enter whole number , eg. 1.5km= 2km, 1.25km= 1km

Msin uses (Col. 4)
Home or farm /livetsock consumption...1
Sold to traders in the village.....2
Sold to the village market.....3
Sold to local wholesalers.....4
Sold to Big wholewsalers 5
Not available.....6

2.0 COMMUNITY PLANTED TREES

2.1 Didi your village have community planted trees during 2007/08 agriculture year? (Yeso=1, No=2) ☐

If the answer is no proceed to Section 3.0

Details of the community tree planting scheme

No.	Dustance from the community forest	Forest Area (acre)	Type of Pllanting	Type of Trees	Source of seeds/ Seedlings	Number of Years since the start of planting	Main uses 2007/08 agriculture year	Main uses of communal forest products
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
2.2	☐☐•☐	☐☐	☐	☐	☐	☐	☐	☐

Type of planting Col. 3)
POlantion planting…….1
Spot planting…. ……..2

Type of trees (Col. 4)
Indigenous tress……...1
Exotic tree……..2
Both types……...3

Source of seedlings (Col. 5)
Seeds collection and planting……...1
Villlage Nursery……..2
Department of Forestry……. ……3
Private Individuals…. ……..4

Main Uses (Col. 7)
Poles ……1
Wood ……..2
Charcoal ……3
Firewoodi ……..4
Other (Specify) 8

Main use of revenue (Col.8)
Village development fund.1
Household use……..2
Household ilcome…. ……..3

3.0 Non governmental Organisation (NGOs) Contact

3.1 Did any NGO visit the village during 2007/08 agriculture year? (Yes=1,No=2) (If no provceed to Section 4) ☐

Na.	Type of NGO	Visited Y=1,N=2	Number of visits	Distnatce to the Office (km)
3.2	Extension/ Rsearch	☐	☐☐	☐☐☐
3.3	Service /Input provision	☐	☐☐	☐☐☐
3.4	Community Development	☐	☐☐	☐☐☐
3.5	Other	☐	☐☐	☐☐☐

5.1 Did the village have Field farm schools during 2007/08,agriculture year? (Yes=1,No=2) ☐

5.3 Did the village have local ironsmiths during 2007/08 agriculture year? (Yes=1, No=2) (If the answer is 2 proceed to q. 5.5 ☐

5.4 Number of local ironsmiths ☐☐☐

4.0 Community Based Organisation

4.1 Didi the village have any CBO during the 2007/08 agricuylture year?(Yes=1, No=2) ☐

Na.	Type of CBO Nd=1,Hap=2	
4.2	Extension/ Rsearch	☐
4.3	Service /Input provision	☐
4.4	Community Development	☐
4.5	Other	☐

5.2 Did the village participate in any research on crops/ improved livestock during in the village during 2007/08 agriculture year? (Yes=1, No=2) ☐

5.5 Did the village have any training centres on draft animals during 2007/08 agriculture year? (Yes=1, No=2) If number 2 is the answer conclude the enumeration. ☐

5.6 Number of training centres for draft animals ☐☐☐

Obtain answers to the following questions from the meeting of enumerator and key informants in the village.Key infomants can be a village chairman, Village Local Government Executive Officer, Councellor, Wrad Chairman, Village extsion officer, or any knowledgeble member in the community. Where possible ask these questions to a group inorder to reach a consensus . **The numebr should be below five people.**

Procedure: Administer this frpom after completing asll smallholder questionnaires for the village.
1. Copy the name of all crops from Sections 5.1, 5.2 and 5.3 grown in the village from smallholder questionnaires
   This should also include livetsock raised by the household from questions 9.1, 9.3, 9.4 and 9.5 and enter them in col na 1 of this form.
   Also see codes for livetsock below.
2. Enter price estimates per kg in col 5 and 6.

Name of crop/livestock	Code of crop/livestock	Name of main crop	Code of Main crop	Type of measure	Price of measure	
					Minimum Per year	Maximamun Per year
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*	*(7)*

Type of livestock(Col 2)
Cattle .....01 Ducks……..07
Goat.....02 Turkey……..08
Sheep.....03 Rabbit……09
Pigs.....04 Kanga……10
Poutry……..05 Simbilisi……..11
Donkeys……06

Main poroduct- CROPS (sCol.4)
Cereals……..01 Flowers eg. Pyrethrum.....07
Green maize……..02 Vegetables……..08
Green leaves and stem .....03 Fruit……..09
Straw, dry stems etc..04 Other……..10
Roots and tubers, etc.....05
Leaves (Tobacco etc)..... 06

Main product- LIVESTOCK (Col. 4)
Live animals.....01
Meat 02
Milk.....03
Eggs.....04

***Q*uantity (Col.5)**
Kg……1
Number.....2
Litre……..3
A portion/piece ↓.4

Appendix V

Village Community Level formats

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ACLF 1

Page Number…….. out of……

Agriculture Sample Census 2007/08

Sub-village /ward leader listing from

Region _____Code ☐☐ Ward _____Code ☐☐☐

District _____Code ☐ Village _____ Code ☐☐

Sub village leader Number	Name of Ward village leader	Number of Households Form Office Register	Number of Households After enumeration	Comments
(1)	(2)	(3)	(4)	(5)
☐☐☐		☐☐☐☐	☐☐☐☐	
☐☐☐		☐☐☐☐	☐☐☐☐	
☐☐☐		☐☐☐☐	☐☐☐☐	
☐☐☐		☐☐☐☐	☐☐☐☐	

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ACLF 2

Page Number…….. out of……

Agriculture Sample Census 2007/08

Household listing from-for listing hh heads and agriculture activities

Region _____ Code ☐☐

District _____ Code ☐☐

Ward _____ Code ☐☐☐

Village _____ Code ☐☐

Name of sub village leader

Name of sub village_____ ☐☐☐

Household number	Household head name	Number of Fields a	Cattle Total	Cattle Bulls	Cattle Cows	Cattle Calves	Goats	Sheep	Pigs	Kuku/Bata/	Rabbit	If the Respondent Qualifies X	Farmer Serial Number
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
☐☐☐☐													
☐☐☐☐													
☐☐☐☐													
☐☐☐☐													

ACLF 3

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Household listing for 15 selected farmers

National Agriculture Sample Census 2007/08

Region _____ Code ☐☐ ward : _____ code ☐☐☐ ☐☐ Namba Sawia ☐☐☐

District _____ Code ☐☐ village _____ code ☐☐ Hatua ☐☐☐

S/N	Sub-village leader Number	Name of sub-village leader	Name of selected head of household	Name of Household Head	Number of					
					Field	Cattle	Goat	Sheep	Pigs	Poutry
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
☐☐	☐☐☐		☐☐☐☐							
☐☐	☐☐☐		☐☐☐☐							
☐☐	☐☐☐		☐☐☐☐							
☐☐	☐☐☐		☐☐☐☐							