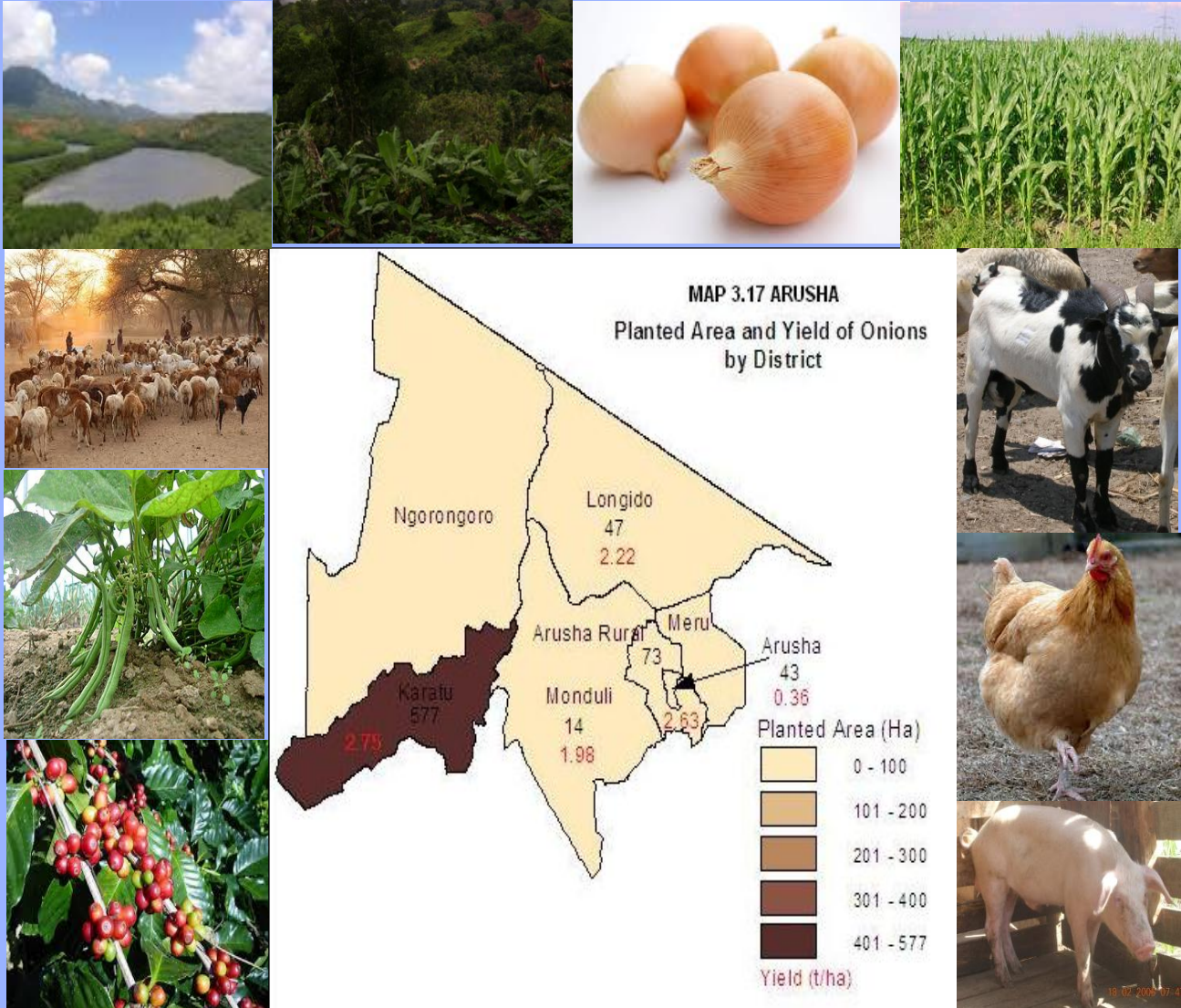




The United Republic of Tanzania

NATIONAL SAMPLE CENSUS OF AGRICULTURE 2007/2008

VOLUME Vb: Regional Report: ARUSHA REGION



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

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ACRONYMS

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

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

PREFACE

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

The census collected detailed data on crop production, crop marketing, crop storage, livestock production, fish farming, and poverty indicators. In addition to this, the census was large in its scope and coverage as it provides data that can be disaggregated at district level and therefore, allow comparisons with the 2002/03 National Sample Census of Agriculture. The census covered smallholders in rural areas only and large scale farms. This report presents data disaggregated at regional and district level and it focuses on 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 Office of the Chief Government Statistician, Zanzibar, the Food and Agriculture Organization of the United Nations and the Censuses and Surveys Technical Working Group (CSTWG).

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

Dr. Albina A. Chuwa

Director General

National Bureau of Statistics

EXECUTIVE SUMMARY

The executive summary highlights the main survey results obtained during the National Sample Census of Agriculture 2007/08. This report covers small-scale agricultural households in rural areas of Arusha region which 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 including poverty issues in the 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 Arusha region was 205,547 out of which 37,985 (19%) were involved in growing crops only, 31,097 (15%) in rearing livestock only, and 135,687 (66%) were involved in crop production as well as livestock keeping. Very few households (778hh, 0.4%) were pastoralists. Most of the agricultural households ranked annual crop/seaweed farming as an activity that provided most of their cash income followed by livestock keeping/herding and fishing.

Arusha region had a total literacy rate of 74.3 percent, the highest literacy rate was in Arumeru district (86.6%) followed by Arusha (81.7%), Arusha Rural (80%), Karatu (78.4%) and Monduli (61.3%). The lowest literacy rates were recorded in Longido (48.8%) and Ngorongoro (54.2%). The number of heads of agricultural households with formal education (University and other Higher institutions) in Arusha region was 6188 (79.0%) of which, those with University and other tertiary education were 6,302 (42%) and those with only adult education were 57 (57.6%).

ii) Crop Production

Land Area

The total area of land available to smallholders was 283,220 ha. The regional average land area utilised for crop production per crop growing household was only 1.4 ha which was below the national average of 2.0 hectares per household.

Planted Area

The area planted with annual crops and vegetables was 201,392 hectares out of which 166,961 hectares (83%) were planted during the long rainy season and 33,997 hectares (17%) were planted during the short rainy season. Cereals were the main crops grown in Arusha region. The area planted with cereals was 131,883 ha (65% of the total planted area), followed by pulses with 60,082 ha (30%), fruits and vegetables 4,087 ha (2%), oil seeds and oil nuts 2,811 ha (1.4%), roots and tubers 1,841 ha (1%). Annual cash crops mainly cotton and tobacco had the least planted area of 225 ha (0.1%).

The area of land under temporary mixed crops was 103,721 hectares (36.6 % of the total land available to smallholders in Arusha), followed by temporary mono crops 72,092ha, 25.5%), pasture (23,516ha, 8.3%), permanent mixed crops (20,224ha, 7.1%), permanent mono crops (14,387ha, 5.1%), fallow (11,083ha, 4.0%), uncultivated land (7,238ha, 2.6%), permanent/annual mix (7,106ha, 2.5%), unusable (6,485ha, 2.3%), rented to others (2,307ha, 0.8%), planted trees (2,017ha, 0.7%) and area under natural bush (1,456ha, 0.5%).

iii) Crop Types**Maize**

Maize was the dominant annual crop grown in Arusha region. The total production of maize was 209,678 tonnes from a planted area of 123,901 ha equivalent to 62 percent of the total area planted with annual crops in the region.

Beans

Beans dominated the production of pulse crops in the region. The number of households growing beans in the region was 116,844 (85% of the total pulse growing households). The total production of beans in the region was 51,661 tonnes from a planted area of 50,726 hectares resulting into a yield of 1.0 t/ha.

Irish Potatoes

The number of households growing Irish potatoes in Arusha region was 3,229 representing 48 percent of the total roots and tuber crops growing households in the region. The total production of Irish potatoes was 3,996 tonnes from a planted area of 1,380 hectares resulting into a yield of

0.3t/ha. The area planted with Irish potatoes accounted for 61 percent of the total area planted with roots and tuber crops in the region.

Sunflower

Sunflower was the leading crop among Oil seeds and Oils Nuts crops. The number of households growing sunflower was 7,925 (86% of the total oil seeds and nuts households). The total production of sunflower in the region was 1,187 tonnes from a planted area of 2,217 hectares resulting into a yield of 0.5t/ha. Other crops in this group were simsim and soya beans.

Fruits and Vegetables

The total production of fruits and vegetables was 30,549 tonnes. The most cultivated fruits and vegetable crop was tomatoes with a production of 18,866 tonnes (61.8% of the total fruits and vegetables produced), followed by cabbage (4,649t, 15.2%), onions (1,925 t, 6.3 %), cucumber (1,464t, 4.8 %), carrot (993t 3.3%), bitter aubergine (751t, 2.5%), spinach (566t, 1.9%), egg plant (519t, 1.7%), amaranthus (309t, 1%), and chilies (276t, 0.9%). The production of other fruits and vegetables was relatively small each with less than 1 percent of the total fruit and vegetables produced.

Permanent Crops

The area planted with permanent crops was 22,802hectares (13 % of the total area planted with annual and permanent crops in the region). The most important permanent crop in the region was banana which had a planted area of 8,939 ha, (39% of the planted area of all permanent crops) followed by pigeon pea (5,438ha, 16%) and Mango (281ha, 1.2%). The remaining permanent crops had a total planted area of 8,144 ha (36%).

iv) Use of Inputs

Improved Seeds

The planted area using improved seeds was 61,765 ha equivalent to 31 percent of the total planted area with the annual crops and vegetables. The percentage land use of improved seed in the short rainy season was 39 percent, while the land use of improved seeds in the long rainy season was 29 percent.

Use of Fertilizers

The use of fertilisers on annual crops was relatively small with a planted area of only 35,792 ha (18% of the total planted area in the region). Area planted with organic fertilizer (21,201ha, 59%) was larger than that planted with inorganic fertilizer at (14,591ha, 41%).

v) Irrigation

In Arusha region, the area of annual crops under irrigation was 23796 ha representing 5.4 percent of the total area planted with annual crops and vegetables. The district with the largest planted area under irrigation with annual crops was Arumeru (10,896 ha, 46% of the total irrigated planted area with annual crops in the region). The lowest planted area under irrigation was in Arusha (292 ha, 1.2%).

vi) Crop Storage and Marketing**Crop Storage**

There were 173,479 crop growing households (89% of the total crop growing households) that stored various agricultural products in the region. Most crop growing households in the region store their produce in sacks and/or open drums (163,621 households, 94% of the households that stored crops in the region) followed by locally made traditional structures used by 70,739 crop storing households (52%), improved locally made structures used by 18,174 households (10%), and air tight drums 15,691 (9%).

Crop Marketing

The number of households that reported selling crops was 112,111 (57.6 percent of the total number of crop growing households). The largest proportion of crop growing households selling crops was in Arumeru (71%) followed by Ngorongoro (66%), Arusha (64%), Karatu (62%), Monduli (58%), Longido (46%), and Arusha Rural (43%).

With regard to marketing problems, low price for agricultural products was the main problem reported by 29% of the total crop growing households. Other problems include lack of transport (4.3%), longer distances to the markets (3.8%), high transport costs (2.6%), lack of market information (2.1%), and cooperative problems (1%). About 5.6 percent of the households reported not to have experienced any marketing problem.

vii) Crop Extension Services

The number of Agricultural households that received crop extension advice was 138,984 (80 % of the total crop growing households in the region). Some districts had more access to extension services than others, with Arusha Rural district having the highest proportion of households (86.4 %) that received crop extension messages and Ngorongoro having the lowest proportion (66%) of households receiving extension advice. The Government was the main source of extension advice reported by 84 percent of households, followed by NGOs with 6 percent.

viii) Soil Erosion and Water Harvesting Facilities

The number of agricultural households that had soil erosion and water harvesting facilities on their farms was 30,841 (15 percent of the total number of agricultural households in the region). The proportion of households with soil erosion control and water harvesting facilities was higher in Karatu district (26.2%) followed by Arusha (23.3%), Monduli (19.8%) Arumeru (15.1%), Arusha Rural (12.6%), Longido (7.2%), and Ngorongoro (2.5%). Terraces accounted for 37 percent of the total number of structures, followed by Erosion control bunds (28%), gabions/sandbags (12.7%), drainage ditches (6.3%), water harvesting bunds (6.2%), vetiver grass (5.1%), tree belts (3.6%), and others (1.1%).

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

The total number of cattle in the region was 1,813,637. Cattle were the second dominant livestock type in the region after goats. The region had 8.5 percent of the total cattle population in Tanzania Mainland. The number of indigenous cattle in the region was 1,716,514 (94.6 % of the total number of cattle in the region), a total of 78,637 cattle (4.3%) were dairy breeds and 18,486 cattle (1.0%) were beef breeds.

▪ Goats

The number of goat rearing households in Arusha region was 125,787 (68% of all livestock rearing households in the region) with a total of 1,818,450 goats giving an average of 14 heads of goat per goat rearing households. Ngorongoro had the largest number of goats (655,087 goats, 36% of all goats in the region), followed by Monduli (428,714 goats, 23.6%), Longido (232,293 goats, 12.8%), Ngorongoro (466,011 goats, 28%), Karatu (174,582 goats, 9.6%), and Arumeru (162,516 goats, 8.9%). Arusha district had the smallest number of goats (24,080 goats, 1.3%).

- **Sheep**

The number of sheep rearing households was 98,550 (48% of all agricultural households in Arusha region) rearing 1,402,236 sheep, giving an average of 14 heads of sheep per sheep rearing household. The region ranked 1st out of 21 Mainland regions and had 6.1 percent of all sheep on Tanzania Mainland. The district with the largest number of sheep was Ngorongoro (599,099 sheep, 42.7%), and the district with the smallest number of sheep was Arusha district with 5,002 sheep accounting for 1.1 percent only.

- **Pigs**

Piggery was the least important livestock keeping activity in the region after cattle, goats and sheep. The region ranks 13th out of 21 Mainland regions and accounts for 1.7 percent of the Mainland total pigs. The number of pig-rearing agricultural households in Arusha region was 6478 (4% of the total agricultural households in the region) rearing 27,475 pigs.

- **Chicken**

The poultry sector in Arusha region was dominated by chicken production. The region contributed 2.4 percent to the total chicken population in Tanzania Mainland, ranking 20th out of 21 regions of Tanzania Mainland. The District with largest number of chickens was Arumeru (388,478 chicken, 40.6 percent of the total number of chicken in the region) while Arusha and Longido had the smallest number of chicken, each accounting for 2 percent of the total chicken population in the region.

- x) **Poverty Indicators**

- Availability of Toilets**

A large number of rural agricultural households used traditional pit latrines (119,222 households, 58% of all rural agricultural households), 15,510 households (8%) used improved pit latrine and 4,569 households (2%) used flush toilets. The remaining 1,886 households (1%) used other toilet facilities. However, 64,360 households (31%) in the region had no toilet facilities.

- Household Assets**

Most of the rural agricultural households (134,779 hh, 65.6%) in Arusha region owned radios, followed by those who owned mobile phones (50.6%). Bicycle was the third most important

asset owned by (31.6%), followed pressing iron (31%), wheelbarrow (17.8%), vehicle 7.6%, television/video (6.2%), refrigerator (3.3%) and motor cycle (2.7%).

Source of Lighting Energy

Wick lamp was the most common source of lighting energy in the region used by 49 percent of the total rural households followed by hurricane lamp (32%), firewood (7%), mains electricity (4.7%), pressure lamp (3.5%), solar (2.0%), candle (0.7%), and gas or biogas (0.2%).

Energy for Cooking

The most important source of energy for cooking was firewood used by 94.9 percent of the total rural agricultural households in the region followed by charcoal (2.0%). The rest of energy sources accounted for 2.9 percent. These sources in their order of importance were; bottled gas (1.0%), mains electricity and crop residues each with 0.5%, livestock dung (0.4%), paraffin/kerosene (0.3%), solar (0.2%), and gas/biogas (0.1%).

Roofing Materials

The most common roofing material used (for the main dwelling) was iron sheet used by 55.4% of the rural agricultural households followed by grass/leaves (33.7%), grass / mud (8.1%), tiles (1%), asbestos (1.2%) and concrete (0.4%) and others (0.1%).

Number of Meals per Day

The majority (48%) of the households in the region normally had 2 meals per day followed by those getting 3 meals per day (47%) and 1 meal per day (5%). There were no households having more than 3 meals per day.

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1 BACKGROUND INFORMATION

1.1 Introduction

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

1.2 Geographical Location and Boundaries

Arusha region is situated at the Northern part of Tanzania. It lies below the equator between latitudes 2° and 6°. Longitudinally, the region is situated between 35° and 38° east of Greenwich. Arusha shares borders with Kenya to the North, Mara region to the North West, Shinyanga to the West, Manyara and Dodoma regions to the South and Kilimanjaro region to the East. The region comprises seven districts namely; Monduli, Arusha, Karatu, Arusha Rural, Ngorongoro, Longido and Arumeru. The region headquarters is located in Arusha district.

1.3 Land Area

The region has an area of 86,999 square kilometers, of which 83,418 square kilometers are arable land.

1.4 Climate

1.4.1 Temperature

The dominant climate is cool and wet especially in the highlands of the Arusha region. The coolest month is June with a minimum temperature of 21 °C especially in the highlands. The hottest month is December with maximum temperature of 26°C especially in the lowlands.

1.4.2 Rainfall

The region has two rainy seasons, the short and the long rainy seasons. The short rainy season (Vuli) is from October to November and the Long rainy season (Masika) is from April to May. In Arusha region, most areas get rainfall of at least 250mm per year. The amount of rainfall ranges from 250mm to 1,200mm.

1.5 Population

According to the projections that are based on the 2002 population census, the population of Arusha region by the year 2008 was 1,570,394 people. It is among the moderately populated regions with 4.0 percent of the Tanzania Mainland population.

1.6 Socio - Economic Indicators

The region is famous for producing both food and cash crops. The main food crops produced in Arusha region include: maize, paddy, beans and sorghum. The main cash crops include coffee and sugarcane. Livestock keeping is also an important economic activity in the region.

2 INTRODUCTION

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

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

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

2.1 The Rationale for Conducting the National Sample Census of Agriculture

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

Demands for reliable and timely agricultural data have become significantly increasing for monitoring outcomes and progress of the poverty monitoring tools like the Agricultural Sector Development Programme (ASDP) and performance of the respective MDAs (ASLMs). Following the decentralization of the Government's administration and planning functions, there has been a

pressing need for agricultural and rural development data disaggregated at regional and district level. The provision of district level estimates will provide essential baseline information on the state of agriculture that supports decision making by the Local Government Authorities and in the design of District Agricultural Development and Investment Projects (DADIPs). The increase in investment is an essential element in the national strategy for growth and reduction of poverty.

2.2 Census Objectives

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

The census was carried out in order to:

- Identify structural changes, in the size of farm household holdings, crop and livestock production, farm inputs and implement use. It also seeks to determine if there are any improvements in the rural infrastructures and the level of agricultural household living conditions;
- Provide benchmark data on productivity, production and agricultural practices in relation to policies and interventions promoted by the Ministry of Agriculture and Food Security and other stakeholders; and
- Establish baseline data for the measurement of the impact of high level objectives of the Agricultural Sector Development Programme (ASDP), National Strategy for Growth and Reduction of Poverty and other rural development programmes and projects.

2.3 Census Scope and Coverage.

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

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

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

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

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

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

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

2.4 Census Methodology

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

- Census organization;
- Tabulation plan preparation;
- Sample design;
- Design of census questionnaire and other instruments;
- Pilot test;
- Training of trainers, supervisors and enumerators;
- Information Education and Communication (IEC) campaign;
- Data collection;
- Field supervision and consistency checks;
- Data processing:
 - Scanning,
 - Structure formatting application,
 - Batch validation application,
 - Manual data entry application,
 - Tabulation preparation using SPSS;
- Table formatting and charts using Excel, maps generation using Arc GIS and Excel, Report preparation using Ms Word and Excel.

2.4.1 Census Organization

The census was conducted by the National Bureau of Statistics (NBS) in collaboration with the Ministry 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 were from the PMO-RALG. As for Zanzibar, implementation of the census activities at the regional level was overseen by the Regional Statistical Officers and Regional Agricultural Officers. At district level, implementation of the census activities was managed by District Agricultural Development Officers (DADOs). In addition, there was a national mobile team to supervise the census operations.

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

2.4.2 Tabulation Plan Preparation

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

2.4.3 Sample Design

The Mainland sample consisted of 3,192 villages. These villages were drawn from the National Master Sample (NMS) developed by the National Bureau of Statistics (NBS) to serve as national framework for the conduct of household based surveys in the country. The National Master Sample was developed from the 2002 Population and Housing Census. The total Mainland sample was 47,880 agricultural households. In Zanzibar, a total of 317 Enumeration Areas (EAs) were

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

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

Table 2.1: Census Sample

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

2.4.4 Questionnaire Design and Other Census Instruments

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

- Where feasible, all variables were extensively coded to reduce post enumeration coding errors;
- The definitions for each section were printed on the opposite page so that the enumerator could easily refer to the instructions whilst interviewing the respondent;
- The responses to all the questions were placed in boxes printed on the questionnaire, with one box per character. This feature made it possible to use scanning and Intelligent Character Recognition (ICR) technologies for data capture;
- Skip patterns were used to reduce unnecessary and incorrect coding of sections which do not apply to the respondent; and

- Each section was clearly numbered, which facilitated the use of skip patterns and provide a reference for data type coding for the programming of CSPro and SPSS.

Three other instruments were used:

- Village Listing Forms were used for the listing of households in the village/EA and from this list, a systematic sample of 15 agricultural households were selected;
- A training manual which was used by the trainer for the cascade/pyramid training of supervisors and enumerators; and
- Enumerator's Instructions Manual was used as reference material.

2.4.5 Field Pilot-Testing of the Census Instruments

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

2.4.6 Training of Trainers, Supervisors and Enumerators

During the training, a cascade/pyramid training techniques were employed to maintain statistical standards. The top level of training was provided to 78 national and regional supervisors (65 from Mainland and 13 from Zanzibar). The trainers were members of the Planning Group from the National Bureau of Statistics, the sector Ministries of Agriculture and Office of the Chief Government Statistician, Zanzibar. In each region, three training sessions were conducted for the district supervisors and enumerators. The training concentrated on questionnaires, listing forms, field level census methodology and definitions. Emphasis was placed on consistency checking in the field. Tests were given to the enumerators and supervisors and the best 50 percent of the trainees were selected for the actual field work. The remaining 50% were assigned the work of listing the households in the villages they belong and they were later terminated. The best trained enumerators were assigned to list the remaining villages. Each enumerator was assigned to enumerate two villages.

2.4.7 Information, Education and Communication (IEC) Campaign

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

2.4.8 Data Collection

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

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

During the household listing exercise, some 3,192 extension staff participated on the Mainland. A total of 177 enumerators participated during the listing exercise and enumeration using the small holder questionnaire in Zanzibar. A total of 1,596 enumerators were involved in data collection using the small holder questionnaire on the Mainland. Additional five percent of the enumerators were held as reserves in case of drop outs during the enumeration exercise.

2.4.9 Field Supervision and Consistency Checks

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

2.4.10 Data Processing

Data processing involved the following process:

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

Data Entry

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

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

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

Batch Validation

A batch validation program was developed in CSPPro in order to identify inconsistencies within a questionnaire. This was in addition to the interactive validation during the ICR extraction process. The procedures varied from simple range checking within each variable to more complex

checking between variables. After data cleaning, the tables were prepared based on a pre-designed tabulation plan.

Tabulation

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

Report Writing

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

Data Quality Control

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

2.5 Funding Arrangements

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

3 CENSUS RESULTS

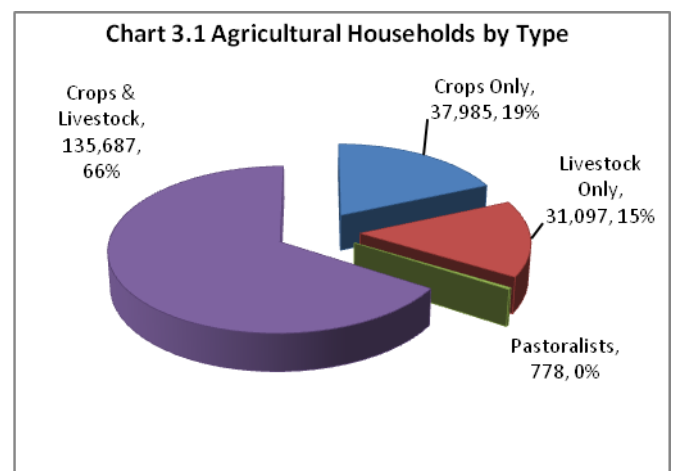
This part of the report presents the census results for Arusha region, based on the statistical data tables presented in Appendix II. The results are presented in various forms including brief summaries, charts, condensed tables, graphs and maps to facilitate understanding of information among the users.

Comparisons are made between related variables and between districts. Comparisons are also made between the current and the 2002/03 survey 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 2002/03 census, in the current survey more effort has been expended in analyzing the results in order to formulate solid conclusions.

3.1 Household Characteristics

3.1.1 Type of Household

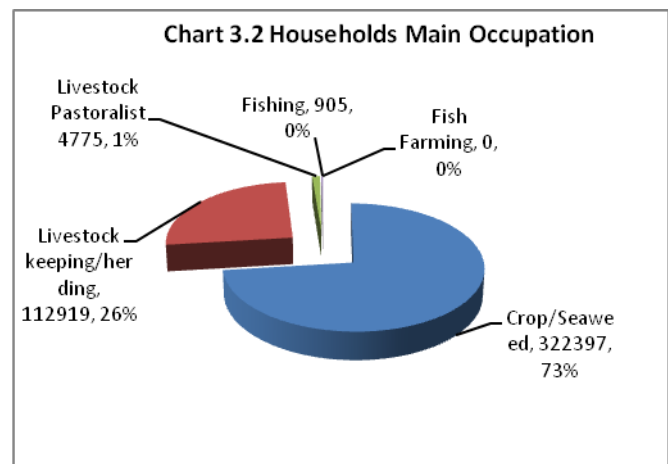
The number of agricultural households in Arusha region was 205,547 out of which 37,985 (19%) were involved in growing crops only, 31,097 (15%) in rearing livestock only, and 135,687 (66%) were involved in crop production as well as livestock. The largest number of agricultural households was in Arumeru (49,292) followed by Arusha Rural (48,253), Karatu (36,093),

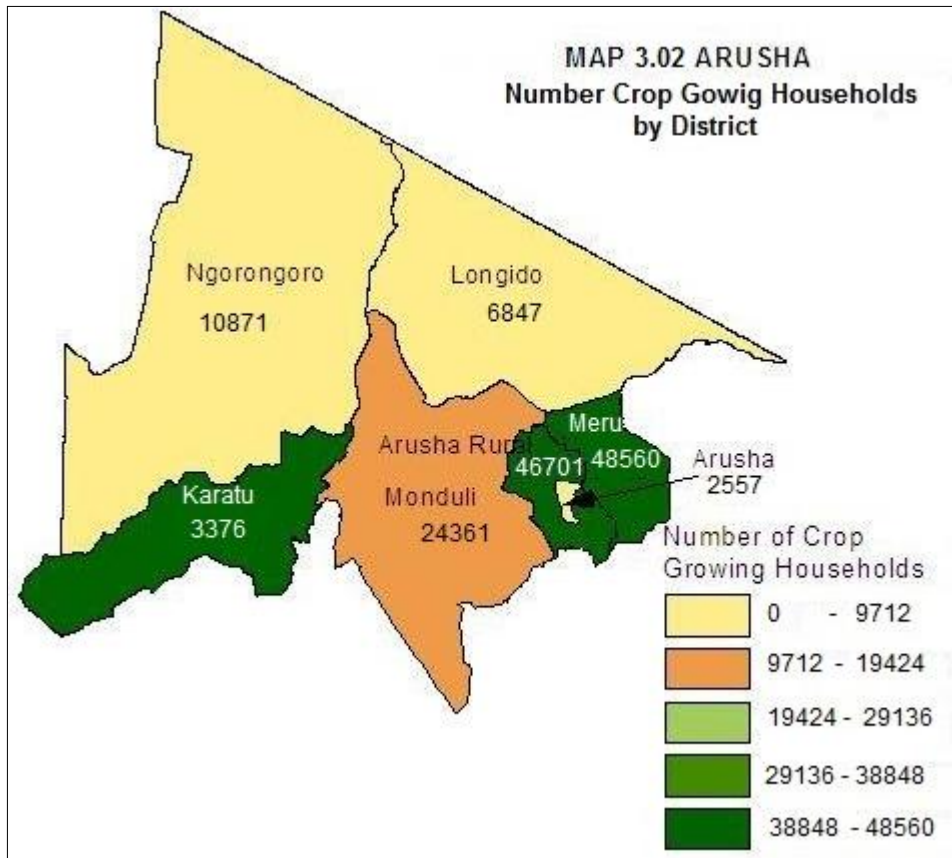
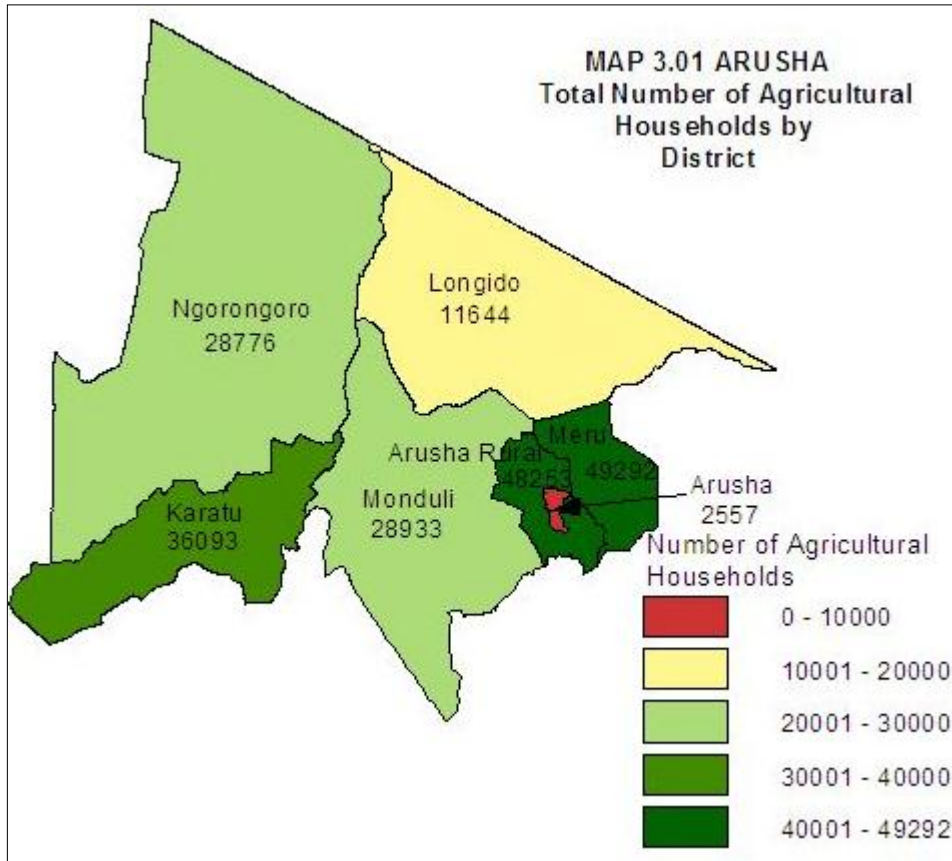


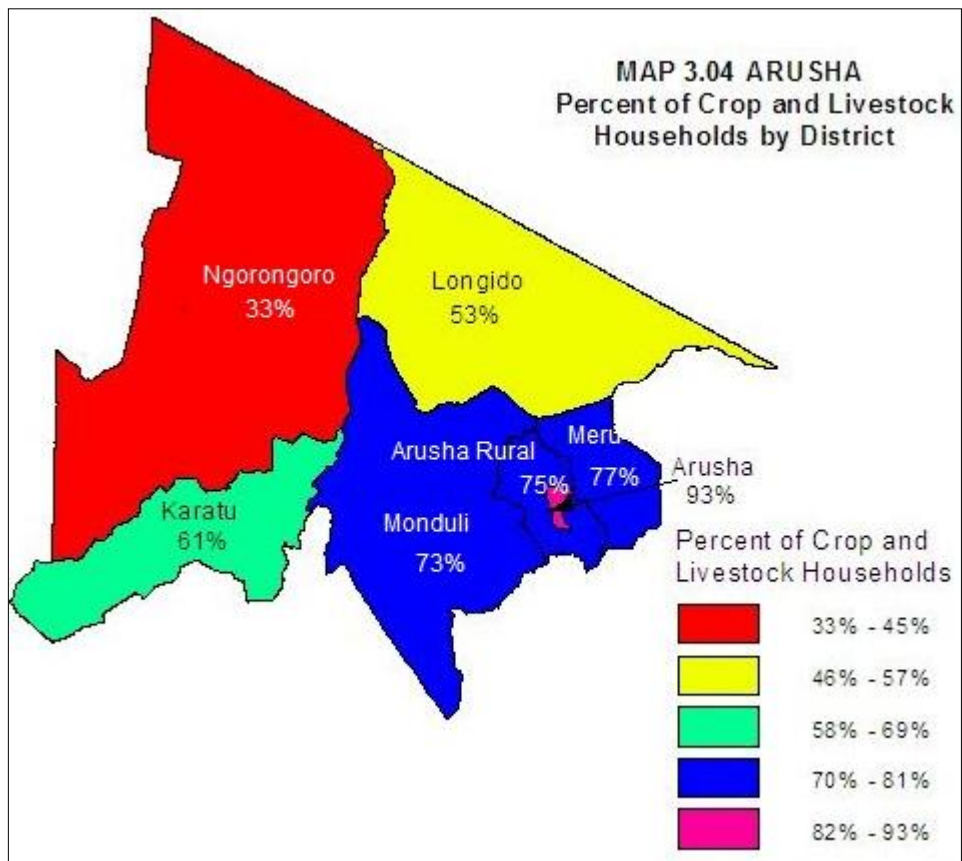
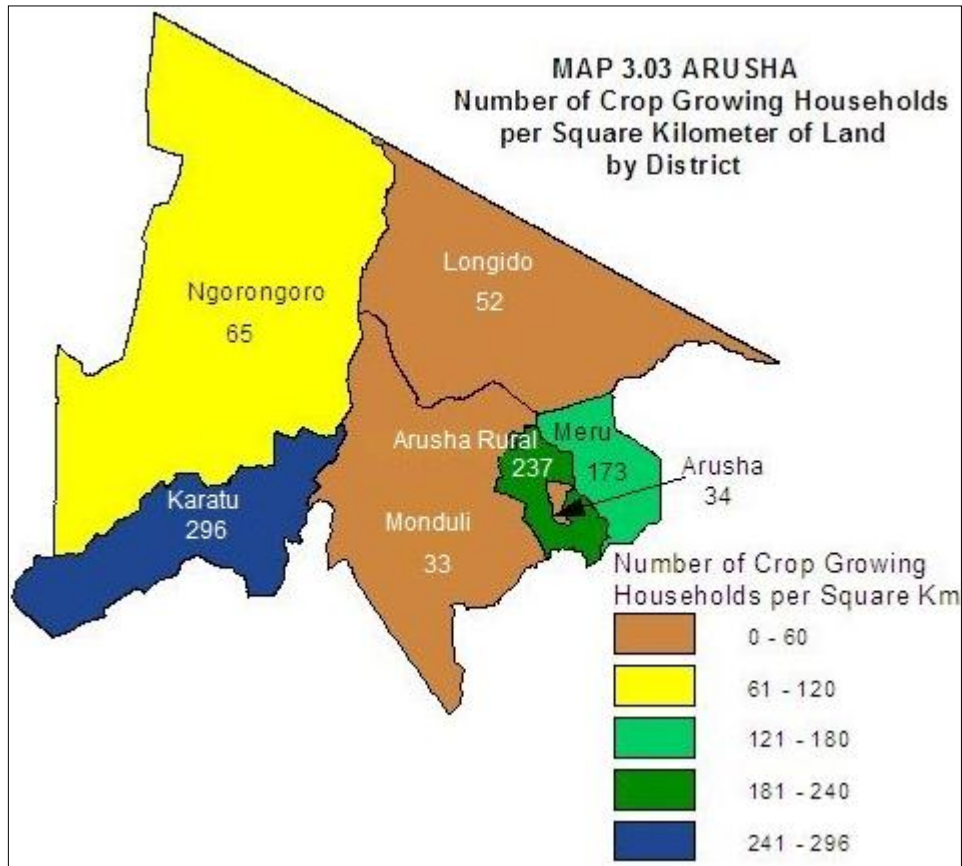
Monduli (28,933), Ngorongoro (28,776), Longido (11,644) and Arusha (2,557) (Map 3.01,02) 03. The highest density of households was found in Ngorongoro (1306hh/km²). Most of the households (135,687, 66%), were involved in crop production as well as livestock keeping, 37,985 (18.5%) were involved in growing crops only, and 31,097 (15.1%) were rearing livestock only, 778 (0.4%) were pastoralists, (Chart 3.1 and Map 03, 04) .

3.1.2 Livelihood Activities

The census results for Arusha region indicates that most of the agricultural households (322,397) ranked annual crop/seaweed farming as an activity that provided most of their cash income followed by livestock keeping/herding, (112,919), and Livestock pastoralist (4,775). Fishing was insignificant in terms of contribution to the source of income. Similarly, fish farming was not reported in Arusha region. (Chart 3.2). Livestock keeping/herding was reported as the least important in Karatu, Meru and Arusha Rural.

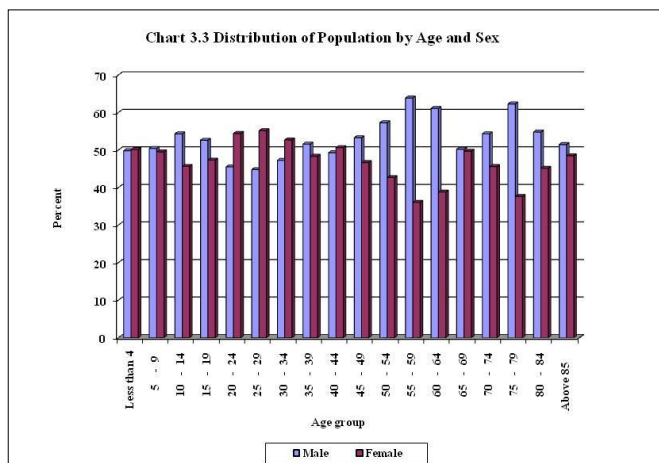






3.1.3 Number and Age of Household Members

Arusha region had a total rural agricultural population of 1,050,842 of which 535,956 (51%) were males and 514,886 (49%) were females. Whereas age group 0-4 were 132,350 50 percent of the total rural agricultural population, age group 15–64 (active population) were 580,366 (55%). The percentage trend shows that there were slight variations between male and female



agricultural household members across all the age groups. On the whole, male agricultural household members were more concentrated in the ages of 40 years and above whilst female agricultural household members are more concentrated in the age of 45 years and below (Chart 3.3).

3.1.4 Level of Education

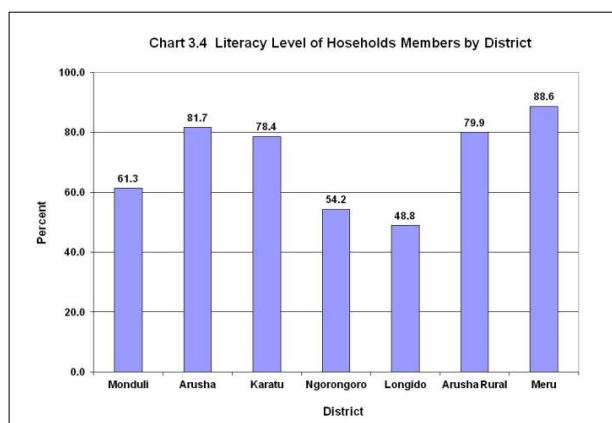
In order to obtain information on the level of education, information on literacy and education attainment were obtained for all persons aged five years and above in all households.

Literacy

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

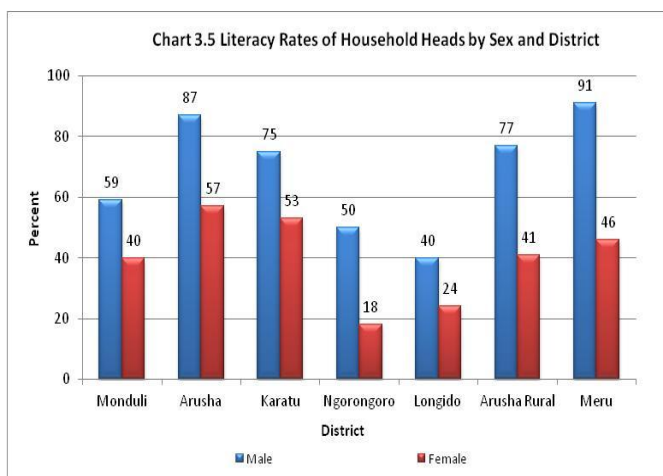
Literacy Level for Household Members

Arusha region had a total literacy rate of 74.3 percent. The highest literacy rate was in Arumeru district (88.6%) followed by Arusha district (81.7%), Arusha Rural (79.9%), Karatu (78.4%), and Monduli (61.3%). Longido and Ngorongoro districts had the lowest literacy rates of 48.8 and 54.2 percent respectively (Chart 3.4).



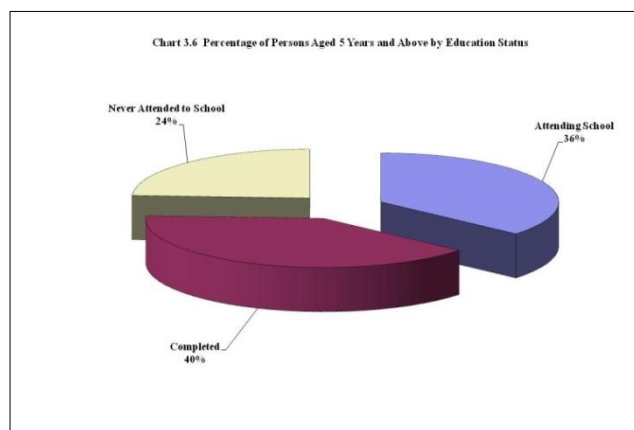
Literacy Rates for Heads of Households

The literacy rate for the heads of households in the region was 66 percent. The literacy rates among the male and female heads of households were 73 and 38 percent respectively. Male head of households literacy rate was higher than that of female heads in all the districts. The district with the highest literacy rate among the male heads of household was Meru (91%) followed by Arusha (87%), Arusha Rural (77%), Karatu (75%), Monduli (59%), Ngorongoro (50%) and Longido (40%). Literacy rate for female household heads was higher in Arusha (57%) followed by Karatu (53%), Meru (46%), Arusha Rural (41%), Monduli (40%) Longido (24%) and Ngorongoro (18%), (Chart 3.5).

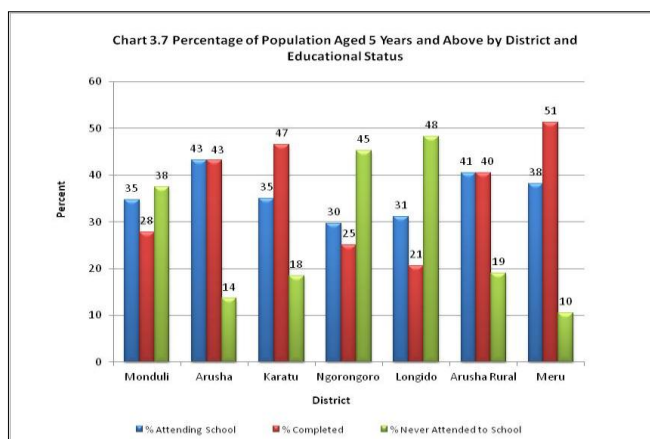


Educational Status

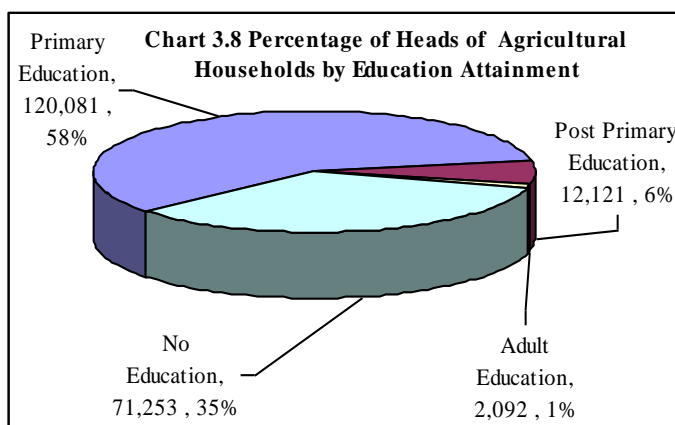
Information on educational status was collected from individual agricultural household members. The results show that 40 percent of the population aged 5 years and above in agricultural households in the region had completed different levels of education and 36 percent were still attending school. Those who have never attended school were 24 percent (Chart 3.6).



Agricultural households in Meru district had the highest percentage (51%) of population aged 5 years and above who had completed different levels of education followed by Karatu (47%), Arusha (43%), Arusha Rural (40%), Monduli (28%), Ngorongoro (25%) and Longido (21%). For those who had never attended school, the largest proportion was in Longido district (48%) followed by Ngorongoro (45%), Monduli (38%), Arusha Rural (19%), Karatu (18%) and Meru (10%), (Chart 3.7).



The number of heads of agricultural households with formal education in Arusha region was 132,230. Those with primary education were 120,081 (58% of the total heads of agricultural hh) followed by those with no education 71,253 (35%), post primary education (6%) and adult education were (1%), (Chart 3.8).



With regard to the heads of agricultural households with primary education in Arusha region, Meru had the highest percentage (72% of the total agricultural households) followed by Karatu (68%). The district with the lowest percentage of heads of households with primary education and the highest percentage of heads with no education was Longido (30%) and (68%) respectively

The highest percentage of heads of household with adult education only was recorded in Arusha municipal (7%) followed by Karatu (2 %). While heads of agricultural households with Adult education was lowest in Longido district (29 hh, 0%) (Table 3.1).

Table 3.1: Number of Heads of Agricultural Households By Education Attainment and District , 2007/08 Agricultural Year

District	Primary Education		Post Primary Education		Adult Education		No Education		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%
Monduli	14,431	50	786	3	286	1	13,431	46	28,933	100
Arusha	1,620	63	341	13	170	7	426	17	2,557	100
Karatu	24,418	68	802	2	624	2	10,249	28	36,093	100
Ngorongoro	11,084	39	782	3	142	0	16,768	58	28,776	100
Longido	3,525	30	202	2	29	0	7,888	68	11,644	100
Arusha Rural	29,621	61	2,986	6	597	1	15,049	31	48,253	100
Meru	35,383	72	6,222	13	244	0	7,443	15	49,292	100
Total	120,081	58	12,121	6	2,092	1	71,253	35	205,547	100

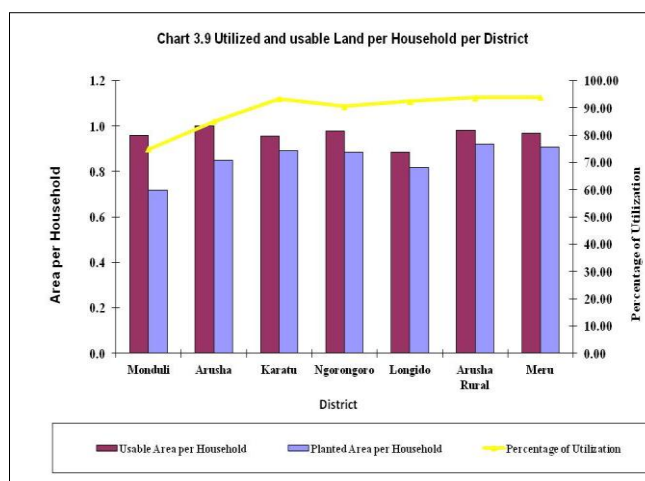
3.2 Land Use

Land area and planted area are two different types of area measurements. Land area refers to the physical area of land and is the same regardless of the number of crops planted on the land in one year. Planted area is the total area of crops planted in a year and the area is summed up if there were more than one crop on the same land per year. A number of terms are used in this section which requires defining for clarification as follows: Land available refers to the area of land that has been allocated to smallholders through customary law, official title or other forms of ownership. Land available does NOT mean the total area of land that is designated as agricultural land in the country; however it is the land that is available to smallholders given the location of villages and lack of access to more remote parcels of un-used agricultural designated land. Usable land refers to the available land minus the land that cannot be used such as bare rock, shallow soils, steep slopes, swamp areas and the like. It does however include un-cleared bush whereas utilised land refers to the land that was used during the year.

3.2.1 Area of Land Utilised

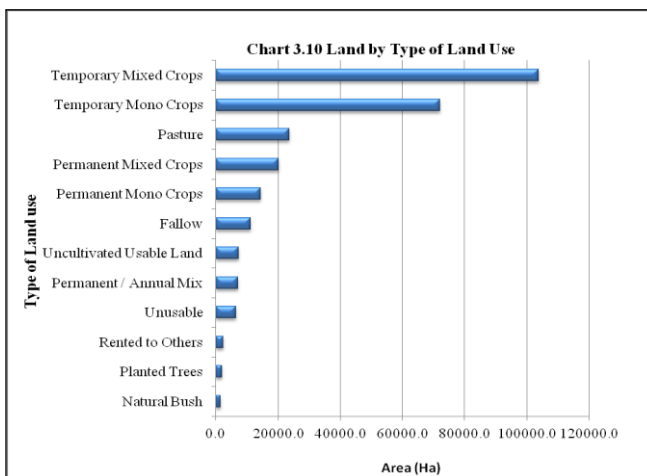
The total area of land available to smallholders was 283,220 ha. The regional average land area utilised for agriculture per household was only 1.4 ha which was below the national average estimated of 2.0 hectares. About 90.4 percent of the total land available to smallholders was utilised. Only 9.6 percent of usable land available to smallholders was not used.

There are almost no variations in land area utilised per household across districts with all the districts having 1 ha per household. The smallest land area utilised per household was in Longido (0.9 ha/hh). (Chart 3.9 and Map 3.05).



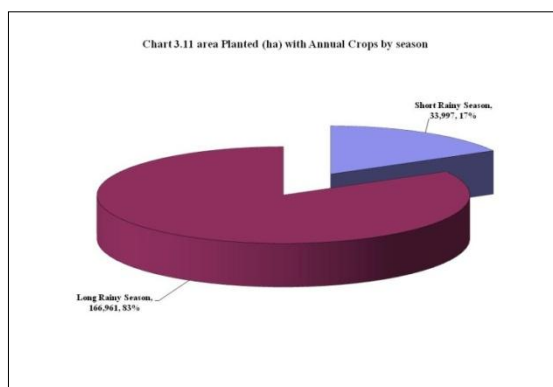
3.2.2 Types of Land Use

The area of land under temporary mixed crops was 103,721 hectares (36.6 % of the total land available to smallholders in Arusha), followed by temporary mono crops 72,092 ha, 25.5%), pasture (23,516 ha, 8.3%), permanent mixed crops (20,225 ha, 7.1%), permanent mono crops (14,387 ha, 5.1%), fallow (11,083 ha, 4%), uncultivated land (7,238 ha, 2.6%), permanent/annual mix (7,106 ha, 2.5%), unusable (6,485 ha, 2.3%), rented to others (2,307 ha, 0.8%), planted trees (2,017 ha 0.7%), and area under natural bush (1,456 ha, 0.5%), (Chart 3.10).



3.3 Annual Crop and Vegetable Production

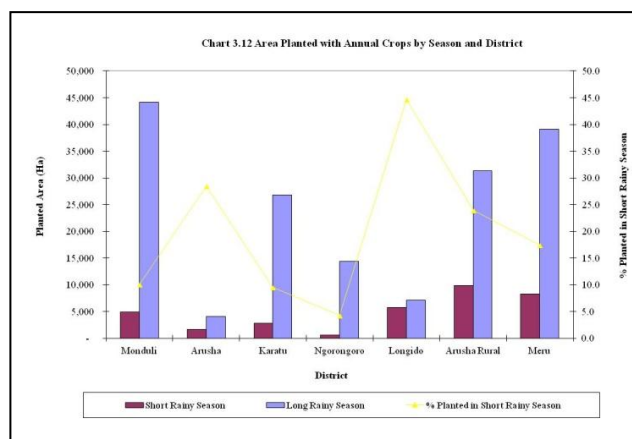
Arusha region has two rainy seasons namely; the short rainy season (October to November) and the long rainy season (April to May). The quantities of crops produced in both seasons have been used as a base for comparison with the past surveys and censuses.



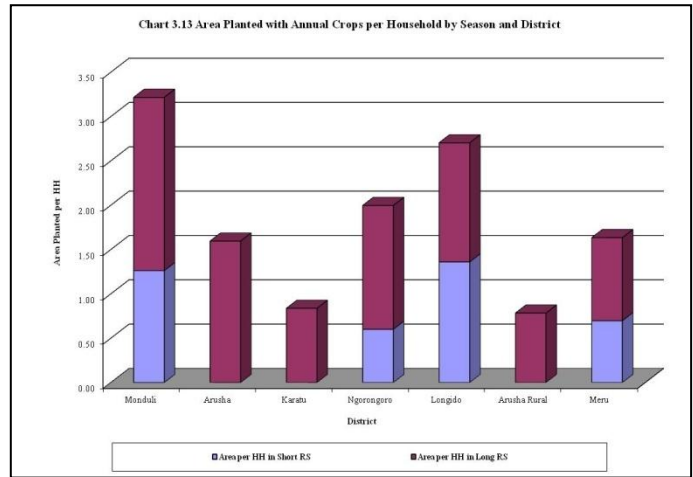
3.3.1 Area Planted

The area planted with annual crops and vegetables was 201,392 hectares out of which 33,997 hectares (17%) were planted during short rainy season and 167,395 hectares (83%) during long rainy season. The average areas planted per household during the short and long rainy seasons were 0.8 ha and 1.1 ha respectively (Chart 3.11).

The districts with the largest area planted per household (the average of the two seasons) were Monduli (0.9 ha) followed by Meru (0.8 ha), Arusha Rural (0.7 ha) and Karatu (0.5 ha). In all the districts, the average area planted during the long rainy season was larger than that of the short rainy season (Chart 3.12).



The average area planted per household during the long rainy season in Arusha region was 0.6 hectares. However, there were district variations with Monduli having the largest planted area per household (0.9 ha) followed by Ngorongoro (0.8 ha), Longido (0.8 ha), Arusha (0.7 ha), Meru (0.5 ha), Karatu (0.5 ha) and Arusha Rural (0.4 ha), (Chart 3.13).

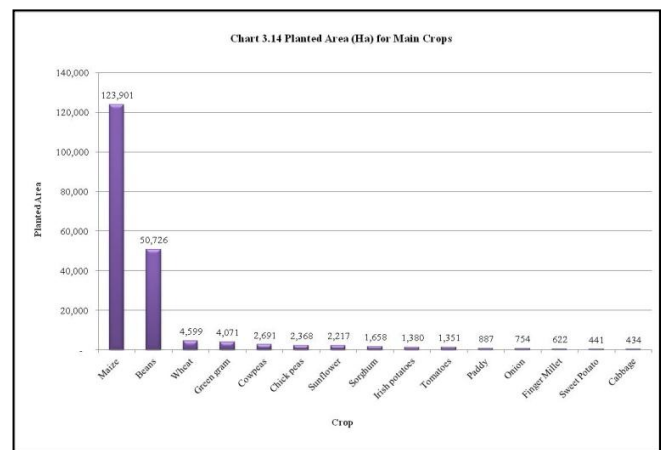


Analysis of the Most Important Crops

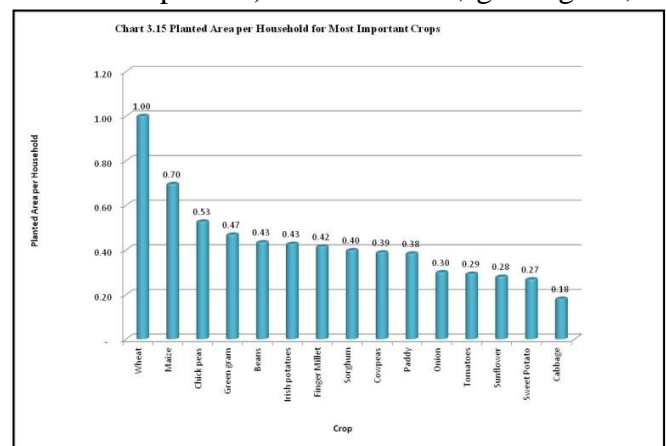
The results on crop production are presented in two different sections. The first section compares the importance of each crop regardless of whether they are annual or permanent. The second section contains a more detailed analysis on production based on crop types.

3.3.2 Crop Importance

Maize was the most dominant annual crop grown in Arusha region with a planted area of 123,901 hectares followed by beans with a planted area of 50,738 hectares. The area planted with maize was 62 percent of the total area planted with annual crops in the region while that planted with beans was 25 percent.

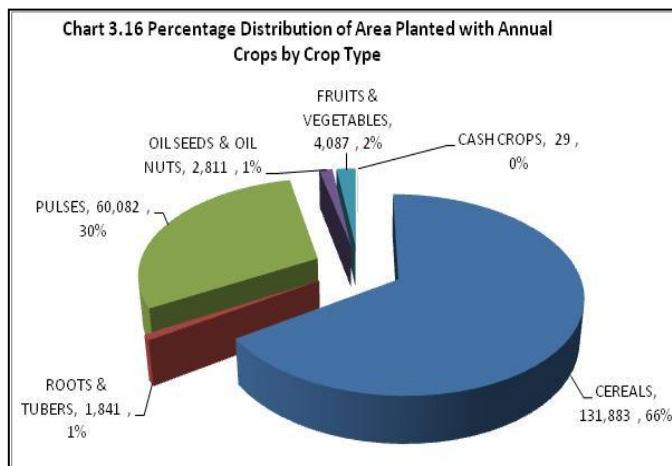


Other crops in order of their importance (based on the area planted) include wheat, green gram, cowpeas, chick peas, sunflower, sorghum, Irish potatoes and tomatoes. Other crops were less important and were planted in less than 1,000 hectares; these were tomatoes, paddy, onions, finger millet, sweet potatoes and cabbage. (Chart 3.14). Large planted areas per household were for those agricultural households that grew (in their order of importance) wheat, maize, chick peas, green gram, beans and Irish potatoes (Chart 3.15).

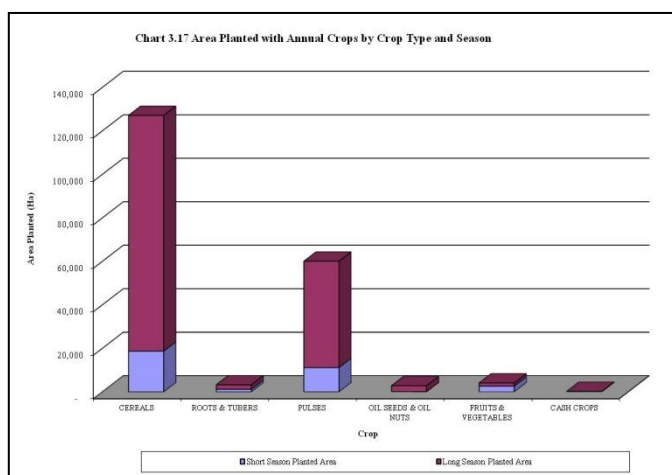


3.3.3 Crop Types

Cereals were the main crops grown in Arusha region. The area planted with cereals was 131,883 ha (65% of the total planted area), followed by pulses with 60,082 ha (30%), fruits and vegetables 4,087 ha (2%), oil seeds and oil nuts 2,811 ha (1.4%), roots and tubers 1,841 ha (1%). (Chart 3.16).



Cereals and pulses were the most dominant crops in both seasons than any other crop type. There is little difference in the proportions of the different crop types grown between seasons and because short rainy season production was very small compared to long rainy season it is inappropriate to make detailed comparisons between the two seasons (Chart 3.17).



3.3.3.1 Cereal Crop Production

The total production of cereals was 219,903 tonnes (74 percent of all annual crop production). Maize was the most dominant cereal crop with a production of 209,678 tonnes (95 percent of the total cereal crops produced) followed by wheat (2.5%), paddy (1%), sorghum (0.8%), finger millet (0.2%). Meru district had the largest planted area of cereals in the region (33,537 ha) followed by Monduli, (31,114 ha), Karatu (23,277 ha), Arusha Rural (22,678 ha), Ngorongoro (10,492 ha), Longido (8,086 ha) and Arusha (2,700 ha), (Map 3.08).

The total area planted with cereals during the short and long rainy seasons was 131,883 ha out of which 18,702 ha (14%) were planted in short rainy season and 113,182 ha (86%) were planted during the long rainy season. The area planted with maize during the short rainy season was 17,698 ha (94.5 percent of the total area planted with cereals in that season) followed by wheat 598 ha (3.2%) and paddy 308 (1.6%), (Table 3.3). With regard to crop yield, paddy had the highest yield of 2.6 tonnes per hectare followed by maize (1.7t/ha), wheat and barley each with 1.2t/ha, sorghum (1.1t/ha). Finger millet had the lowest yield per hectare of 0.8 tonnes per hectare (Chart 3.18, Table 3.2).

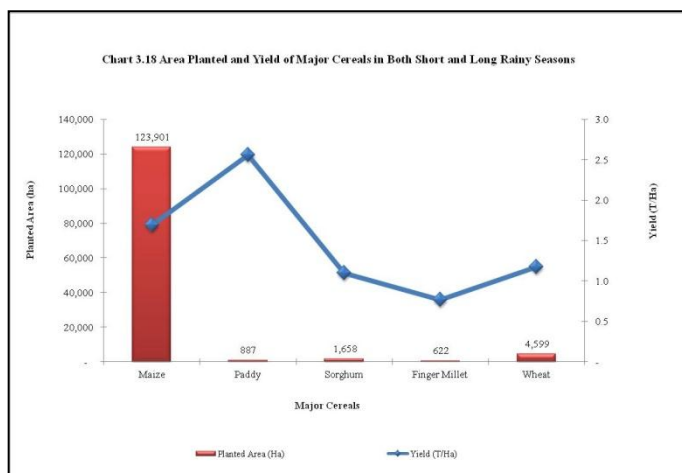
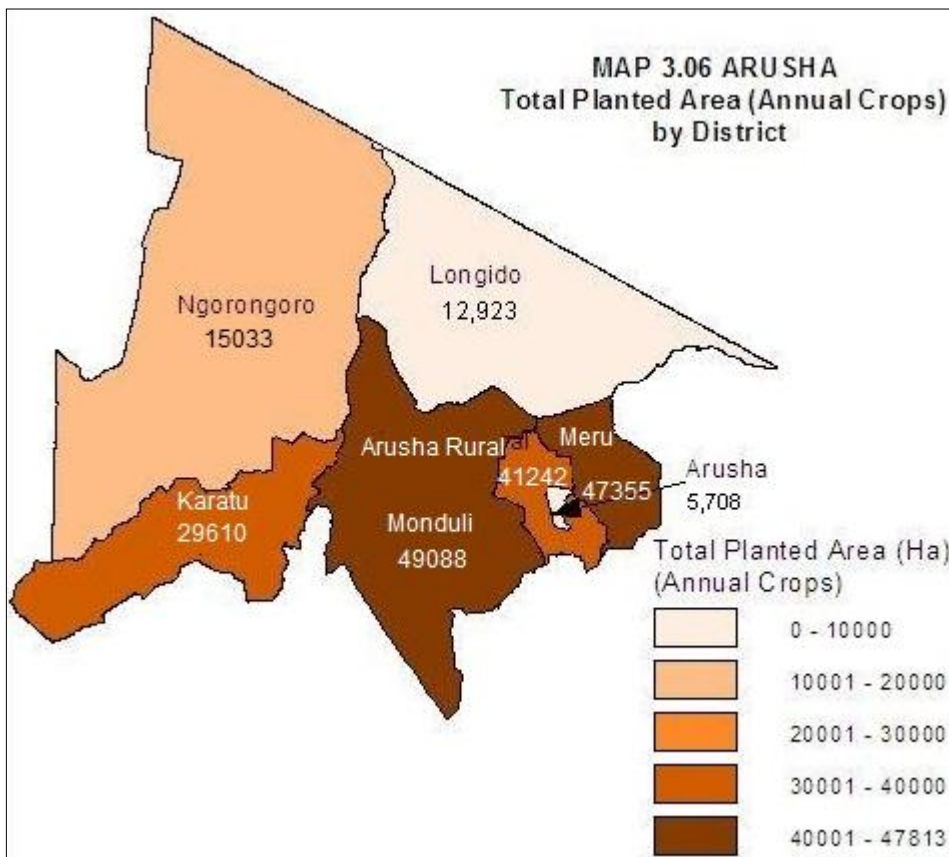
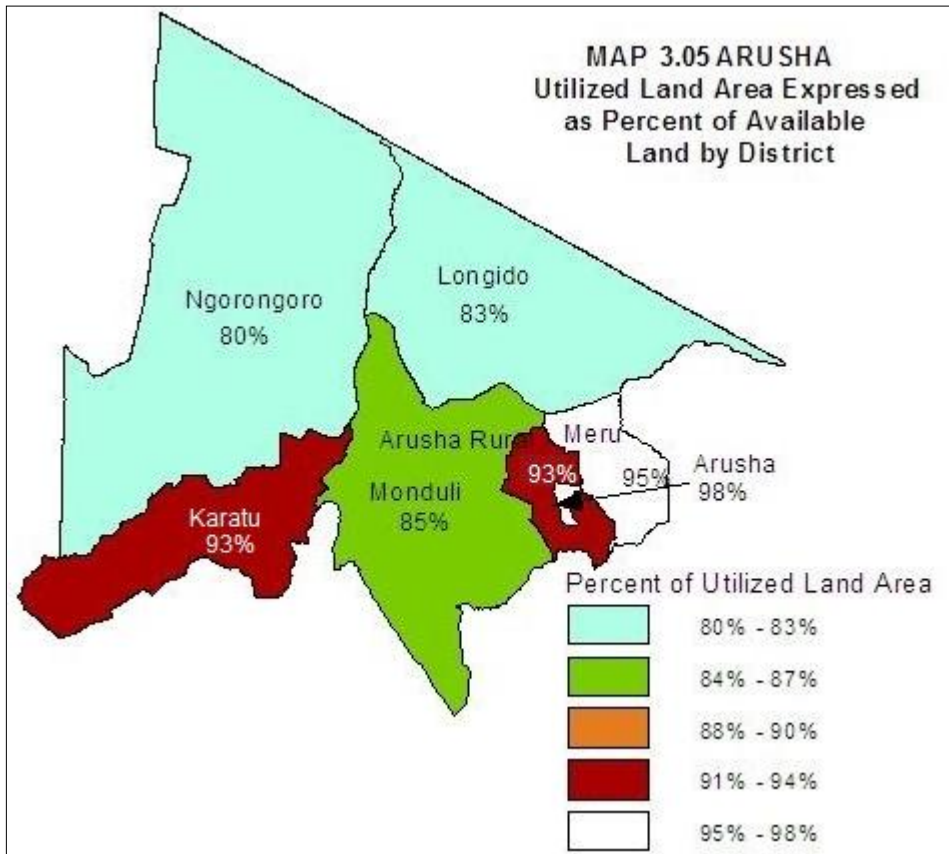
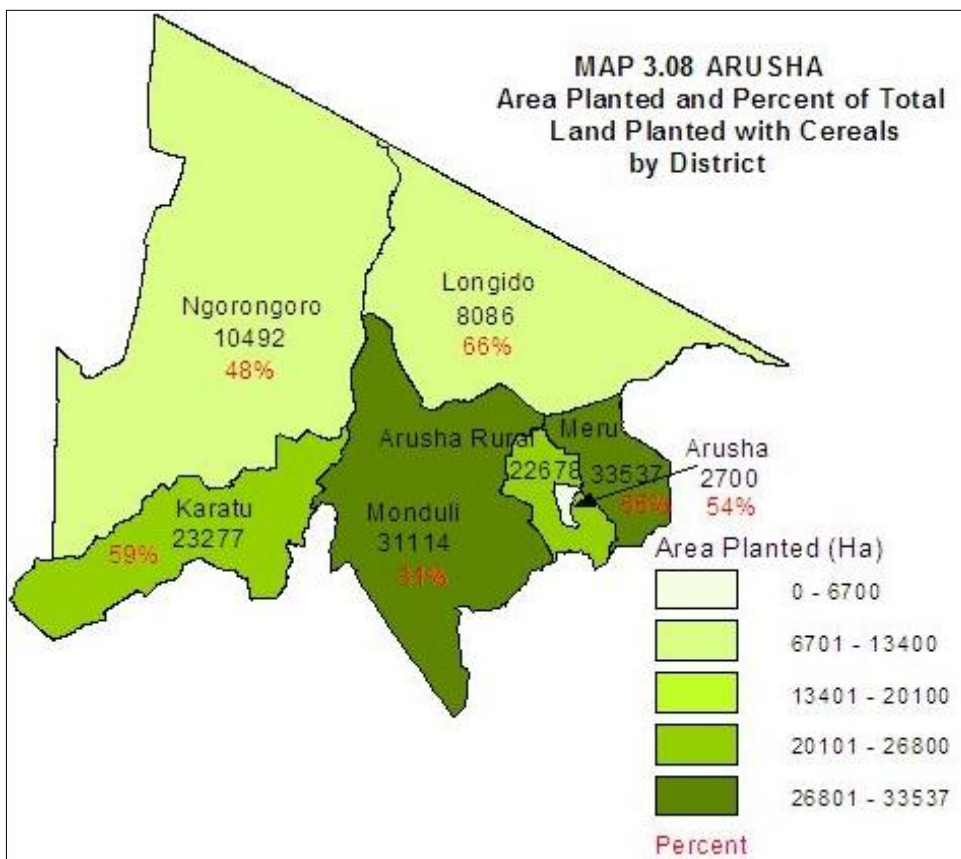
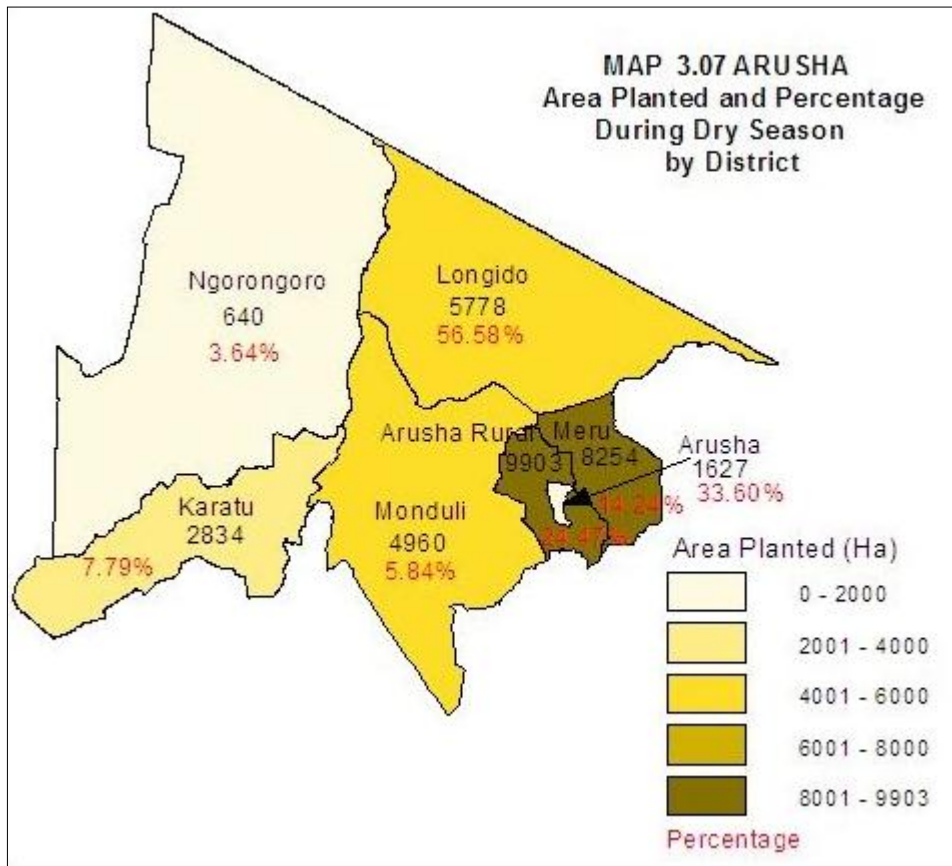


Table 3.2: Area, Production and Yield of Cereal Crops by Season

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	17,689	29,656	1.7	106,212	180,022	1.7	123,901	209,678	95.4	1.7
Paddy	308	572	1.9	579	1,699	2.9	887	2,271	1	2.6
Sorghum	.	.	.	1,658	1,825	1.1	1,658	1,825	0.8	1.1
Finger Millet	73	72	1	550	407	0.7	622	478	0.2	0.8
Wheat	597	6	0	4,002	5,386	1.3	4,599	5,392	2.5	1.2
Barley	36	13	0.4	180	246	1.4	216	259	0.1	1.2
TOTAL	18,702	30,319	1.6	113,182	189,585	1.7	131,883	219,903	100	2





3.3.3.1.1 Maize

Maize was the most important cereal crop in the region. The number of households growing maize was 178,107 (93% of the total crop growing households). The total planted area with maize was 123,901 ha giving an average of 0.7 ha per household. The total harvest in the region was 209,678 tonnes resulting into an average yield of 1.7 t/ha.

Meru had the largest area planted with maize (32,830 ha, 26%) followed by Monduli (29,335 ha, 24%), Arusha Rural (21,587 ha, 17%), Karatu (21,162 ha, 17%), Ngorongoro (9,489 ha, 8%), Longido (6,788 ha, 5%) and Arusha (2,700 ha, 2%). Chart 3.19 and 3.20, Maps 3.09 and 3.10).

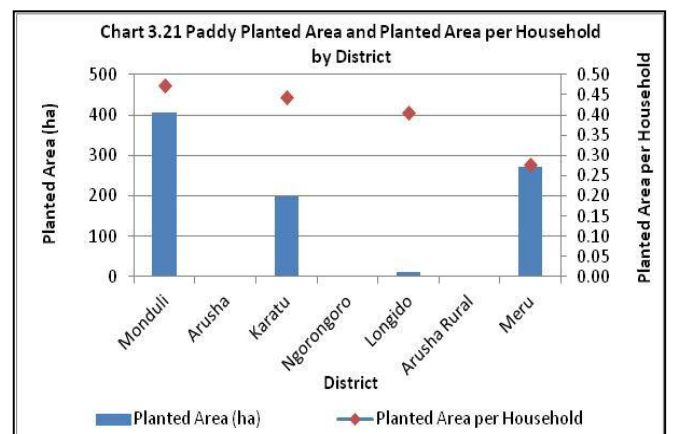
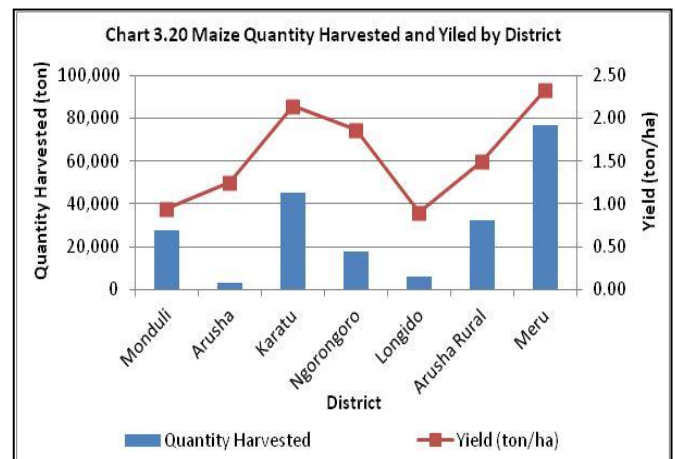
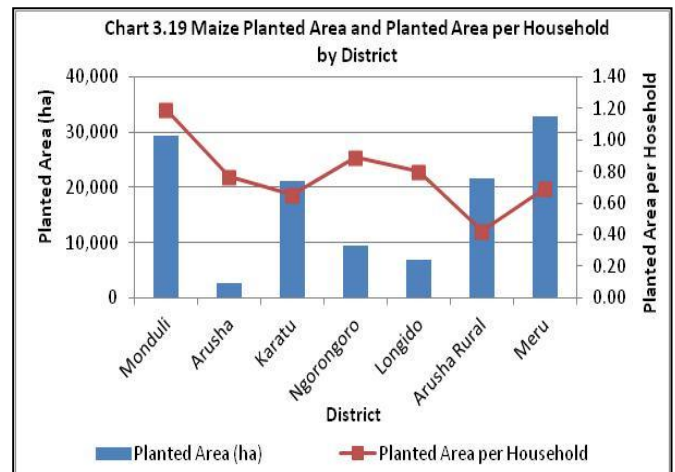
On production, the region had 209,678 tonnes. District wise, Meru had largest quantity of maize produced (76,930 ton, 37%) followed by Karatu (45,368 ton, 22%) and Arusha Rural (32,373 ton, 15%). Arusha had the lowest quantity (3,397 ton, 2%), (Chart 3.20).

The production of maize increased from 92,118 tonnes in 2002/03 to 209,678 tonnes in 2007/08, an increase in yields from 0.9t/ha in 2002/03 to 1.7t/ha in 2007/08 census year.

The production of maize increased from 92,118 tonnes in 2002/03 to 209,678 tonnes in 2007/08, an increase in yields from 0.9t/ha in 2002/03 to 1.7t/ha in 2007/08 census year.

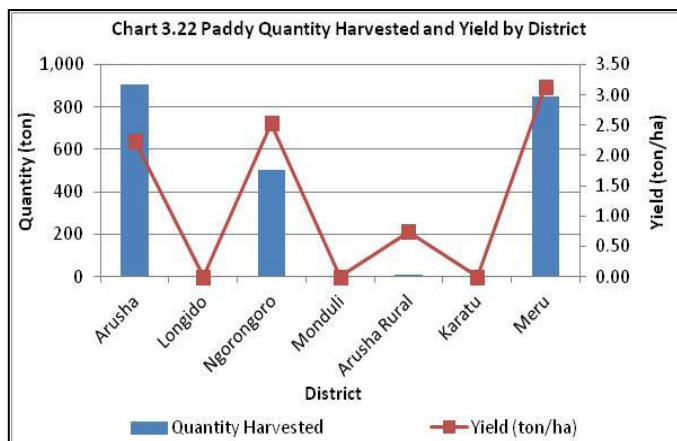
3.3.3.1.2 Paddy

Paddy was the second most important cereal crop in the region. The number of households that grew paddy in Arusha region during the short and long rainy seasons was 2,308. There were significant variations in the average area planted per crop growing household among the districts ranging from 0.41 ha/hh in Longido to 0.47 ha/hh in Monduli.



The total production of paddy was 2,271 tonnes from a planted area of 887 hectares resulting into a yield of 2.6 t/ha. The district with the largest area planted with Paddy was Monduli (405ha, 46%) followed by Meru (272 ha, 31%), Karatu (198 ha, 22%) and Longido (12 ha, 1%), (Chart 3.21).

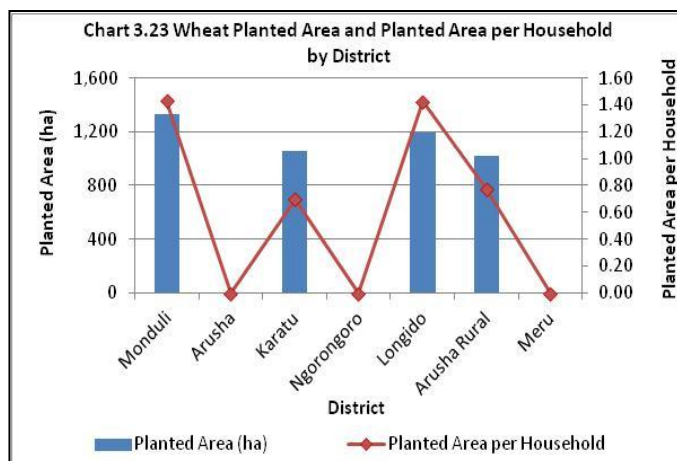
The highest yield was in Meru (3.13t/ha) followed by Karatu (2.53t/ha) and the lowest was in Longido (0.74t/ha), (Chart 3.22). The average harvest per household was 0.98t/hh with the highest in Karatu (1.13t/hh and lowest in Longido 0.31t/hh)



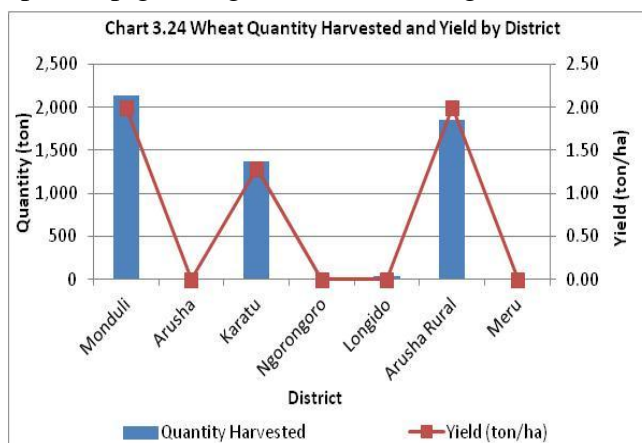
The production of paddy decreased from 3,809 tonnes in 2002/03 to 2,271 tonnes in 2007/08. However the yields of paddy in the two reference years remained constant at 2.6 tonnes per hectare but the area planted with paddy decreased from 1,444 hectares in 2002/03 to 887 in 2007/08.

3.3.3.1.3 Wheat

Wheat was the third most important cereal crop in the region. A total of 4,595 agricultural households planted wheat on 4,599 ha giving an average area of 1.0 ha/hh and harvested an average of 1.2t/h from a total harvest of 5,392 tonnes. There were significant variations in the average area planted per crop growing household among the districts ranging from 0.7 ha/hh in Karatu to 1.43 ha/hh in Monduli. The district with the largest planted area with Wheat was Monduli (1,330 ha) followed by Longido (1,193 ha), Karatu (1,057 ha) and Arusha Rural (1,018 ha), (Chart 3.23).

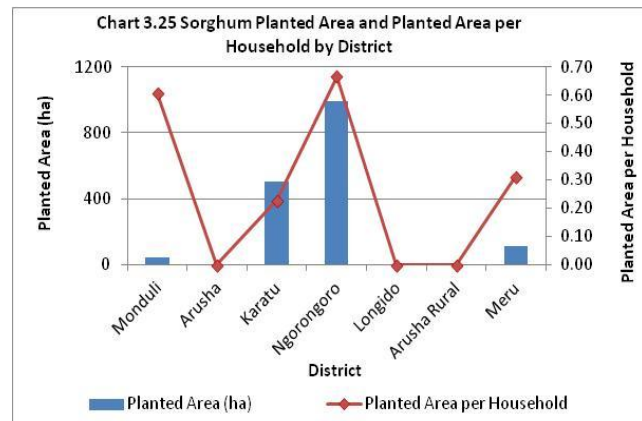


The highest yield was in Arusha Rural (1.98t/ha) and the lowest was in Longido (0.03t/ha), (Chart 3.24).

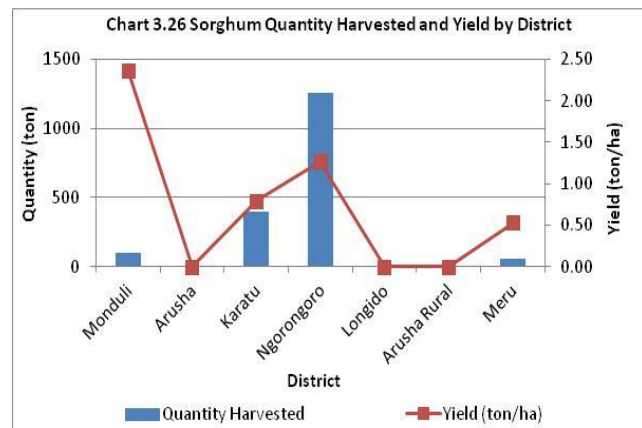


3.3.3.1.4 Sorghum

Sorghum was the fourth most important cereal crop in the region. The number of households that grew Sorghum in Arusha region was 4,157 with an average of 0.40ha/hh from a total of 1,658 ha /hh and an average harvest of 0.44t/hh from a total of harvest of 1,825 tonnes. There are significant variations in the average area planted per crop growing household among the districts ranging from 0.23 ha/hh in Karatu to 0.67 ha/hh in Ngorongoro. The highest average harvest per household was 1.44t/hh in Monduli and the lowest in Meru (0.16t/hh), (Chart 3.25).



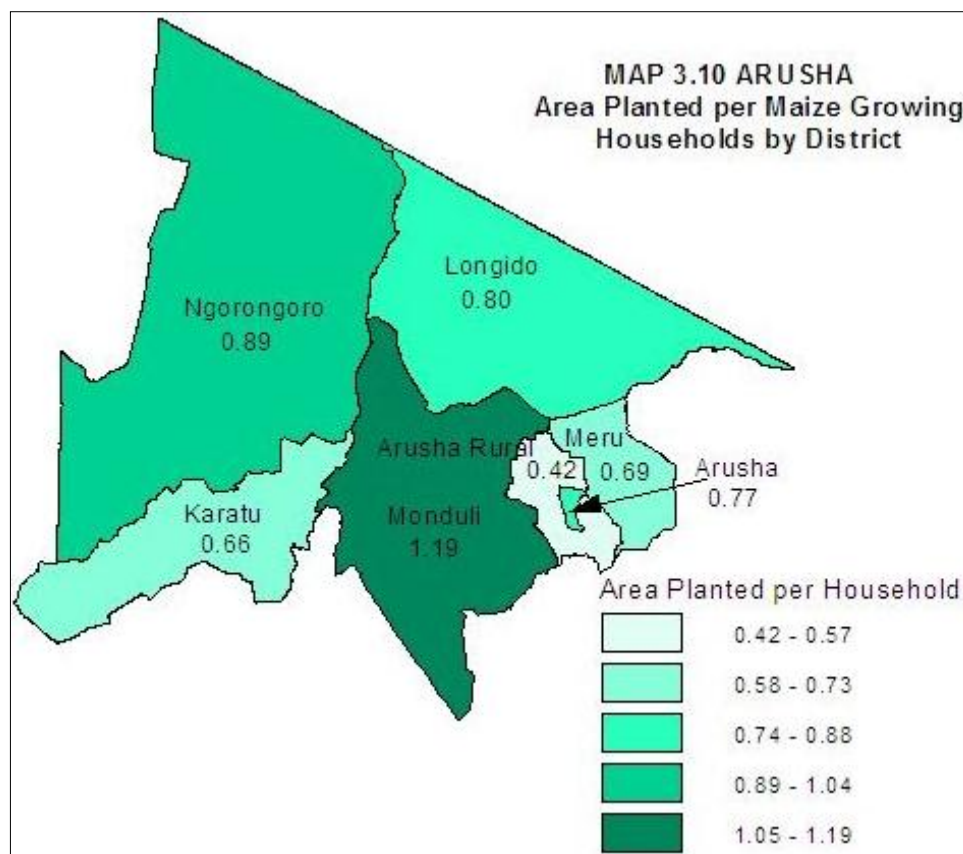
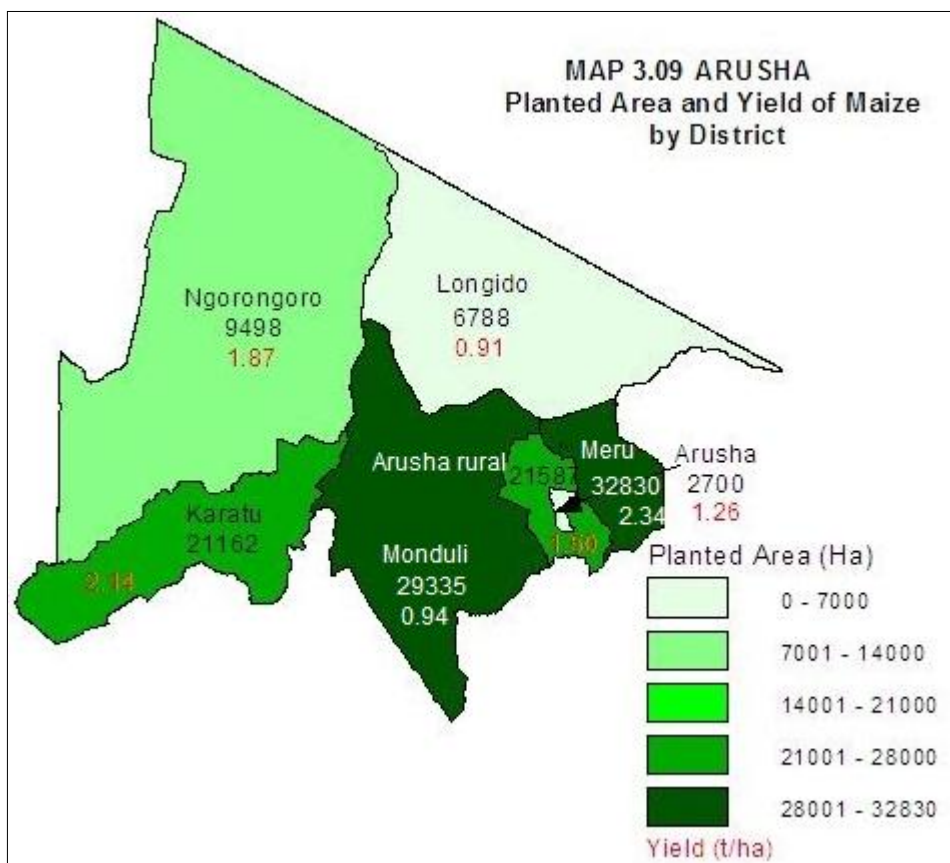
The total harvest of Sorghum was 1,825 tonnes from a planted area of 1,658 hectares resulting into a yield of 1.1 t/ha. The district with the largest area planted with Sorghum was Ngorongoro (994 ha, 60%) followed by Karatu (507 ha, 31%), Meru (114 ha, 7%) and Monduli (43 ha, 3%). The highest yield was in Monduli (2.37t/ha) and the lowest was in Meru (0.53t/ha) (Chart 3.26).



As compared to the 2002/03 census results, the production of Sorghum increased by 14% from 1,595 tonnes while the area under sorghum increased by 5% from 1,585 ha and the yield increased by 9% from 1.01t/h.

3.3.3.1.5 Finger Millet

The crop was produced in small quantities. It was produced by 1,498 households on 622 ha an average of 0.42 ha/hh. A total of 478 tonnes were produced giving an average yield of 0.77t/ha. Karatu had the largest number of finger millet growing households (624 hh, 42%) followed by Meru (610 hh, 41%), Longido (144 hh, 10%) and Arusha Rural (119 hh, 8%). With regard to planted areas with the crop, Meru had the largest planted area (321 ha, 52%) followed by Karatu (135 ha, 22%) Longido (94 ha, 15%) and Arusha Rural (73 ha, 12%).



3.3.3.2 Roots and Tuber Crops Production

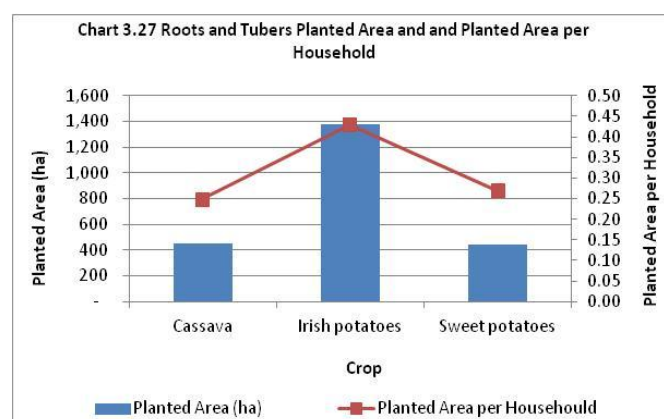
Roots and tubers were produced by a total of 6,662 agricultural households on 2,275ha, giving an average area of 0.34ha/hha and an average harvest of 1.01t/hh and yield of 2.96t/ha from a total harvest of

Table 3.3: Roots and tubers area/quantity harvested and number of households

Crop name	Quantity Harvested (tons)	Actual Planted Area (ha)	Average of Yield (tons/ha)	Number of Households	Area per households	Harvest per household
Cassava	1,404	454	3.09	1,788	0.25	0.79
Irish potatoes	3,996	1,380	2.90	3,229	0.43	1.24
Sweet Potato	1,328	441	3.01	1,645	0.27	0.81
Total/Average	6,728	2,275	2.96	6,662	0.34	1.01

6,728tonnes. (Table 3.3 and Chart 3.27).

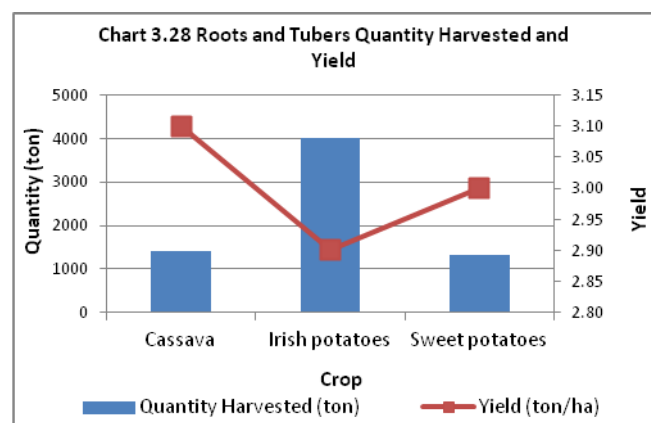
Irish potato was the major tuber crop produced by the largest number of households (3,229hh, 48%) followed by cassava (1,788hh, 27%) and sweet potatoes (1,645hh, 25%).



Irish potatoes had the largest production

among the roots and tuber crops in the region with a total production of 3,996 tones or 59 percent of the total root and tuber crops production followed by cassava with 1,404 tones (21%) and sweet potatoes (1,328 tones(20%). (Chart 3.28).

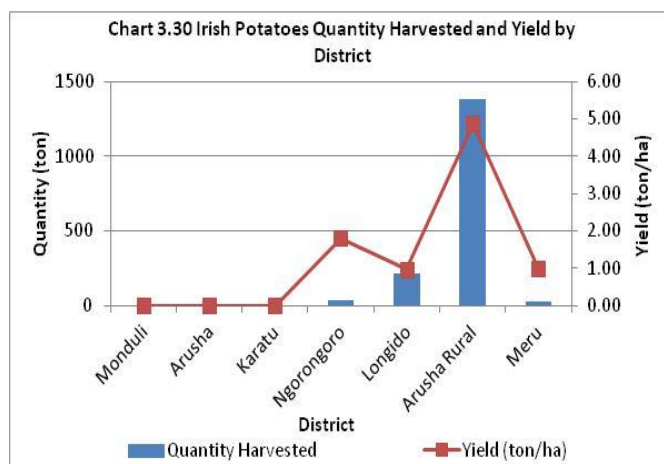
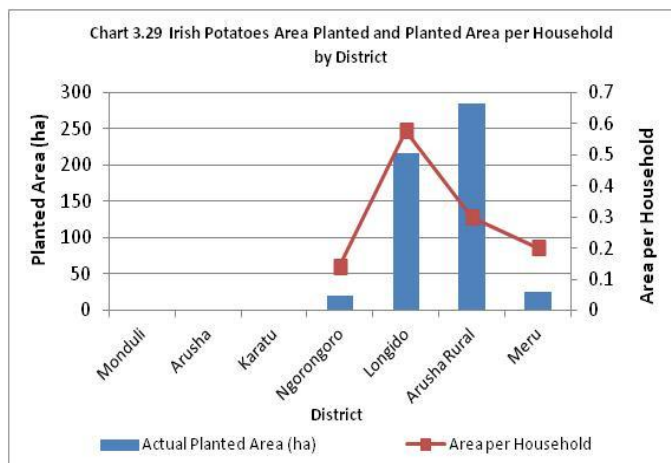
Despite having the largest production Irish potatoes had the lowest yield of 2.9 tonnes per hectare. However, cassava had the highest yield (3.1t/ha) followed by sweet potato (3.0t/ha)



3.3.3.2.1 Irish Potatoes

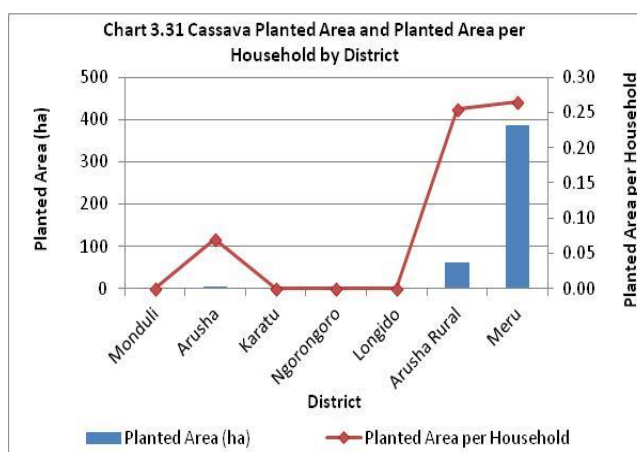
The number of households growing Irish potatoes in the region was 3,229 representing 48 percent of the total roots and tuber crops growing households in the region. The average planted area per Irish potatoes growing household was 0.3 hectares. However, there were small district variations. The area planted per Irish potatoes growing household was the largest in Longodo (0.6 ha/hh) followed by Arusha Rural district (0.4ha/hh), Meru (0.3 ha/hh), and Ngorongoro (0.1 ha/hh), (Chart 3.29).

Arusha Rural district had the largest planted area of Irish potatoes (285 ha) followed by Longido (216 ha), Meru (25 ha) and Ngorongoro (20 ha). The total production of Irish potatoes was 3,996 tonnes from a planted area of 1,380 hectares resulting into a yield of 2.9t/ha. The area planted with Irish potatoes accounted for 0.4 percent of the total area planted with annual crops and vegetables. Production of Irish potato was grown in very small areas of Monduli, Arusha, and Karatu (Chart 3.30). However, the highest proportion of land planted with Irish potatoes, expressed as a percent of the total land area was in Longido district (4.7%), followed by Arusha Rural (1.9%), Arumeru (1.2%), and Ngorongoro (0.1%), (Chart 3.30).

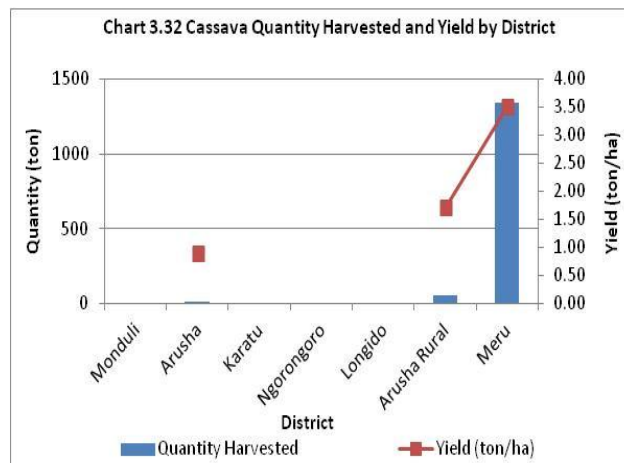


3.3.3.2.2 Cassava

The number of households growing cassava in Arusha region was 1,788. The average Cassava planted area per cassava growing household was 0.3 hectares per household and a harvest per household of 0.8t/hh. However, there were small district variations. Meru district had the largest planted area (387 ha, 85% of the cassava planted area in the region), followed by Arusha Rural (61 ha, 13%) and Arusha (6ha, 1%). The planted area per household was largest in Arumeru (0.33ha/hh) and the lowest in Arusha (0.7ha/hh) (Chart 3.31). Meru district had the largest number of cassava growing households (1,464hh, 82%) followed by Arusha Rural (239hh 13%) and Arusha (85hh, 5%). The harvest per household was the largest in Meru (0.91t/hh) followed by Arusha Rural (0.23t/hh) and Arusha (0.13t/hh).



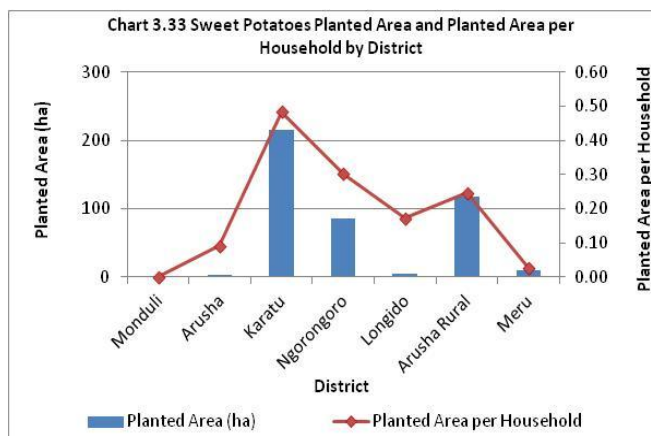
The total production of cassava was 1,404 tonnes from a planted area of 454 hectares resulting in a yield of 3.1t/ha. Meru district had the largest production (1,339 tonnes or 95% of cassava production in the region) followed by Arusha Rural (54tonnes, 4%) and Arusha (11tonnes, 1%) (Chart 3.32). Yield was the highest in Meru (3.5t/ha) followed by Arusha (1.7t/ha) and Arusha Rural (0.9t/ha).



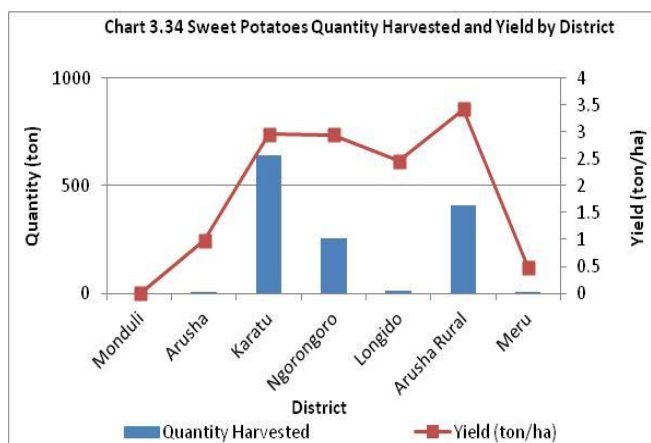
As compared to 2002/3 census results, there has been a 14% increase in the number of cassava growing households from 1,568hh. The area under cassava has increased by 155% from 178ha, the quantity harvested has increased by 108% from 675tonnes but the yield decreased by 23% from 3.8t/ha.

3.3.3.2.3 Sweet Potatoes

The number of sweet potatoes growing households in the region was 1,645 with a planted area of 441 hectares and a production of 1328 tonnes giving an average of area and harvest per household of 0.27ha/hh and 0.81t/hh respectively. This number of households was 25 percent of the total roots and tuber growing households in the region. However, there were small district variations. The area planted per sweet potatoes growing household was largest in Karatu (0.5ha/hh), followed by Ngorongoro (0.3 ha/hh), Arusha Rural (0.25 ha/hh), Longido (0.2 ha/hh), and Arusha (0.1ha/hh) (Chart 3.33).



The highest proportion of land planted with sweet potatoes, was in Karatu district (0.7%). This was followed by Ngorongoro and Arusha Rural each with 0.3 percent, Arusha (0.2%), and Longido (0.1%). Karatu district

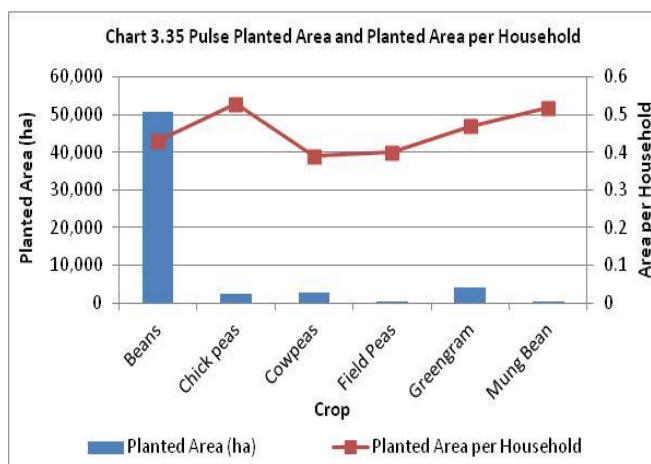


has the largest planted area for sweet potatoes (216ha, 49%), followed by Arusha Rural (118 ha, 27%), Ngorongoro (86 ha, 20%), Arumeru (9 ha, 2%), Longido (5 ha, 1% and Arusha (4. ha, 1 %). sweet potatoes was not grown in Monduli district. The largest quantity of sweet potatoes produced was in Karatu district (643 tonnes) followed by Arusha Rural (407 tonnes) and Ngorongoro (254 tonnes). The lowest quantity was in Arusha (4 tonnes), (Chart 3.34). Other roots and tuber crops were of minor importance in terms of area planted and production.

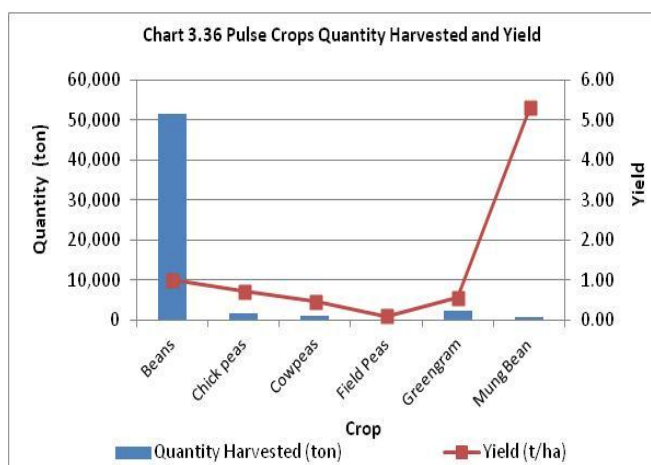
3.3.3.3 Pulse Crops Production

Pulses were grown by a total of 137,407 households on 60,082 hectares which produced 57,860 tonnes giving an average area and harvest per household of 0.44ha/hh and 0.42t/hh

Out of the total area planted with pulses 50,726 ha (84.4%) were planted with beans followed by green gram (4,071ha, 6.8%), cow peas (2,691 ha, 4.5%), chick peas (2,368 ha, 3.9%), mung beans (178 ha, 0.3%), and field peas (47 ha, 0.1%). (Table 3.5 and Chart 3.35)



Beans were the most important crop in the region year with a total production of 51,660.9 tonnes equivalent to 89 percent of the total pulse production followed by green gram (2289 tonnes, 4%), chick peas (1712 tonnes, 3%), cow peas (1248t, 2.2%), mung beans (945 tonnes, 1.6%). Field peas had the lowest production (5 tonnes, 0.01%). In terms of yields, mug bean has the highest yields per hectare of 5.3t/ha, followed by beans (1.0 t/ha). The remaining crops had lowest yields (Table 3.4 and Chart 3.36).



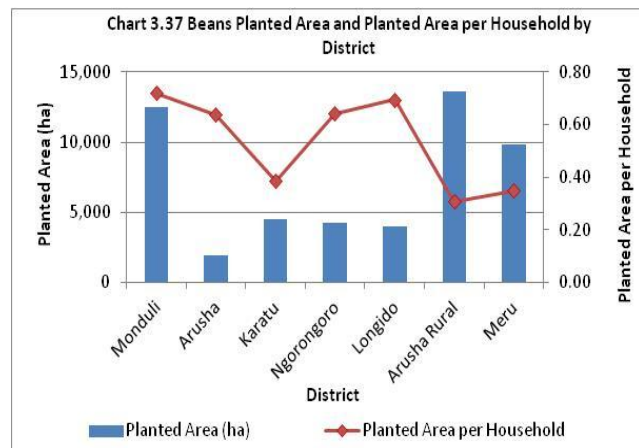
As compared to the census of 2002/3, the area planted with pulses increased by 10% from 54,794. Production increased by 146% from 23,477. Yield increased by 211% from 0.43t/ha.

Table 3.4: Type of crop, Area Planted and Quantity Harvested

Crop name	Quantity Harvested (tons)	Actual Planted Area (ha)	Average of Yield (tons/ha)	Number of Household	Area per household	Harvest per household
Beans	51,661	50,726	1.02	116,844	0.43	0.44
Chick peas	1,712	2,368	0.72	4,493	0.53	0.38
Cowpeas	1,248	2,691	0.46	6,924	0.39	0.18
Field Peas	5	48	0.10	119	0.40	0.04
Greengram	2,289	4,071	0.56	8,686	0.47	0.26
Mung Bean	945	178	5.3	342	0.52	2.76
Total	57,860	60,082	0.96	137,407	0.44	0.42

3.3.3.3.1 Beans

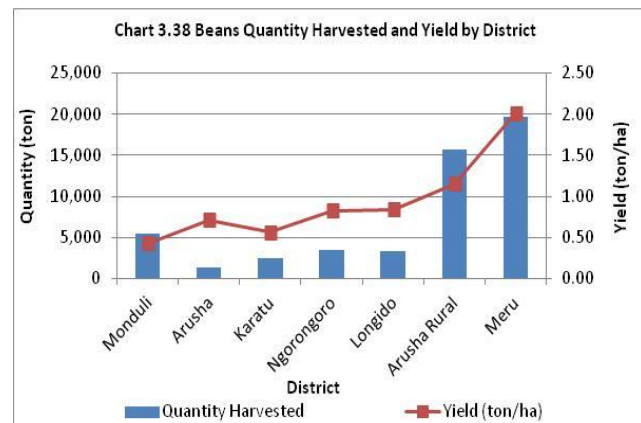
Beans had the largest production of pulse crops in the region. The number of households growing beans in the region was 116,844 on average area and harvest of 0.43ha/hh and 0.44/hh respectively. District wise the largest areas planted with beans per household were in Monduli and Longido districts each having 0.7 ha/hh, followed by Arusha and Ngorongoro each with 0.6 ha/hh (Map 3.12).



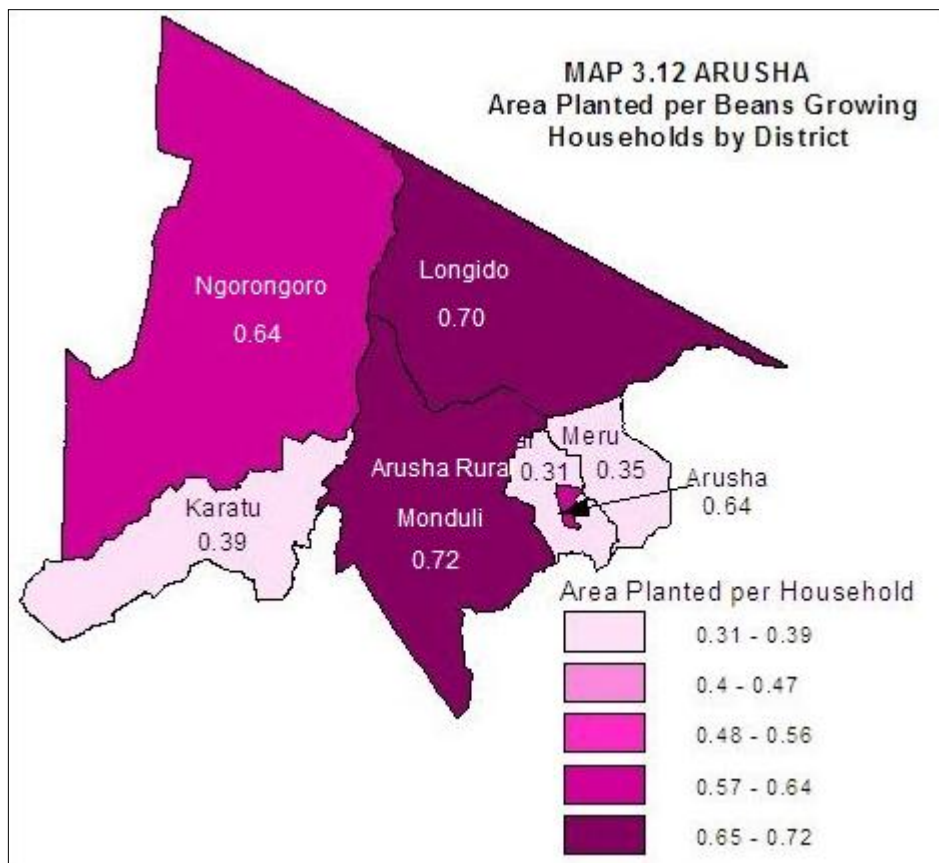
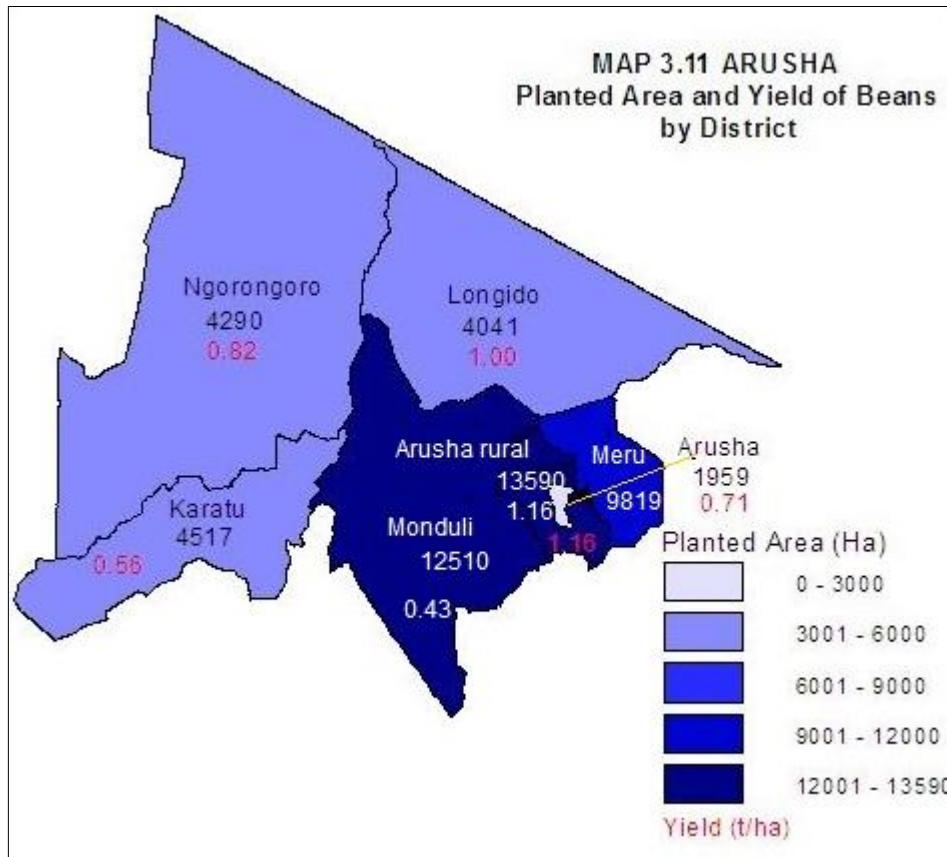
The total production of beans in the region was 51,661 tonnes from a planted area of 50,726 hectares resulting into a yield of 1.0 t/ha. The largest area planted with beans in the region was in Arusha Rural (13,590 ha, 26.8% of the total land area planted with pulses) followed by Monduli (12,510 ha, 24.7%) and Meru (9,819 ha, 19.4%), (Chart 3.37 and Map 3.11).

The total production of beans in the region was 51,661 tonnes from a planted area of 50,726 hectares resulting into a yield of 1.0 t/ha. The largest area planted with beans in the region was in Arusha Rural (13,590 ha, 26.8% of the total land area planted with pulses) followed by Monduli (12,510 ha, 24.7%) and Meru (9,819 ha, 19.4%), (Chart 3.37 and Map 3.11).

With the exception of Monduli, Arusha Rural and Arumeru districts, the variations in the yield of beans for the rest of the districts were small ranging from 0.43t/ha in Monduli to 2.5t/ha in Meru (Map 3.11).



In Arusha region, beans production has increased steadily over the five year period from 22,200 tonnes in 2002/03 to 51,661 tonnes in 2007/8 while the planted area has with beans decreased from 51,451 hectares in 2002/03 to 50,726 hectares. The yield of beans has increased over the same five year period from 0.43t/ha in 2002/03 to 1t/h in 2007/08 (Chart 3.38).



3.3.3.4 Oil Seed Production

Oil seeds were produced by a total of 9,265 agricultural households in the region with sunflower having the largest number of household (7,925 hh 86% of total households growing oil seeds) followed by soya beans (1,075hh, 12%), simsim (143hh, 2%) and groundnuts (122 hh, 1%). However Simsim had the largest area and harvest per household (2.63ha/hh and 2.1t/hh) followed by sunflower (0.28ha/hh and 0.15t/hh).

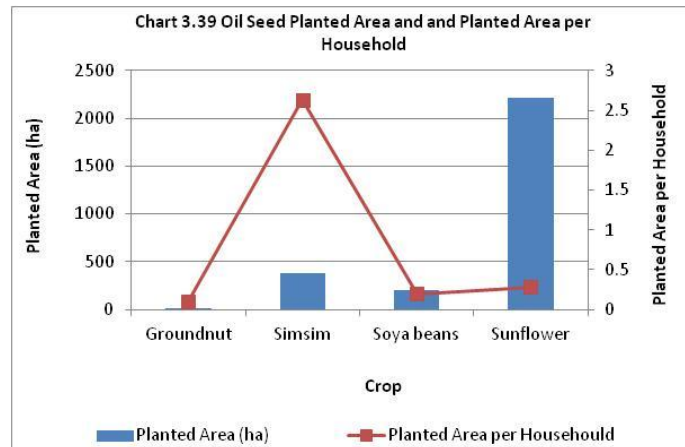
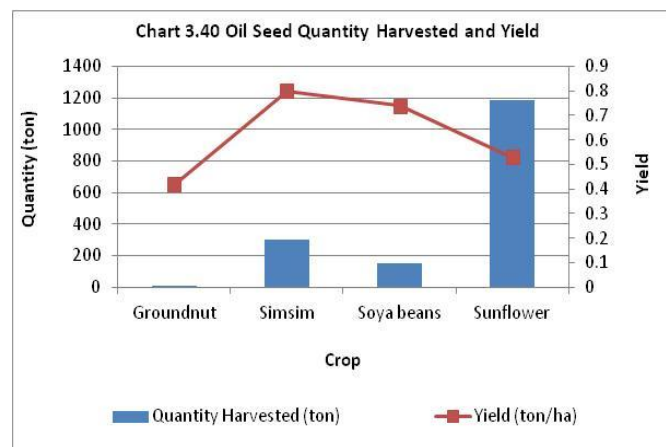


Table 3.5: Oil seed area, harvest and number of households

Crop name	Quantity Harvested (tons)	Actual Planted Area (ha)	Yield (tons/ha)	Number of Household	Area per household	Harvest per household
Groundnut	5	12	0.42	122	0.10	0.04
Simsim	300	376	0.80	143	2.63	2.10
Soya beans	153	206	0.74	1,075	0.19	0.14
Sunflower	1,187	2,217	0.53	7,925	0.28	0.15
Total/Average	1,645	2,811	0.59	9,265	0.30	0.18

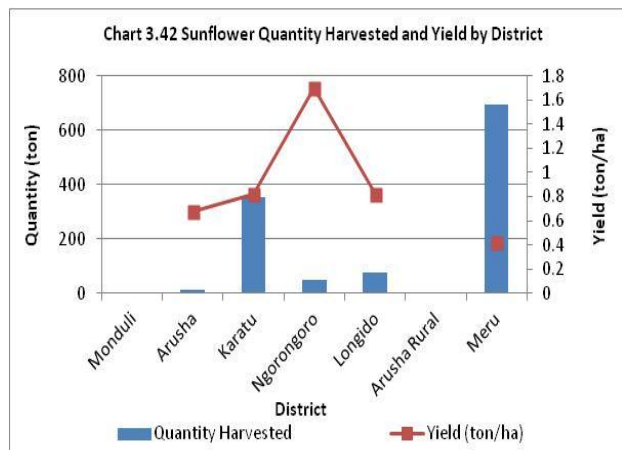
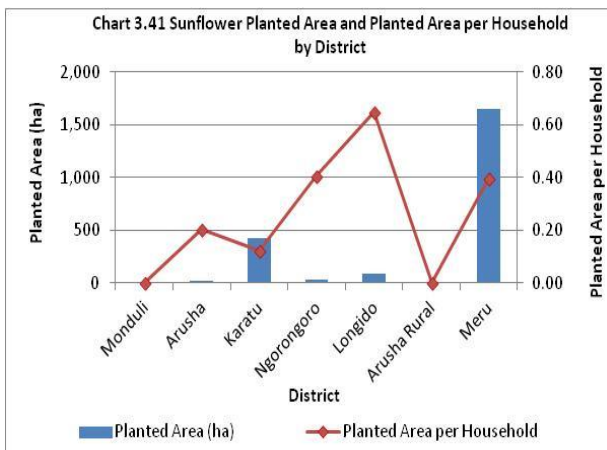
The total production of oilseed crops was 1,645 tonnes planted on an area of 2,811 hectares. Sunflower had the largest planted area (2,217 ha, 79% of the total area planted with oil seeds followed by simsim (376 ha, 13.4%), soya beans(206 ha, 7.3%) and groundnuts(12 ha, 0.4%). (Chart 3.40). In terms of production, sunflower had the largest harvest (1,187 tonnes, 72% of the total production of oil seeds). Simsim had the second largest harvest of oilseed crops (300 tonnes,18.2%, followed by soya beans (153 tonnes, 9.3%). There was very little production of groundnuts accounting for less than 1 percent of the total production of oil seeds. In terms of yields it was, simsim, had the largest yield of 0.8t/ ha, followed by soya beans (0.7t/ha), sunflower (0.5t/ha) and groundnuts(0.4t/ ha) (Table 3.5).

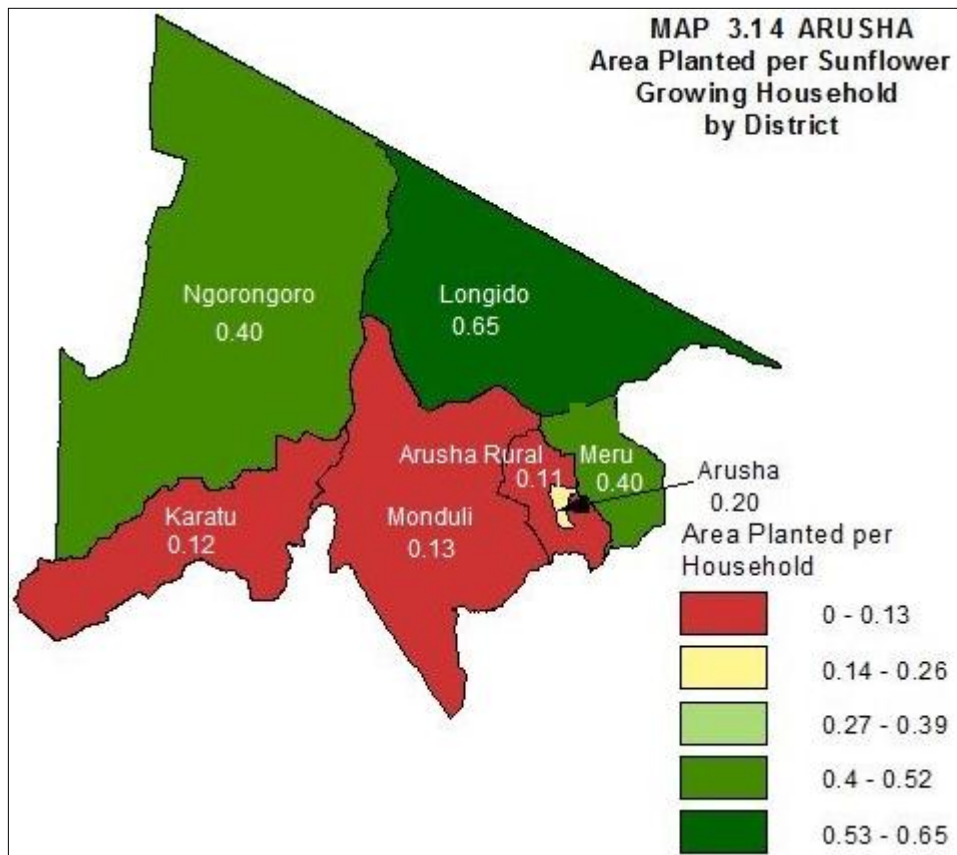
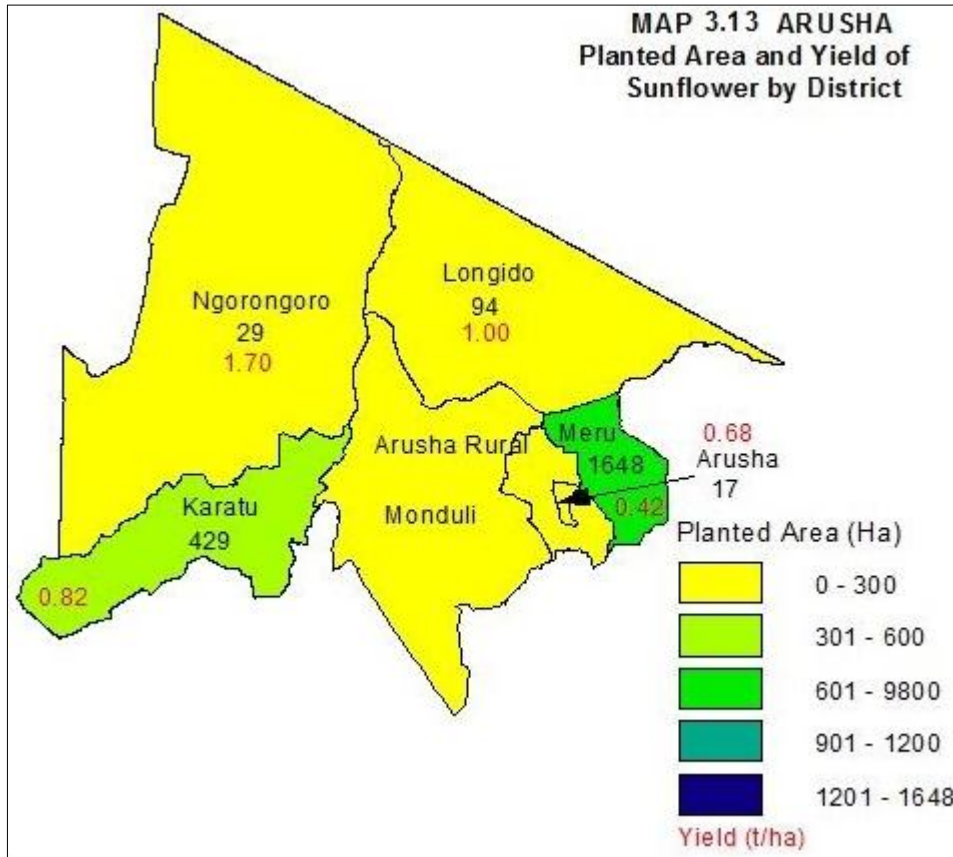


Sunflower

The number of households growing sunflower in Arusha region was 7,925 cultivating 2,217 ha which produced 1,187 tonnes with an average area and harvest per household of 0.28 ha/hh and 0.15t/hh respectively. The largest area planted per sunflower growing household was in Longido district (0.7 ha) and the smallest was in Karatu (0.1 ha). The range between the district with the largest and the smallest area planted per household depicts big variations in area planted among the districts. (Chart 3.41, map 3.14).

The highest proportion of land with sunflower was in Meru (3.7%), (Map 3.13). About 74 percent of the total area planted with sunflower was located in Meru district (1,648 ha), followed by Karatu (429 ha, 19%), and Longido (94 ha, 4%). The crop was least grown in Arusha and Ngorongoro, each with 1 percent and was not grown in Monduli and Arusha Rural districts (Map 3.13). The largest average harvest per household was in Ngorongoro (1.7t/hh) followed by Longido (1.0t/hh). Other districts harvested between 0.4 to 0.8t/hh) (Chart 3.42).

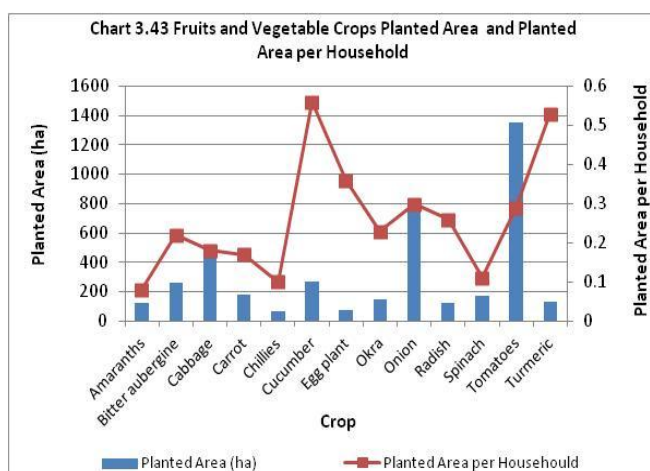




3.3.3.5 Fruit and Vegetables

The collection of fruits and vegetables data was somehow difficult due to the small quantities produced per household.

Fruits and vegetables were produced by a total of 17,737 households on 4,087 ha and a production of 30,549 tonnes with an average area and harvest per household of 0.24ha/hh and 1t/hh respectively. Tomato was grown by the largest number of households (26%) followed by onions and cabbage (14% each), spinach & amaranthus (9%), bitter aubergine (7%). Other fruits and

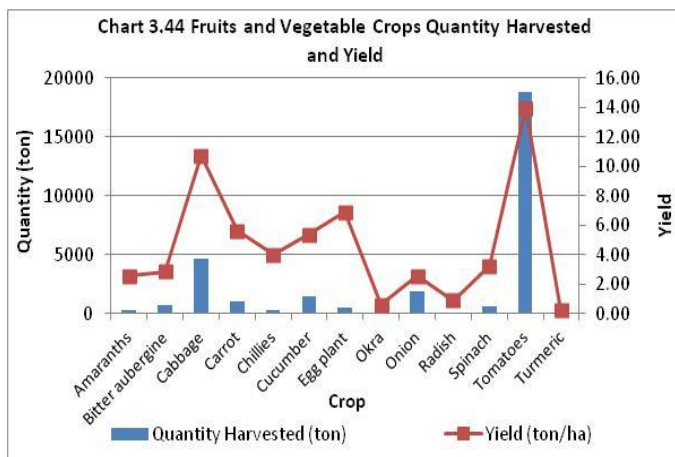


vegetables were produced by households ranging between 1% and 6%. Tomatoes had the largest planted area (1351 ha) followed by cabbage (434 ha) and the least was chillies (69 ha), (Table 3.6 and Chart 3.43).

Table 3.6: Fruits & Vegetables area, production, yield and number of households

Crop name	Quantity Harvested (tons)	Actual Planted Area (ha)	Yield (tons/ha)	Number of Household	Area per household	Harvest per household
Amaranths	309	120	2.58	1,580	0.08	0.20
Bitter aubergine	751	263	2.86	1,218	0.22	0.59
Cabbage	4,649	434	10.71	2,396	0.18	1.94
Carrot	993	176	5.64	1,029	0.17	0.97
Chillies	276	69	4.00	701	0.10	0.39
Cucumber	1,464	272	5.38	488	0.56	3.00
Egg plant	519	75	6.92	207	0.36	2.51
Okra	94	150	0.63	648	0.23	0.15
Onion	1,925	754	2.55	2,513	0.30	0.77
Radish	110	122	0.90	472	0.26	0.23
Spinach	566	173	3.27	1,636	0.11	0.35
Tomatoes	18,866	1,351	13.96	4,606	0.29	4.10
Turmeric	27	127	0.21	241	0.53	0.11
Total/Average	30,549	4,087	7.47	17,737	0.24	7.72

The total production of fruits and vegetables was 30,549 tonnes on an area of 4,087 ha and average yield of 7.5t/ha. The most cultivated crop was tomatoes with a production of 18,866 tonnes (61.8% of the total fruits and vegetable production), followed by cabbage (4,649 tonnes, 15.2%), onions (1,925 tonnes, 6.3 %), cucumber (1,464 tonnes, 4.8 %), carrot

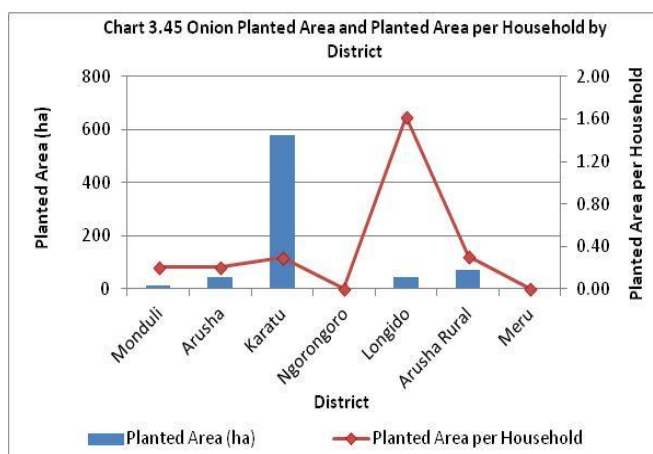


(993 tonnes 3.3%), bitter aubergine (751 tonnes, 2.5%), spinach (566 tonnes, 1.9%), egg plant (519 tonnes, 1.7%), amaranthus (309 tonnes, 1%), and chillies (276 tonnes, 0.9%). The production of other fruits and vegetables was relatively small, each with less than 1 percent of the total fruits and vegetables produced (Table 3.4). The yield of tomatoes was 14t/ha, cabbage (10.7 t/ha), egg plant (6.9 t/ha), carrot (5.6t/ha), cucumber (5.4 t/ha), and chillies (4 t/ha). Other fruits and vegetables each had relatively small yield of less than 4 tonnes per hectare (Chart 3.44).

3.3.3.5.1 Onions

The number of onions growing households in the region during the census year was 2,513 14.2 percent of the total fruits and vegetables growing households in the region. The area planted with onions was 754 ha (18.4% of the total fruits and vegetable area) with a harvest of 1,925 tonnes(6.3% of the fruits and vegetable harvest).therefore the average planted area household was 0.3 hectares and the average harvest per household was 0.8 tones.

Karatu district had the largest number of onion growing households (1,961 hh,78%) followed by Arusha rural (239 hh,2%), Arusha (213 hh,8%) Monduli (71 hh,3%) and Longido (29 hh)

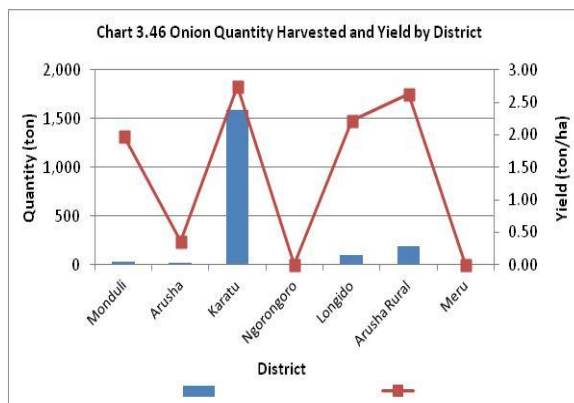


Karatu district had the largest planted area of onions (577 ha, 76.5% of the total area planted with onions in the region), followed by Arusha Rural (73ha, 9.6%), Longido (47ha, 6.2%), Arusha (43ha, 5.7%), and Monduli (14ha, 2%). Ngorongoro and Arumeru districts did not produce onions (Map 3.15 and 3.16), (Chart 3.45).

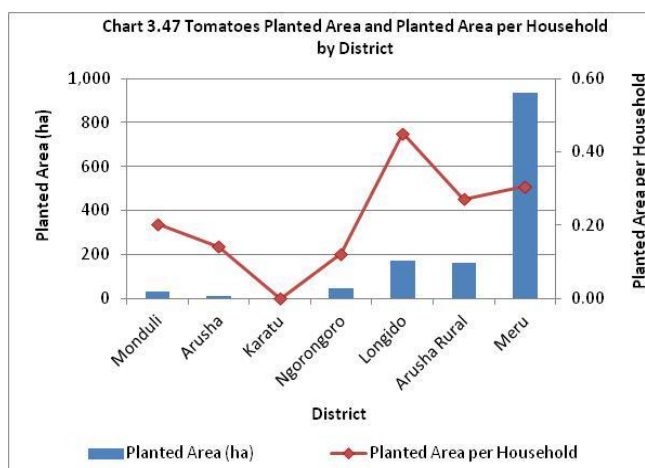
Karatu had the largest harvest (1,586tonnes, 82%) followed by Arusha Rural (191t 10%), Longido (104t, 5%), Monduli (29t, 2%) and Arusha (15t, 1%), (Chart 3.46).

3.3.3.5.2 Tomatoes

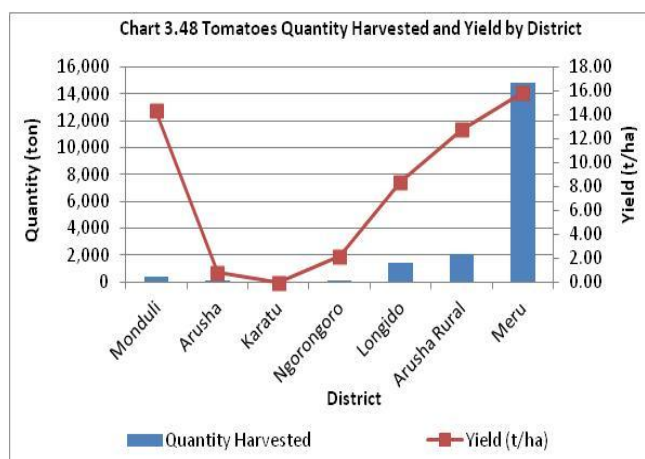
The number of households growing tomatoes was 4,606 or 26 percent of the total fruits and vegetable growing households in the region. Meru district had the largest number of tomato growing households (3,050 hh, 66% of tomato growing household in the region), followed by Arusha Rural (597 hh, 13%), Longido (376 hh, 7.6%), Ngorongoro (355 hh or 8%), Monduli (143 or 3%) and Arusha (85 or 2%). There was no production of tomatoes in Karatu district, (Map 3.17).



A total of 18,866 tonnes of tomatoes were produced on an area of 1,351ha giving yield of 14t/ha. The largest land area with tomatoes was in Arumeru district (935 ha, 69.2% of the total area used for tomato production in the region), followed by Longido (170 ha,12.6%) and Arusha (162ha, 12%). There was a relatively low percentage of land used for tomato production in Ngorongoro, Monduli, and Arusha districts. The largest area planted per tomatoes growing household was in Longido district (0.5 ha/hh) followed by Arumeru and Arusha Rural each with 0.3ha/hh, and Monduli (0.2ha/hh). Arusha and Ngorongoro had relatively smallest areas planted per tomato growing household each with 0.1ha/hh (Chart 3.47 and Map 3.18).



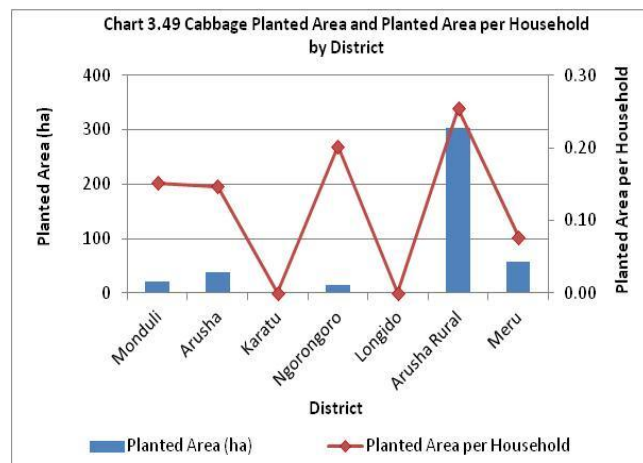
Meru district had the largest quantity of tomatoes harvested (14,853 tonnes) followed by Arusha Rural (2,066 tonnes) and Longido (1,427 tonnes). (Chart 3.48).



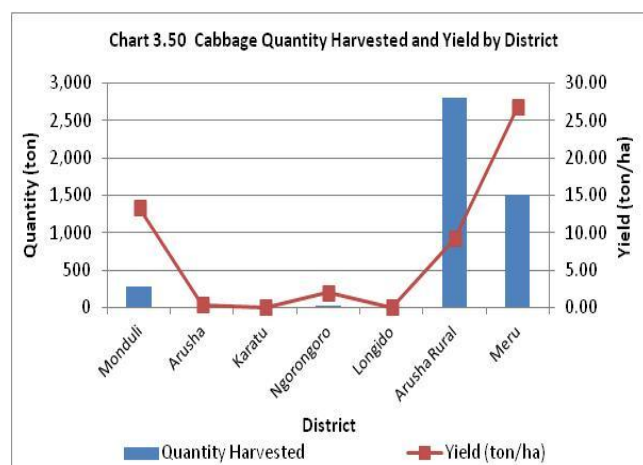
3.3.3.5.3 Cabbage

Cabbage was grown by a total of 2,396 households on 434ha/hh which produced 4,649 tonnes. The number of households was equivalent to 13.5 percent of the total fruits and vegetable growing households in the region. The planted area was 11 percent of the total area planted with fruits and vegetables while the lowest was equivalent to 15 percent of the total harvest of fruits and vegetables. Arusha Rural had the largest number of cabbage growing households (1,194 hh) followed by Meru (732 hh), Arusha (256 hh), Monduli (143 hh) and Ngorongoro (71 hh)

Arusha Rural district had the largest planted area of cabbage (304 ha, 70% of the total area planted with cabbage in the region), followed by Arumeru district (56ha, 15%), Arusha (38ha, 8.7%), Monduli (22ha, 5%) and Ngorongoro (14 ha, 3.3%). Longido and Karatu did not produce the crop. The largest proportion of the area planted with cabbage was in Arusha district (1.7%), and Arusha Rural (0.7%) (Chart 3.49).



Arusha Rural had the largest quantity of cabbage harvested (2,805 tonnes) followed by Meru (1,511 tonnes) and Monduli (290 tonnes). (Chart 3.50). As compared to the 2002/3 census results, the area planted has decreased by 39% from 710ha and the quantity harvested has increased by 65% from 2,813t while the yield has increased by 170% from 3.97t/ha.



3.3.3.5.4 Spinach

The number of households growing spinach was 1,636 or 9 percent of the total fruits and vegetable growing households in the region. Arusha district had the largest number of spinach growing households (426 hh), followed by Meru (366 hh), Ngorongoro (284 hh) and Arusha Rural (239 hh).

The largest land area with spinach was in Arusha district (78 ha). The largest area planted per spinach growing household was in Arusha district (0.2 ha/hh). (Chart 3.51)

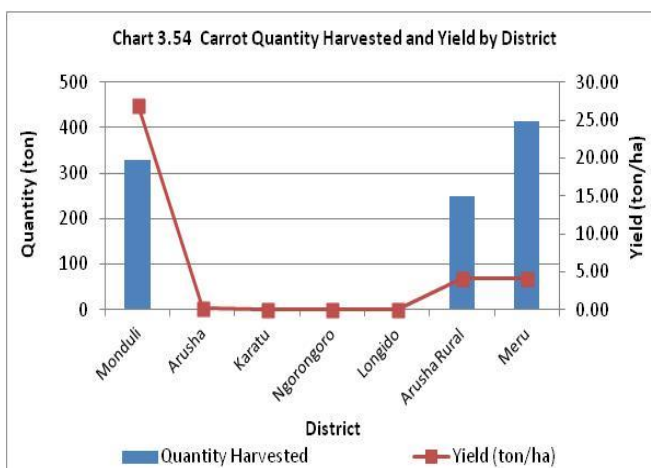
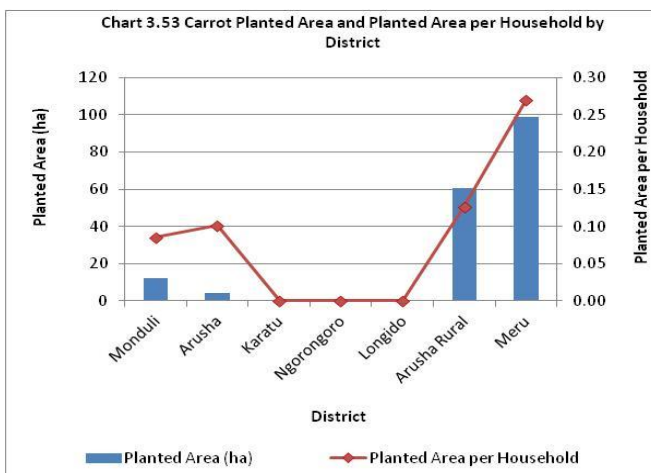
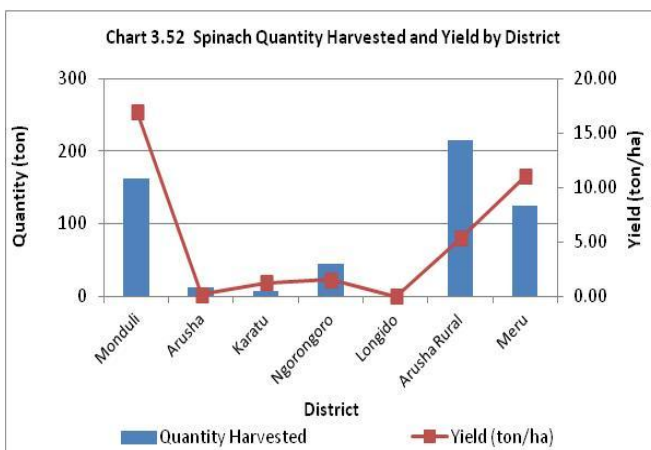
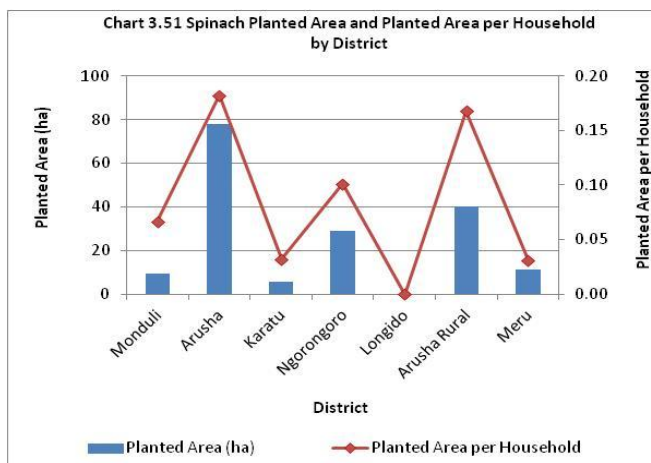
A total of 566 tonnes of spinach were produced with Arusha Rural district having the largest quantity of spinach produced (215 tonnes). (Chart 3.52).

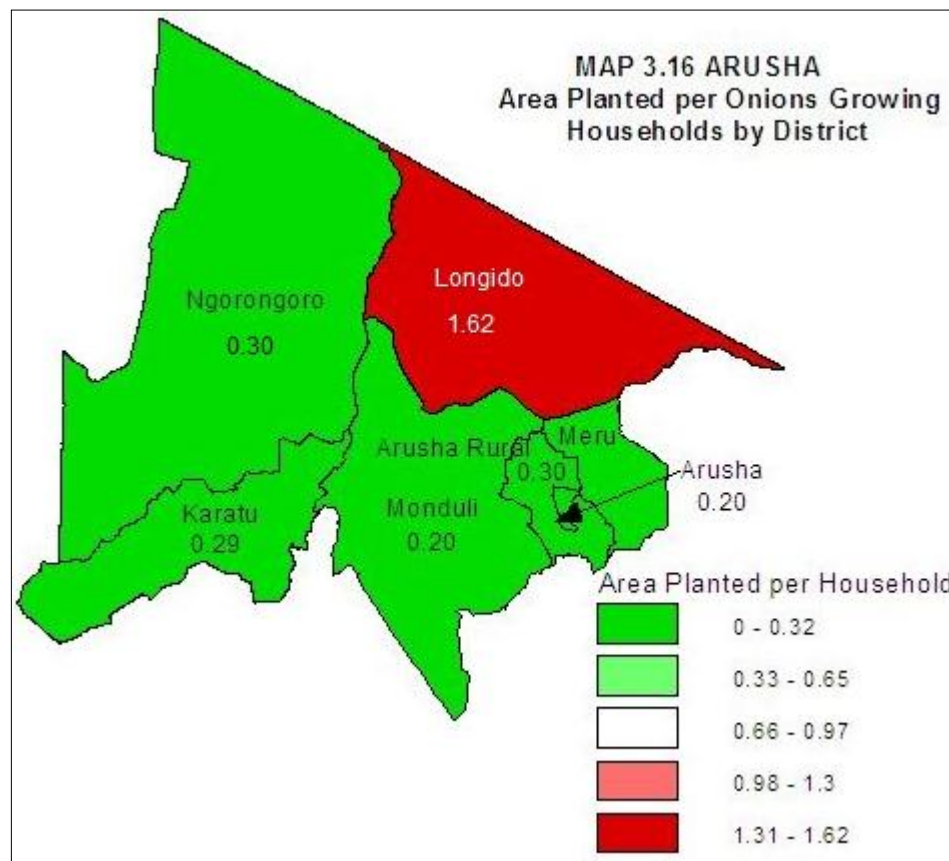
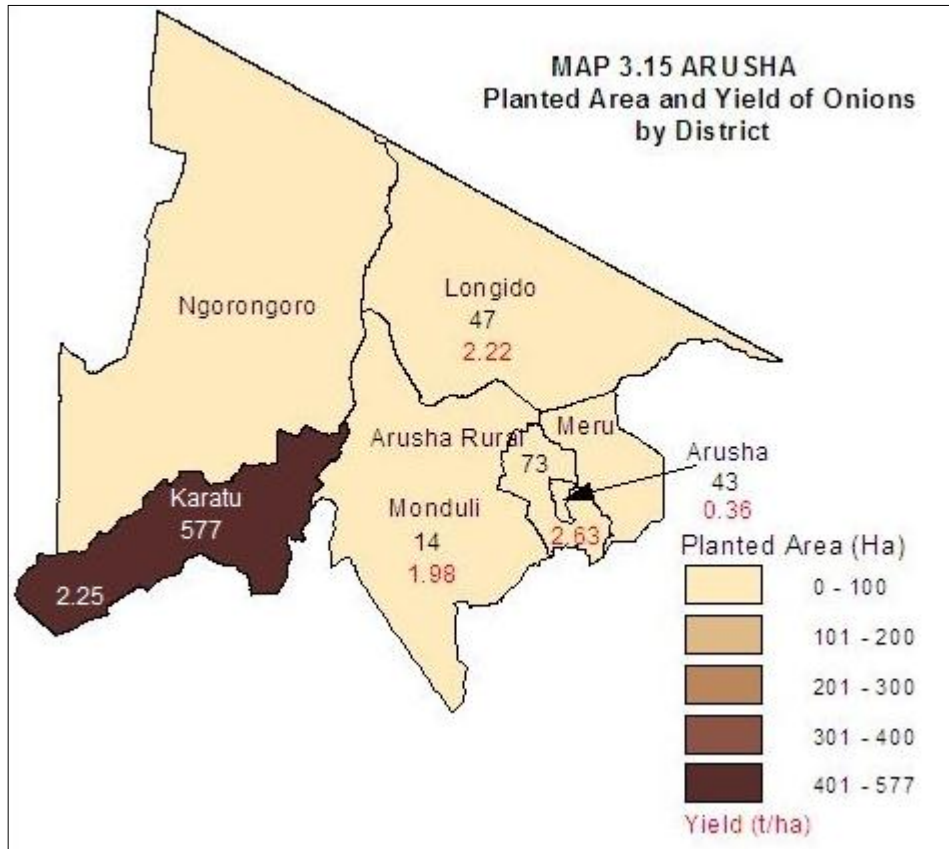
3.3.3.5.5 Carrot

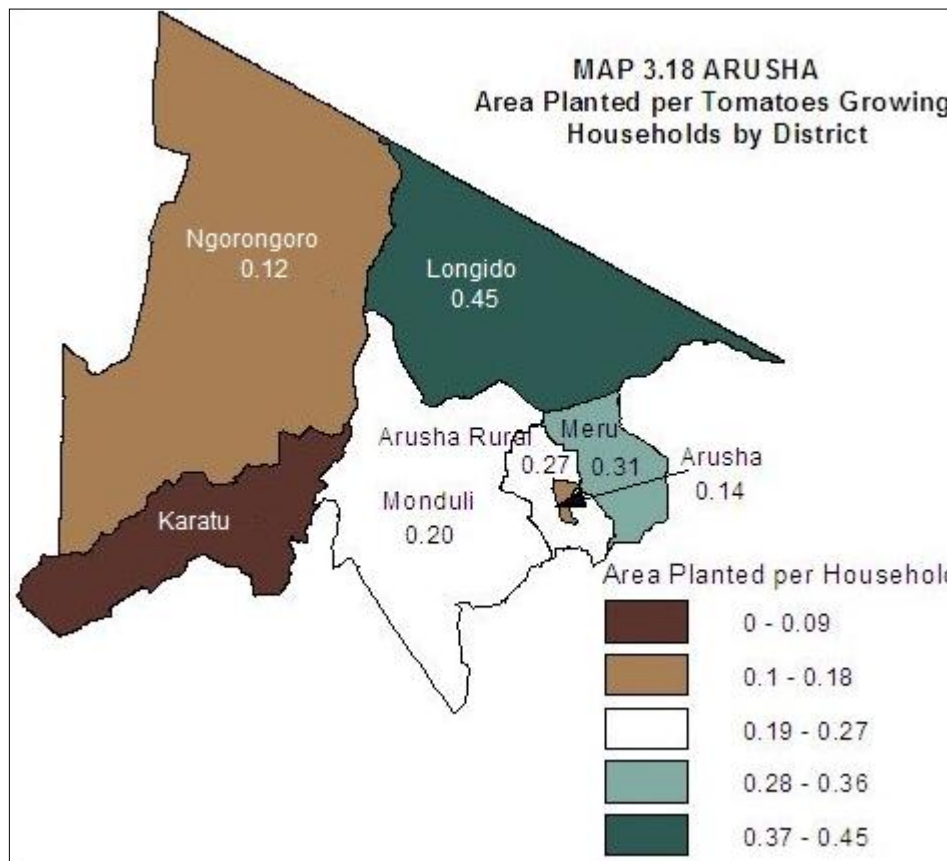
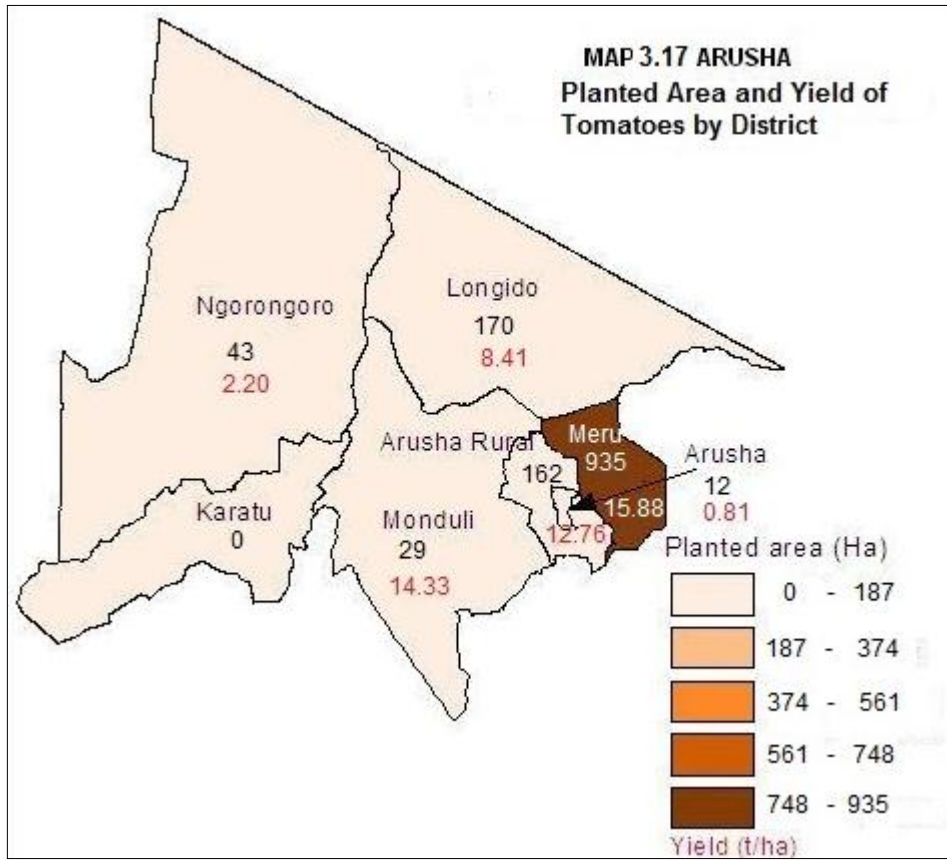
Arusha had 1,029 households growing carrot. Arusha Rural district had the largest number of carrot growing households (476 hh), followed by Meru (366 hh) and Monduli (143 hh).

The largest land area planted with carrot was in Meru (99 ha, 56%). The largest area planted per carrot growing household was in Meru district (0.27 ha/hh) and the least was in Monduli. (Chart 3.53)

A total of 993 tonnes of spinach were produced with Meru district having the largest quantity of carrot produced (415 tonnes, 42%) followed by Monduli (329 tonnes, 33%) and Arusha Rural (248 tonnes, 25%). (Chart 3.54).







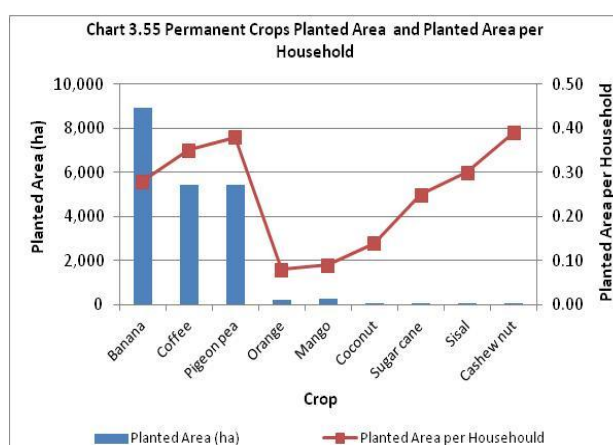
3.4 Permanent Crops

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

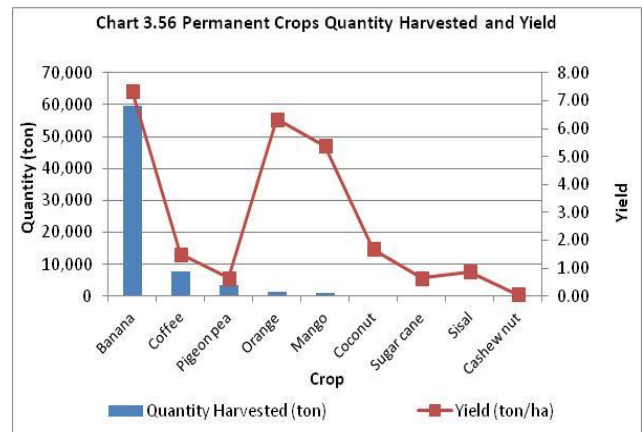
Table 3.7: Number of households, area and production of permanent crops

Crop	Number of households	Area planted (ha)	Area harvested (ha)	Quantity harvested (tons)	Area planted per hh	Area harvested per hh	Harvest per hh	Yield (t/ha)
Banana	32,231	8,939	8,109	59,651	0.28	0.25	1.85	7.36
Coffee	15,736	5,447	5,044	7,598	0.35	0.32	0.48	1.51
Pigeon pea	14,455	5,438	5,335	3,462	0.38	0.37	0.24	0.65
Orange	2,504	211	204	1,296	0.08	0.08	0.52	6.34
Mango	3,247	281	198	1,067	0.09	0.06	0.33	5.38
Coconut	315	44	36	61	0.14	0.11	0.19	1.68
Sugar cane	279	69	67	43	0.25	0.24	0.16	0.65
Sisal	119	35	35	31	0.30	0.30	0.26	0.88
Cashewnut	43	17	17	1	0.39	0.39	0.02	0.06
other	16,504	2,322	1,643	7,051	0.14	0.10	0.43	4.29
Total/average	85,435	22,802	20,689	80,262	0.27	0.24	0.94	3.88

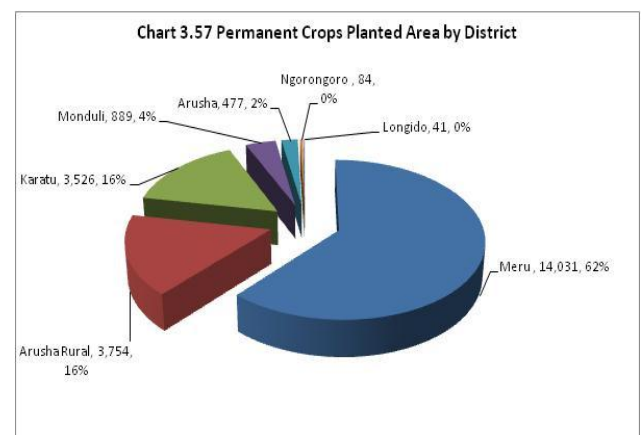
Arusha region had a total of 85,435 households that grew permanent crops on an average area and harvest per household of 0.21ha/hh and 0.39t/hh respectively (Table 3.7). Banana was the most important permanent crop grown by 37.73% of all permanent crops growing households followed by coffee (18.42%), pigeon peas (16.92%), mango (3.8%), oranges (2.93%), coconut (0.37%) sugar cane (0.33%), sisal (0.14%) and cashew nut (0.05%). Other permanent crop had a total of 19.3 percent of the households.



Cashewnuts had the largest area per household (0.39ha/hh) followed by pigeon peas (0.38ha/hh) and sisal (0.3ha/hh). Others had smaller areas ranging from 0.08 – 0.28ha/hh. Banana had the largest harvest per household (1.85t/hh) followed by orange (0.52t/hh) and coffee (0.48t/hh). Others had smaller harvests ranging from 0.02 – 0.6ha/hh, (Chart 3.55).

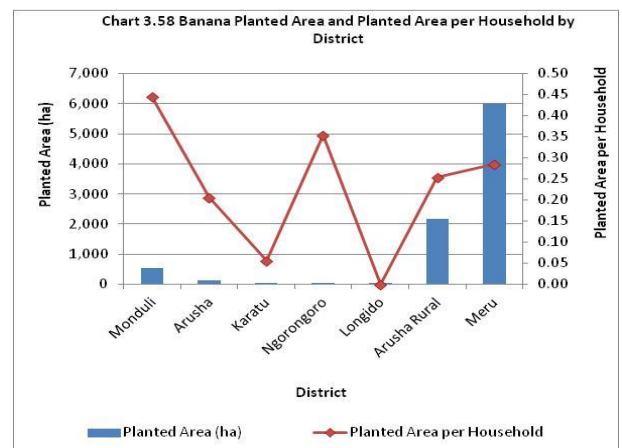


The total harvested quantity of permanent crops was 80,262 tonnes from a total area of 20,689ha giving an average yield of 3.88 t/ha. Banana had largest harvest(74.3% of the total harvest of permanent crops) followed by coffee (9.5%), (Chart 3.56). Meru district had the largest area under smallholder permanent crops (14,031 ha, 61.5%), followed by Arusha Rural (3,754, 16.5%) and Karatu (3,526 ha, 15.5%). Other districts in their order of importance include Monduli (889 ha, 3.9%), Arusha (477ha, 2.1%), Ngorongoro (84ha, 0.4%), and Longido (41ha, 0.2%). (Chart 3.57).

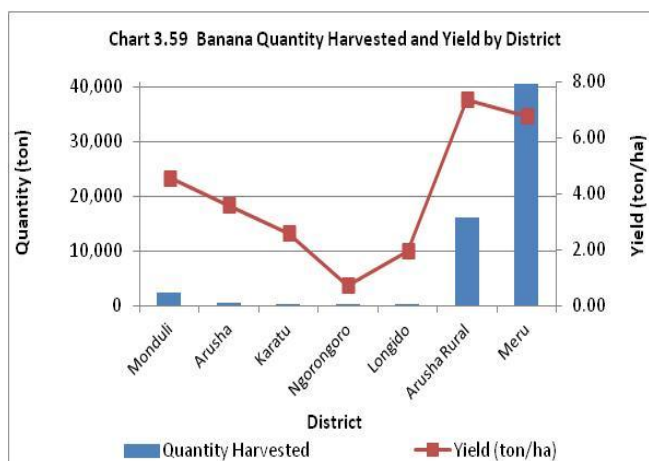


3.4.1 Banana

Banana was grown by 32,231 agricultural households on 8939ha, giving an average of 0.3ha/hh and an average harvest of 1.85t/hh. The average area planted with banana per banana growing household was the largest in Ngorongoro (0.35ha/hh) followed by Meru (0.29ha/hh), Monduli (0.26ha/hh) and Arusha Rural (0.2ha/hh). Other districts had areas per household ranging between 0.04 – 0.14ha/hh. (Map 3.20). The average harvest per household was the largest in Monduli (2.03t/hh) followed by Arumeru (1.93t/hh), Arusha rural (1.86t/hh) and Arusha (0.74t/hh). Other districts had harvests ranging between 0.14 – 0.31 t/hh (Chart 3.58, Map 3.19).

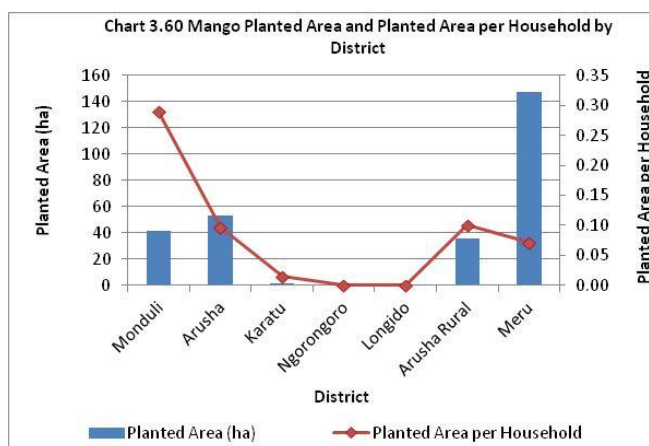


A total of 59,651 tonnes of banana was produced by small holders on a total area of 8,109ha giving an average yield of 7.36t/ha. The largest area with harvested banana was in Meru district (5,906 ha or 72.8% of the total area under banana) followed by Arusha Rural (1,712 ha or 21.1%) and Monduli (313 ha or 1.1%). The rest of the districts had areas not exceeding 0.6% each. Meru district had the largest quantity of harvested banana (40,520 t or 68% of total harvested quantity) followed by Arusha Rural (16,037t or 27%) and Monduli (2,470 t or 4.1%). The rest of the districts each had a harvest not exceeding 0.8% . (Chart 3.59)

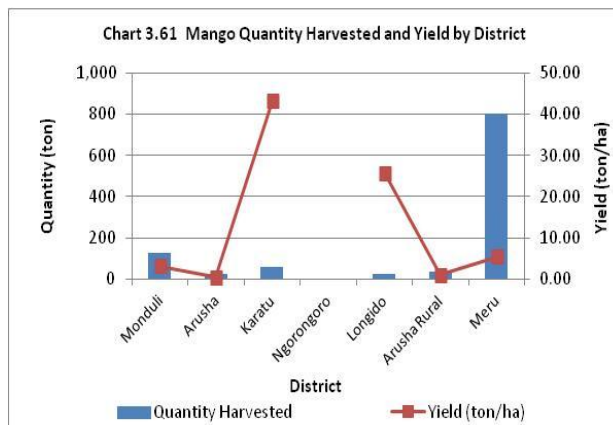


3.4.2 Mango

Mango was grown by a total of 3,247 households on a harvested area of 198 ha, giving an average of 0.06 ha/hh and an average of 0.33t/hh from a total harvest of 1,067 tonnes. Meru district had the largest number of mango growing households (2,074 hh or 64% of the total mango growing households) followed by Arusha (554 hh or 17%) and Arusha rural (358 hh or 11%). The rest of the districts each had households not exceeding 4%. Meru district had the largest planted area with mangoes (147ha or 56% of the total area under mangoes) followed by Arusha (47ha, 24%), Arusha rural (30ha or 15%) and Monduli (7ha or 3.5%). The rest of the districts each had an area not exceeding 0.7%. (Chart 3.60).



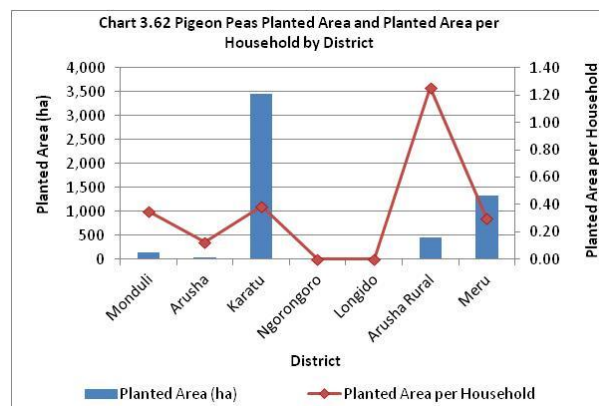
The total production of mango by smallholders was 1,067 tonnes harvested from a total area of 198 ha giving an average yield of 5.39 t/ha. (Map 3.21&22). Meru district had the largest harvest (801t or 75% of the total mango harvest) followed by Monduli (127 t or 12%), Karatu (58 t or 5%). The rest of the districts each had harvests not exceeding 3% of the total



harvested quantity. Yield was the largest in Monduli (0.89 t/ha) followed by Longido (0.79 t/hh), Karatu (0.65t/hh), Meru (0.39t/ha), Arusha rural (0.1t/ha) and Arusha (0.04t/ha). (Chart 3.61 and Map 3.21). As compared to the 2002/3 census results, the area harvested has increased by 466% from 35 ha but the quantity harvested has decreased by 17% from 1,284t. The yield has also decreased by 57% from 36.74 t/ha

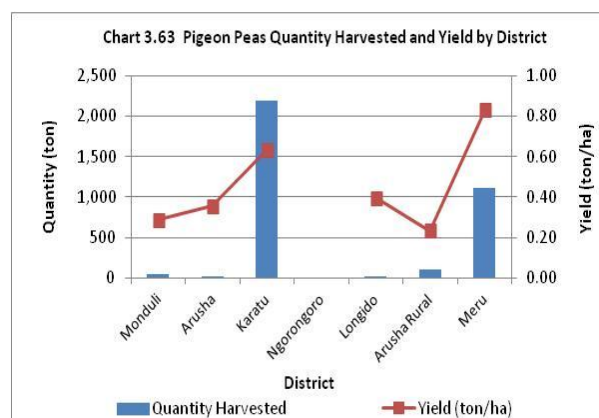
3.4.3 Pigeon Peas

Pigeon peas were grown by 14,445 households (17% of the total permanent crop growing households) on 5,438 ha giving an average planted area of 0.38ha/hh and an average harvest of 0.24 t/hh from a total harvest of 3,462 tonnes.



The number of pigeon peas growing households was largest in Karatu (8,912 hh or 62% of all pigeon pea growing households in the region) followed by Meru (4,514 hh or 31%), Monduli (429 hh or 3%). Other districts had a total of 4%. The average area planted with pigeon peas per household was largest in Arusha Rural (1.26 ha/hh) followed by Longido (0.52 ha/hh) and Karatu (0.39 ha). Karatu had the largest area of pigeon peas in the region (3,383 ha, 63%) followed by Meru (1,339 ha, 32%) and Arusha Rural (421 ha, 3%). (Chart 3.62 and Map 3.23&24).

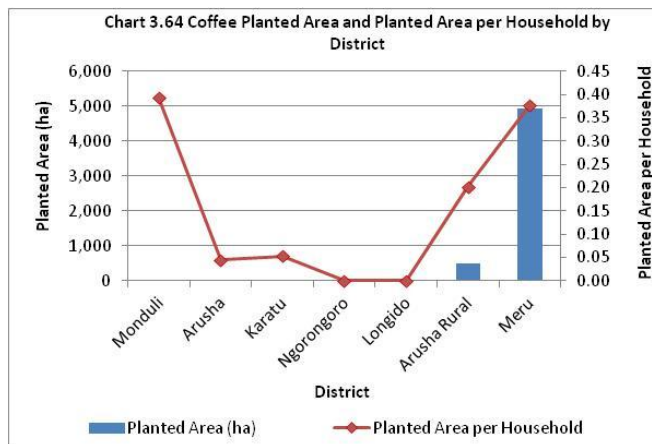
The total production of pigeon peas by smallholders was 3,462 tonnes grown on a total area 5,335 ha giving an average yield of 0.65t/ha. As compared to the 2002/3 census reports, the number of pigeon peas growing households has increased by 92% from 7,514 while the area per



household has decreased by 38% from 0.76ha/hh. Likewise, the area harvested has increased by 98% from 2,697ha and the quantity harvested increased by 59% from 2,182t. The yield has also increased by 20% from 0.385t/ha, (Chart 3.63).

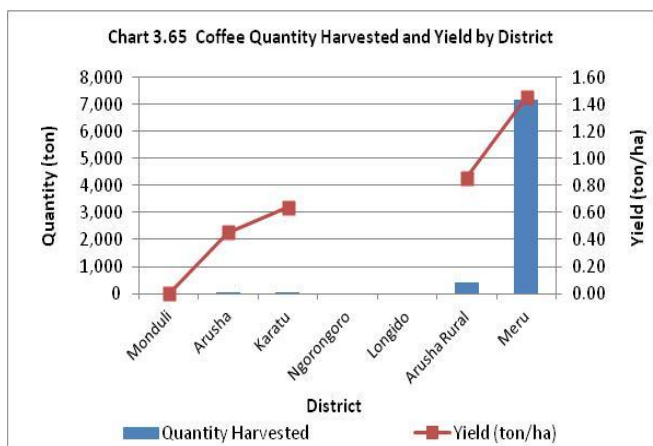
3.4.4 Coffee

Coffee was grown by 15,736 households on average planted area of 0.35 ha/hh and an average yield of 1.51 t/hh from a total harvest of 7,598 tonnes on 5,044 ha harvested area. The number of coffee growing households was the highest in Meru (13,055 or 83% of all coffee growing households in the region) followed by Arusha rural (2,389 or 15%) and Monduli (178 or 1%). Other districts were of



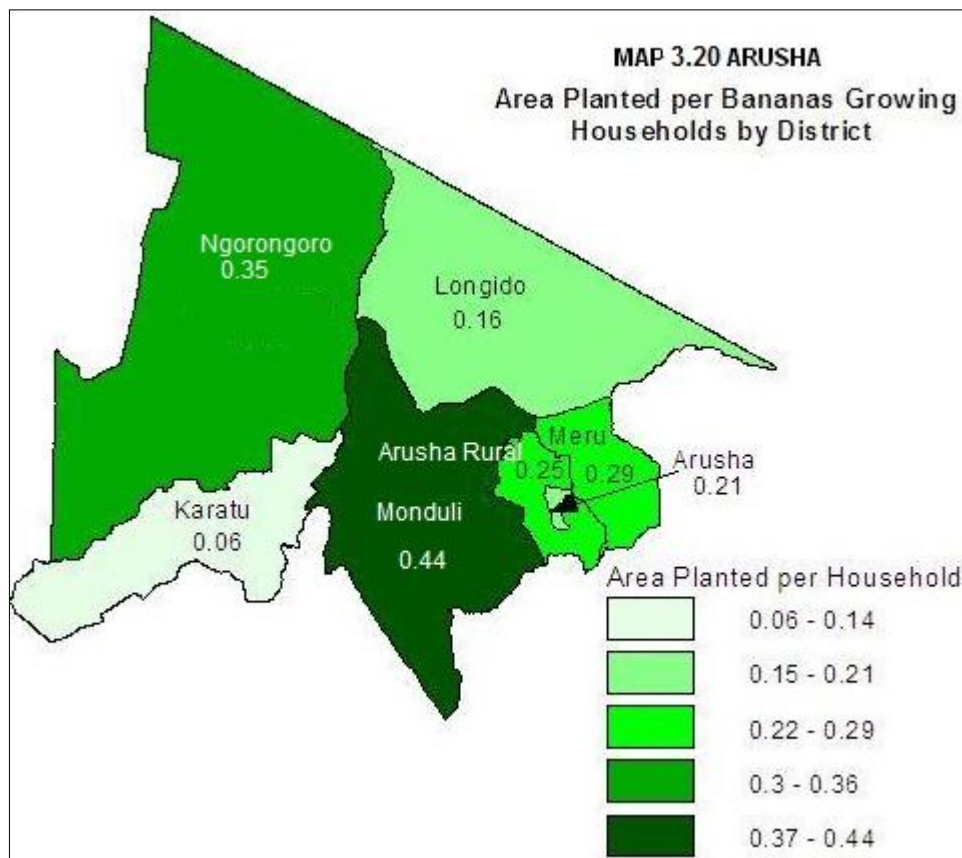
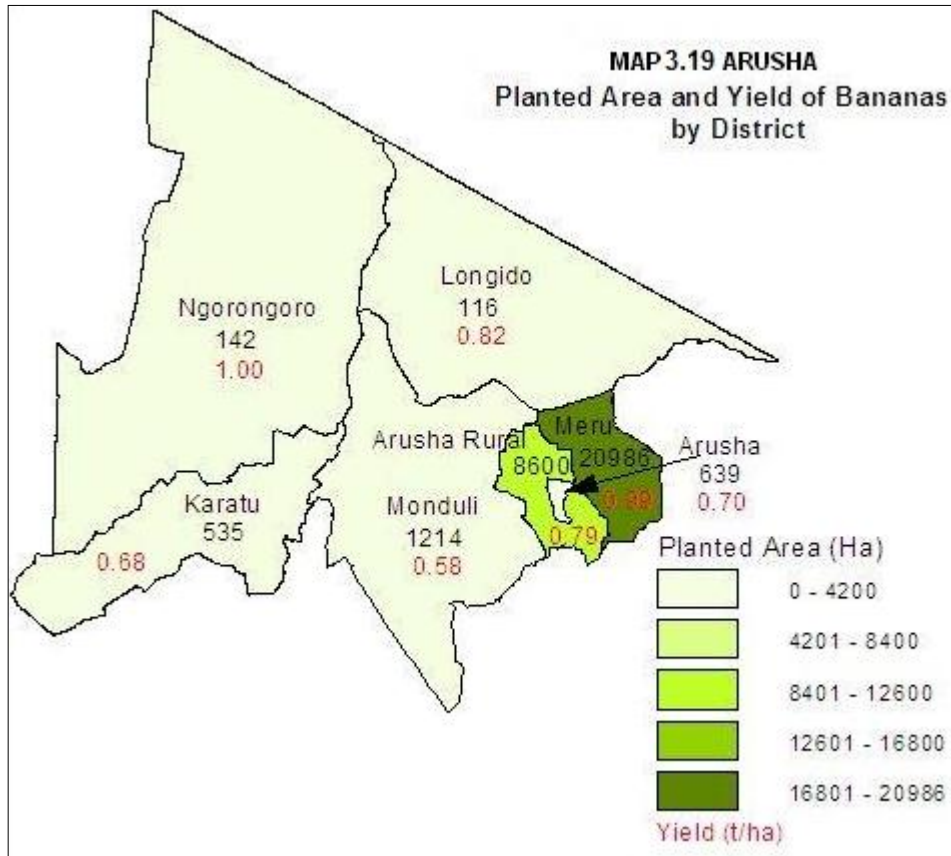
minor importance. The average area planted with coffee per coffee planting household was highest in Monduli (0.39 ha/hh) followed by Meru (0.35ha/hh), Arusha rural (0.17 ha/hh) and Karatu (0.05ha/hh), (Chart 3.64).

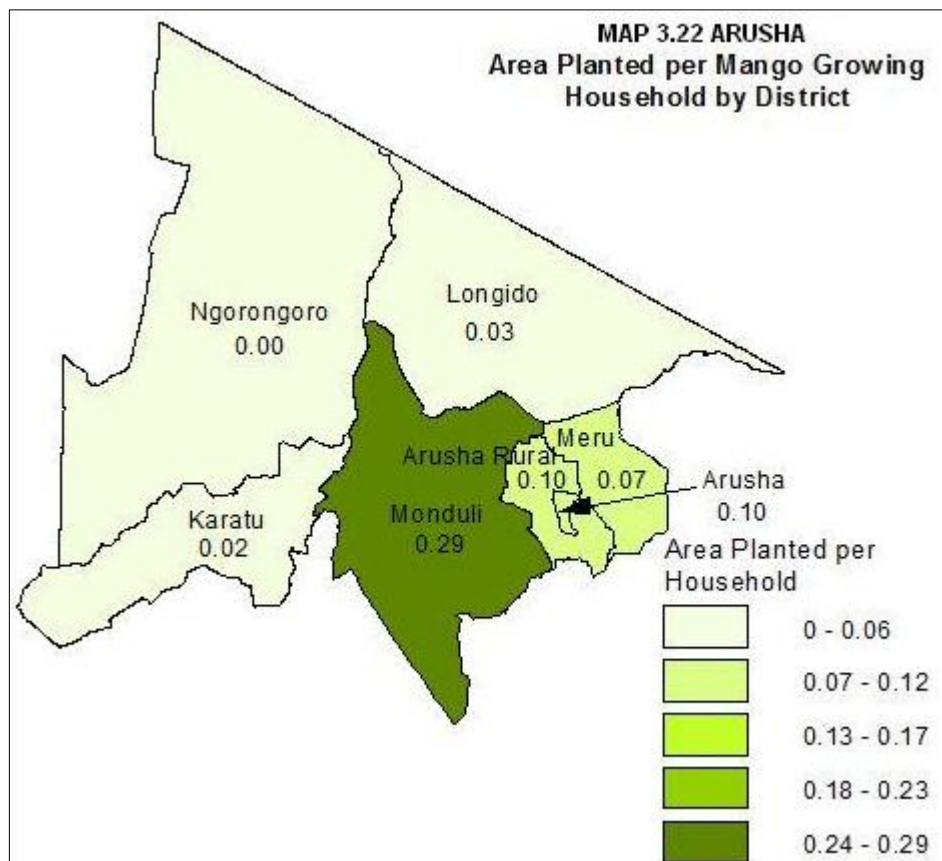
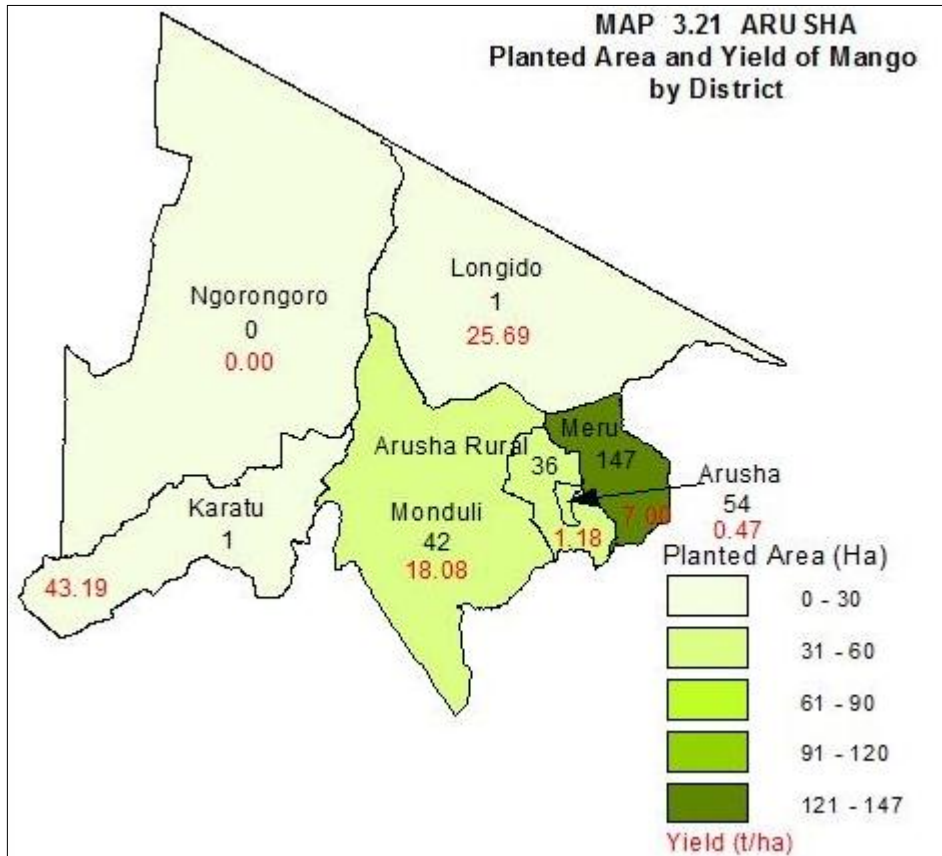
The total production of coffee by smallholders was 7,598 tonnes harvested from a total area of 5.044 ha giving an average yield of 1.51t/ha. In terms of area harvested, coffee was the third most important permanent crop grown by smallholders in the region. Meru had the

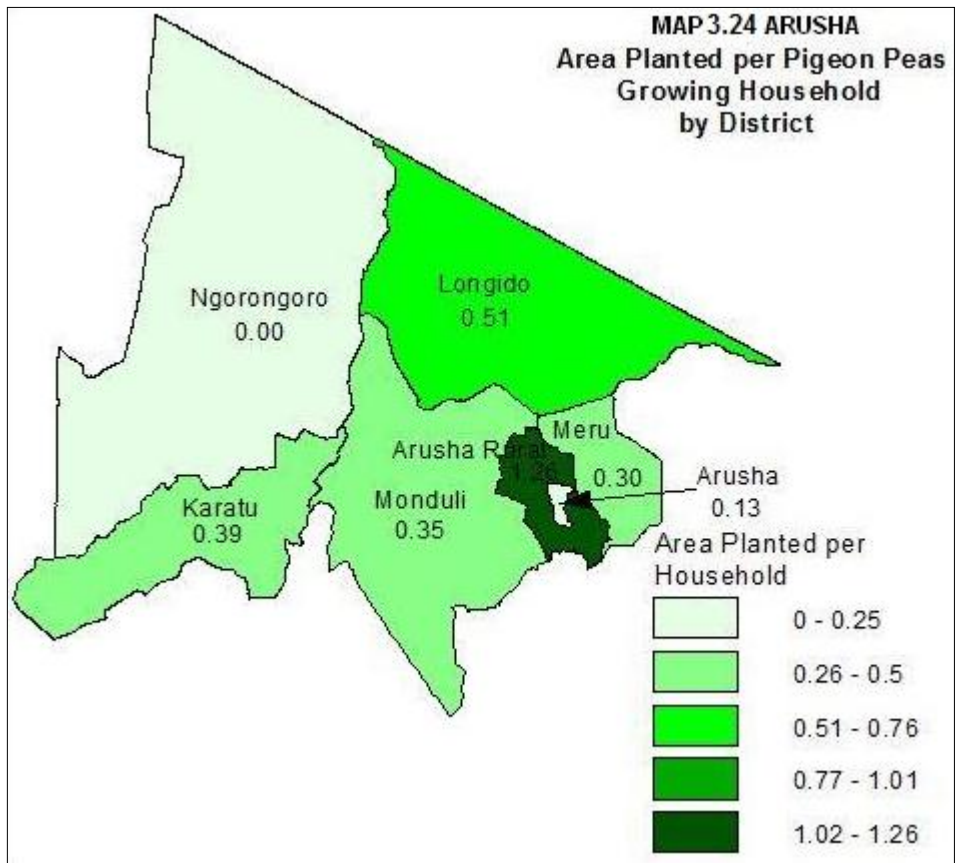
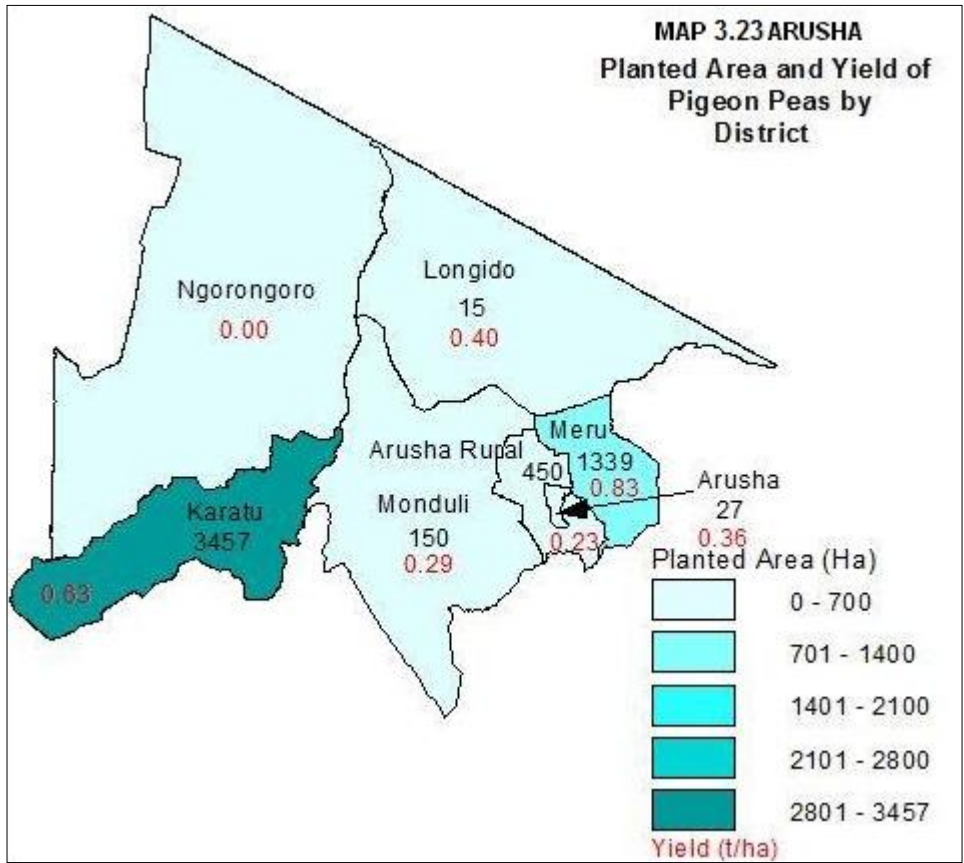


largest harvested area of coffee in the region (4,601ha, 91%) followed by Arusha Rural (406ha, 8%). Other districts combined, had a total of 1%. Meru had the largest amount of harvested coffee (7,175 t or 94% of the total harvested coffee in the region) followed by Arusha Rural (415t or 5.5%). Other districts combined had a total harvests of 0.5% (Chart 3.65).

In comparison to 2002/03 census results, the number of coffee growing households has increased by 1% from 15,552 but the area per household has decreased by 48% from 0.37ha/hh. The area harvested has increased by 0.4% from 5024ha while the quantity harvested has increased by 146% from 3,089t. The yield has also increased by 53% from 0.536t/ha.





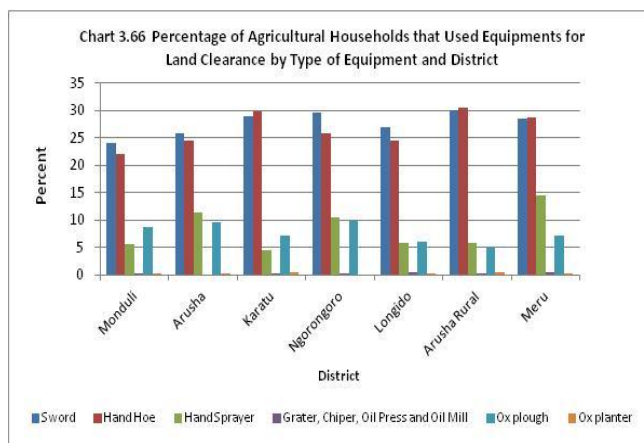


3.5 Input/Implement Use

3.5.1 Agricultural Implement Use

Sword and hand hoe were the most widely used equipments for agricultural activities, applied by 28.1% and 27.6% respectively of agricultural households in the region. Other agricultural equipment used in order of importance include hand sprayer used by 8.4 percent, ox plough (7.2%), Grater, Chipper, Oil Press and Oil Mill (0.3%), and ox planter (0.3%)

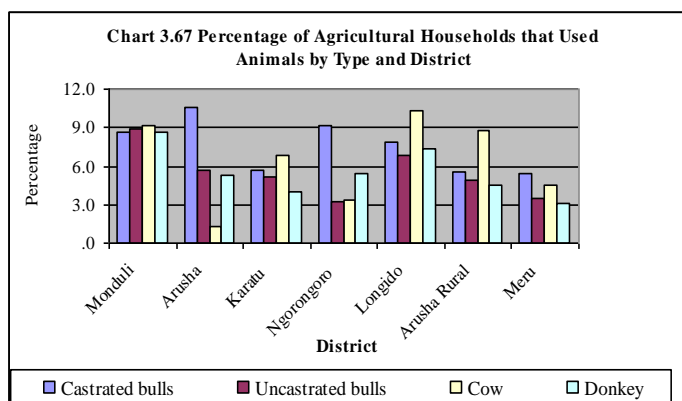
Arusha Rural had the highest percentage of agricultural households using sword (30.15) and hand hoe (30.45) in agricultural activities. Ngorongoro had the second highest percentage of agricultural households using sword (29.7%) followed by Karatu (28.9%), Meru (28.9%), Longido (27%), Arusha (25.9%) and Monduli(24%), (Chart 3.66).



Ox cart was mostly used in Karatu (32%), Arumeru (30%), Arusha Rural (18%). In the remaining districts ox cart was used by less than ten percent. Tractor was most common in Karatu (36.3%), followed by Arusha Rural (33.5%), Monduli (14.6%). The remaining districts had a total of 15.6% of the households which used tractors, Thrasher was most common in Arumeru (39.6%), followed by Arusha Rural (31.7%). Karatu (10.5%), Monduli(8.4%), Longido(4.3%), Ngorongoro(4.2%), and Arusha(1.3%). Power tiller was most common in Karatu (33%), the least common in Ngorongoro (8.8%), and not used in Arusha. Ox ridger was mostly used in Monduli (34.4%), the least used in Karatu (8.6%), and not used in Arusha and Ngorongoro.

3.5.2 Use of Agricultural Animal

Cow and Castrated bulls were the most used animals for agricultural activities and was used by 45,584 and 43,702 agricultural households, representing 6.9 and 6.6 percent of the total agricultural households respectively, followed by uncastrated bulls (34,697 hh, 5.2%). Donkeys were used by 5 percent of the (Chart 3.67).



3.5.3 Local Seed Use

A total of 89,041 agricultural households used improved seeds on a total land area of 61,765 ha this was during the short and long rainy seasons (Table 3.8)

A total of 30,915 and 122,662 agricultural households used local seeds in the short and long rainy seasons respectively. The area under local seeds was 19,227 ha during the short rainy season and 113,199 ha during the long rainy seasons. (Chart 3.69).

Arusha Rural district had the largest number of households (46,820 hh,30%) which used local seeds during short and long rainy seasons followed by Meru (33,552 hh,22%) Karatu (29,676 hh,19%), Ngorongoro (9,948hh,6%), Longido (7,338hh,5%) and Arusha(3,452 hh,2%).

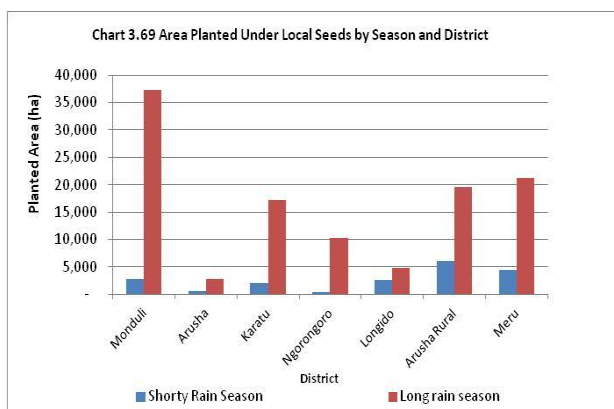


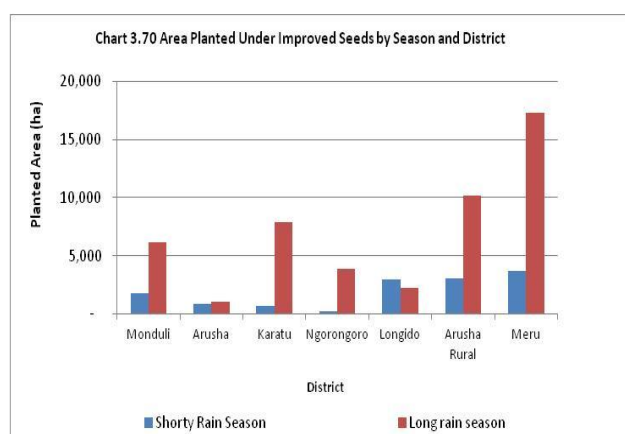
Table 3.8: Number of Households Using and Area under Local and Improved Seeds

District	Local seeds				Improved seeds			
	Short rain season		Long rain season		Short rain season		Long rain season	
	Number of Households	Planted Area (ha)	Number of Households	Planted Area (ha)	Number of Households	Planted Area (ha)	Number of Households	Planted Area (ha)
Monduli	2,500	2,856	20,289	37,321	1,786	1,802	5,287	6,136
Arusha	1,065	641	2,387	2,837	1,065	874	1,151	1,009
Karatu	3,208	2,103	26,468	17,235	1,604	686	12,120	7,874
Ngorongoro	782	460	9,166	10,347	284	180	3,979	3,841
Longido	2,918	2,671	4,420	4,795	2,138	2,956	1,791	2,273
Arusha Rural	13,974	6,136	32,846	19,480	9,675	3,044	18,513	10,146
Meru	6,466	4,359	27,086	21,183	6,711	3,653	22,938	17,291
Total	30,915	19,227	122,662	113,199	23,263	13,195	65,778	48,570

3.5.4 Improved Seed Use

The planted area using improved seeds was 61,765 ha equivalent to 31 percent of the total planted area (200,957 ha) with the annual crops and vegetables during short and long rainy seasons. The percentage land use of improved seeds in the short rainy season was

39 percent and that in the long rainy season was 29 percent of the total planted area. The number of households using improved seeds during lng rainy season was higher than that during short rainy season almost across all districts, (Chart 3.70).



The land use proportion of improved seeds during the short rainy season was the highest in Arusha with 53.7 percent (847 ha) of the total area(1,627 ha) planted with improved seeds in the district. followed by Longido 51.2% (2,956 ha out of 5,778ha), and Arumeru 44.3% (3,653 ha out of 8,254 ha). The lowest proportion was in Karatu with 24.2% (686 ha out of 2,834 ha). In the long rainy season, the land use proportion of improved seeds was the highest in Arumeru with 44.2 percent of the total area planted with improved seeds in the district in a planted area of 17,291 ha out of the total 39,101 ha planted un the district followed by Arusha Rural with 32.4% (10,146 ha out of 31,339l and Longido with 31.8% (2,273 ha out of 7,144 ha). Monduli had the lowest proportion of the land use of improved seeds with 14% (6,136 ha out of 44,128 ha).

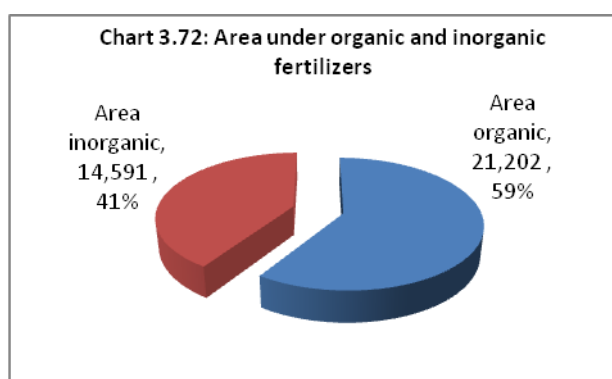
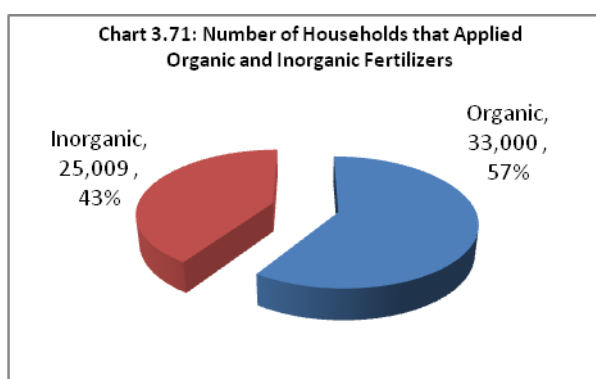
3.5.5 Fertilizer Use

A total of 58,009 agricultural households (30% of all agricultural households used inorganic and organic fertilizers in the region during short and long rainy seasons. The total planted area with fertilizers was (35,792 ha, 18% of the total palnted area in the region during the two seasons), (Table 3.9, Map 3.25).

Table 3.9: Number of households using and area under fertilizers during long and short rain seasons

District	Short rain season						Long rain season					
	#HH organic	Area organic	#HH inorganic	Area inorganic	Total HH	Total area	#HH organic	Area organic	#HH inorganic	Area inorganic	Total HH	Total area
Monduli	714	390	714	329	3,929	4,960	1,429	2,268	643	221	21,861	44,128
Arusha	895	998	85	41	1,236	1,627	597	785	0	.	2,515	4,080
Karatu	267	126	535	189	4,545	2,834	4,367	1,883	1,248	584	31,904	26,776
Ngorongoro	71	29	71	14	1,066	640	71	29	0	.	10,089	14,393
Longido	231	216	722	1,516	4,218	5,778	87	406	347	722	5,316	7,144
Arusha Rural	5,972	2,532	1,911	1,262	17,796	9,903	11,466	6,911	2,628	1,454	38,937	31,339
Meru	1,098	704	4,514	1,806	11,591	8,254	5,734	3,923	11,591	6,453	39,653	39,101
Total	9,249	4,996	8,553	5,158	44,381	33,997	23,751	16,205	16,456	9,433	150,275	166,961

The number of households which used organic fertilizer was 33,000 hh (57%) of the total households applied fertilizers and those didn't apply was 25,009 hh (43%), (Chart 3.71).

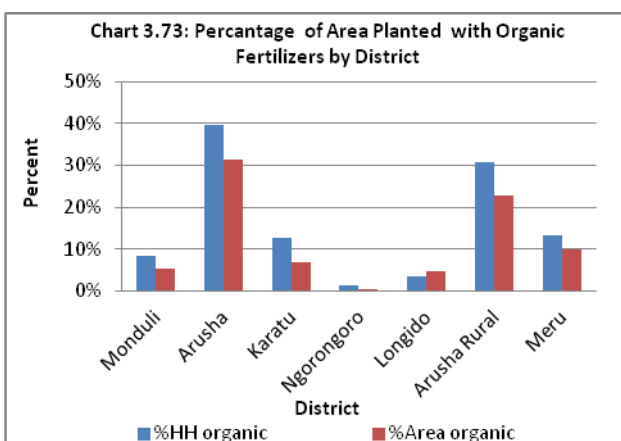


The area planted with organic fertilizer was 21,202 ha (59%) and inorganic fertilizer was 14,591 ha (41%) respectively, (Chart 3.72).

District wise, the highest percentage of the area planted with fertilizer during the short rainy season was in Arusha Rural (44%), followed by Meru (32%), Monduli (8%), and Arusha (6%). Ngorongoro had the lowest percentage(1%) of the area planted with fertilizer in the short rainy season. The highest percentage of the planted area with fertilizer in long the rainy season was Meru (43%), followed by Arusha Rural (35%), and Karatu (14%) and Monduli (5%). Ngorongoro, Longido and Arusha each with one about percent.

3.5.5.1 Organic Fertiliser Use

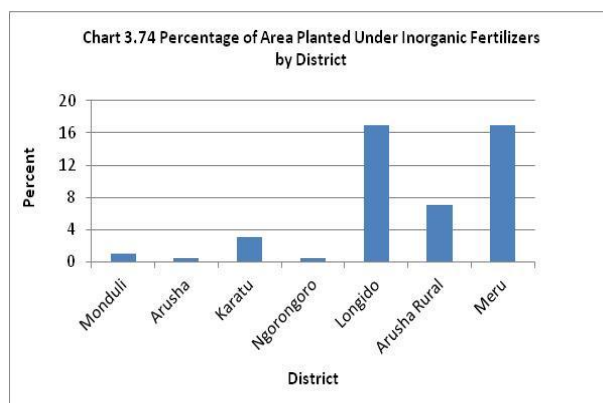
Organic fertilizers was applied by 33,000 households or 17% of the total crop growing households in the region. It was applied on a total area of 21,202 ha or 11% of the total cultivated area in the region. Chart 3.73 shows that organic fertilizer was mostly used in Arusha district (31% of the total planted area in the district), followed by Arusha Rural (23%) and Meru (10%). Ngorongoro had the lowest proportion of the area planted with organic fertilizer at 0.4 percent.



As compared to the 2002/3 census results, the area under organic fertilizers has decreased by 65% from 60,974 ha to 21,202 ha.

3.5.5.2 Inorganic Fertiliser Use

Inorganic fertilizers were applied by a total of 25,009 households or 13% of total crop households in the region. It was applied on a total area of 14,591 ha or 7% of the total cultivated area in the region. Chart 3.74 shows that the largest area applied with inorganic fertilizers was in Meru and Longido districts, each with 17% followed by Arusha Rural (7%), Karatu (3%), Arusha and Monduli (1%). As compared to the 2002/3 census results, the area under inorganic fertilizers has decreased by 6% from 15,492 ha.



3.5.6 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 by 51,255 household or 12% of the annual crop agricultural households on a planted area of 38,282 ha or 9% of the total area planted with annual crops and vegetables. Insecticides were the most common pesticide used in the region applied by 24,560 household or 48% of the total households which applied pesticides followed by herbicides (13,658 hh or 27%) and fungicides (13,036 hh or 25%).

Insecticides were the most common pesticides applied on 19,131ha or 50% of the total area applied with pesticides. This was followed by herbicides (11,907ha, 31%) and fungicides (7,245ha or 19%). The use of pesticides was more during the long than the short rainy seasons (Chart 3.75, Table 3.10).

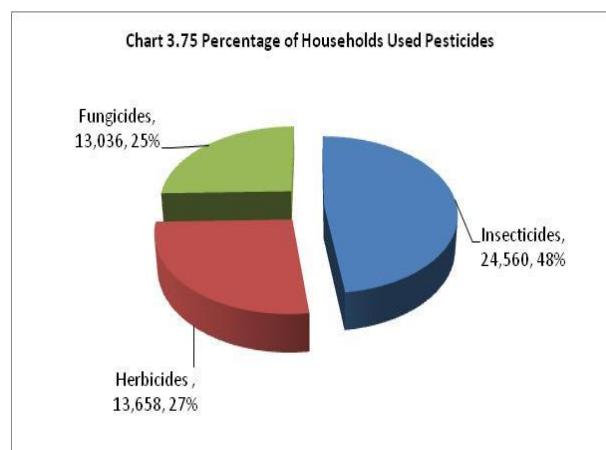


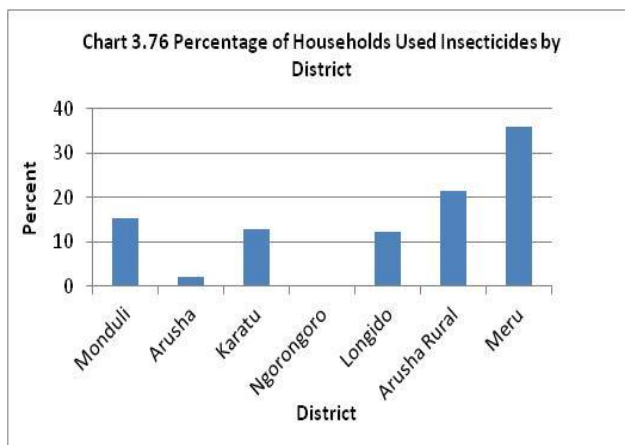
Table 3.10: Pesticide use by number of households and area

Season	Pesticide type	Number of households applied	Area (ha) planted with pesticide	%Hh applying pesticide	%Area planted with pesticide
Long rain season	Fungicide	6,488	3,813	5%	3%
	Herbicide	9,028	8,386	7%	7%
	Insecticides	14,037	12,114	10%	8%
Long rain season Total		29,552	24,313	7%	6%
Short rain season	Fungicide	6,549	3,432	14%	9%
	Herbicide	4,631	3,521	12%	9%
	Insecticides	10,523	7,016	23%	19%
Short rain season Total		21,702	13,969	16%	12%
Grand Total		51,255	38,282	12%	9%

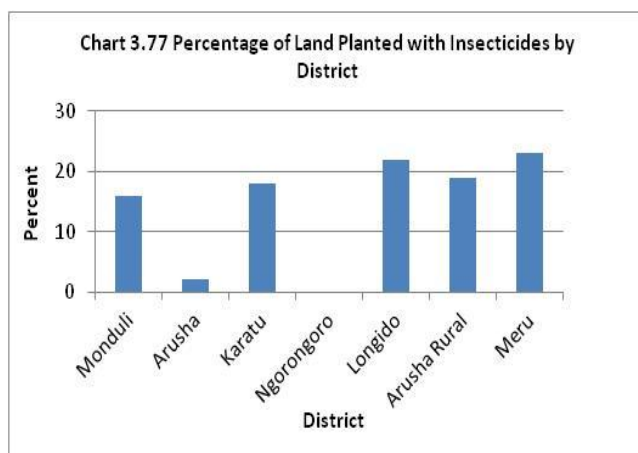
3.5.6.1 Insecticide Use

Insecticides were applied by a total of 24,560 households or 17% of the total number of agricultural households.

The largest number of households applying insecticides was in Meru district with 36% of the total household applying insecticides in the region. followed by Arusha Rural (22%), Monduli (15%), Karatu (13%), Longido (12%) and Arusha (2%) (Chart 3.76).



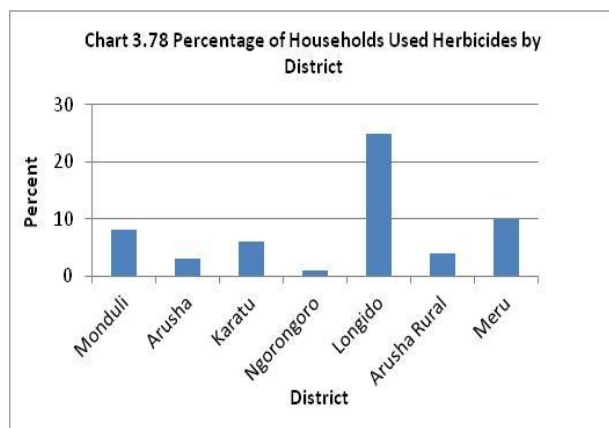
The planted area applied with insecticides was 19,131 ha equivalent to 14 percent of the total planted area with annual crops and vegetables. Meru had the highest percent age of the planted area with insecticides (23% of the total planted area with insecticides in the region). This was followed by Longido (22%), Arusha rural (19%), Karatu (18%), and Monduli (16%) and Arusha (2%). Ngorongoro had no application of insecticides (Chart 3.77).



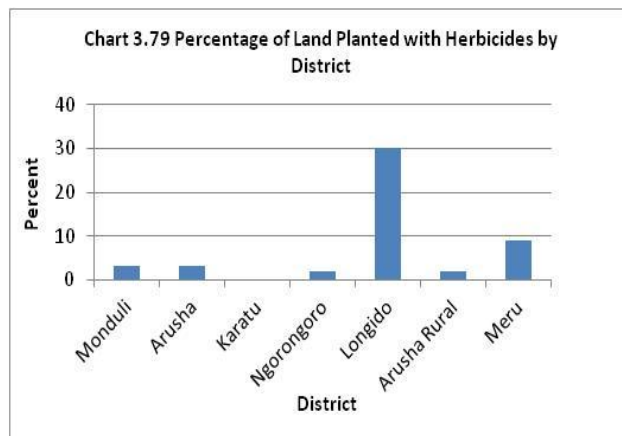
As compared to the 2002/3 census, there has been a decrease of 28% of the area under insecticides from 26,502ha.

3.5.6.2 Herbicide Use

Herbicides were applied by a total of 13,658 households or 9% of the total annual crop agricultural households in the region. The largest proportion of households which herbicide was in Longido district which had 25% of its households applying herbicides followed by Meru (10%) Monduli (8%), Karatu (6%), Arusha Rural (4%), Arusha(3%) and Ngorongoro (1%) (Chart 3.78).



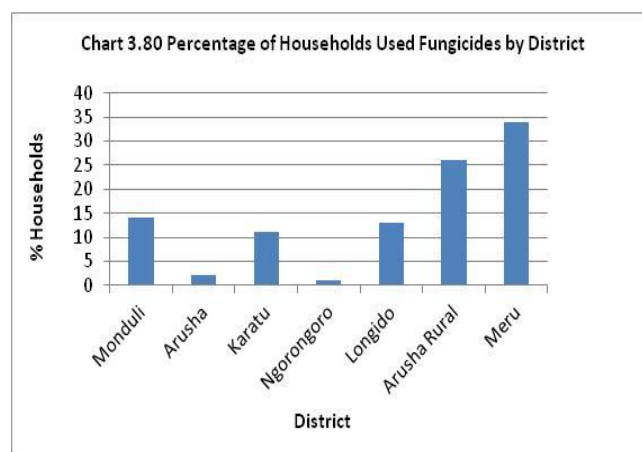
The total planted area with herbicides was 11,907 ha equivalent to 8 percent of the total annual crop planted area. Longido had the largest proportion of the planted area with herbicides (30% of the total planted area) followed by Meru (9%), Monduli (3%), Arusha (3%), Arusha Rural (2%) and Ngorongoro. (Chart 3.79).



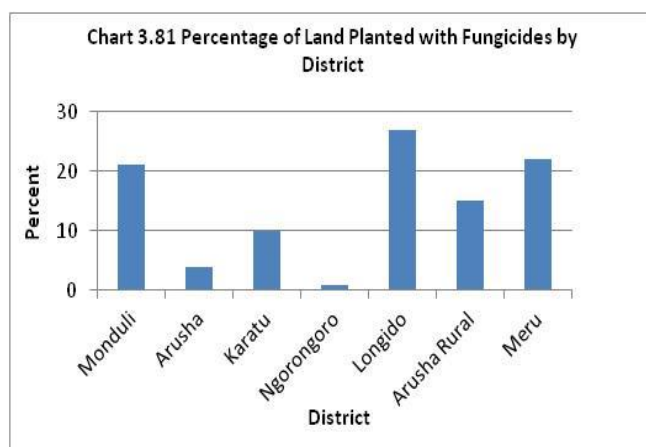
As compared to the 2002/3 census, there has been an increase of 174% of area under herbicide use from 4,352ha.

3.5.6.3 Fungicide Use

Fungicides were applied by a total of 13,036 or 9% of all agricultural households in Arusha region. The biggest number of households applying fungicides was found in Meru which had 4,392 or 34% of all fungicides using households in the region. This was followed by Arusha rural 3,344 or 26%), Monduli (1,857 or 14%), Longido (13%), Karatu (11%), Arusha (2%) and Ngorongoro (1%) (Chart 3.80).



The planted area applied with fungicides was 7,245 ha which represented 16 percent of the total area planted with pesticides in the region. The highest percentage use of Fungicides was recorded in Longido (1,991ha or 27% of the total area planted with pesticides in the region), followed by Meru (22%). Monduli (21%), Arusha rural (15%), Karatu (10%), Arusha (4%) and Ngorongoro (1%). (Chart 3.81).



As compared to the 2002/3 census, there has been a 30% decrease in the area under fungicides application from 10,316ha.

3.6 Irrigation

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

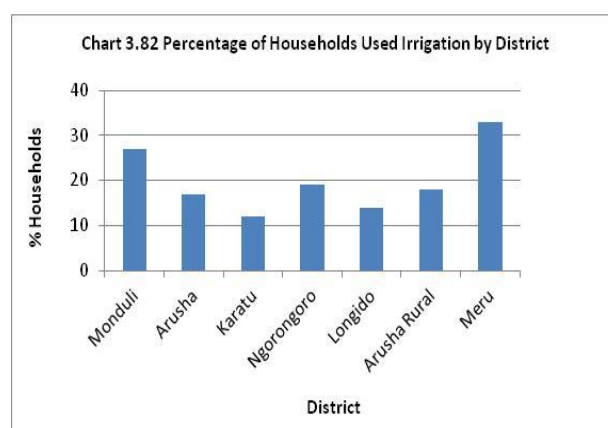
3.6.1 Area Planted with Annual Crops and Under Irrigation

In Arusha region, the area of annual crops under irrigation was 23,797 ha representing 5.4 percent of the total area planted with annual crops and vegetables (Table 3.11).

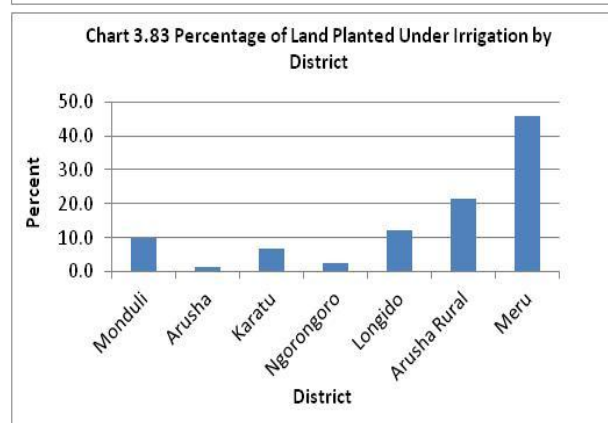
Table 3.11: Number of households and area under irrigation

District	Long rain		Short rain		Short & Long rain seasons			
	Number of Households using Irrigation	Planted Area with Irrigation	Number of Households using Irrigation	Planted Area with Irrigation	Total Number of HH using Irrigation	Total Planted Area with Irrigation	% HH using in the district	% land irrigated in the district
Arusha	341	126	256	166	597	292	17%	7%
Arusha Rural	3,941	2,586	4,658	2,519	8,600	5,106	18%	17%
Karatu	2,317	1,312	802	325	3,119	1,637	12%	8%
Longido	751	1,512	549	1,415	1,300	2,927	14%	23%
Meru	7,687	6,015	5,368	4,881	13,055	10,896	33%	37%
Monduli	1,643	1,350	1,857	994	3,501	2,344	27%	12%
Ngorongoro	497	365	355	230	853	595	19%	19%
Grand Total	17,178	13,266	13,846	10,531	31,024	23,797	20%	18%

Irrigated agriculture is practiced by a total of 31,024 households in Arusha region; of which (55%) do it in the short rain season. The district with the biggest percent of households using irrigation was Meru (33%) followed by Monduli (27%) and Ngorongoro (19%) (Chart 3.82).



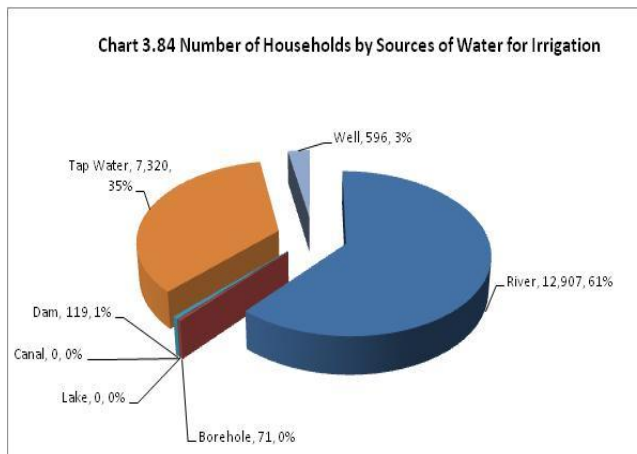
The district with the largest planted area under irrigation with annual crops was Arumeru (10,896 ha, 46% of the total irrigated planted area with annual crops in the region). This is followed by Arusha Rural with 5,106 hectares (21.5%), Longido with 2,927 hectares (12.3%), Monduli (2,344ha, 9.8%), and Karatu with 1,637



hectares (6.9%). The lowest planted area under irrigation was recorded in Arusha (2, 92 ha, 1.2%), followed by Ngorongoro (595 ha, 2.5%) (Chart 3.83, Map 3.26). As compared to the census of 2002/3, the area under irrigation decreased by 5% from 25,034ha.

3.6.2 Sources of Water Used for Irrigation

A total of 21,014 households reported to have different sources of irrigation water with Meru having the largest number (10,005 hh, 48% of the households which reported in Arusha region) followed by Arusha Rural (19%), Monduli (14%), Karatu (11%), Ngorongoro (4%) and Longido (2%). The main source of water used for irrigation was from rivers (61% of the households with irrigation) followed by Tap water (35%), well (3%) and dam (1%). The remaining sources were less important each accounted for less than 1 percent. (Chart 3.84).



3.6.3 Methods of Obtaining Water for Irrigation

A total of 21,014 households reported to use different methods of irrigation. The method that was used by 99.4% of the households was gravity followed by hand bucket (0.4%) and motor pump (0.1%). Gravity was used by most households with irrigation in Arumeru (48%), followed by Arusha Rural (19.4 %), Monduli (14.4%), Karatu (11.1%), Ngorongoro (4.1%), and Longido (2%). Hand bucket and Motor Pump used for irrigation in Karatu and Longido districts only by 89 and 29 households respectively (Table 3.12 and Chart 3.85)

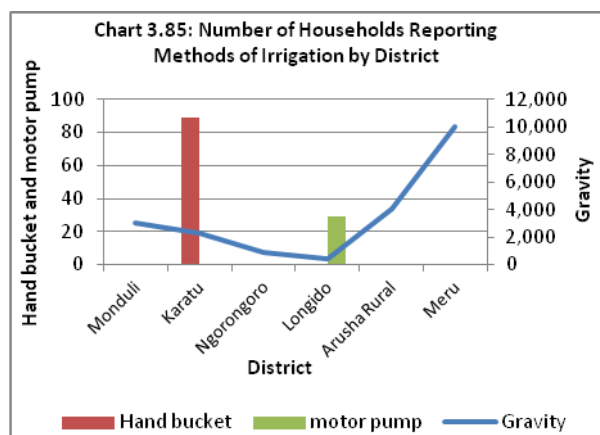
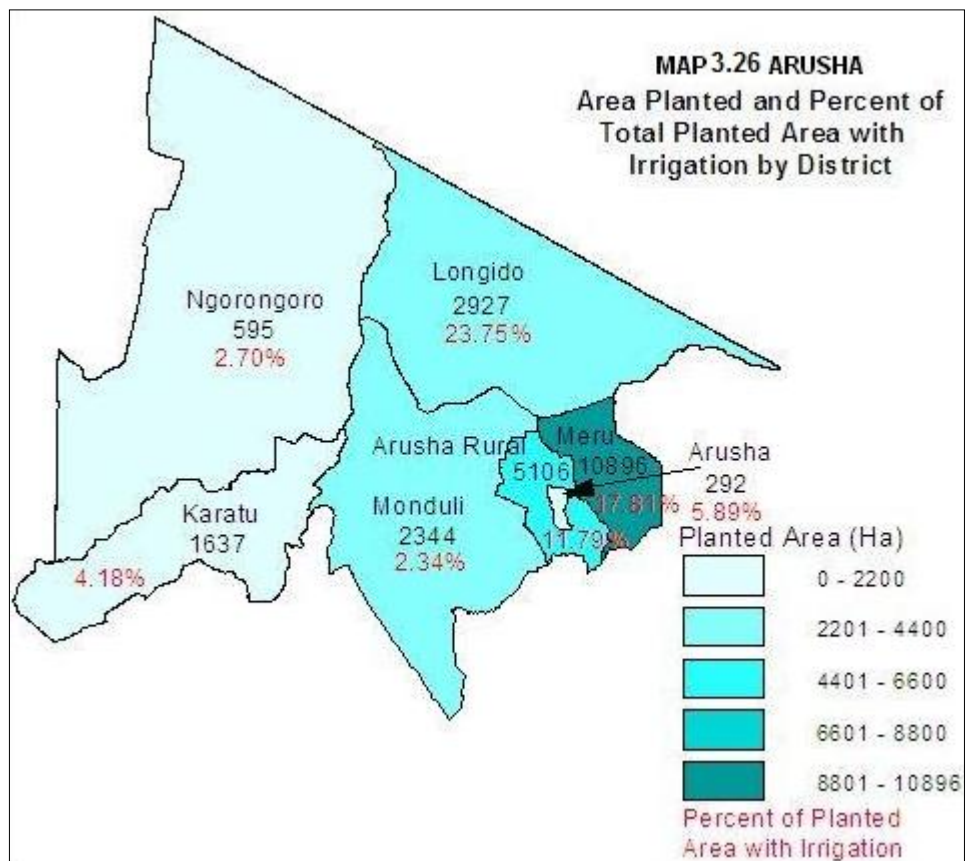
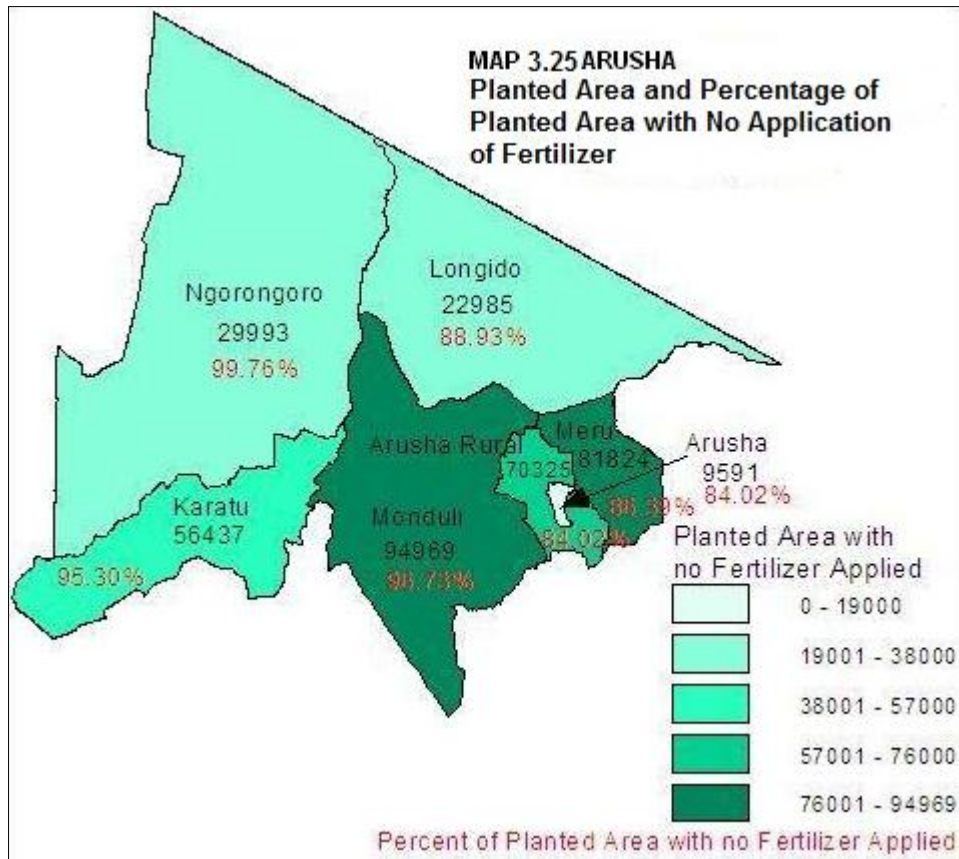


Table 3.12: Number of Households with Irrigation by Method of Obtaining Water

District	Gravity	%	Hand bucket	Hand pump	Motor pump	Other	Total
Monduli	3,000	14.4	0	0	0	0	3,000
Arusha	0	0.0	0	0	0	0	0
Karatu	2,317	11.1	89	0	0	0	2,406
Ngorongoro	853	4.1	0	0	0	0	853
Longido	404	1.9	0	0	29	0	433
Arusha Rural	4,061	19.4	0	0	0	0	4,061
Meru	10,005	47.9	0	0	0	0	10,005
Total	20,896	100.0	89	0	29	0	21,014



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 and as seed for planting in the following season. The results for Arusha region show that there were a total of 194,657 crop growing households that stored various agricultural products in the region. 89% of these stored their crops in the long rain season.

Arusha Rural had the highest number of households storing crops in the region (52,673 hh, 30% of households reported storing crops in the region). This is followed by Meru (45,265hh or 26%), Karatu (33,241 or 19%), Monduli (22,147 or 13%), Ngorongoro (10,515 or 6%), Longido (6,356 or 4%) and Arusha (3,282 or 2%) (Chart 3.86).

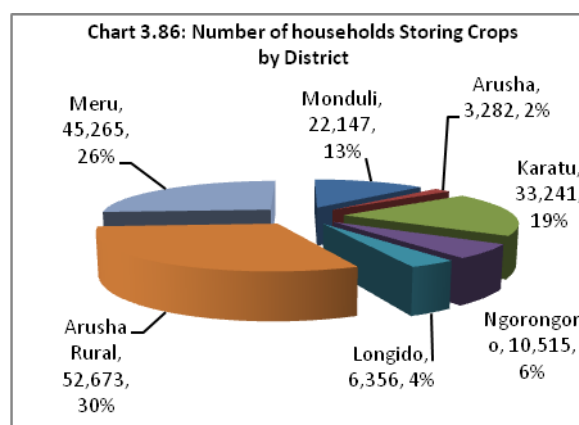
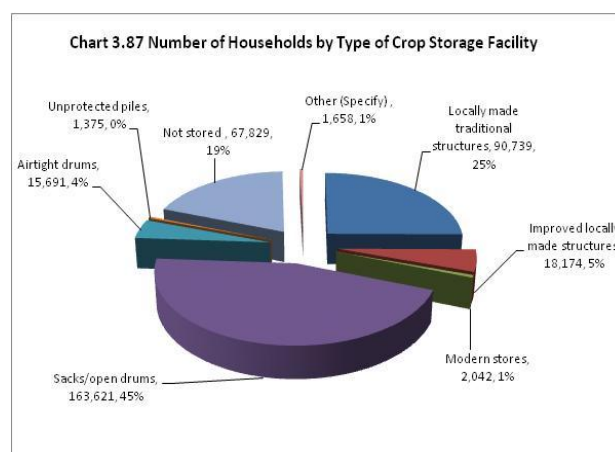


Table 3.13: Crop storage methods by number of households and district

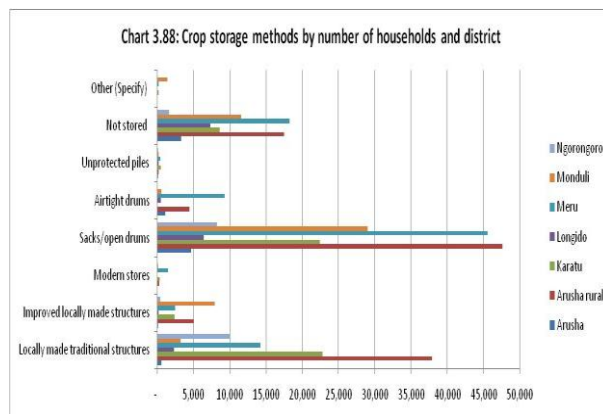
Storage method	Arusha	Arusha rural	Karatu	Longido	Meru	Monduli	Ngorongoro	Grand Total
Locally made traditional structures	554	37,862	22,725	2,282	14,153	3,215	9,947	90,739
Improved locally made structures	43	5,016	2,317	144	2,440	7,858	355	18,174
Modern stores	-	239	267	-	1,464	71	-	2,042
Sacks/open drums	4,646	47,537	22,369	6,385	45,509	29,005	8,171	163,621
Airtight drums	1,065	4,419	-	433	9,273	500	-	15,691
Unprotected piles	85	119	446	144	366	143	71	1,375
Not stored	3,282	17,438	8,555	7,310	18,179	11,502	1,563	67,829
Other (Specify)	-	-	178	-	122	1,357	-	1,658

Methods of Storage

Most crop growing households in the region store their produce in sacks and/or open drums (163,621 households, 45% of households that stored crops in the region). This was followed by locally made traditional structures used by 90,739 crop storing households (25%), improved locally made structures used by 18,174 households (5%), and air tight drums 15,691 (4%). 90,739 or 19% of the households were reported not using any method of storing crops in the region (Table 3.13 and Chart 3.87).

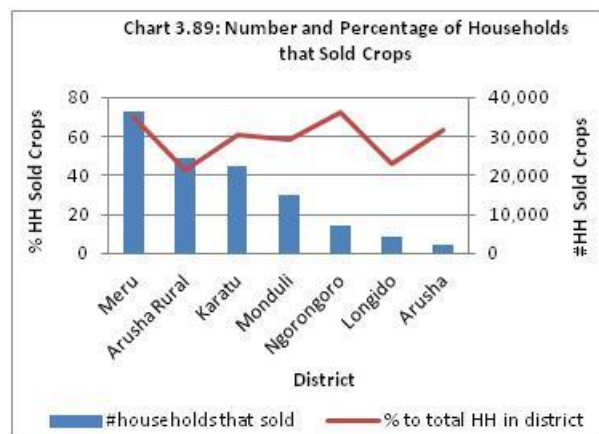


Sacks/open drums were the dominant storage method in all districts, with the highest percent of households (26.8% of the total number of households storing crop products) using this method in Arumeru. This is closely followed by Arusha Rural (26.4%), Monduli (19.4%), Karatu (15.8%), Ngorongoro (5.8%) and Longido (2.6%). The highest percent of households using locally made traditional structure was in Monduli (44.1%), Arusha Rural (23.6%), Arumeru (15.1%), Karatu (14.3%) and Ngorongoro (2.2%). Arusha and Longido had the lowest application of this method by less than 1 percent of the households storing crops (Chart 3.88).



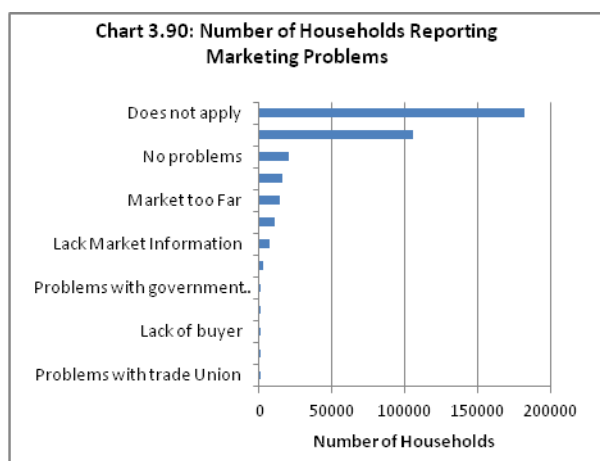
3.7.2 Crop Marketing

The number of households that reported selling crops was 112,111 which represent 57.6 percent of the total number of crop growing households. The percent of crop growing households selling crops was highest in Ngorongoro (72%), followed by Meru (70%), Arusha (63%), Karatu (60%), Monduli (58%), Longido (46%), and Arusha Rural (43%) (Chart 3.89 and Map 3.27).



3.7.2.1 Main Marketing Problems

Low price for agricultural produce was the main marketing problem reported by households (29.2% of crop growing households). Other problems were Lack of transport (4.3%), long distances to the markets (3.8%), high transport costs (2.6%), lack of market information (2.1%), and cooperative problems (1%). Other marketing problems are minor and represented less than 1 percent of the total reported problems. 5.6 percent of the households were recorded as not experiencing any marketing problem (Chart 3.90).



3.7.2.2 Reasons for Not Selling Crops

The main reason for not selling crops was reported as “insufficient production to sell”, representing 84 percent of the smallholders. The remaining reasons for not selling are in such low numbers that it is not appropriate to rank them according to their order of importance. This general trend applies to all districts except for Monduli and Ngorongoro where the proportion of households reporting other reasons for not marketing their agricultural products is relatively high (31% and 10% respectively).

3.8 Access to Crop Production Services

3.8.1 Access to Agricultural Credit

The census result shows that in Arusha region very few agricultural households (3,734, 1.8%) accessed credit. Arusha district had the biggest percent of its households borrowing money for agriculture (11.7%) followed by Meru and Monduli (2.5%), Ngorongoro (2.2%) and Karatu (2%). Other districts had percentages less 1% each.

In Arusha Rural district only male headed households got agricultural credit whereas in Longido District female households accessed credit. In Arumeru and Monduli both male and female headed households had equal access to agricultural credit, there was unequal access to credit in Arusha (more males than female had access), Karatu (more males than females had access), and Ngorongoro (More males than females had access) (Table 3.14, Chart 3.91).

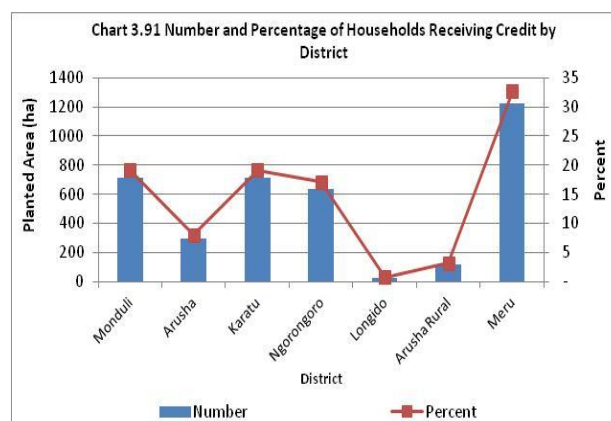
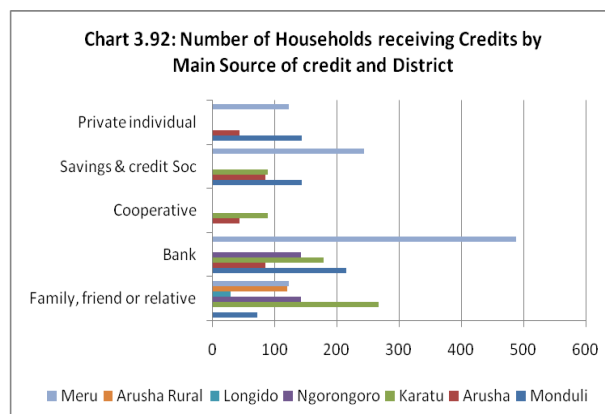


Table 3.1: Number of Credits by sex of the household Member receiving credit and District

District	Male		Female		Total	
	Number	%	Number	%	Number	%
Monduli	357	50	357	50	714	100
Arusha	85	28.6	213	71.4	298	100
Karatu	535	75	178	25	713	100
Ngorongoro	568	88.9	71	11.1	639	100
Longido	0	0	29	100	29	100
Arusha Rural	119	100	0	0	119	100
Meru	610	50	610	50	1,220	100
Total	2,275	60.9	1,459	39.1	3,734	100

3.8.1.1 Source of Agricultural Credit

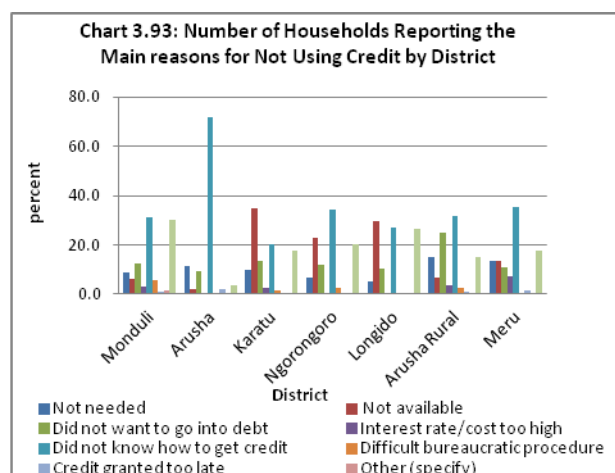
The major agricultural credit provider in Arusha region was the bank, which provided credit to 1,108 agricultural households (39% of the total number of households that accessed credit), followed by family, friends and relatives (26%), savings and credit societies (20%), private individual (11%) and cooperatives (4%). Other sources were not minors and accounted for less than 1 percent (Chart 3.92).



Family friends and relatives were the sole source of credit in Arusha and Longido districts. Family and friends is not a credit provider in Arusha. The bank is a credit in all the districts except Longido and Arusha rural. Cooperatives as a source of credit provider operate in Arusha and Karatu districts only; whilst savings and credit society is not a credit provider in Ngorongoro, Longido, and Arusha Rural. Private individual is a source of credit in Monduli, Arusha and Arumeru only. Trader and trade store was not a source of credit in any of the district in Arusha region.

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 (i.e., “did not know how to get credit” and “don’t know about credit”) accounting to 50.4 percent of the agricultural households. This was followed by unavailability of credit accounting for 16.7 percent, followed by “not wanting to go into debt” (14%), credit not needed (11%), and high interest rates accounting for 3.5 percent. The rest of the reasons were minor and collectively accounted for less than 5 percent of the households (Chart 3.93).



3.8.2 Crop Extension

The number of Agricultural households that received crop extension was 138,984 (80.0 % of the total crop growing households in the region) (Table 3.15). There were little variations across districts with some districts having slightly more access to extension services than others. Accordingly, Arusha Rural district had the highest proportion of households (86.4 %) that received crop extension messages in the region closely followed by Arusha (85%). Arumeru and Karatu had third highest percentage of households receiving extension advice at an estimated 80 percent of households, followed by Monduli (77.1%) and Longido (75.1%). Ngorongoro had the lowest percentage of households recorded to be receiving extension advice. (Map 4.28).

Table 3.2: Source of extension services

District	Government	NGO/Dev project	Cooperative	Large scale farmer	Radio/Television /NewsPaper	Neighbour	Other (Specify)	Total Households that received advices
Monduli	18,146	3,072	0	214	1,572	4,787	71	18,789
Arusha	1,534	85	43	1,065	298	1,023	256	2,174
Karatu	25,131	2,050	1,337	2,050	2,406	4,010	267	26,290
Ngorongoro	6,892	497	0	213	284	782	0	7,176
Longido	4,449	404	29	289	491	2,051	144	5,143
Arusha Rural	38,459	11,586	1,075	1,433	4,061	5,733	478	40,370
Meru	38,311	13,177	244	1,098	9,883	8,053	732	39,043
Total	132,923	30,871	2,727	6,363	18,995	26,438	1,949	138,984

3.8.2.1 Sources of Crop Extension Messages

Of the households receiving extension advice the Government provided the greatest proportion (132,923 hh, 60%) followed by NGOs (30,871 hh, 14%) and neighbour (26,438, 12%). (Chart 3.94). However, district differences exist with the proportion of the households receiving advice from government services ranging from between 94 percent and 100 percent in Arumeru and Arusha respectively.

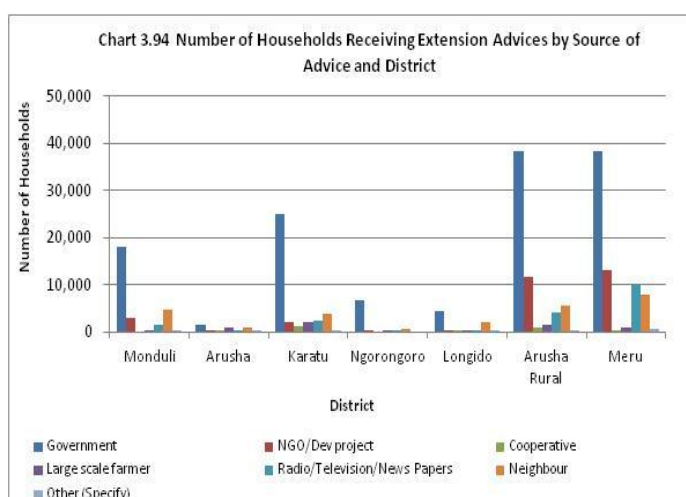
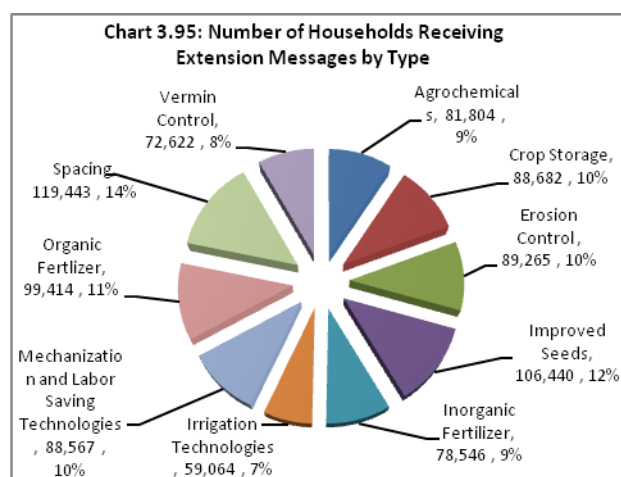


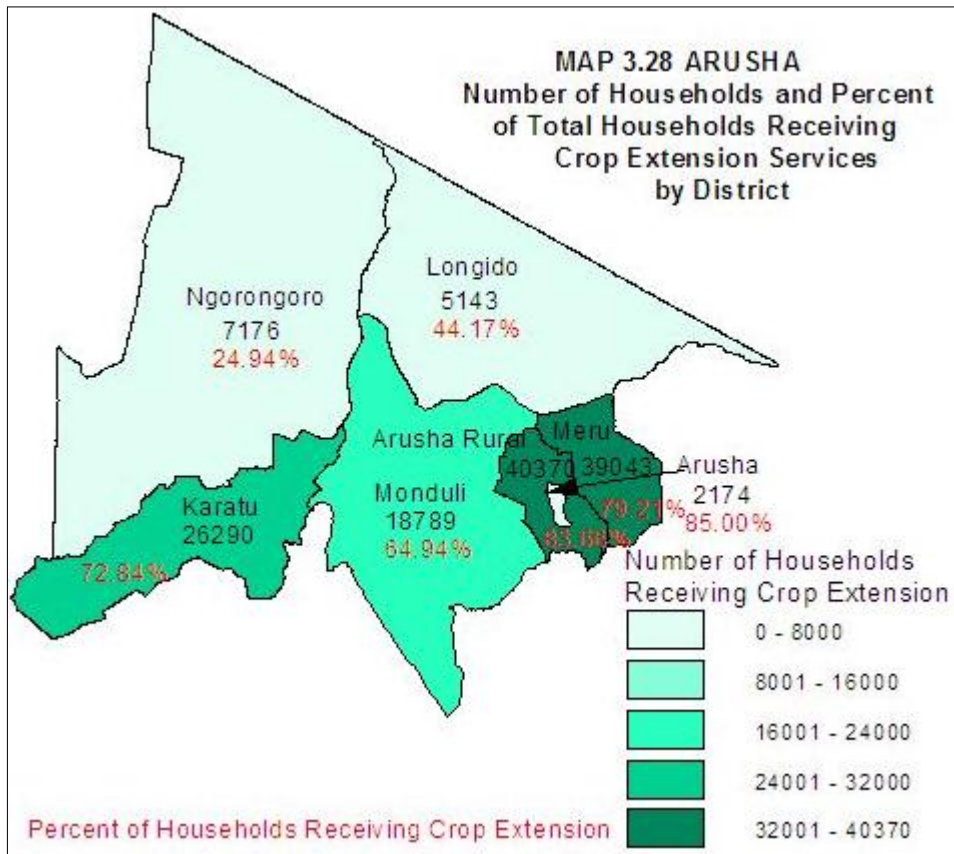
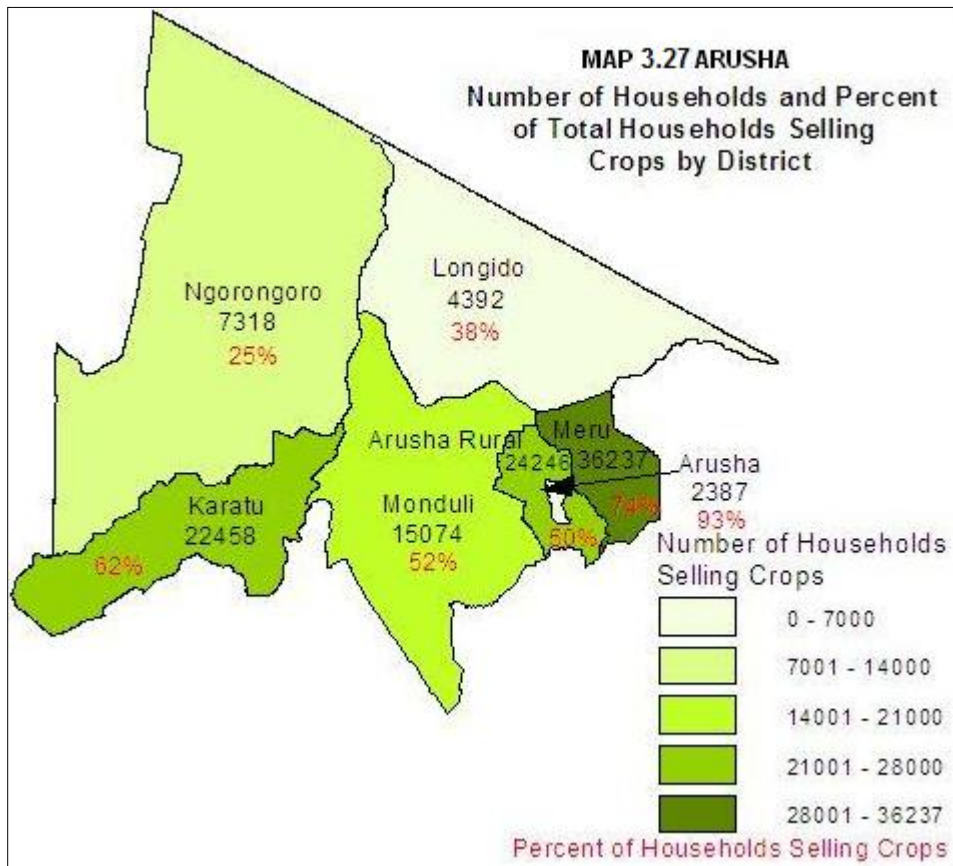
Table 3.3: Number of households receiving extension advice by type and source

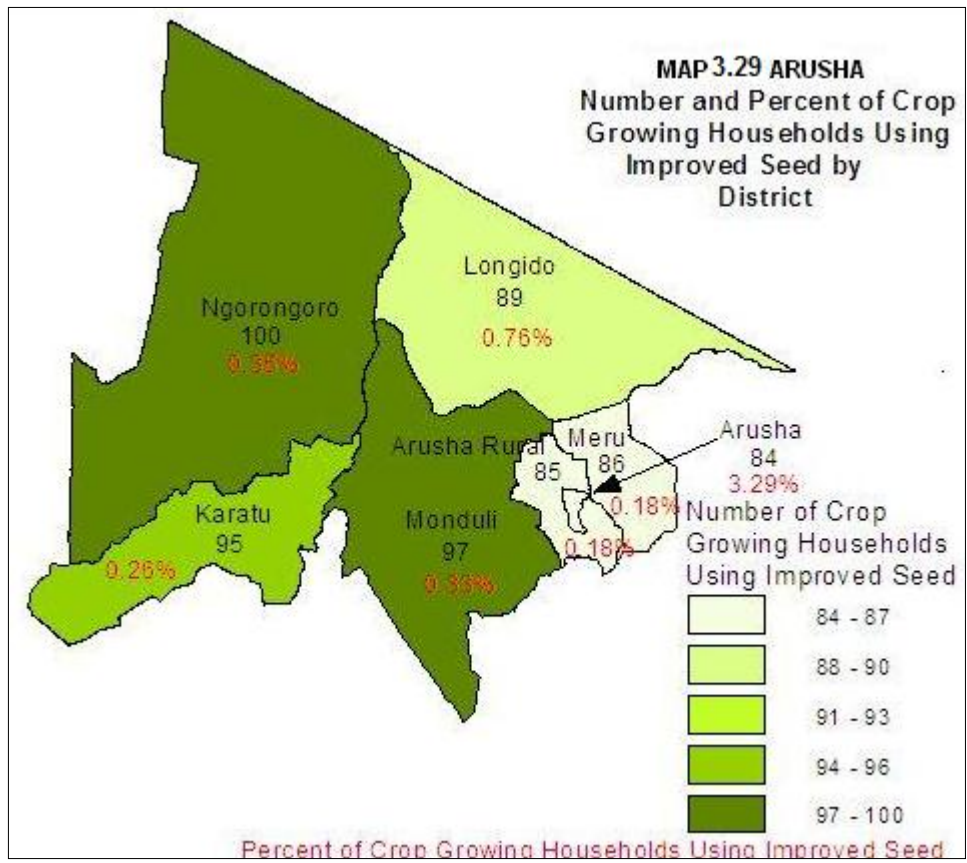
Message	Government	NGO/Dev project	Cooperative	Large scale farmer	Radio/Television /NewsPaper	Neighbour	Other (Specify)
Agrochemicals	73,710	2,972	509	1,043	891	2,381	299
Crop Storage	74,276	4,273	804	1,396	3,325	4,608	-
Erosion Control	76,686	7,575	446	619	1,349	2,548	43
Improved Seeds	92,014	4,342	565	1,163	3,900	4,282	174
Inorganic Fertilizer	65,074	4,040	209	1,018	3,709	4,498	-
Mechanization and Labor Saving Technologies	74,220	4,082	565	1,479	2,806	5,250	165
Organic Fertilizer	78,408	8,304	428	1,606	3,176	7,449	43
Spacing	107,932	3,534	687	986	1,742	4,308	254
Vermin Control	58,172	2,555	267	933	2,929	7,555	211
Irrigation Technologies	46,896	6,313	387	942	2,013	2,484	29

3.8.2.2 Extension Messages

A total of 883,847 received extension messages on proper use of agrochemicals (9%), crop storage (10%), erosion control (10%), improved seeds (12%), inorganic fertilizers (9%), mechanization and labor saving technologies (10%), organic fertilizers (11%), spacing (14%), vermin control (8%) and irrigation technologies (7%) (Table 3.16, Chart 3.95).



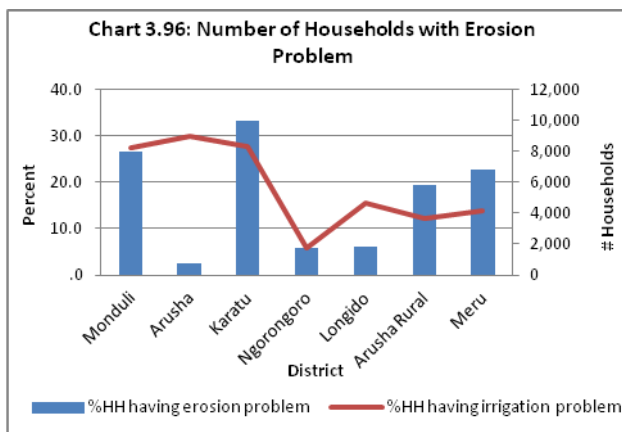




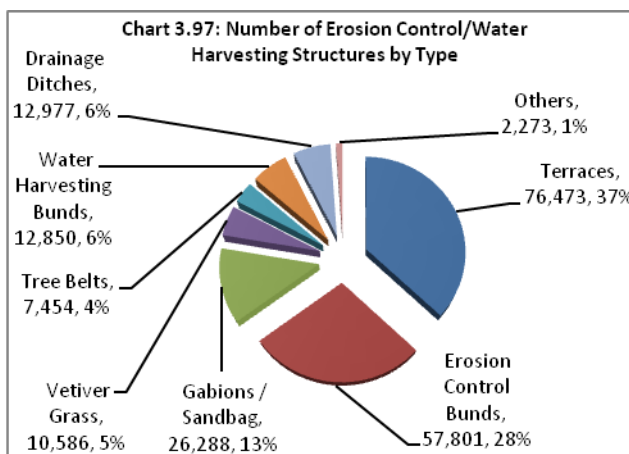
3.9 Erosion Control Facilities

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.

A total of 34,860 or 16.9% of all agricultural households in Arusha region reported having soil erosion problems on their land. This is equivalent to 19% increase as compared to the 2002/3 census which reported 29,371 households having erosion problem. Arusha district was leading by having 30% of its households reporting irrigation problem followed by Karatu (27.7%), Monduli (27.4%), Longido (15.4%), Meru (13.9%), Arusha rural (12.1%) and Ngorongoro (5.9%) (Chart 3.96).



A total of 30,841 which represents 15 percent of the total number of agricultural households in the region had soil erosion and water harvesting facilities on their farms. The proportion of households with soil erosion control and water harvesting facilities was highest in Karatu district (26.2%) followed by Arusha (23.3%), Monduli (19.8%) Arumeru (15.1%), Arusha Rural (12.6%), Longido (7.2%), and Ngorongoro (2.5%).

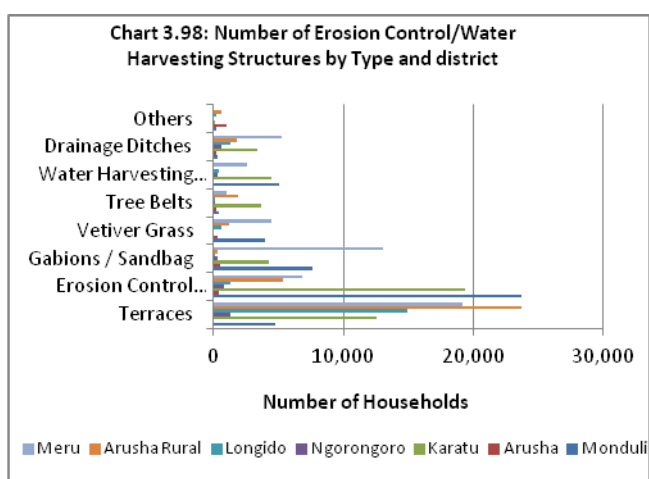


Terraces accounted for 37 percent of the total number of structures, followed by Erosion control bunds (28%), gabions/sandbags (12.7%), drainage ditches (6.3%), water harvesting bunds (6.2%), vetiver grass (5.1%), tree belts (3.6%), and others (1.1%). (Chart 3.97, Table 3.17).

Table 3.4: Number of Erosion Control/Water Harvesting Structures by Type and District as of 2007/08 agriculture year

District	Terraces	Erosion Control Bunds	Gabions /Sandbag	Vetiver Grass	Tree Belts	Water Harvesting Bunds	Drainage Ditches	Others
Monduli	4,787	23,718	7,644	4,001	429	5,072	357	214
Arusha	0	426	511	298	256	0	256	1,023
Karatu	12,566	19,339	4,278	0	3,654	4,456	3,386	178
Ngorongoro	1,350	782	355	0	142	355	639	0
Longido	14,966	1,329	87	578	87	404	1,300	260
Arusha Rural	23,649	5,375	358	1,194	1,911	0	1,792	597
Meru	19,155	6,833	13,055	4,514	976	2,562	5,246	0
Total	76,473	57,801	26,288	10,586	7,454	12,850	12,977	2,273

Terraces, erosion control by Erosion control bunds, and gabions/sandbags together had a total of 160,562 structures, representing 77.7 percent of the total structures in the region. The remaining 22.3 percentages were shared among the rest of the erosion control methods mentioned above. Vertiver grass was not recorded in Karatu and Ngorongoro while water harvesting bunds were not recorded in Arusha and Arusha Rural (Chart 3.98).

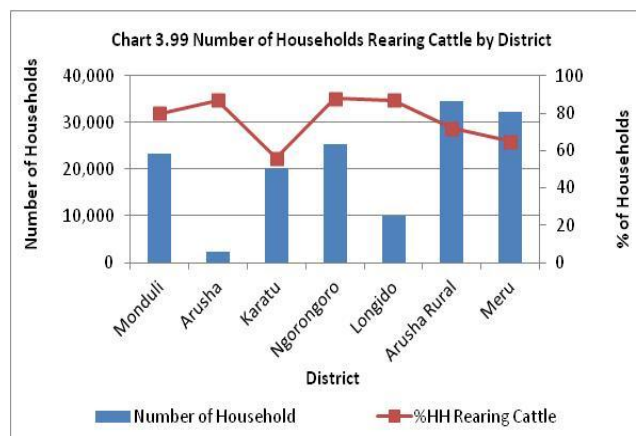


3.10 Livestock Results

3.10.1 Cattle Population

3.10.1.1 Cattle rearing households

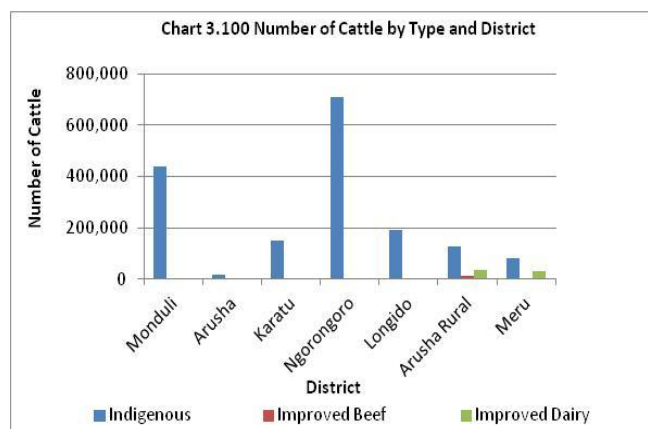
A total of 148,048 households kept cattle of different breeds and types. The highest proportion of cattle keeping households was in Ngorongoro district whereby 88% of its households kept cattle followed by Arusha and Longido each with 87%, Monduli (80%), Arusha Rural (72%), Meru (65%) and Karatu (56%) (Chart 3.99).



As compared to the 2002/3 census results, there has been a 19% increase in the number of cattle keeping households from 124,344.

3.10.1.2 Cattle Population dynamics

The total number of cattle in the region was 1,813,637; of which 1,716,514 (94.6%) were indigenous. Cattle were the second dominant livestock type in the region after goats. The region had 8.5 percent of the total cattle population in Tanzania Mainland.

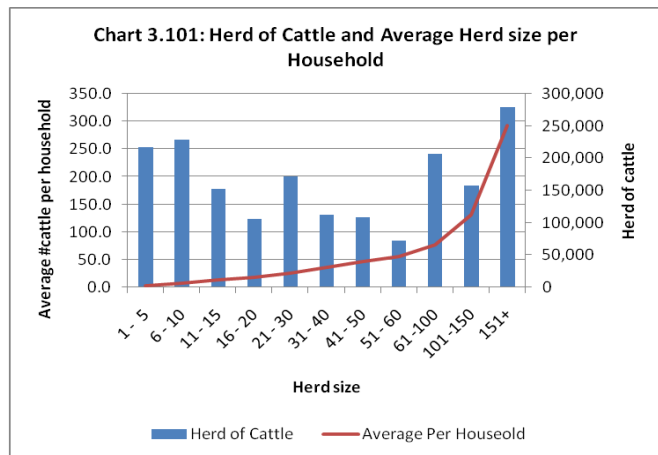


The district with the largest number of cattle was Ngorongoro (708,659 heads, 39.1% of the total cattle in the region followed by Monduli (440,145 heads 24.3%), Longido (193,866 heads, 10.7%), Arusha Rural (179,278 heads, 9.9%) Karatu (153,283 heads, 8.5%). Arumeru (116,031 heads, 6.4%) and Arusha (22,375 heads, 1.2%) (Table 3.22, Chart 3.100 and Map 3.30).

The number of indigenous cattle in Arusha region was 1,716,514 (94.6 % of the total number of cattle in the region), a total of 78,637 cattle (4.3%) were dairy breeds and 18,486 cattle (1.0%) were beef breeds. Ngorongoro district had the largest number of indigenous cattle (707,309 heads accounting for 41.2 of all the indigenous cattle in the region. Arusha Rural district had the largest number of dairy cattle (36,907 heads, 46.9%) in the region followed by Meru (31,234 heads, 39.7%). In general, the number of beef cattle in the region was insignificant. However Ngorongoro and Longido districts had the highest densities (1,168 and 835 cattle per sq. km) respectively.

3.10.1.3 Herd Size

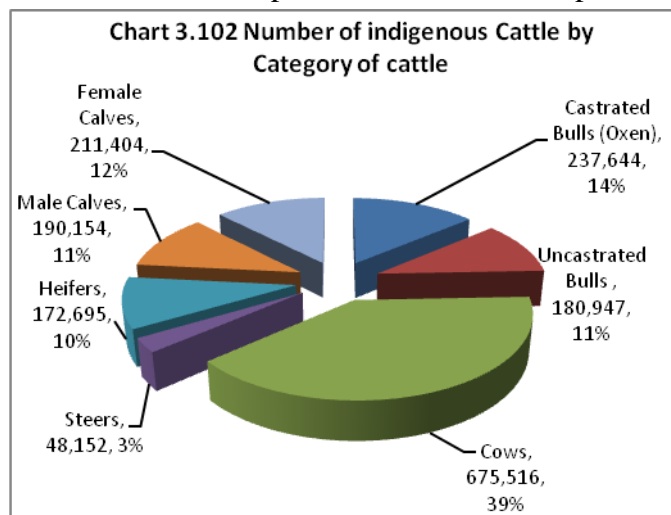
About 92 percent of the total cattle rearing households had herd size of 1-30 cattle and owned 48 percent of the total cattle in the region, resulting in an average of 2 cattle per cattle rearing household. About 55 percent of the cattle-rearing households had herd sizes of 1-5 cattle with an average of 3 cattle per household, (Chart 3.101).



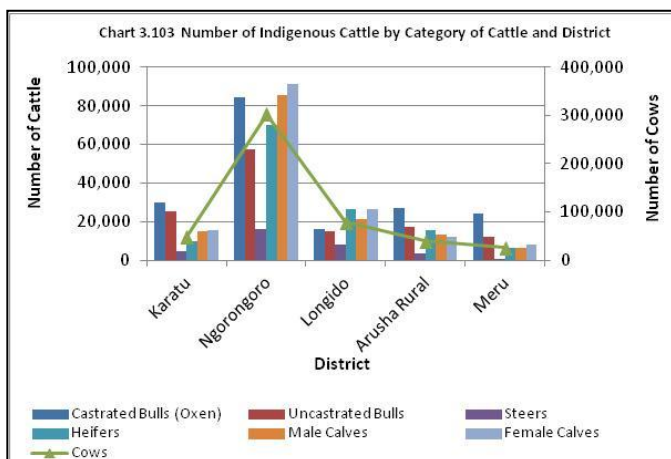
Herd size of 6-30 accounted for about 45 percent of all cattle in the region. Only 4.6 percent of the cattle rearing households had herd size of 21- 30 cattle. There were 955 households with a herd size of 151 or more cattle rearing 278,742 heads resulting into an average of 292 cattle per household. Cattle population in Arusha region increased by 21% during the period of five years from 1,503,633 in 2003 to 1,813,637 cattle in 2008. This trend depicts an overall annual positive growth rate of 2.6 percent.

3.10.1.4 Indigenous Cattle Types

Arusha region had a total of 1,716,514 indigenous cattle. The largest proportion (39%) were cows followed by oxen (14%), female calves (12%), heifers (10%) and steers (3%), (Chart 3.102).

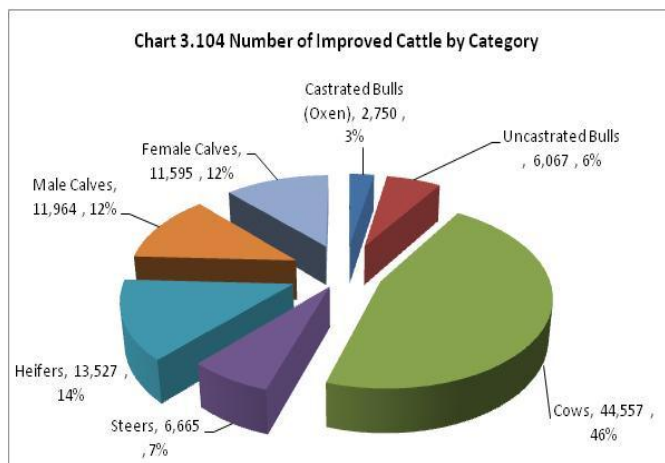


Ngorongoro was the leading district with 41% of all indigenous cattle kept in Arusha region followed by Monduli (26%), Longido (11%), Karatu (9%), Arusha Rural (7%), Meru (5%) and Arusha (1%) (Chart 3.103).

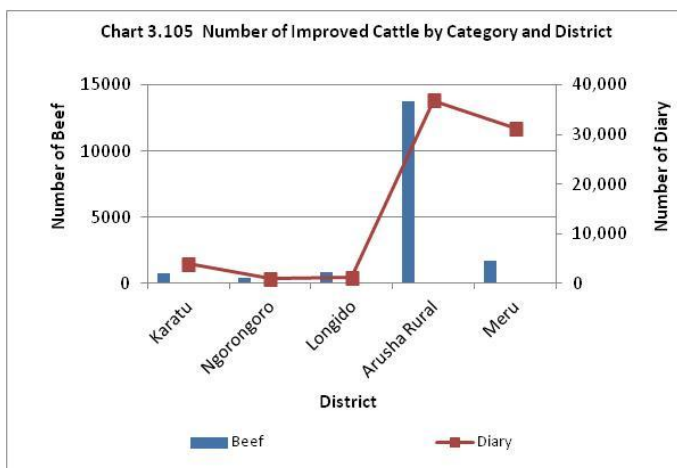


3.10.1.5 Improved Cattle Types

The total number of improved cattle in Arusha region was 97,123 (78,637 dairy and 18,486 improved beef). The dairy cattle constituted 4.3 percent of the total cattle and 81 percent of improved cattle in the region. The number of beef cattle in the region was the smallest (18,486 heads) constituting only 19 percent of the total number of improved cattle and 1.0 percent of the total cattle in the region. Cow type was in the largest amount (44,557, 46%) followed by heifer (13,527, 14%) and the least was Castrated bulls (2,750, 3%). (Table 3.18 and Chart 3.104).



In terms of geographical distribution of the improved cattle, the largest percent age was in Arusha Rural (52%) followed by Meru (34%), Karatu (5%), Arusha (4%), Monduli and Longido each with 2% and Ngorongoro (1%) (Chart 3.105).



The number of improved cattle increased from 58,677 in 2002/3 to 97,123 in 2007/08, which is a staggering growth rate of 10.6 percent.

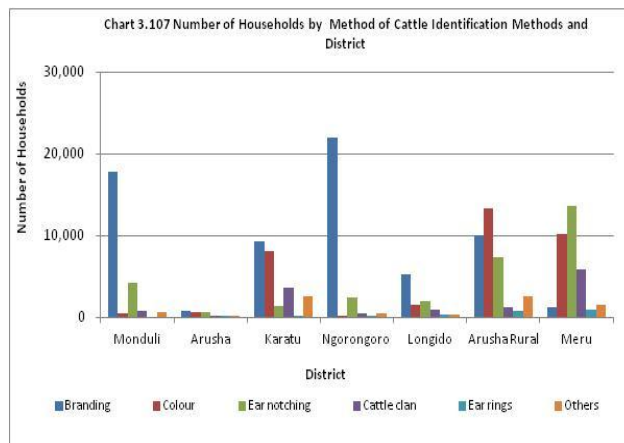
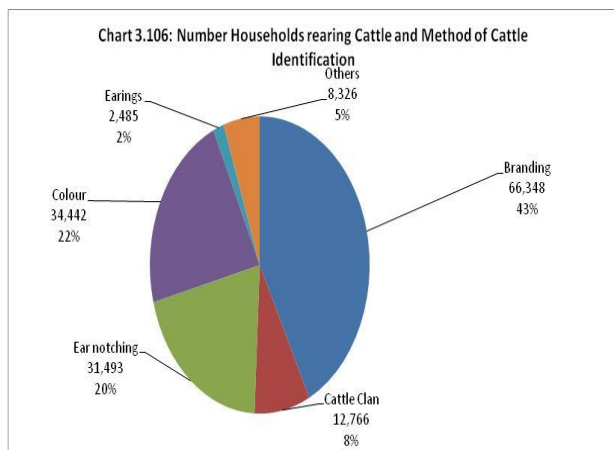
Table 3.5: Number of improved cattle by category and district

District	Castrated Bulls (Oxen)		Uncastrated Bulls		Cows		Steers		Heifers		Male Calves		Female Calves		Totals		Grand Total	%Diary
	Beef	Diary	Beef	Diary	Beef	Diary	Beef	Diary	Beef	Diary	Beef	Diary	Beef	Diary	Beef	Diary		
Monduli	.	.	.	357	71	643	.	214	.	143	.	286	.	357	71	2,000	2,072	97%
Arusha	85	.	298	43	170	1,492	.	170	128	170	128	384	213	384	1,023	2,642	3,665	72%
Karatu	356	356	178	356	178	1,604	.	267	.	535	.	535	.	178	713	3,832	4,545	84%
Ngorongoro	.	.	71	.	142	213	.	213	213	.	.	284	.	213	426	924	1,350	68%
Longido	29	116	116	58	173	491	29	116	347	173	116	.	.	144	809	1,098	1,907	58%
Arusha Rural	956	119	1,194	956	3,105	21,021	3,703	.	1,911	4,539	1,792	4,658	1,075	5,614	13,735	36,907	50,642	73%
Meru	488	244	244	2,196	.	15,251	.	1,952	610	4,758	244	3,538	122	3,294	1,708	31,234	32,943	95%
TOTAL	1,914	835	2,102	3,966	3,841	40,715	3,731	2,933	3,209	10,318	2,279	9,685	1,410	10,185	18,486	78,637	97,123	81%

3.10.1.6 Methods of cattle identification

A total of 155,859 cattle rearing households reported to identify their cattle using the method of branding (43%), color (22%), ear notching (20%), cattle clan (8%),earring (2%) other methods (5%) (Chart 3.106).

The largest proportion of the households identifying their cattle was in Arusha Rural (23%)



followed by Meru (21%), Ngorongoro (17%), Karatu (16%), Monduli (15%), Longido (7%) and Arusha (1%). The common identification method were branding, colour and ear notching. Chart (3.107).

3.10.2 Goat Production

Goat rearing was the most important livestock keeping activity in the region followed by cattle, sheep and pig. In terms of total number of goats on the Mainland, Arusha region ranked the second after Shinyanga out of the 21 regions contributing 12 percent of the total goats on the Mainland.

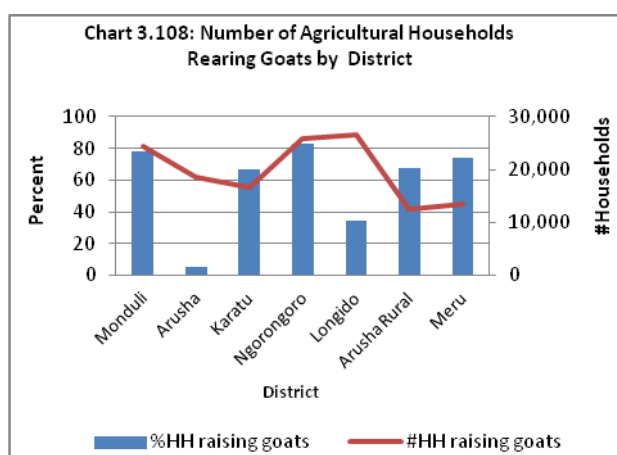
3.10.2.1 Goat Population

The number of goat rearing households in Arusha region was 125,787 (68% of all livestock rearing households in the region). The largest proportion of goat rearing households was in Longido (88%) followed by Ngorongoro (86%), Monduli (81%), Arusha (62%), Karatu (56%), Meru (45%) and Arusha rural (42%) (Table 3.19 and Chart 3.108).

Table 3.6: Number of Goats by Type and District

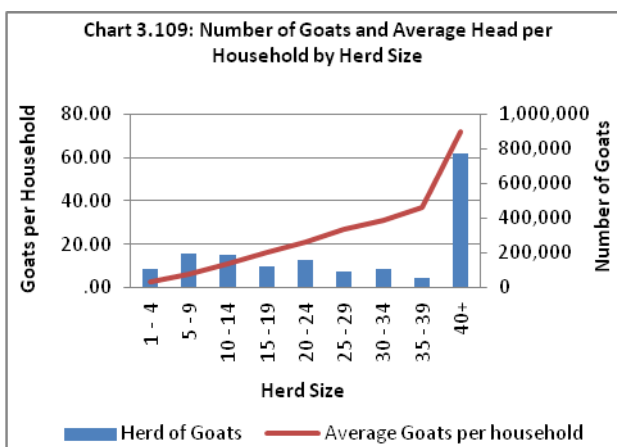
District	Indigenous			Improved for Meat			Improved Dairy			Total	
	Number of households	Number of Goats	%	Number of households	Number of Goats	%	Number of households	Number of Goats	%	Number of households	Number of Goats
Monduli	23,504	427,142	99.6	-	-	-	286	1,572	0.4	23,790	428,714
Arusha	1,577	24,080	100.0	-	-	-	-	-	-	1,577	24,080
Karatu	20,052	173,602	99.4	-	-	-	178	980	0.6	20,230	174,582
Ngorongoro	24,868	654,519	99.9	-	-	-	355	568	0.1	25,223	655,087
Longido	10,257	228,652	98.4	29	520	0.2	347	3,120	1.3	10,632	232,293
Arusha Rural	19,349	128,038	90.7	-	-	-	1,194	13,138	9.3	20,543	141,177
Meru	20,742	128,476	79.1	122	244	0.2	2,928	33,797	20.8	23,792	162,516
Total	120,348	1,764,510	97.0	151	764	0	5,289	53,176	3	125,787	1,818,450

Arusha region had a total population of 1,818,450 goats giving an average of 14 heads of goat per goat rearing household. Ngorongoro had the largest number of goats (655,087 goats, 36% of all goats in the region), followed by Monduli (428,714 goats, 23.6%), Longido (232,293 goats, 12.8%), Ngorongoro (466,011 goats, 28%), Karatu (174,582 goats, 9.6%), and Arumeru (162,516 goats, 8.9%). Arusha district had the smallest number of goats (24,080 goats, 1.3%) (Chart 3.108 and Map 3.31). However, Ngorongoro district had the highest density (1,306 goats per km²).



3.10.2.2 Goat Herd Size

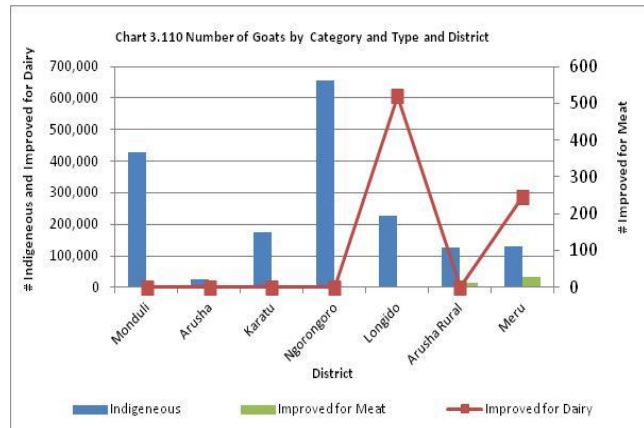
About 33.3% of the goat-rearing households had herd size of 1-4 goats with an average of 2.7 goats per goat rearing household. About 72% of total goat-rearing households had herd size of 1-14 goats and owned 27.3% percent of the total goats in the region resulting into an average of 14 goats per goat-rearing household (Chart 3.109).



As compared to the 2002/3 census results, the 1-4 herd size has decreased by 9.3% from 3 goats per household.

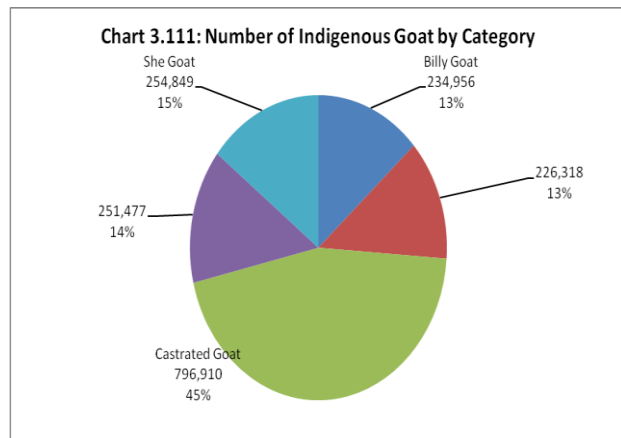
3.10.2.3 Goat Breeds

Both indigenous and improved goat breeds were reported in Arusha region. Both were categorized as billy goats, she goats, castrated goats, male kid and she kid. Goat husbandry in the region was dominated by the indigenous breeds that constituted 97 percent of the total goats in the region. Improved goats for meat and dairy goats constituted 0.04 and 2.9 percents respectively of the total goats (Chart 3.110).

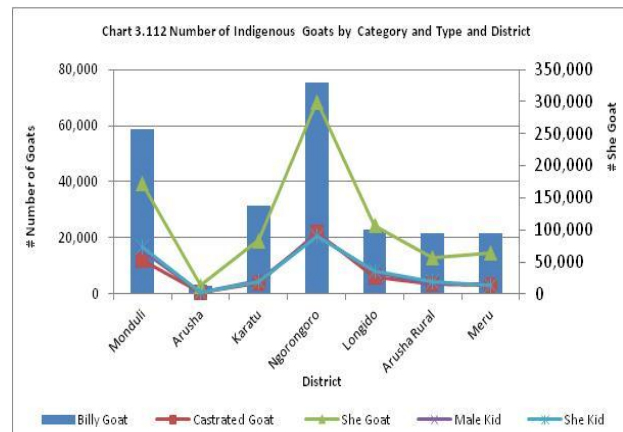


3.10.2.3.1 Indigenous Goat Breed types

Arusha region had a total of 1,764,510 indigenous goats of which 45% were castrated, she goats (15%), male kids (14%), and she kids and billy goats each with (13% each) (Chart 3.111).

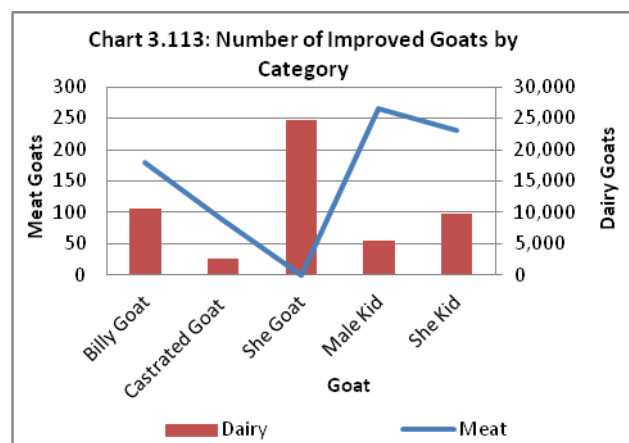


The largest regional share of indigenous goats was in Ngorongoro district (37%) followed by Monduli (24%), Longido (13%), Karatu (10%), Arusha Rural and Meru each with (7%) and Arusha (1%) (Chart 3.112).

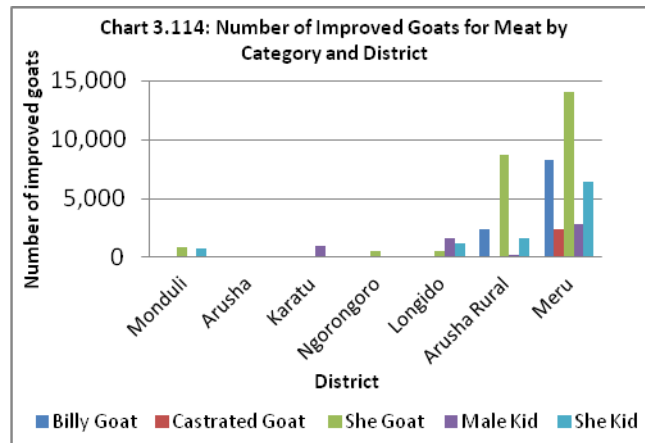


3.10.2.3.2 Improved Goat Breeds

Arusha region had a total of 53,940 improved goats; of which 53,176 (99%) were for dairy purposes and 764 (1%) were for meat. The largest percent age of improved goats (46%) were the she goats followed by billy goats (20%), she kids (19%), male kids (11%) and castrated goats (5%) (Chart 3.113).

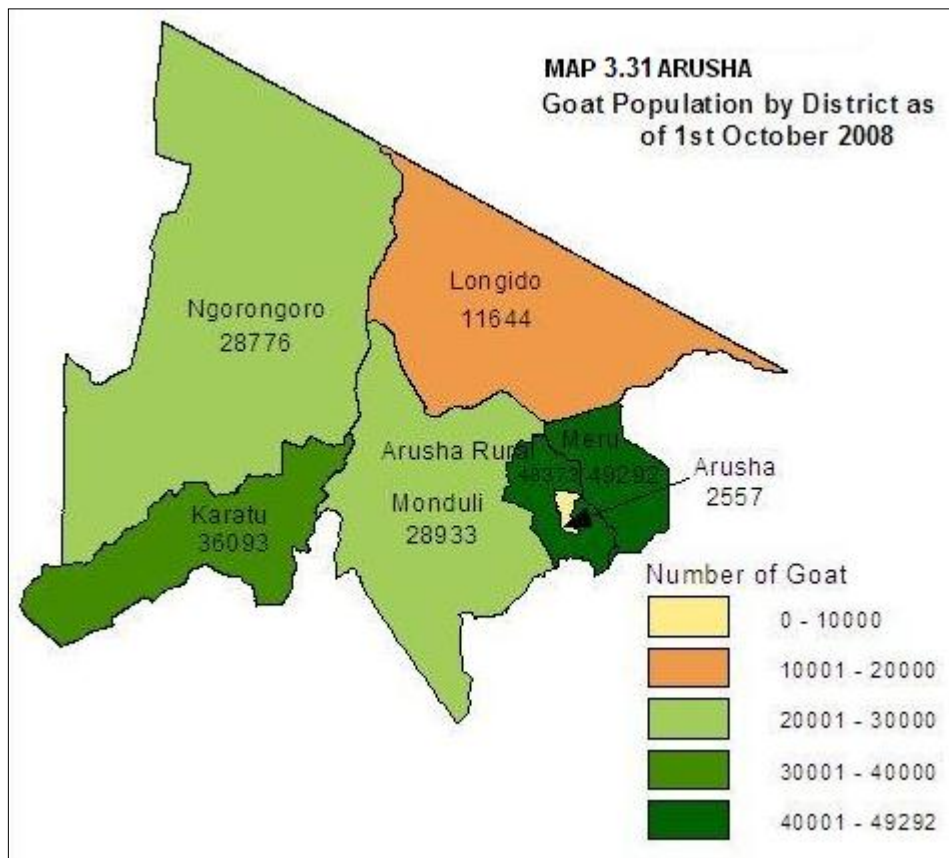
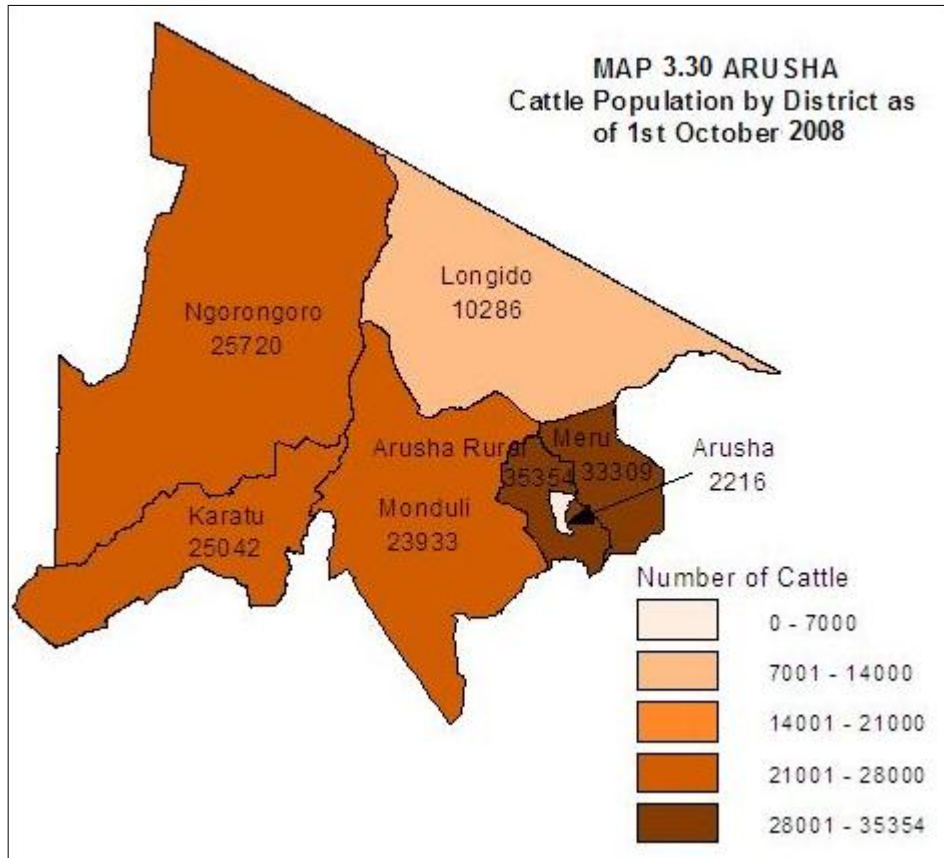


Meru had the largest proportion of improved goats (63.1%) followed by Arusha Rural (24.4%), Longido (6.7%), Monduli (2.9%), Karatu (1.8%) and Ngorongoro (1.1%). Arusha did not report having improved goats (Chart 3.114).



3.10.2.4 Goat Population Trend

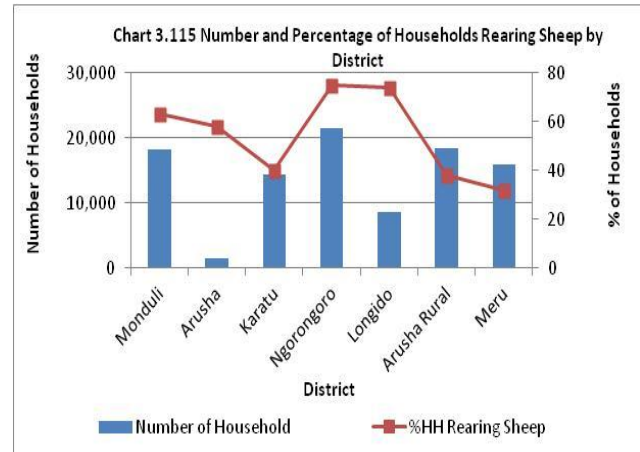
The overall annual growth rate of goat population from 2003 to 2008 was 2 percent. This positive trend implies five years of population increase from 1,650,445 in 2003 to 1,818,450 in 2008.



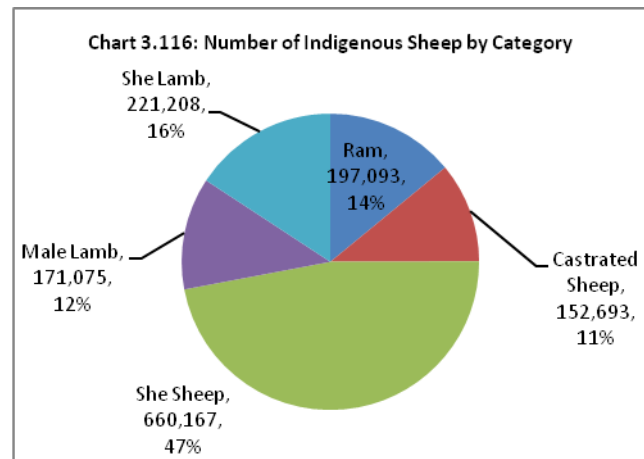
3.10.3 Sheep Production

Sheep rearing was the third important livestock keeping activity in Arusha region after goats and cattle. The region ranked 1st out of 21 Mainland regions and had 22 percent of all the sheep on Tanzania Mainland.

Arusha region residents practice indigenous sheep rearing only. A total of 98,550 or 48% of all agricultural households and 59% of livestock keeping households in Arusha region practiced sheep rearing. Chart 3.115 shows that Ngorongoro district had the highest proportion of sheep rearing households (75% of all agricultural households in Arusha region) followed by Longido (74%), Monduli (63%), Arusha (58%), Karatu (40%), Arusha Rural (38%) and Meru (32%).



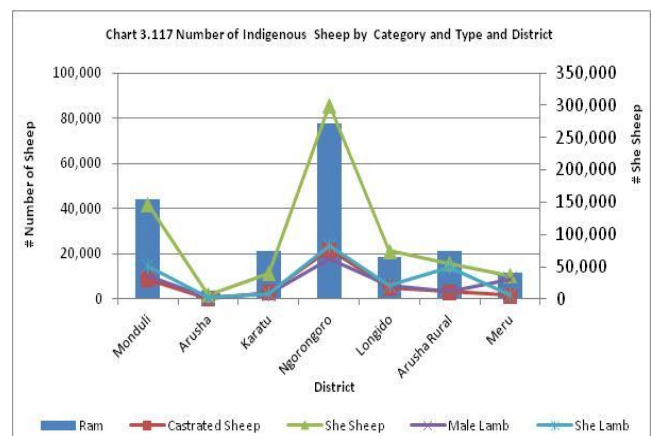
As related to livestock keeping households Ngorongoro had the highest proportion (79%) followed by Longido (78%), Monduli (71%), Arusha (63%), Karatu (59%), Arusha Rural (48%) and Meru (41%).



The total of indigenous sheep types was 1,402,236 heads; of which 47% were she sheep. Other types were she lamb (16%), ram (14%), male lamb (12%) and castrated sheep (11%). (Chart 3.116).

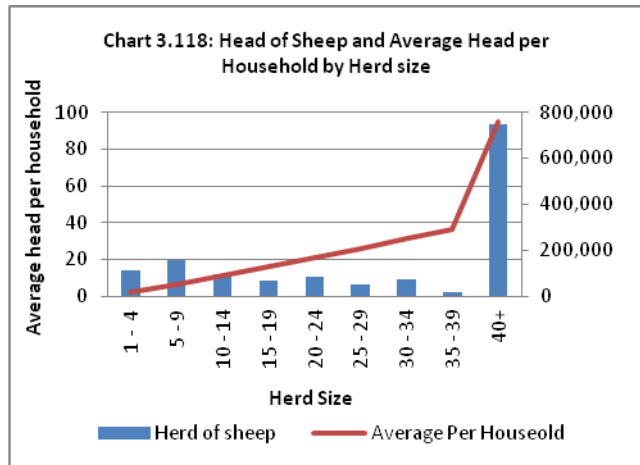
3.10.3.1 Sheep Population

Arusha region had a total of 1,402,236 sheep, giving an average of 14 heads of sheep per sheep-rearing household. All sheep reported were indigenous. The district with the largest number of sheep was Ngorongoro (599,099 sheep, 42.7%) followed by Monduli with 308,837 sheep (22.0 % of the total sheep in the region), Longido(152,493 shep, 10.6%) Arusha



Rural (148,582 sheep, 10.6%) and Karatu (87,692 sheep, 6%). Arusha district had the smallest number of sheep (15,002 sheep) accounting for 1.1 percent only. (Chart 3.117 and Map 3.32). Arumeru district also had the highest density (27,198 sheep per km²).

About 46% all sheep rearing households had a herd size of 1-4 and an average heads per household of 2 sheep. About 25% of all households had a herd size of 5-9 with an average head per household of 6 sheep. About 21% of all sheep rearing households had a herd size of 10-39 with an average heads per household of 11 to 36 sheep. About 8% of all sheep rearing households had a herd size of at least 40 with an average heads per household of 95 sheep (Chart 3.118).

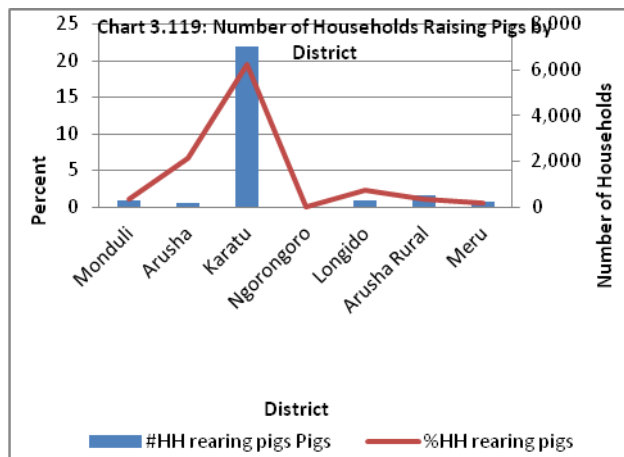


3.10.3.2 Sheep Population Trend

The overall annual growth rate of the sheep population for the five year period from 2003 to 2008 was 6.5 percent. The population has increased by 37% from 1,024,149 to 1402236 sheep in 2008.

3.10.4 Pig Production

Piggery was the least important livestock keeping activity in the region after cattle, goats and sheep. The region ranks 13th out of 21 Mainland regions and accounted for 1.7 percent of the total Mainland pigs.



The number of pig-rearing households in Arusha region was 8,478 (4% of the total agricultural households in the region) rearing 27,475pigs giving an average of 4 pigs per pig-rearing household. The district with the largest proportion of pigs rearing households was Karatu (20%) followed by Arusha (7%) and Longido (2%). Monduli and Arusha each had 1% and no pig production was reported in Ngorongoro and Meru (Chart 3.119). As compared to the 2002/3 census results, there has been a 169% increase in the number of pig rearing households from 3,154 households. In terms of number of pigs, there has been a 245% increase from 7,958 pigs in 2003.

Of the total 27,475 pigs kept in the region, the most dominant type of indigenous sheep were sow/gilt (39% of all pigs kept) followed by she piglet (21%), boar (17%), male piglets (13%) and castrated male (10%). (Table 3.20 and Chart 3.120).

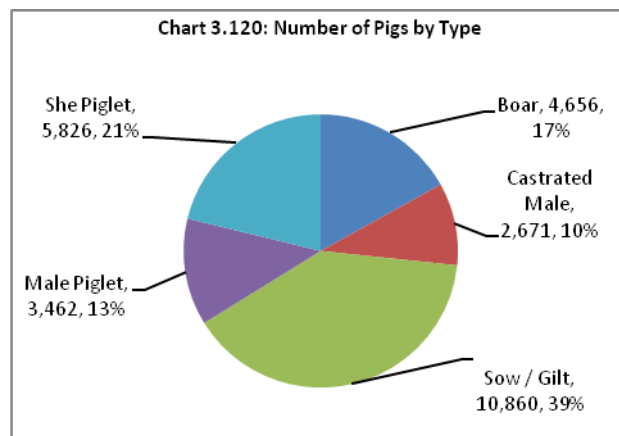
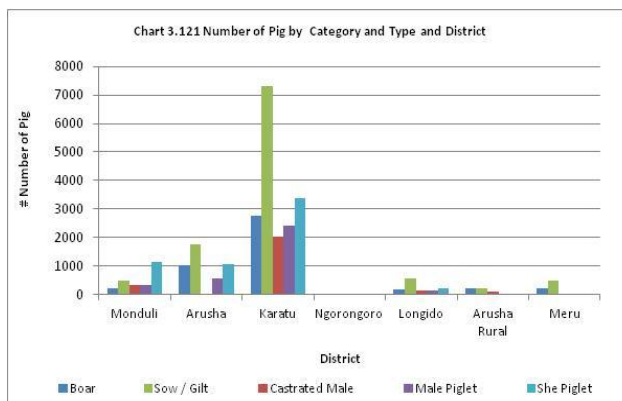


Table 3.20: Number of Pigs by Type of Pigs and District

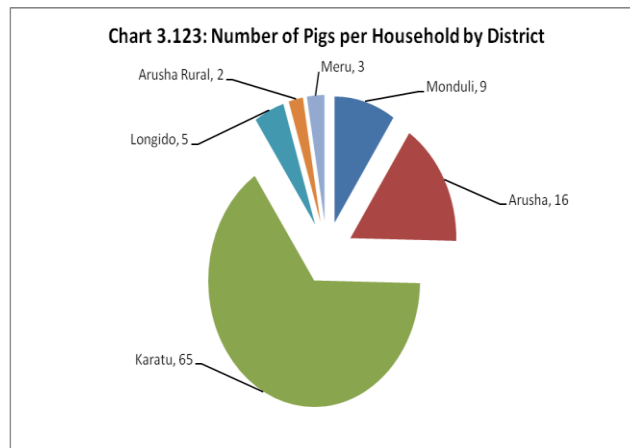
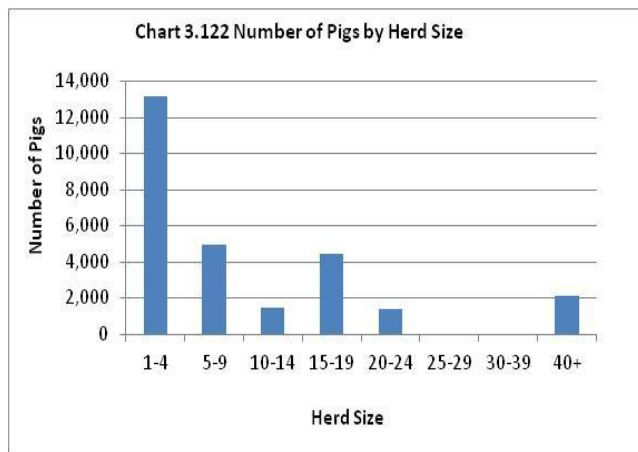
District	Pig Type					Total
	Boar	Castrated Male	Sow / Gilt	Male Piglet	She Piglet	
Monduli	214	357	500	357	1,143	2,572
Arusha	1,023	-	1,747	554	1,065	4,390
Karatu	2,763	2,050	7,308	2,406	3,386	17,913
Ngorongoro	-	-	-	-	-	-
Longido	173	144	578	144	231	1,271
Arusha Rural	239	119	239	-	-	597
Meru	244	-	488	-	-	732
Total	4,656	2,671	10,860	3,462	5,826	27,475

The district with the largest number of pigs was Karatu with 17,913 pigs (65.2% of the total pig population in the region) followed by Arusha (4,390 pigs, 16%), Monduli (2,572 pigs, 9.4%) and Longido (1,271 pigs, 4.6%). Meru kept only boars and sow/gilt types and had the smallest number of pigs (732 pigs, 2.7%), followed by Arusha Rural (597 pigs, 2.2%).



Pigs were not reared in Ngorongoro district (Chart 3.121 and Map 3.33). However, Ngorongoro district had the highest density (29,852 pigs per sq km).

The majority (85%) of pig rearing households had a herd size of 1-4 with an average of 2 pigs per household. About 9% of the households had a herd size of 5-9 with average of 6 pigs per household. Around 5% of the households had herd size of 10-24 with an average of 13 to 33 herds pigs per household. About 1% of the households had herd size of at least 40 pigs with an average pigs per household of 50 herds (Chart 3.122).



In terms of average number of pigs per household by district, Karatu had the largest number of 65 pigs per household followed by Arusha (16), Monduli (9), Longido (5), Meru (3) and Arusha Rural (2) (Chart 3.123).

3.10.5 Chicken Production

The poultry sector in Arusha region was dominated by chicken production. The region contributed 2.4 percent to the total chicken population in Tanzania Mainland.

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

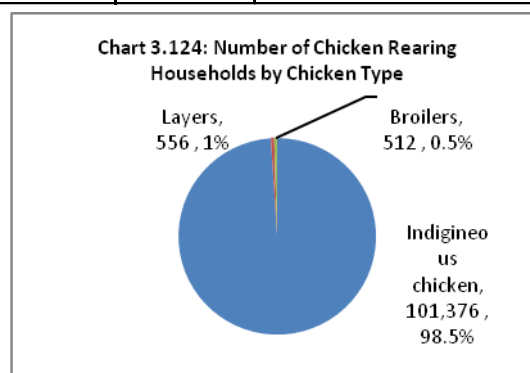
District	Indigenous chicken		Layers		Broilers		Total	
	#HH	#chicken	#HH	#chicken	#HH	#chicken	#HH	#chicken
Monduli	12,574	129,450	286	1,072	143	1,143	12,931	131,665
Arusha	1,875	18,284	-	-	-	-	1,875	18,284
Karatu	20,943	154,442	-	-	178	535	21,121	154,976
Ngorongoro	4,121	42,346	-	-	71	71	4,121	42,417
Longido	1,271	20,513	29	289	-	-	1,271	20,802
Arusha Rural	24,843	196,835	119	2,389	119	119	24,843	199,343
Meru	35,749	387,746	122	732	-	-	35,749	388,478
Total	101,376	949,616	556	4,481	512	1,868	101,911	955,966

3.10.5.1 Chicken rearing households

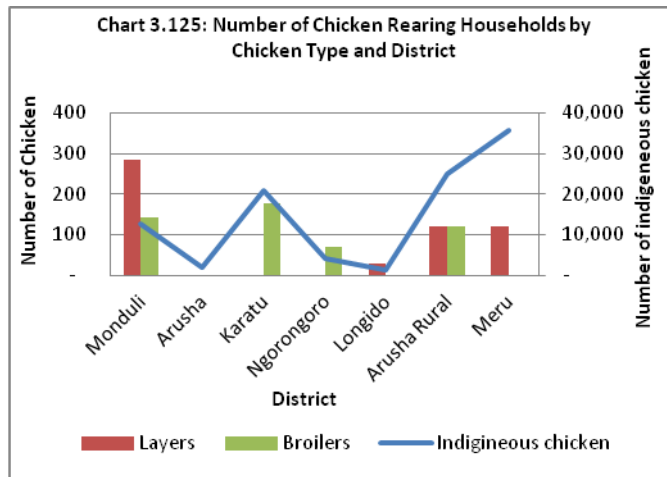
Arusha region was ranked 20th out of the 21 Mainland regions in chicken production.

The number of households keeping chicken was 101,911 raising about 955,966 chicken. This gives an average of 9 chicken per chicken-rearing household. Indigenous

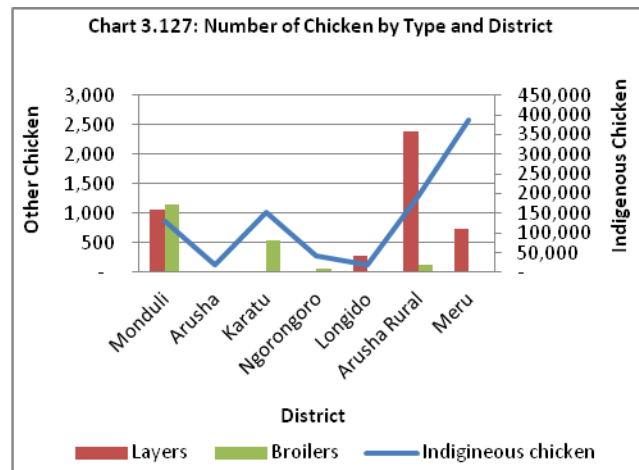
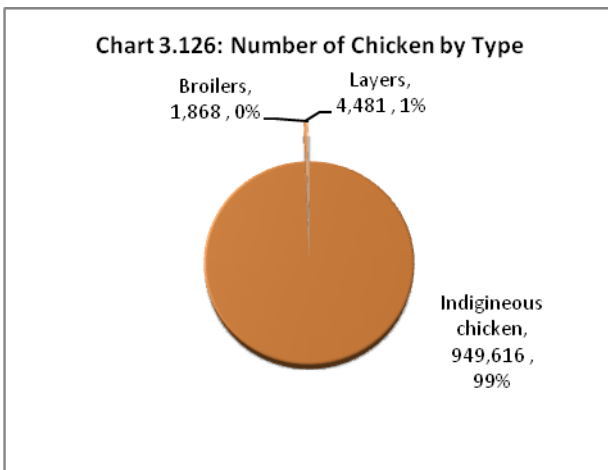
chicken were reared by 98.5% of the households followed by layers (1%). Broilers were kept by the smallest number of households (0.5%) (Table 3.21, Chart 3.124).



The district with the largest number of chicken rearing households was Meru (35%) followed by Arusha Rural (24%), Karatu (21%), Monduli (13%), Ngorongoro (4%), Arusha (2%) and Longido (1%) (Chart 3.125).



Arusha region kept a total of 955,966 chicken of which, 949,616 or 99% were indigenous and the rest were of improved type. The district with the largest number of chicken was Meru (388,478 chicken, 40.6 percent of the total number of chickens in the region) followed by Arusha Rural (199,343 chicken, 21%), Karatu (154,976 chicken, 16.2%), Monduli (131,665 chicken, 13.8%) and Ngorongoro (42,417 chickens, 4.4%). Arusha district and Longido had the smallest number of chicken each accounting for 2 percent of the total chicken population in the region (Chart 3.126, Chart 3.127, Map 3.34). However Meru district had the highest density (6,349 chicken per km²).

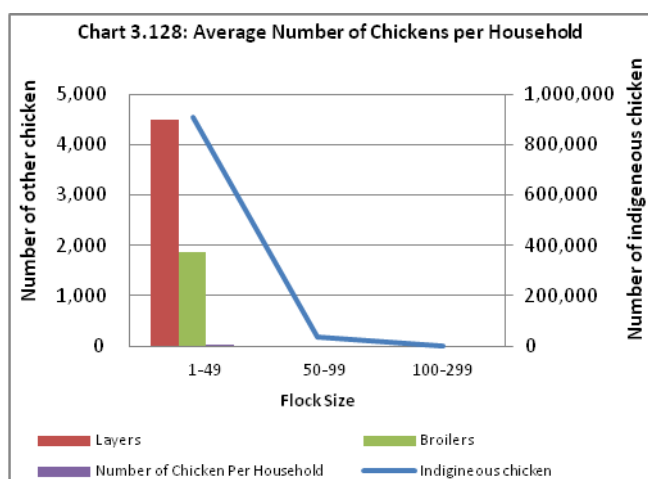


The total number of improved chicken in Arusha region was 6,350 (4,481 layers and 1,868 broilers). Layers constituted 0.5 percent of the total chicken and 70 percent of improved chicken in the region. The number of broilers in the region was smaller constituting only 30 percent of the total number of improved chicken and 0.2 percent of the total number of chicken. Improved chicken were most common in Arusha Rural and Monduli districts. However improved chicken were not reared in Arusha district. The number of improved chicken in the five-year period from 2003 to 2008 has decreased from 58,677 to only 6,250 chicken at a growth rate of -36 percent.

Broiler chicken population in the region has decreased at an annual rate of -43 percent for the period of five years from 31,793 in 2003 to 1,868 in 2008. Broilers were mostly kept in Monduli district followed by Karatu District (Chart 3.127). The overall annual chicken population growth rate during the five-year period from 2003 to 2008 was very small at only 0.5 percent, from 93, 1178 to 955,966 chicken respectively. The dominance of indigenous breed makes the population trend for the indigenous chicken more-or-less the same as that of the total chicken in the region.

3.10.5.2 Chicken Flock Size

The results indicate that about 99.9 percent of all chicken-rearing households were keeping 1-49 chicken with an average of 9 chicken per household. Less than 1 percent of chicken rearing households were reported to be keeping the flock size of 50 to 99 chickens with an average of 62 chickens per household including flock size of more than 100 chicken which had an average of 100 chicken per chicken-rearing household (Chart 3.128).



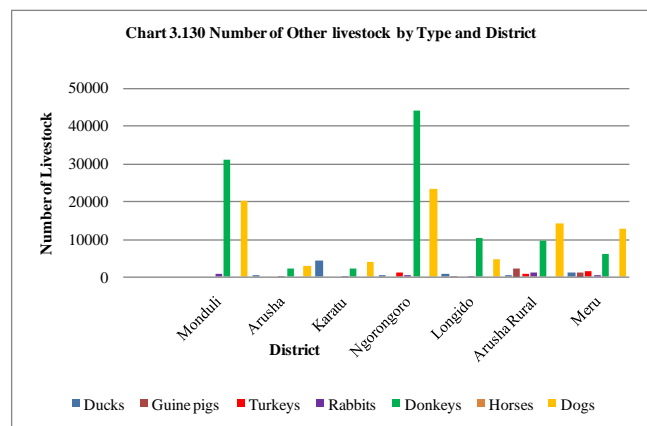
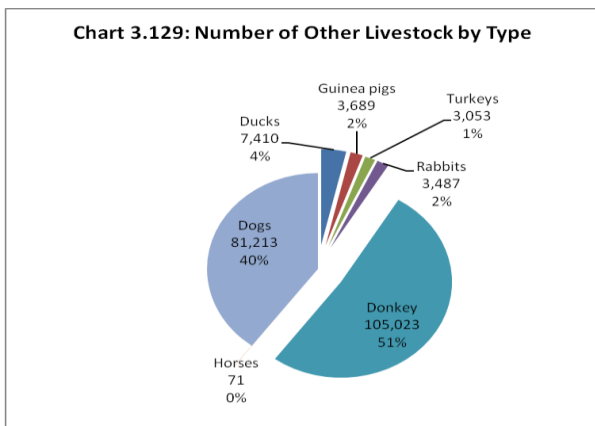
3.10.6 Other Livestock

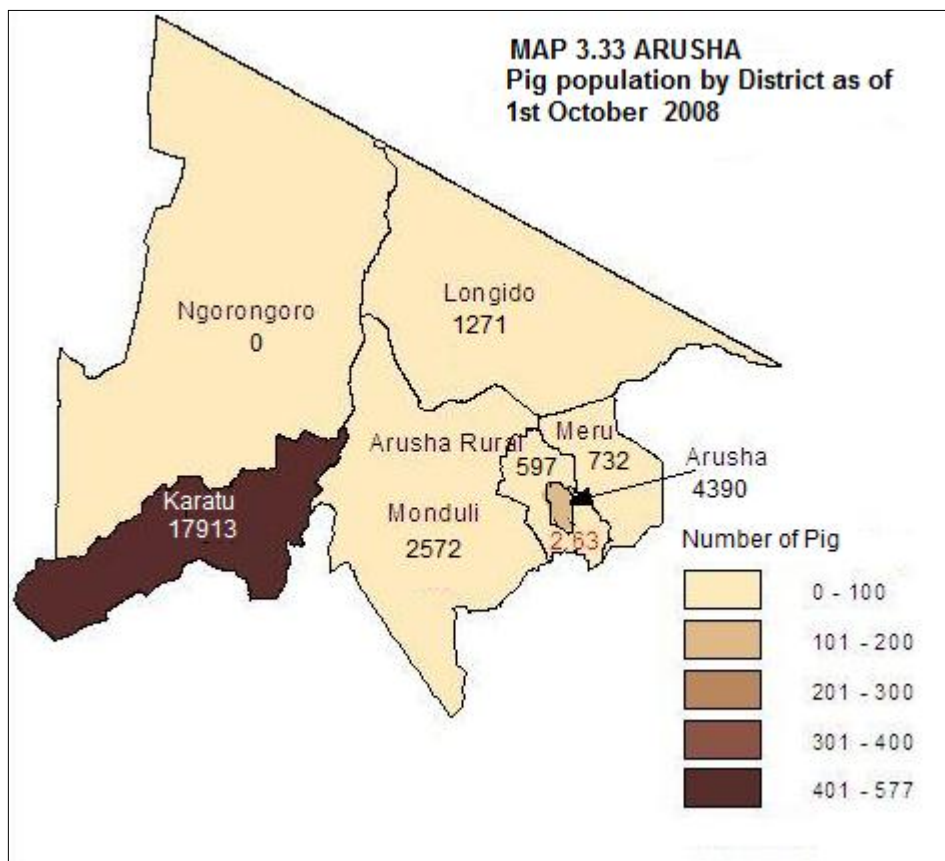
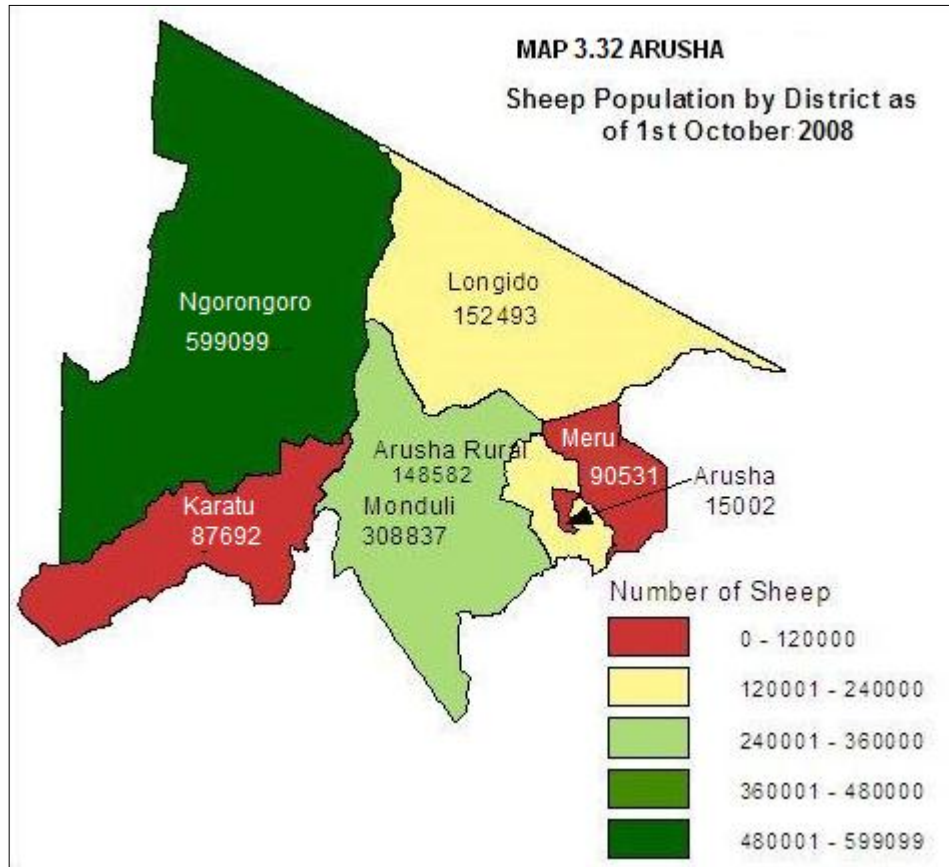
Other livestock in the region include ducks (7,510), guinea pigs (3,689), turkeys (3,053), rabbits (3,487), donkeys (105,023), horses (71) and dogs (81,213) raised by rural agricultural households in Arusha region (Table 3.22).

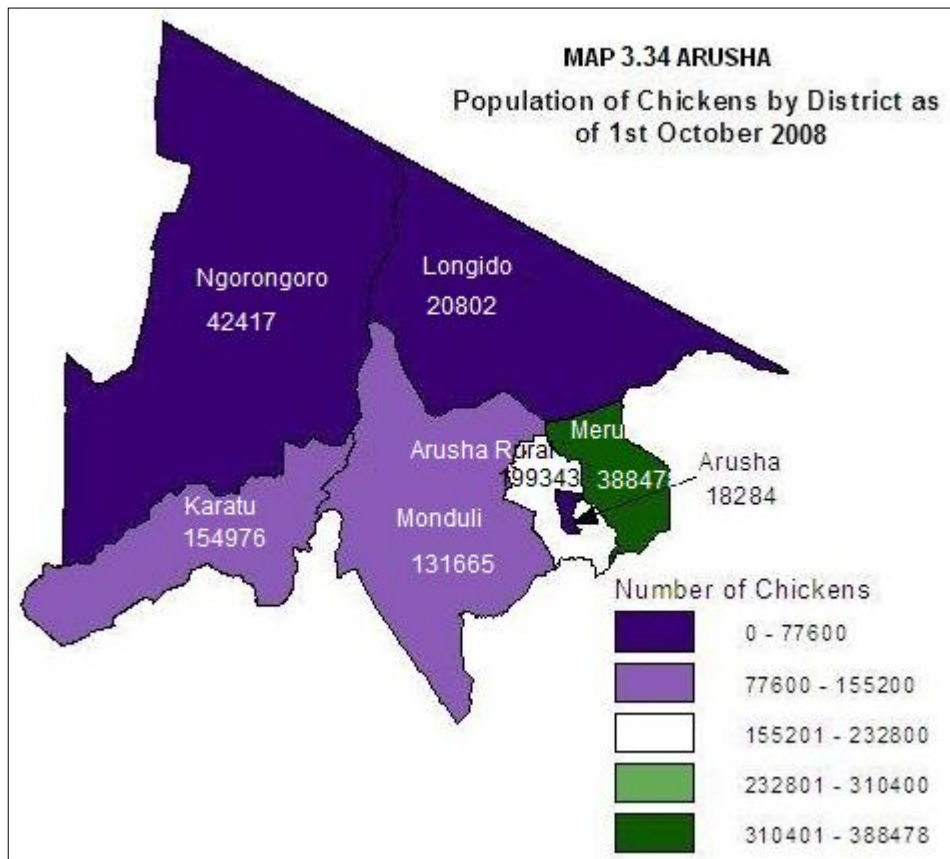
Table 3.22: Number of Other Livestock by Type of Livestock and District as of 1st October 2008

District	Ducks	Guinea Pigs	Turkeys	Rabbits	Donkey	Horses	Dogs
Monduli	0	0	0	714	31,077	0	20,003
Arusha	511	0	0	170	2,131	0	2,898
Karatu	4,367	0	0	178	1,961	0	3,743
Ngorongoro	355	0	995	426	43,980	71	23,376
Longido	722	202	0	318	10,343	0	4,652
Arusha Rural	478	2,389	717	1,314	9,675	0	13,974
Meru	976	1,098	1,342	366	5,856	0	12,567
Total	7,410	3,689	3,053	3,487	105,023	71	81,213

The largest number of ducks in the region was found in Karatu district (59% of all ducks in the region), followed by Arumeru (13.2%), Longido (9.7%), Arusha (6.9%), Arusha Rural (6.4%), and Ngorongoro (4.8%). There were no ducks in Monduli. Turkeys were reported in Arumeru only. Guinea pigs were reported in Longido, Arusha Rural, and Arumeru districts only. Turkeys were reported in Ngorongoro, Arusha Rural, and Arumeru districts. There was a relatively good production of donkeys, rabbits, and dogs in all the districts. The production of horses was reported in Ngorongoro only (Chart 3.129 and Chart 3.130)

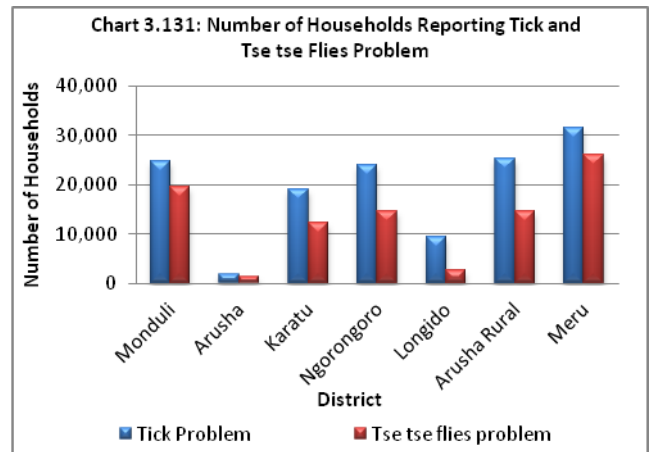






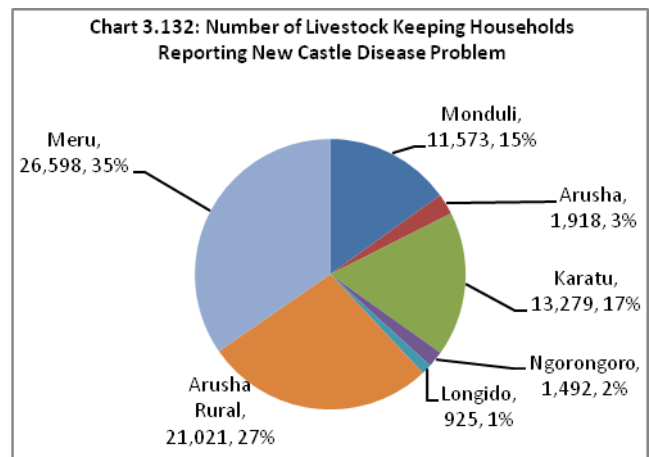
3.10.7 Pest and Parasite Incidence and Control

The results show that 73 percent and 49 percent of the total livestock-keeping households reported to have encountered ticks and tsetse fly problems respectively. Chart 3.131 shows that there was a predominance of tick related diseases over tsetse related diseases. Incidences of both problems were highest in Meru district but lowest in Arusha district (Map 3.35).



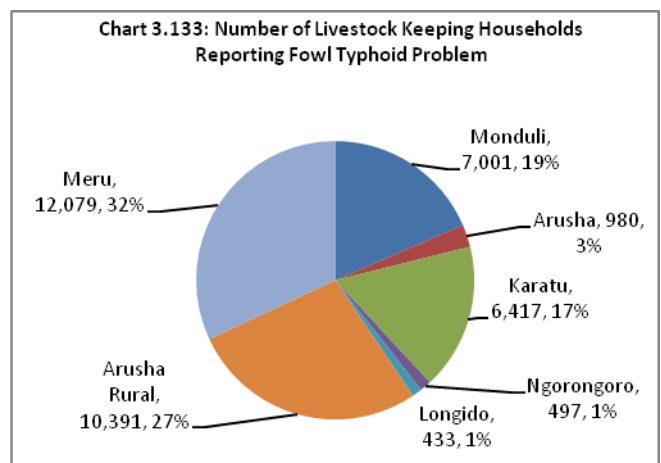
3.10.7.1 Newcastle Disease

New castle disease was reported by 76,806 livestock keeping households or 41% of all agricultural households in Arusha region. Meru had the highest incidence of Newcastle Problem (35% of households in the region), followed by Arusha Rural (27%) Karatu (17%), Monduli (15%), Arusha (3%), Ngorongoro (2%) and Longido (1%). (Chart 3.132).



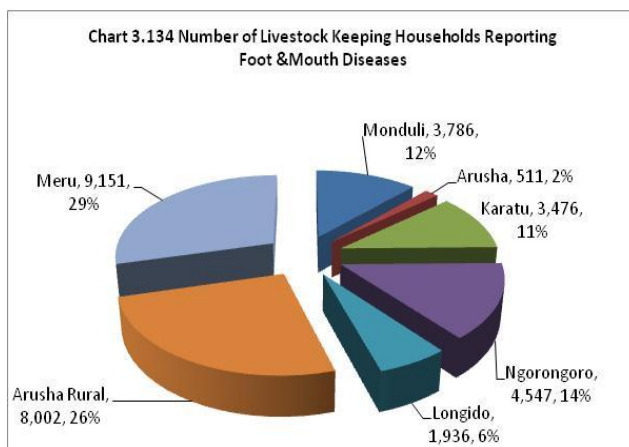
3.10.7.2 Fowl Typhoid Disease

Fowl typhoid was a notorious problem in Meru district affecting 32 percent of livestock keeping households in the district followed by Arusha Rural (27%), Monduli (19%), Karatu (17%), Arusha (3%), Longido (1%) and Ngorongoro (1%). A total of 37,799 households (20%) were affected by the disease. (Chart 3.133)



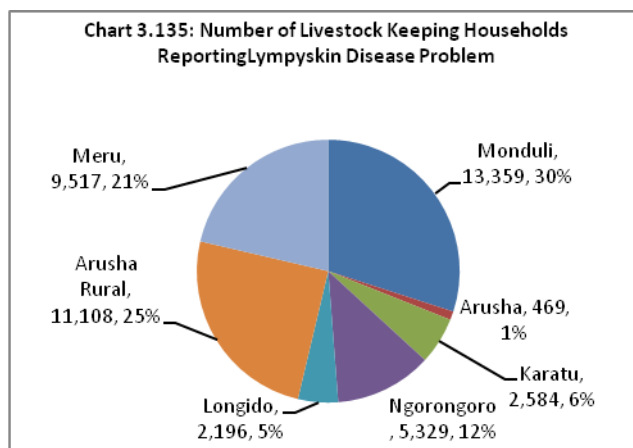
3.10.7.3 Foot and Mouth Disease(F&MD)

Foot and Mouth Problem in the Region affected 31,410 or 17% of the livestock keeping households in all districts with slight variations across the districts. The prevalence of the problem was highly reported in Meru (29% of all livestock keeping households reporting F&MD in the district) followed by Arusha Rural (25%), Ngorongoro (14%), Monduli (12%), Karatu (11%), Longido (6%) and Arusha (2%), (Chart 3.134).



3.10.7.4 Lympskin Disease

Lympy skin disease problem was reported by 44,562 or 24% of all agricultural households in Arusha region. It was most prevalent in Monduli (30% of livestock keeping households in the district), followed by Arusha Rural district (25%), Meru (21%), Ngorongoro (12%), Karatu (6%), Longido (5%) and Arusha (1%). (Chart 3.135)



3.10.7.5 Methods of livestock disease control

The main methods used in ticks and tse tse flies control were dipping, spraying, trapping (tse tse flies) and smearing. The most practiced method of tick controlling was spraying, used by 65 percent of all livestock rearing households in the region. Other methods used by order of importance include dipping (7.7%), smearing (3.9%), and other traditional methods like hand picking (0.5%). However, 22 percent of livestock-keeping households did not use any method. (Table 3.23 and Chart 3.136).

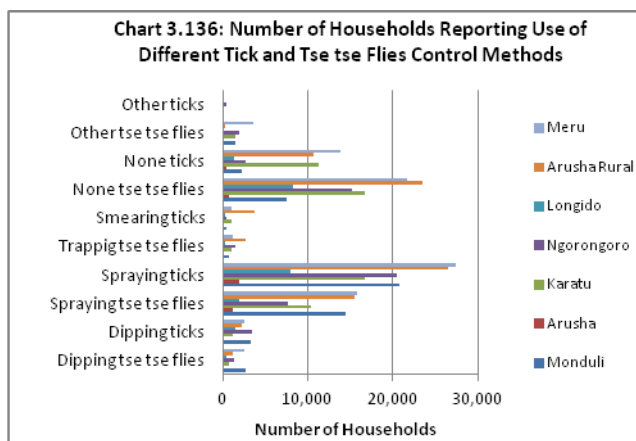
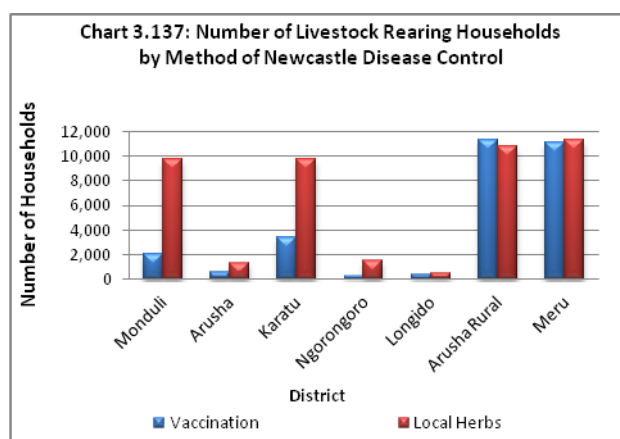


Table 3.23: Number of livestock keeping households reporting methods of ticks and tse tse flies control

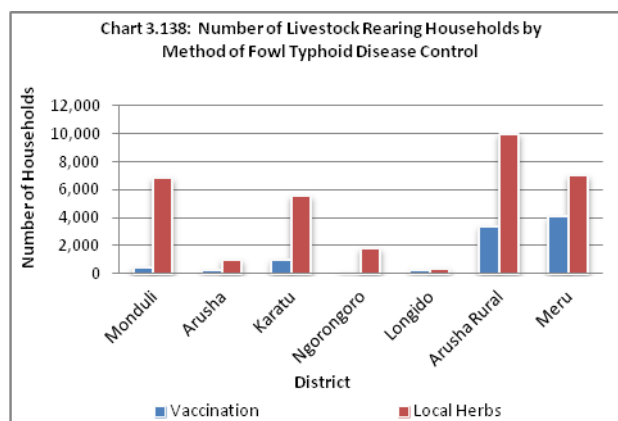
District	Dipping tse tse flies	Dipping ticks	Spraying tse tse flies	Spraying ticks	Trapping tse tse flies	Smearing ticks	None tse tse flies	None ticks	Other tse tse flies	Other ticks	Total HH
Monduli	2,715	3,358	14,502	20,718	714	500	7,501	2,286	1,572	143	27,004
Arusha	213	43	1,236	1,875	170	128	767	426	85	-	2,472
Karatu	802	1,248	10,427	16,665	1,069	1,069	16,754	11,318	1,426	178	30,478
Ngorongoro	1,279	3,481	7,745	20,463	1,492	426	15,134	2,771	1,989	497	27,639
Longido	433	1,502	1,994	7,916	347	318	8,234	1,416	202	58	11,210
Arusha Rural	1,194	2,269	15,527	26,515	2,628	3,703	23,410	10,630	358	-	43,117
Meru	2,562	2,562	15,861	27,330	1,220	1,098	21,596	13,787	3,660	122	44,899
Total	9,199	14,463	67,292	121,483	7,641	7,242	93,396	42,634	9,293	998	186,821

The most common method used to control tsetse flies in the region was spraying practiced by 36 percent of livestock-rearing households followed by dipping (5%) and trapping (4%). However, 50 percent of the livestock rearing households did not use any of the three mentioned methods. This was a very high percentage given the high prevalence of the problem in the region.



Newcastle disease was mostly controlled using local herbs (reported by 24%), and vaccination (16%). However, most (60 %) of the livestock keeping households in the region reported not to be using any control methods against Newcastle disease (Chart 3.137). This is an alarming figure taking into account the high incidence of disease in the region, whereby in some districts (e.g Arusha) the prevalence of the disease was reported by as high as 79 percent of the livestock keeping households.

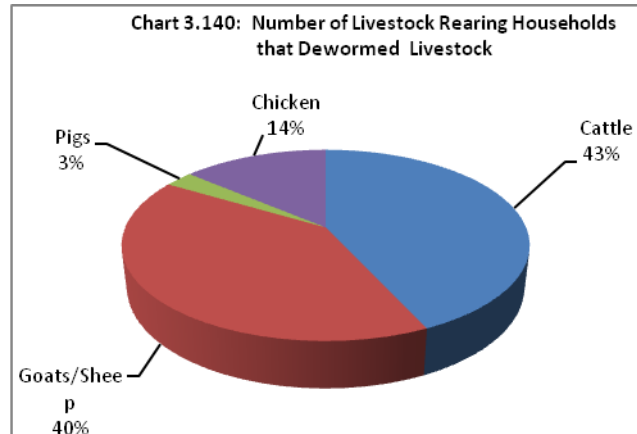
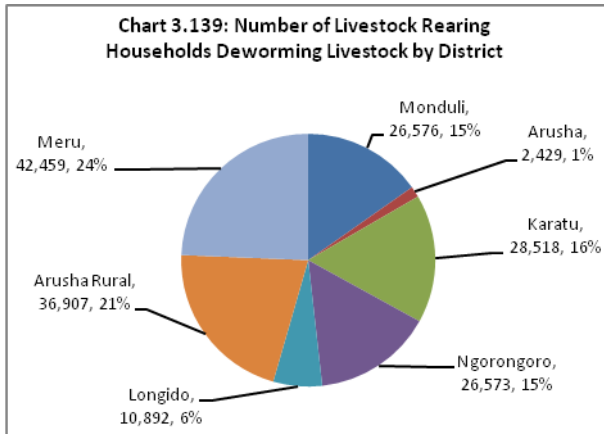
Local herbs was the most common method in controlling Fowl Typhoid (reported by 17 % of livestock keeping households, followed by vaccination reported by 5 percent of the livestock keeping households (Chart 3.138).



However, 78 percent of the livestock keeping households in Arusha did not use any control method against Lymph skin.

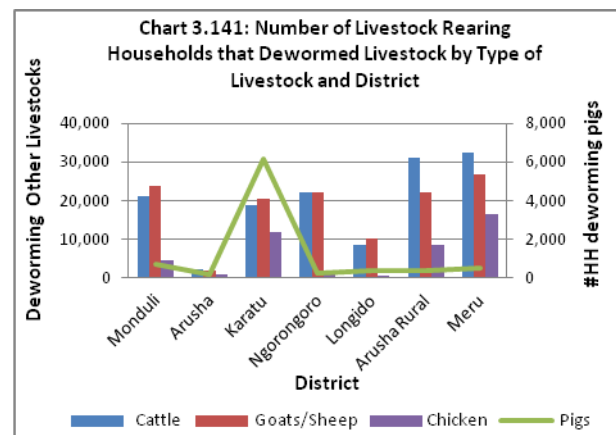
3.10.8 Deworming

Livestock rearing households that dewormed their animals were 174,354 (93% of the total livestock rearing households in the region). Meru was the leading district by having 24% of all households deworming livestock followed by Arusha Rural (21%), Karatu (16%), Monduli and Ngorongoro (15% each), Longido (6%) and Arusha (1%) (Chart 3.139).



The percentage of the households that dewormed cattle was 43 percent, sheep and goats (40%), chicken (14%) and pigs (3%) (Chart 3.140).

Meru district had the largest percentage (24.4%) of the agricultural households in the region deworming cattle closely followed by Arusha Rural (21.2%), Karatu (16.4%), Monduli and Ngorongoro each with (15.2%), Longido (6.2%) and Arusha (1.4%), (Chart 3.141).



3.11 Fish Farming

The number of households involved in fish farming in Arusha region was insignificant (122hh, representing 0.03 percent of the total agricultural households in the region). The little practice of fish farming in the region was reported in Meru district only and nothing was reported in the rest of the districts.

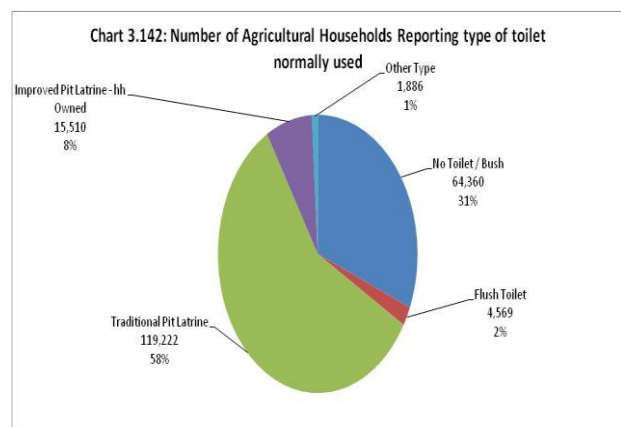
The common type of fish stocked in Meru district was Tilapia. The main source of fingerlings was NGO's and/or Projects. All the fish farming households in the region used the dug-out-pond system. There were 300 stocked fish. All the fish farming households in Arusha did not sell the fish they harvested.

3.12 Poverty Indicators

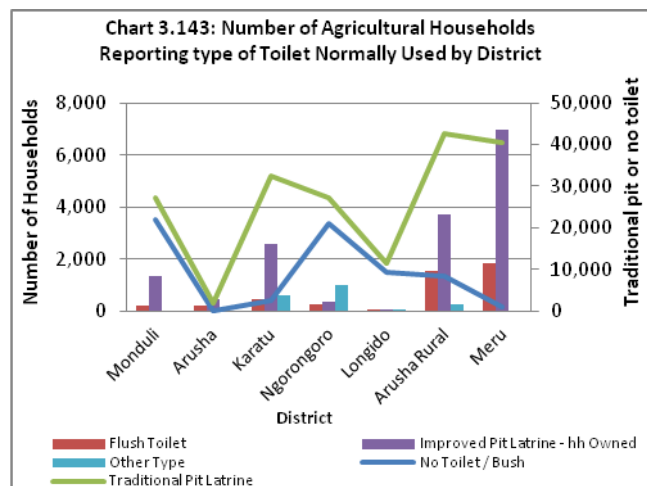
The agricultural census collected data on poverty for the purpose of providing a base for tracking progress in poverty reduction strategies undertaken by the government. The poverty indicators used in this part are access to infrastructure, toilet facilities, household assets, source of lighting and cooking energy, roofing material, access to drinking water, food consumption pattern, meat & fish consumption frequency, food security and main source of cash income.

3.12.1 Type of Toilets

A large number of rural agricultural households used traditional pit latrines (119,222 households, 58% of all rural agricultural households), 15,510 households (8%) used improved pit latrine and 4,569 households (2%) used flush toilets. The remaining 1,886 households (1%) use other toilet facilities. However, 64,360 households (31%) in the region had no toilet facilities (Chart 3.142).



Arusha region had a total of 141,187 households with toilets out of which Meru district had 34% of all households having toilets in the region followed by Arusha Rural (28%), Karatu (24%), Ngorongoro (5.4%), Monduli (5%), Arusha (1.8%) and Longido (1.7%). The distribution of the households without toilets within the region shows that 34.1 percent of them were in Monduli district, followed by Ngorongoro (32.9 %), Longido (14%), Arusha Rural (13%), Karatu (4%) and Meru (2%).



Arusha reported to have no household without toilet (Chart 3.143 and Map 3.36).

3.12.2 Household Assets

Most of the rural agricultural households (134,779hh, 65.6%) in Arusha region owned radios, followed by those who owned mobile phones (50.6%). Bicycle was the third most important asset owned by (31.6%), followed by pressing iron (31%), wheelbarrow (17.8%), vehicle 7.6%, television/video (6.2%) refrigerator (3.3%) and motor cycle (2.7%) (Chart 3.144, Table 3.24).

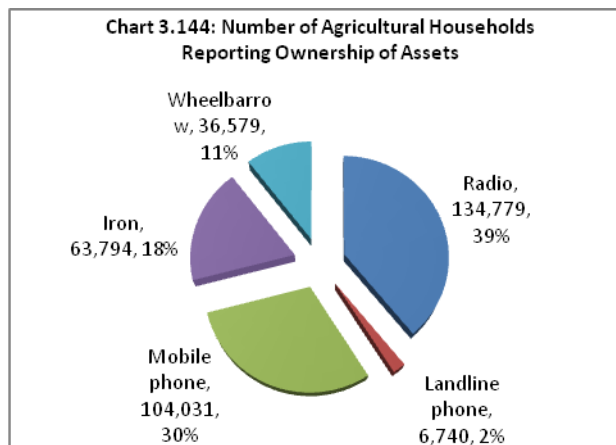
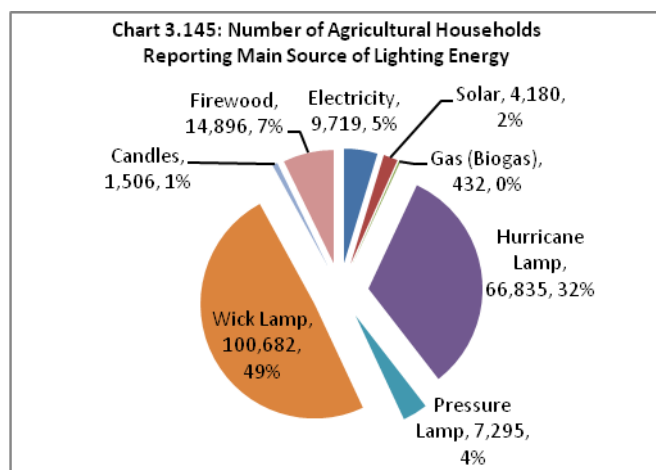


Table 3.24: Number of Agricultural Households reporting Ownership of Assets by District.

District	Radio	Land line phone	Mobile phone	Pressin g iron	Wheel barrow	Bicycle	Vehicle	Tele vision	Refrigerator	Motor Cycle
Monduli	15,860	786	12,002	3,501	1,357	6,144	2,286	357	143	429
Arusha	2,216	43	1,790	1,236	639	1,492	256	341	213	170
Karatu	22,101	1,337	18,091	9,803	3,386	16,041	3,832	267	178	802
Ngorongoro	12,576	497	12,008	2,771	1,350	2,203	568	0	213	71
Longido	5,316	116	3,814	780	722	1,762	318	202	58	376
Arusha Rural	35,593	2,986	24,604	19,349	13,019	16,721	5,016	4,658	3,225	2,508
Meru	41,117	976	31,722	26,354	16,105	20,498	3,294	6,955	2,806	1,220
Total	134,779	6,740	104,031	63,794	36,579	64,861	15,571	12,780	6,836	5,576

3.12.3 Sources of Lighting Energy

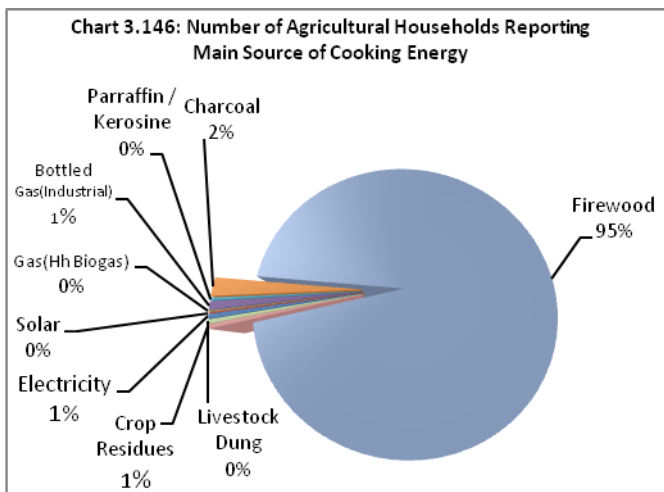
Wick lamp was the most common source of lighting energy in the region, used by 49 percent of the total rural households followed by hurricane lamp (32%), firewood (7%), mains electricity (4.7%), pressure lamp (3.5%), solar (2.0%), candle (0.7%), and gas or biogas (0.2%) (Chart 3.145).



3.12.4 Sources of Energy for Cooking

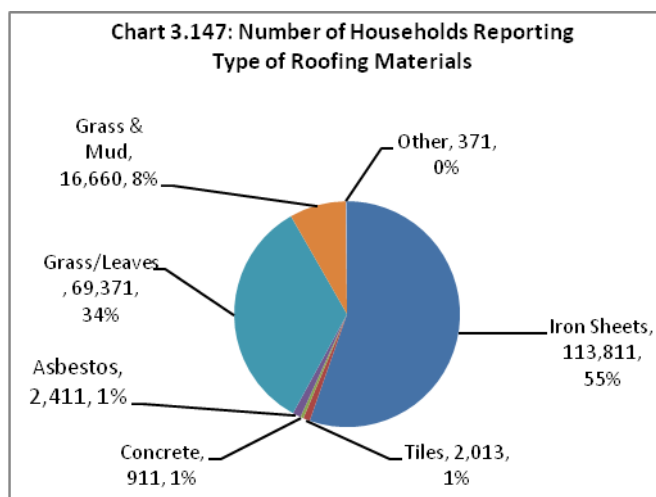
The most important source of energy for cooking was firewood, used by 95 percent of the total rural agricultural households in the region followed by charcoal (2.0%). The rest of energy sources accounted for 2.9 percent. (Chart 3.146).

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



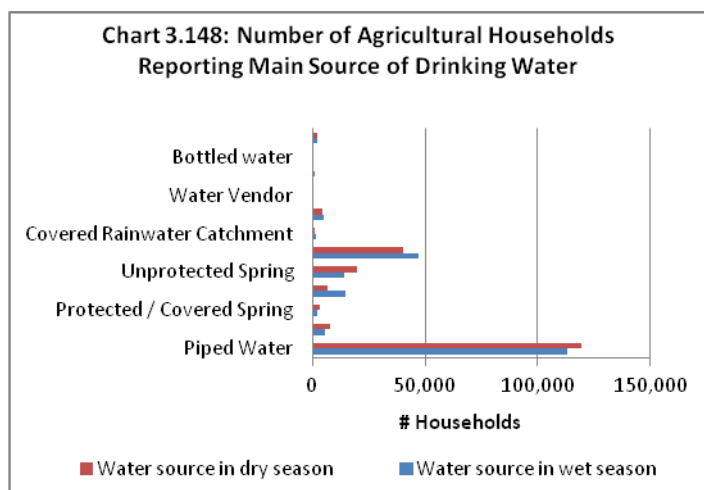
3.12.5 Roofing Materials

The most common material used for roofing of the main dwelling was iron sheet, used by 55.4 percent of the rural agricultural households. Grass/Leaves was the second main roofing material used by 33.7 percent, followed by grass/mud (8.1%), asbestos (1.2%), tiles (1%), concrete (0.4%) and others (0.1%) (Chart 3.87). Arusha district had the largest percentage of households with iron sheet roofing material (96.7%), followed by Arumeru (93.3%) Arusha Rural (72.5), Karatu (53.8%), Monduli (22.0%), Longido (14.1%), and Ngorongoro district (10.1%) (Chart 3.147 and Map 3.37).

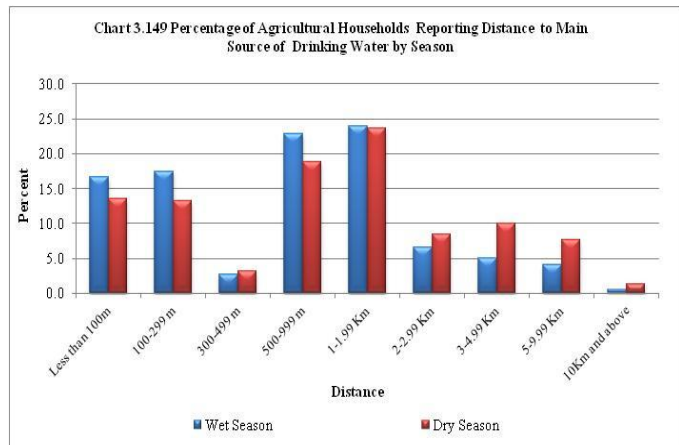


3.12.6 Access to Drinking Water

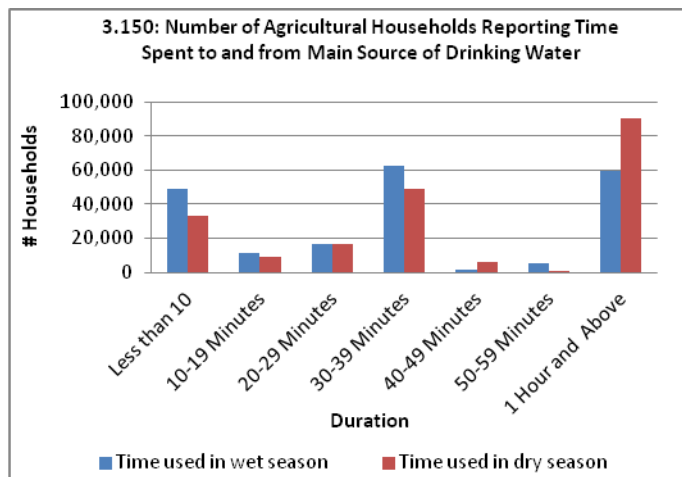
The main source of drinking water during the dry season for rural agricultural households in Arusha region was piped water (58 percent of households) followed by surface water (19.6%), unprotected spring (9.6% of households), protected well (3.9%), unprotected well (3.2%), uncovered rainwater catchment (2.1%), protected covered spring (1.71). Other sources were of minor importance each accounting for less than 1 percent of the households (Chart 3.148).

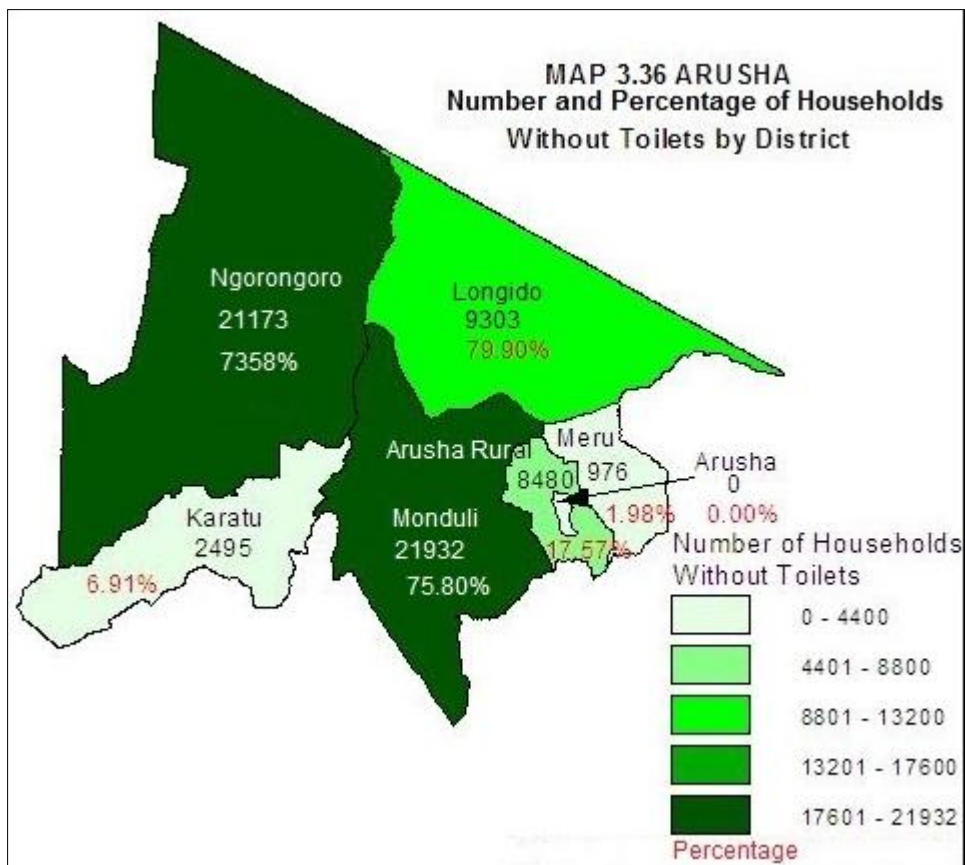
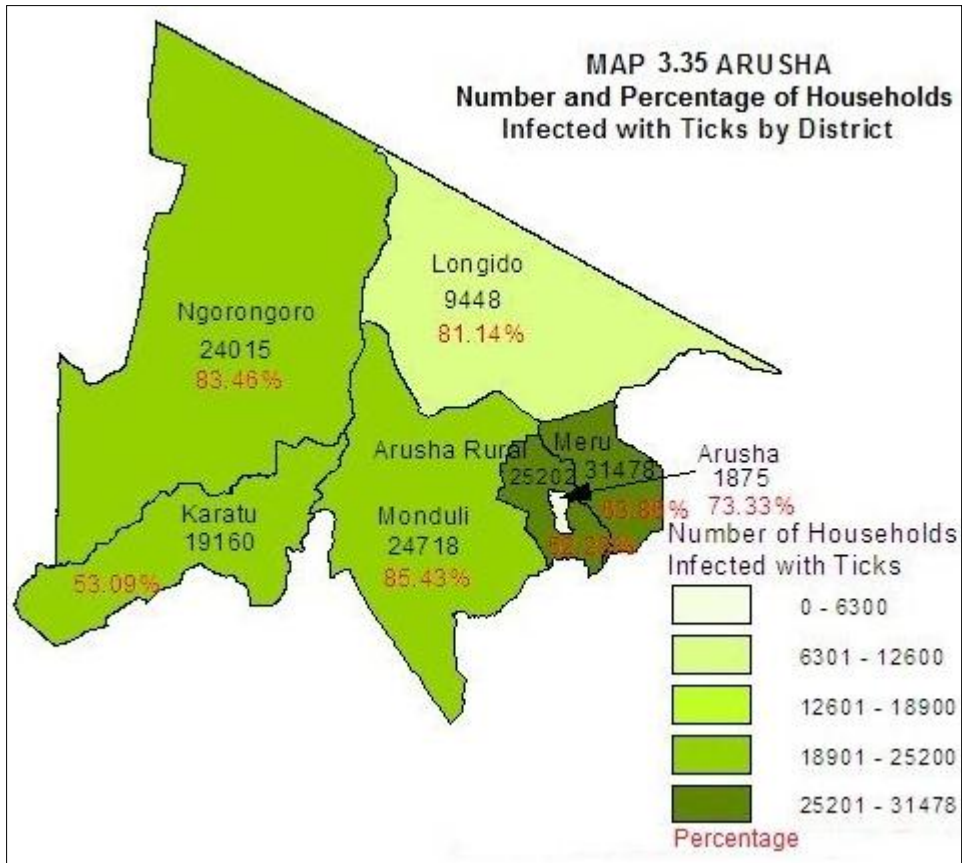


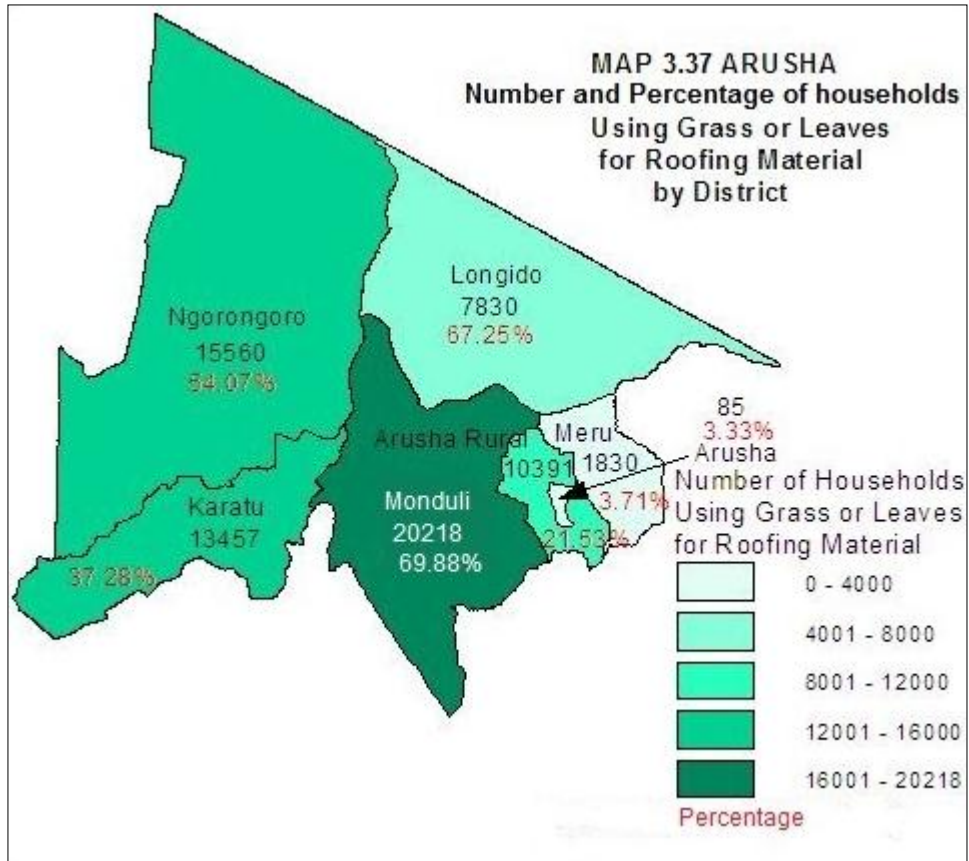
However, 24 percent of the agricultural households obtained drinking water from a distance of one or more kilometers during wet compared to 23.6 percent of households in the dry season. The most common distance from the source of drinking water was between 1 and 2 km followed by half a kilometer to 1 kilometer (Chart 3.149).



About 29% and 44% of agricultural households reporting spending one hour and above to and from the main source of drinking water in wet and dry seasons respectively. Also 24% and 16% of agricultural households reporting spending less than 10 minutes to and from the main source of drinking water in wet and dry seasons respectively (Chart 3.150).







3.12.7 Food Consumption Pattern

3.12.7.1 Number of Meals per Day

The majority (46%) of the households in region normally had 2 meals per day, followed by those getting 3 meals per day (47 percent) and 1 meal per day (5%). There were no households having more than 3 meals per day (Chart 3.151). Arusha Rural district had the largest percent age of households eating one meal per day (47.3%) whilst Arumeru district had the largest percent age of households eating 3 meals per day in the region (Table 3.25 and Map 3.40).

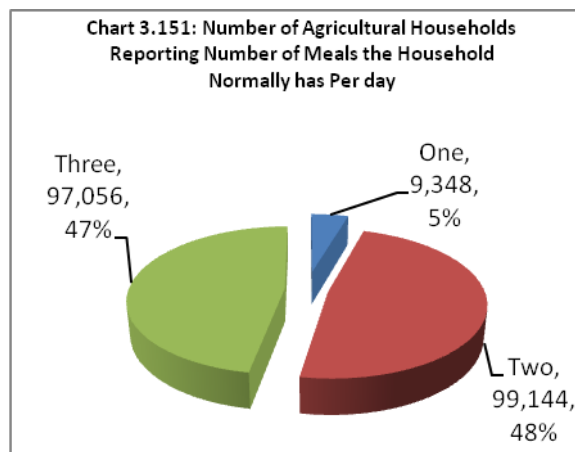
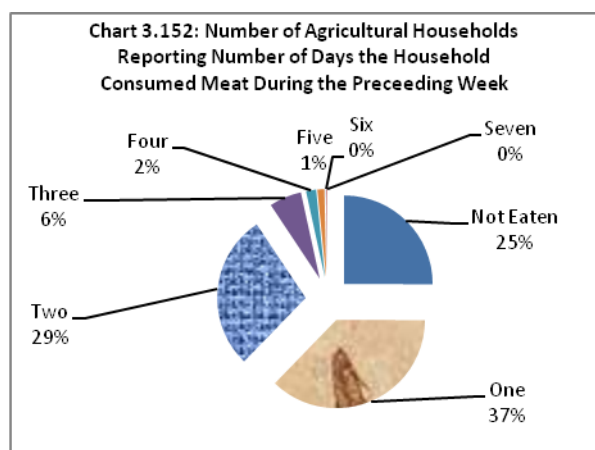


Table 3.7: Number and Percentage of Agricultural Households Reporting Number of meals the household normally has per day by District

District	One	%	Two	%	Three	%	Total
Monduli	1,572	16.8	16,431	16.6	10,930	11.3	28,933
Arusha	213	2.3	384	0.4	1,960	2.0	2,557
Karatu	446	4.8	15,774	15.9	19,873	20.5	36,093
Ngorongoro	213	2.3	19,255	19.4	9,308	9.6	28,776
Longido	1,387	14.8	4,305	4.3	5,952	6.1	11,644
Arusha Rural	4,419	47.3	20,424	20.6	23,410	24.1	48,253
Meru	1,098	11.7	22,572	22.8	25,622	26.4	49,292
Total	9,348	100	99,144	100.0	97,056	100.0	205,547
%	4.5		48.2		47.2		100.0

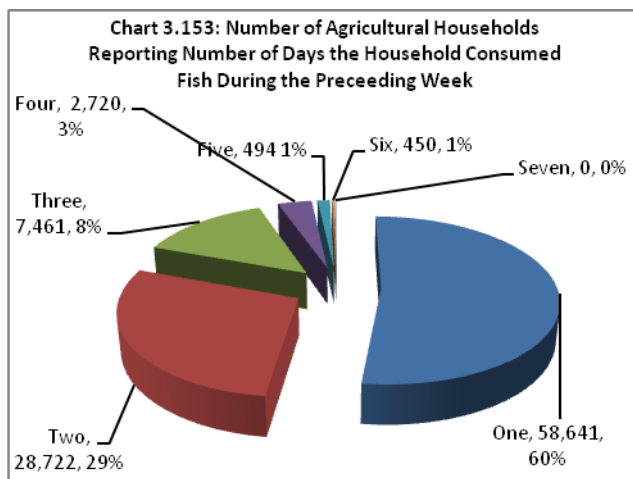
3.12.7.2 Meat Consumption Frequency

The number of agricultural households that consumed meat during the week preceding the census was 153,997 (75% of the agricultural households in Arusha region) with 76,390 households (37.2 % of those who consumed meat) consuming meat only once during the respective week followed by those who had meat twice during the week (28.4%). A relative few households (9.3%) had meat three or more times during the respective week. About 25.1 percent of the agricultural households in Arusha region did not eat meat during the week preceding the census (Chart 3.152 and Map 3.38).



3.12.7.3 Fish Consumption Frequencies

The number of agricultural households that consumed fish during the week preceding the census was 98,488 (48% of the total agricultural households in Arusha region) with 58,641 households (60 % of those who consumed fish) consuming fish once during the respective week followed by those who had fish twice (29%). About 52.1 percent of the agricultural households in Arusha region did not eat fish during the week preceding the census (Chart 3.153 and Map 3.39).



3.12.8 Household Members Main Activities

The main cash income activities of the household members in Arusha region was reported for on farm activities which included crop/seaweed farming, livestock keeping, livestock pastoralist, fishing and fish farming. The results show that out of a total 918,492 household members, sales of food crops was the main income source for 90,626 (44%) followed by sales of livestock (25%). Other sources were insignificant. (Chart 3.154 and Table 3.26)

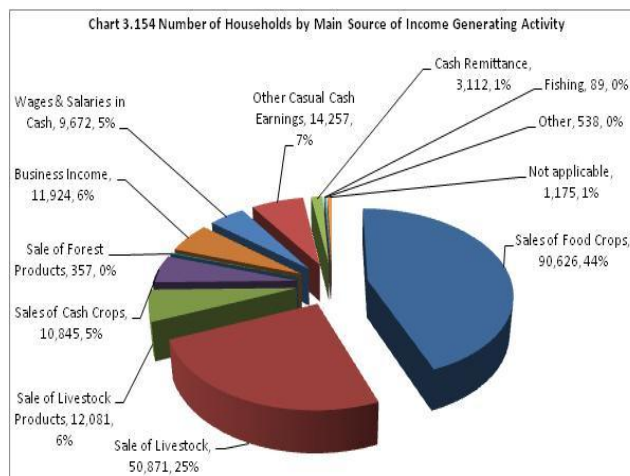
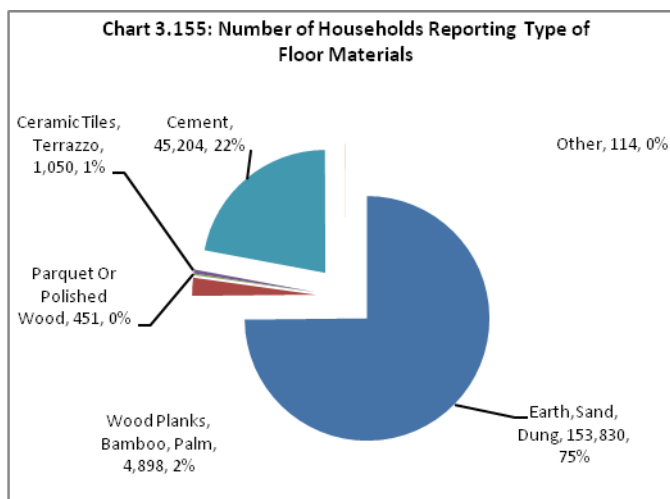


Table 3.8: Number of Household Members by Main Source of Income Generating Activity

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
Monduli	9,859	12,145	1,929	1,000	286	1,143	71	1,929	357	0	143	71	28,933
Arusha	1,747	128	85	0	0	213	170	170	43	0	0	0	2,557
Karatu	20,675	3,030	1,069	2,228	0	1,159	2,050	5,169	356	89	0	267	36,093
Ngorongoro	2,913	23,518	568	142	71	497	284	568	213	0	0	0	28,776
Longido	2,918	6,876	607	58	0	347	87	636	87	0	29	0	11,644
Arusha Rural	26,038	3,344	5,016	1,194	0	4,539	3,105	3,344	836	0	0	836	48,253
Meru	26,476	1,830	2,806	6,222	0	4,026	3,904	2,440	1,220	0	366	0	49,292
Total	90,626	50,871	12,081	10,845	357	11,924	9,672	14,257	3,112	89	538	1,175	205,547
%	44.1	24.7	5.9	5.3	0.2	5.8	4.7	6.9	1.5	0.0	0.3	0.6	100.0

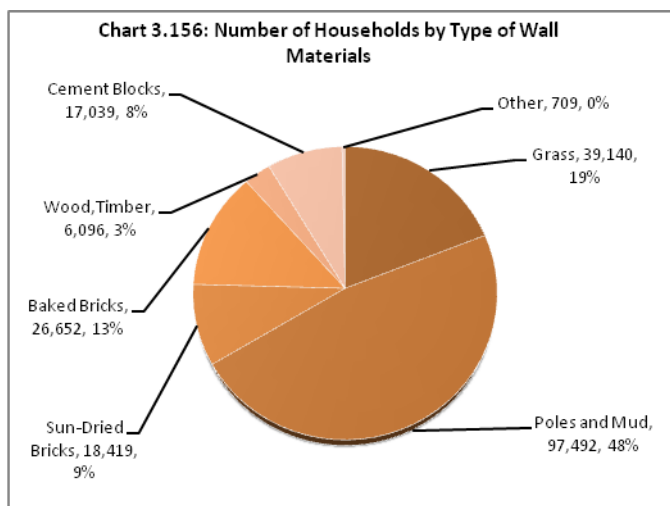
3.12.9 Type of floor

A total of 205,547 agricultural households in Arusha region reported to have used different types of floor materials. The most common floor material was earth, sand and dung used by 153,830 or 75% of the total agricultural households in the region followed by cement (22%), wood, planks, bamboo and palm (2%). Other floor materials like ceramic, tiles, terrazzo, perquent/polished wood were the least common used by a total of 1% of the agricultural households (Chart 3.155)



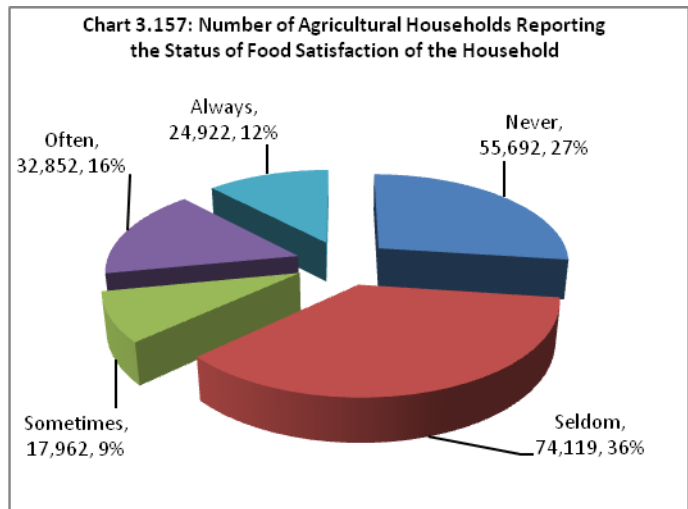
3.12.10 Type of wall material

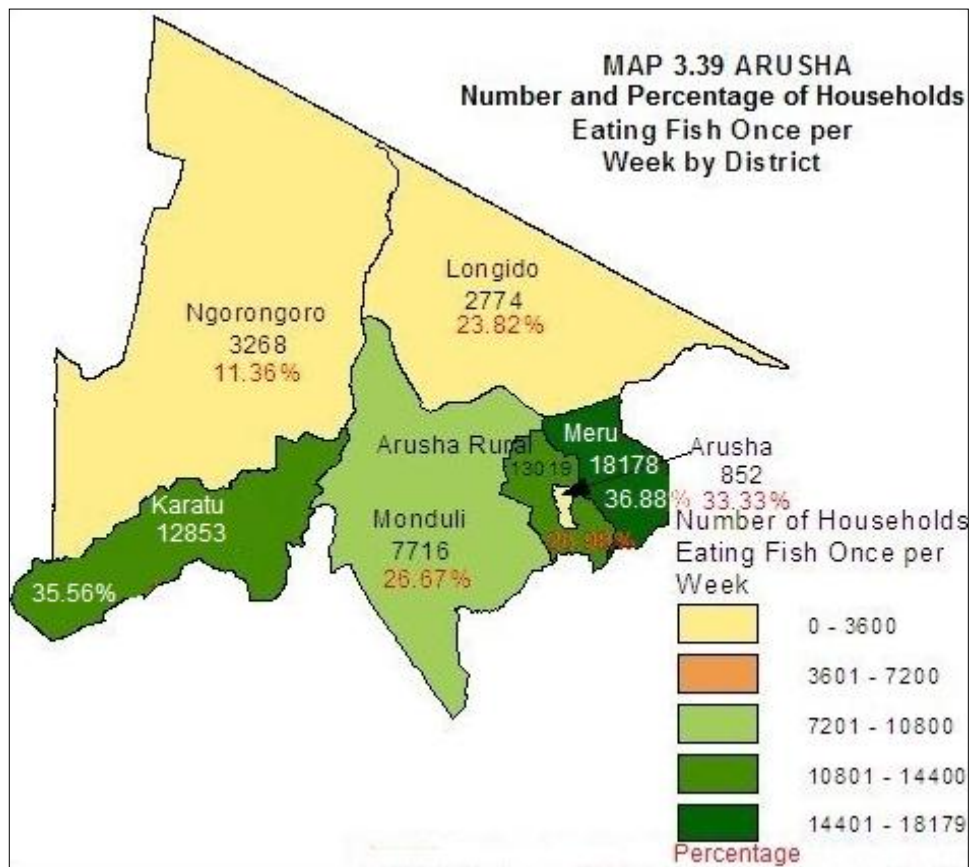
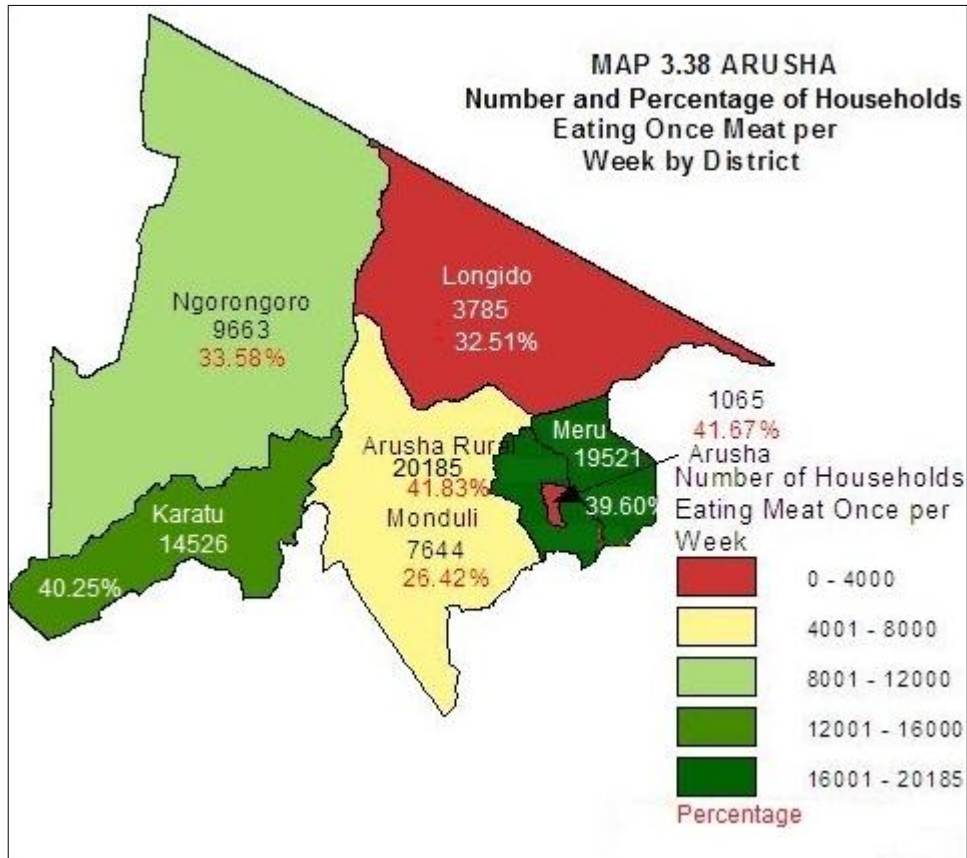
The most common wall material was poles and mud, used by 48% of the households. Other types were grass (19%), baked bricks (13%), sun dried bricks (9%), cement blocks (8%) and wood/timber (3%). Other materials were almost negligible. No stones were reported to be used in the region (Chart 3.156).

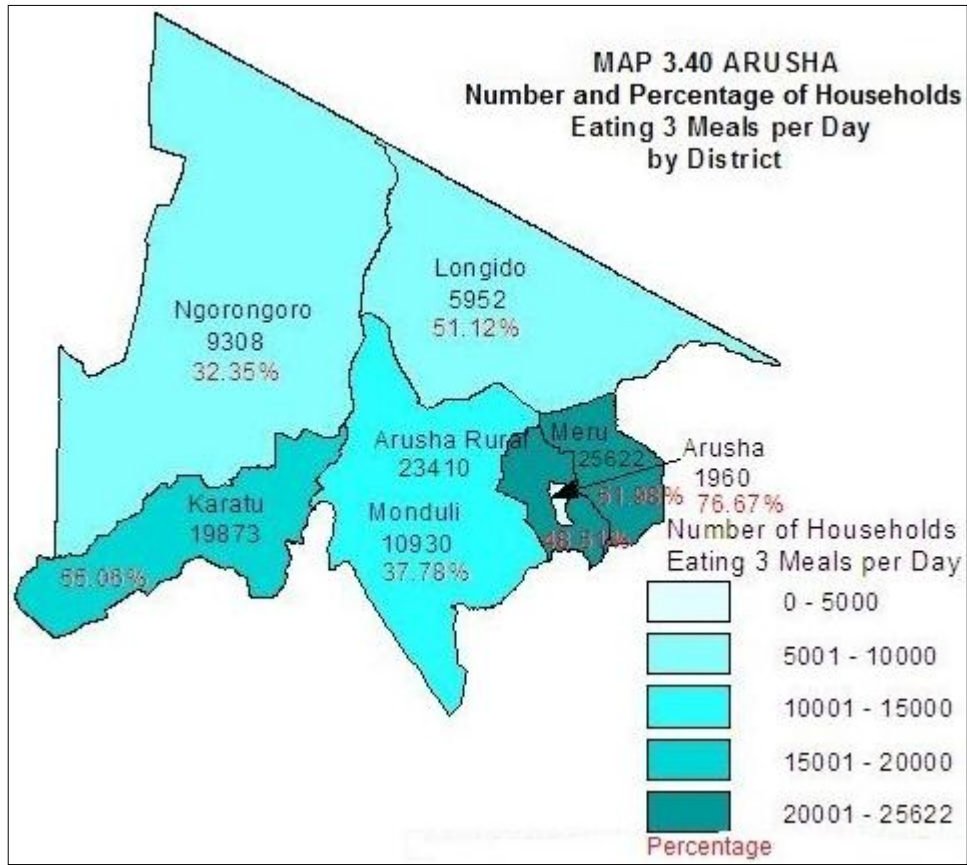


3.12.11 Status of Food Satisfaction

A total of 55,692 agricultural households (36%) reported to have seldom been satisfied. Others said they were never satisfied (27%), often satisfied (16%), always satisfied (12%), and sometimes satisfied (9%) (Chart 3.157)







4 ARUSHA PROFILES

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

4.1 Region Profile

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

The region has 205,547 agricultural households and the third smallest usable land area (279,221 ha), after Dar es Salaam and Arusha regions. The average land utilization rate of 93%. Two thirds (66%) of the households produce crops and also keep livestock. About 49% of the households report scarcity of land in the region. It is one of nine regions with households that are purely pastoralist.

Almost all land made available to smallholders is utilized. The region has short and long rainy seasons. The average planted area per household is 0.8 ha in the short rain season and 1.1 ha in the long rain season. Annual cropping is the most important, with the greatest proportion of the land planted with temporary mixed crops followed by temporary mono crops. However a limited level of perennial crops all planted as a mixture with annuals is also prevalent.

Arusha has one of the smallest planted areas of maize and paddy but one of a handful of regions where wheat and barley are produced. But the region is ranked low in the production of sweet potatoes and groundnut. The region is ranked seventh in the area planted with beans and is an important region in vegetable production and has the third largest, after Singida and Mbeya, area planted with onion; the fourth largest area planted with cabbage and the seventh largest area planted with tomato.

A relatively small area is planted with permanent crops in the region mostly pigeon pea, coffee and banana and sugarcane. Improved seed is used for planting in both rain seasons in the region though the land area planted with such seed in the long rain season is twice as big as in the short rain season. The region is ranked seventh and eighth in the use of improved seed during short and long rain seasons, respectively.

Arusha region has the second smallest total area, after Kilimanjaro, applied with fertilizers with small differences in the area applied with either organic or inorganic fertilizer. The use of pesticides on permanent crops was rather limited compared to other regions though all major

pesticides; insecticides, fungicides and herbicides were used. The region has the fifth largest planted area under irrigation and the majority of households depend on the river to source water followed by tap water. The most common method of obtaining water is by gravity

Extension services reached 80% of the target households in the region and all households stored crops particularly maize. Stored crops were secured in traditional structures and or manila bags and about 25% of the households participating in the sale of food crops.

Land preparation and other farm operations is mostly by hand-operated tools with limited use of drought animals and power tillers. Soil erosion is not widespread in the region hence soil erosion control structures are limited.

4.2 District Profiles

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

4.2.1 Monduli

Monduli district had the fourth largest number of agricultural households (28,933, 14%) in the region. Most of the smallholders were involved in crops and livestock production (73%). The most important livelihood activity for the households in the district was Annual crop of farming 61%, followed livestock keeping or herding 19%. It had a moderate literacy rate of 61% among its household members reflected by the concomitant relatively high level of school attendance in the district. The average literacy rate for the heads of household was 53 percent.

The utilized land area per household was is more or less the same with those in other areas, as there was almost no variations in land area utilised per household across the districts. The allocated land area was almost fully utilised indicating a high level of land pressure. Monduli had the largest total planted area (average of two seasons) in the region due to the presence of good wet and dry seasons, however it also had the largest planted area per household (3.2ha).

The district had the second largest planted area with maize (29,335 ha,24% of the total area) in the region. Monduli was also the leading district in paddy production with a planted area of 405 hectares; however it had the smallest paddy planted area per household.

The district was the largest producer of wheat (29,793 tonnes). The production of roots and tubers notably cassava, Irish potatoes and sweet potatoes, which were produced in other districts were not produced in Monduli. The production of beans was among the highest in the region with a planted area of 12,510 hectares. Oil seed crops were not important in Monduli and only simsim was grown in the district. Vegetable production was only on radish (7ha), onion (14 ha), cabbage (22 ha), tomato (29 ha), spinach(10 ha), and carrot(12 ha).

Compared to other districts in the region, Monduli had a moderate planted area with permanent crops, dominated by banana (540 ha,61% of planted area) ,followed by pigeon peas (150ha, 17%) and avocado (54 ha,6% of the total planted area with permanent crops). Other permanent crops grown in very small quantities. As with other districts, most were of the land clearing and preparation was done by sword and hand hole, however there were some other equipment in agricultural operations such as ox plough, grater, chipper, oil Press and oil Mill, and ox planter.

Monduli had the fourth largest planted area (7,938 ha, 13%) with improved seeds in Arusha region. The district has the third largest planted area with fertilizers (8%) (both organic and inorganic); most of it was organic fertilizer. Compared to other districts in the region, Monduli district had the fifth highest percentage (16%) in the use of insecticides. A total of 3,345hh (14%) used fungicides. Virtually, small amount of herbicide was used. It had 2,344ha planted with irrigation equivalent to 9.8 percent of the total irrigated land in the region, with gravity as the main source of irrigation water from rivers used by 14% of the households.

The most common method of crop storage was the sacks/ open drums; however the proportion of households storing crops in the district was the sixth largest (86%) in the region. The district had the fourth largest number of households (15,074hh) selling crops, however for those which did not sell, the main reason for not selling was insufficient production. Monduli had the second largest number of households (714hh) receiving agricultural credit. It was one of the two districts where both male and female headed households had equal access (50%) to agricultural credit. The main source for agricultural credits in the district was the bank used by 30% of the households with regards to access to crop extension services, Monduli had the fifth highest proportion (77%) of its households receiving extension services and most of it 97% was from the government.

Monduli had the second largest proportion of households with erosion control and water harvesting structures (27% of its agricultural households) which were mostly erosion control bands gabions/sandbags and terraces. It had the largest number of water harvesting bunds (5,072) as well as number of gabions/sandbags (7,644), but had the second smallest number of terraces (4,787). The district had the second largest number of cattle (440,145, 24.3%) in the region and most of them were indigenous (99.5%). It also has the second largest number of goats (24%) and sheep (22%) in the region. However, it had the third largest number of pigs (9%) and the fourth with largest number of chicken (14%).

Monduli had the largest proportion of households (92%) reporting Tick problem and 72 % reporting tsetse problem and had the largest proportion of (98%) of households deworming livestock. The district was among the districts with no fish farming. Monduli district had the highest proportion (76%) of households with no toilet facilities and it has the third highest proportion (21%) of households owning bicycles, fourth with mobile phones (41%), vehicles (8%), and TV/video (1%). It had the fourth highest number (214) of households using mains electricity in the region. The most common source of energy for lighting was the wick lamp used by 75% of all households and firewood was the most common energy for cooking. About 70% of the households used grass/leaves as roofing material followed by iron sheets (22%).

The most common source of drinking water was from the surface water used by 59% of the households. It had moderate percentages of households having two (57%) or three (38%) meals per day. About 29% of the households seldom had problems with food satisfaction.

4.2.2 Arumeru

Arumeru district has the largest number of agricultural households (49,292hh, 24% in the region) and it had the second highest proportion of households involved in smallholder agriculture (95%) in the region. Most of the smallholders (77%) were involved in crop and livestock keeping/herding.

Arumeru had the highest literacy rate (89%) among its smallholder members reflected by the district having high level of school attendance in the district. However, the literacy rate for the heads of household was the highest (86%) with male heads (91%) and female heads (46%) in the region. The utilized land area per household in Arumeru was more or less the same with those in other district, as there was almost no variations in land area utilised per household. The district has

the second largest planted area (47,355ha, 24%) in the region, and the second largest planted area per household (1ha).

The district was very important for maize production in the region with the largest planted area of 32,830 ha or 26% of the total planted area with maize in the region; giving 0.7ha per households. The district had the second largest planted area of paddy in the region with 272 hectares (31%). However, it has the lowest area (435ha) planted with other serials (sorghum and finger millet). As for the production of roots and tubers, the district had the largest planted area with cassava(387ha, 82%), and second largest area in Irish potatoes by (74ha,5.4%) of the total land planted with Irish potatoes in the region.

The area planted with beans was the third largest (9,819ha,19.4%) with an average planted area of 03 hectares per agricultural household. Sunflower was mostly grown in Arumeru on 1,648ha (74.3%) of the total area planted with sunflower in the region. Vegetable production was also important in the district tomatoes occupying 935ha or 69 percent of the total tomato planted area in the region, and cabbage (13 percent of the cabbage planted area). There was no onion production in the district. Arumeru was one of the two districts where traditional cash crops (e.g. tobacco) were grown in largest quantities, and having the largest tobacco planted area in the district (92.5%).

Compared to other districts in the region, Arumeru had the largest planted area (14,031ha, 61.5%) with permanent crops in the region Banana was the leading with 5,989ha(43%) of the total banana area in the district followed by coffee(4,924ha, 35%) and pigeon peas(1,339ha,10%) were grown in very small quantities. As with other districts in the region, most of the land clearing and preparation was done by sword followed by hand hole. However, there were some other equipment in agricultural operations such as ox plough, grater, chipper, oil Press and ox planter .

Arumeru had the third highest proportion of households using improved seeds (44.3 % of the total planted area in the district). The district had the highest percentage of planted area with fertilizers (43%) (both organic and inorganic fertilizer) during the long rainy season; however most of it was organic.

Arumeru district had the largest number of households with insecticide use (35% of total households which applied insecticide in the region. The district had a proportion of 10% in the

application of herbicide and 34% in the application of fungicides. The most common source of water for irrigation was from rivers used by 74% of the households using gravity. Other common means of irrigation water application were insignificant. The most common method of crop storage in Arumeru district was in sacks/open drum used by 45,265 households; however the district had the second highest number of agricultural households which stored crops in the region.

Arumeru district had the highest proportion of households (71%) which sold crops, however, for those which did not sell, the main reason for not selling was insufficient production. Access to credit in the district was equal to men(50%) and women(50%) and the main source was the commercial banks (30%). Others were family friends and relatives (20%), savings and credit societies (15%), private individuals (8%) and cooperatives (4%)

A comparatively large proportion of households (80%) received crop extension services in Arumeru district and most of them (95%) were from the government. The district had the fourth highest proportion (15%) of households with erosion control and water harvesting structures, which were mostly terraces, gabions and erosion control bunds. The district had a moderate number of cattle (116,031heads,6.4%) in the region and most of them (72%) were indigenous. Goats were 162,516 (9%), sheep were 90,531 (6%) and pigs were 732, (3%). It had the largest number of pigs in the region and the highest number of chicken (388,478, or 41%). Some ducks, Guinea Pigs, Turkeys, rabbits and donkeys were also kept in the district. The number of households reporting tsetse problem were 25,988 or 58% of the district households and tick problem is highest in Arumeru district and it had fifth largest proportion(95%) of households deworming livestock.

Fishing was not practiced in the district, but was the only district with agricultural households which reported fish farming in the region. The proportion of households without toilet facility in Arumeru district was 2 percent and it was among the districts with the highest proportion of households owning radio (83%), wheel barrows (33%), vehicles (7%), bicycles (42%), TV/video (14%) and mobile phones (64%). It has the largest number of households(5,368) using mains electricity in the region. The most common source of energy for lighting is the hurricane lamp used by and practically all households use firewood for cooking. The roofing material for most of the households in the district was iron sheets used by45,998hh (93%). The most common source of drinking water was from the tape water used by 68% of the households. It was one of the districts with the highest percentage (52%)of households having three meals per day. The district

had the 37 percent of its households that had meat once during the week prior to enumeration and 20 percent of the households had not eaten fish during the week prior to enumeration, however, most households never had problems with food satisfaction.

4.2.3 Arusha

Arusha district had the smallest number of agricultural households (2,557hh, 1.2%) in the region. Most of the smallholders(93%) in the district were involved in crops and livestock keeping.

Annual crop farming was ranked as the most important activity that provides most (31%) of livelihood/cash income to the agricultural households in the district followed by livestock keeping/herding (9%). Arusha had the second highest literacy rate (82%) among its smallholder household members and 87% among the male heads and 57% among the female of household.

As for land utilization, the district had a relatively low utilized land area per household as well as planted area per household.

Arusha district had the smallest production of cereal crops notably maize which had a planted area 2, 700 hectares. Other cereals produced in the district were either insignificant or not produced. Also, the district was lowest producer of roots and tubers mainly cassava which account for 2.2 percent (10ha) of the total production of the crop in the region. However, the district had the second highest yield (1.7t/ha) of the crop. Sweet potatoes was another crop under roots and tubers grown in the district with a yield of only 1t/hectare.

As for pulses production, the district had a small area planted with beans (1,959ha) accounting for 3.9 percent of the total area planted with beans and average of 0.64 hectares per bean growing household. The only oilseed crop in the district was simsim planted on 17 hectares with a production of 12 tonnes and a yield of 0.7 tonnes per hectares.

The district also performed poorly in the production of all types of fruits and vegetables except spinach, which had a planted area of only 78 hectares representing 26 percent of the total area planted with fruits and vegetables in the district followed by onion with 43 hectares which represented 14 percent.

The production of other annual crops such as cotton or tobacco was not reported in the district. Arusha had the third lowest planted are with perennial crop of only 477 hectares, with 0.43ha planted area of perennial crop per perennial crop growing household.

Banana dominated the production of permanent crops in the district with a planted area of 132 ha, accounting for 1.5% of the total area planted with banana in the region. The production of other permanent crops was insignificant in the district.

Hand hole and sword were the most important equipment in land clearing and preparation, used by 51% of the household in the district. Tractor plough, castrated bulls, tractor and ox cart were common tools for soil preparation in the district.

The district had the highest proportion (53.7%) of planted area with improved seeds in the region. The use of organic fertilizers was higher than the use of inorganic fertilizers. In terms of pesticide use, the district had the lowest proportion (2%) of insecticide use.

Arusha district had the smallest number of households (3,282) reported to have been storing crops with sacks and open drums as the most common method of crop storage. The number of households selling crops was 2,387 (64% of the total crop producing households in the district) and those which did not sell crops attributed this to low price for agricultural produce, high transport costs, long distances to the markets, lack of transport, cooperative problems, and lack of buyers.

Arusha had the fifth largest number of households(298) receiving agricultural credit in the region, and the largest proportion of household members receiving agricultural credit in the district were females 71.4%. Commercial banks, family, friends and relatives, savings and credit societies in that order were the main sources of agricultural credit in the district. Those who did not use agricultural credit attributed this to little credit awareness.

The district had the second largest proportion of households receiving extension services in the region accounting for 85 percent of the crop growing households. The Government provided the greatest proportion of extension services, followed by large scale farms and neighbor. Other sources were not very important. The district had the second highest proportion of households with soil erosion control and water harvesting facilities accounting for 23.3 percent of the total number of those using the facilities in the region. Of the erosion control and water harvesting facilities, gabion sandbags were dominant in the district followed by erosion control, vertiver grass, tree belts, and drainage ditches.

The district kept the smallest number of cattle (22,375 heads, 1.2%), most of which were indigenous (84%). It also had the smallest number of goats (24,080 heads, 1.3%) all of them were indigenous. Had the smallest number of sheep (15,002 heads, 1.1%), second largest number of pigs (4,390 heads, 16%), and smallest number of chicken (18,284, 2%). Almost all sheep and chicken reared in the district were indigenous breeds.

The district also kept donkeys, dogs, and rabbits however, all these animals were in very small numbers compared to other districts.

The district reported relatively high incidences of tick (76% of the households), tsetse (53%), Newcastle Diseases (82%), and Fowl Typhoid Disease (40%), Foot and Mouth Disease (21%) and Lymphskin Disease (19%). Spraying and dipping were the most common tick and tsetse control methods while vaccination and local herbs were the most common in controlling the remaining types of livestock diseases

The district reported to have accessed the second smallest proportion (60%) livestock extension services, most of which being provided by the government (82%), large scale farmers (38%) and neighbours (32%). Deworming of livestock was practiced in the district.

Arusha district had all its households (100%) with toilets facilities, the largest number of households (1,875 hh, 73%) using traditional pit latrine, followed by improved pit latrine, (469 hh, 18%).

As is the case with other districts, asset ownership in the district indicates that 87% of the households owned radios and music systems, followed by mobile phones (70%) bicycles (58%), pressing iron (48%), wheelbarrows (25%), television/video (13%), vehicles (10%), refrigerators (8%) and motor cycles (7%).

The main source of energy for cooking in the district was firewood, followed by charcoal, crop residuals and solar power, while the main source of lighting energy was the hurricane lamp, followed by wick lamp, solar, firewood and main electricity. Corrugated iron sheets were used by most of the agricultural households as roofing material (97%).

Piped water was the main source of drinking water used by 62% of the agricultural households in the district. The district had the largest proportion of households having three, meals per day followed by two meals per day (15%) and one meal per day. The district had 42% of its households consuming meat once during the week prior to enumeration, while 33% consumed fish once during the same period. About 63 percentage of the households had never experienced any food shortage followed by those which seldom had food shortage (13%), those which sometimes had food shortage (8%) and those which always had food shortage (2%)

4.2.4 Karatu

Karatu district had the third largest number of households (36,093hh, 18%) in the region. It also had the fifth largest proportion of households (22,190hh, 62%) in the region involved in crops and livestock farming, the largest proportion of households involved in crops only(32%), and the fourth largest proportion of households involved in livestock farming only (6%).

The most important livelihood activity for smallholder households in the district was annual crop farming; followed by livestock keeping/herding and fishing. Fish farming and livestock pastoralist were not practiced in the district.

The literacy rate among the smallholder members was 79 percent, the fourth highest in the region. Compared to other districts in the region, the district had the fourth highest literacy rate for the male heads of household (75%) and the second highest literacy rate for female heads of households (53%).

It had a utilized land area per household (1.0 ha), and had the third largest percentage of the allocated area being utilized 93%).

The district had the moderate planted area (23,277ha,) with cereals with maize being the most dominant cereal crop in the district. Maize was planted on 21,162 ha 991% of the district cereal production). With a planted area of 1057 hectares was second important in terms of planted area with cereal crops in the region. However, the district had the largest planted area of other cereal crops amounting to 1,058 hectares. It had the largest planted area (216ha) of sweet potatoes equivalent for 49 percent of the total planted area with sweet potatoes in the region (441 ha). Other roots and tuber crops were not grown in the district. Beans dominated the production of pulse crops in the district accounting for 88% (4,517ha) of the planted area (5,104ha) with pulse crops in the district. Sunflower was the only oil seeds and oil nuts crop grown on 429ha in the district. Onion and spinach were the only fruits and vegetable crops grown in the district on 577ha and 6ha

respectively. The area planted with onion was 77% of the total onion planted area in the region. Cotton and tobacco were not grown in the district

Compared to other districts in the region, Karatu had the third largest area planted with permanent crops (3,526ha, 15.5%) dominated by pigeon peas and banana although both of them were produced in very small quantities.

Sword and hand hoe were the common tools for land clearing, while ox cart, tractor and tractor plough were most important tools for soil preparation. Karatu had moderate proportion of area planted with local seeds and second lowest proportion of area planted with improved seed in Arusha region. The district had a higher application of organic fertilizer than inorganic fertiliser. It also applied insecticides, herbicides and fungicides. It had a total of 1,637ha irrigation, accounting for only 7 percent of the total irrigated land area in the region. The main source of irrigated water was the wells; and the main methods of drawing water for irrigation being gravity and hand bucket.

Karatu ranked third in having the largest number of agricultural households (33,241hh,19%) reported storing crops in the region. The most common method of crop storage in the district was the sacks/open drums and traditional structures. The district had 60% of its households which sold crops. However, for those which did not sell, the main marketing problem was low price of agricultural produce. The district had 2% of its households which accessed agricultural credit, with males having a higher proportion (75 percent of those which received agricultural credit than females who accounted for 25 percent. Those who did not receive agricultural credit attributed this to little awareness of the credit.

About 78% of the agricultural households in the district received extension services most of which (87%) was from the government.

Very small percentage of its agricultural households practiced irrigation and 28 percent had erosion problem. The most common soil erosion control and water harvesting facility erosion control bunds used by 54% of the households followed by, terraces (35%), water harvesting bunds(12%), gabions/sandbags(12%), tree belts(10%) and drainage ditches(9%).

The district had a total of 153,283 heads of cattle (8% of the total cattle in the region) raised by 20,319 (56%) cattle rearing households. Had a total of 174,582 heads of goat or 10% of the total goats in the region kept by 20,230 households or 16% of the total goats rearing households in the region. Had a total of 87,692 (6%) sheep, 17,913 (65%) pigs, and 154,976 (16%) chicken. Ducks, dogs, donkeys and rabbits dominated the production other livestock in the district. The district had incidences of tick, tsetse, Lyme Disease, Newcastle Disease, Fowl Typhoid Disease, and Foot and Mouth Disease. Spraying and dipping were the common control methods for ticks and tsetse flies, while local herbs and vaccination were most popular control methods for other livestock diseases in the district. About 94% of the livestock keeping households de-wormed their livestock.

Karatu district had the second lowest percentage of households with no toilet facilities (4%), and was the third highest percentage of households with improved pit latrines. As for property ownership, music system, mobile phones, bicycles, pressing iron, vehicle, wheelbarrow, and landlines in that order were the most important assets in the district.

A total of 2,495 households (4%) had the most common toilets facility was the traditional pit latrine used by 7% of the district agricultural households. As for property ownership, 61% of the households owned radios, 5% owned mobile phones, 44% owned bicycles, 27% pressing iron. Other assets, each had less than 10% ownership.

The district had 54% of its households by iron sheets followed by grass/leaves (37%). The main sources of drinking water were piped water, surface water (lakes, dams/rivers) (12%), unprotected springs (8%), protected and unprotected wells (6%). Most of the (55%) had three meals per day followed by those which had two meals per day (44%). The district had 51% its households that seldom faced food shortage, 19% never had food shortage, 16% often had food shortage, 11% always had food shortage and only 4% sometimes had food shortage.

4.2.5 Ngorongoro

Ngorongoro district had the fifth smallest number of agricultural households (28,766 hh, 14%) in the region. Most smallholders were involved in livestock farming only, followed by crops and livestock keeping/herding (33%), crop farming (5%), and pastoralist (1%). No households were reported to be involved in fishing and fish farming activities.

Ngorongoro was the only district where livestock keeping/herding was the leading livelihood activity for smallholder households in the region, this means the the district was predominantly comprised of livestock herders. The district had a lowest literacy rate of 54% among its smallholder members (54.4%) and a literacy rate of 50% among its male heads of households literacy rate among the female heads of household was 18 percent.

The district had a relatively small usable area available, with a 1.0 hectare usable area per household and a planted area of 0.9 hectares per household. The area planted with annual crops during the two seasons was 15,033 hectares or 7.5 % of the total planted area in the region.

Maize production dominated the production of cereal crops in the district, planted on 9,498ha or 91% of the total planted area with cereal crop in the district by 10,658 households giving 0.9ha of planted area by 1492 households

Beans dominated the production of pulse crops in the district planted by 6,679 households or 99% of the total households which grew pulses in the district. The total planted area with beans was 4,290ha or 99% of the total area grown with pulses resulting into 0.6 hectares per households of the planted area the district.

Sweet potato was the major roots and tuber crop in Ngorongoro district, planted by 284 households or 67% of the total households which grew roots and tuber crops in the district, planted on 86ha (81% of the roots and tuber crops planted area).

Production of fruits and vegetables were not important in Ngorongoro district. The total planted area with fruits and vegetables was only 86ha planted by a total of 711 households.

The production of permanent crops was very small in the district, with only 84ha and involving 213 households. Banana and pawpaw were the only permanent crops grown in the district.

Hand hole and sword were the most used instrument in land clearing in the district. Tractor castrated bulls and ox cart were the most common methods for soil preparation. Other methods were least important.

Ngorongoro had the smallest area 640ha planted with improved seeds during the short rainy season. Though the proportion of planted area with improved seeds was 28% during the short rainy season and 27% during long rainy season. The use of fertilizer in Ngorongoro district, both

organic and inorganic fertilizers, was the lowest compared to other districts. The district had small planted area with fungicides and herbicides; however the district had the highest proportion of both pesticides in the region at 45 percent for fungicides and 56 percent for herbicides.

The number of agricultural households which practiced irrigation was 853 equivalent to 3 percent of the total district households. Rivers were the sole source of irrigation water; other sources were minor. Gravity was the only method of drawing water for irrigation in the district.

The district had a small number of the households (10,515hh, 6% of the total regional households) which stored crops with locally made traditional structures and sacks and open drums as the most common method of crop storage in the district. About 66% of the crops growing households in the district sold crops. Those which did not sell crops attributed this problem to low market prices, long distance to the market and lack of market information. The district had small percentage (2%) than females (11%) receiving agricultural credit. Commercial banks and family and friends were the main providers of agricultural credit in the district. Those who did not use agricultural credits attributed this problem to inadequate knowledge about credits, unavailability of the credits and fear for getting into debt.

Districts variation with respect to receiving crop extension services show that Ngorongoro had the lowest access to the services accounting for 66 percent of its household receiving the services in the region. As with other districts, the main providers of crop extension services were the government (88%), neighbours (6%), NGO/Development agencies, and Radio/TVs/Newspaper (2%). Application of erosion control and water harvesting facilities in the district was executed by 6 percent of the households. Terraces, erosion control bunds, drainage ditches, and water harvesting bunds and gabions/sandbags were the main available facilities in the district.

As for livestock, the district had the largest number of cattle (708,659 heads, 39%) of which 99.8 percent were indigenous. The district had the largest number of goats (655,087 heads, 36%) of which 99.9 were indigenous. It had the largest number of sheep, all of which were indigenous. Pigs were not reared in the district. It had 42,417 chicken, most of which 99.8% were indigenous. Other livestock in the district include donkeys, dogs, turkeys, ducks and rabbits.

Incidences of tick and tsetse problems were experienced in the district accounting for 87% and 52% of reported cases of ticks and tsetse diseases respectively. However incidences of Newcastle disease and Fowl Typhoid disease were reported by 5% and 2% of the households in the district and that of Foot and Mouth disease was reported 16 percent of the households in the district while Lymphskin disease was reported by 19% of the households.

Deworming of livestock was undertaken by 96 percent of the livestock keeping households.

Ngorongoro district had a large number of households (21,173hh,74%) with no toilet facilities, and had 21% of its households reporting using traditional pit latrine and only 1.2% used improved pit latrines. As for property ownership, 44% of the households owned radios, mobile phones(42%), pressing iron(10%), bicycles(8%), wheelbarrows(5%), vehicles(2%), landlines(2%), and refrigerators(1%), as the most important assets in the district.

The main source of energy for lighting was the wick lamp used by 48% of the households followed by firewood (38%) and hurricane lamp (11%). Main electricity was used by only 0.2 percent of the households. Firewood and livestock dung were the main sources of energy for cooking. Other sources were insignificant. As for roofing materials, 54% of the households were roofed using grass and leaves, followed by those using grass/mud(35%) and iron sheets(10%).

Piped water as the main source of drinking water used by 30% of the households followed surface water (30%), unprotected spring (17%), uncovered rain water catchment (10%) and unprotected well (7%). Other source had smaller percentages. The largest numbers of households(37%) in the district were located between 1 and 2 kilometers away from the main source of drinking water. The largest number of households(67%) in the district could afford two meals per day, followed by those who could afford three meals per day(32%). The district had a large proportion of households(35%) that did not eat meat and that of households which did not eat fish was 84%, during the week prior to enumeration. The district had the highest proportion(31%) of households that seldom faced food shortage.

4.2.6 Longido

Longido district had the second smallest number of agricultural households (11,644hh, 6%) in the region. Most of the smallholders (53%) were involved in crops and livestock farming, followed by livestock only (41%) and crops only farming (6%). Livestock pastoralists, fishing and fish farming were almost negligible.

Compared with other districts in the region, Longido had the lowest literacy rate of 49% among its household members. The literacy rate for the heads of household was also the lowest(40%) among the males heads and the lowest(24%) among the female heads of the households

Longido had a relatively small usable area available to smallholder agricultural households. The land utilization per household was 0.9 hectares, and a planted area of 1.8 hectares per household attributed to the large number of smallholders in the district.

With regard to annual crops, maize was the most dominant cereal crop in the district with a planted area of 6,788 ha or 84% of the total planted area with cereals . A total of 8,465 households grew the crop in the district. Wheat was the second most important crop grown on 1,193ha by 838 households. Sunflower was the only oil seed/nut crop grown in the district by only 144households on 94 hectares.

On pulses, beans were the most dominant crop grown by 5,807 households or 87% of the total district smallholders, planted on 4,041 ha(99% of the total area planted with cereals) giving an average of 0.7ha per household. Sweet potatoes were grown on small area(6 ha,1.3%) by only 29 households or 4% of the total household which planted roots and tuber crops. Irish potato was the most important roots. Irish potatoes was the most important roots and tuber crop grown 444 ha(99% of the total area planted with roots and tuber crops in the district) by 693 households(96% of the total households)

Tomatoes and onions were the only reported fruits and vegetables produced in the district though in small quantities with planted areas accounting for 78.7% and 21.7% respectively tobacco was grown in small area(6 ha) by 29 households. Permanent crops were not common in Longido district, thus very small quantities of the crops were produced.

As with other districts in the region, most of the land clearing and preparation was done by hand hoe and sword, with tractor, uncastrated bulls and ox-cart being the most popular methods in soil preparation in the district. The use of inputs in the region was moderate; however there were small variations across districts with Longido having the third largest area planted with improved seeds in Arusha region.

Application of fertilizers was very small making with the smallest area planted with fertiliser in the region. Organic fertilizer was more frequently used than inorganic fertilizers in the district. Longido district had the proportion of land applied with all the tree types of pesticides that is, insecticides, herbicides, and fungicides. The district had 4% of its agricultural households which practiced irrigation. Rivers and wells were the most common source of water for irrigation, with gravity and motor pump as the common methods of drawing irrigation water from the source.

Longido had the a proportion of 67% of its households that stored crops, with sacks, open drum locally made traditional structures, and air tight drums in that order as the commonly used storage methods. The district had the (46 %) of its households which sold crops, and those who did not sell, attributed this problem to low market prices, long distance from the market and inadequate market information as the main reasons. The district had 2% of its agricultural households accessing credits, and only female agricultural households accessed agricultural credit, family, friends or relatives were the main credit providers to agricultural smallholders. Most of those who did not use credits attributed this to unavailability of the credits and inadequate knowledge of accessing credit.

With regards to extension services, 67% of the livestock keepers received services in the district and most of the services coming (89%) coming from Government, and 14% coming from neighbours. Other sources were less important.

About 7% of the total agricultural households in the district had erosion control and water harvesting structures, and these were mainly in the form of terraces, erosion control bunds, drainage ditches, vetiver and grass, water harvesting bunds, in that order.

Longido had the second largest number of cattle (193,866 heads,11%) in the region, second to Ngorongoro. It had the second largest number of goats (232,293 heads,13%), second largest number of sheep (152,493 haeds,11%), pigs (1,271 heads,5%), and chicken(20,802, 2%) all of which were indigenous type. Other livestock in the district included donkeys, dogs, ducks and rabbits. The district reported large incidence of ticks 84% and small incidence of tsetse (24%). Other incidences were Newcastle disease (8%), Fowl Typhoid diseases (4%). Foot and Mouth disease (17%), and Limpkin disease (20%) of the households. Spraying dipping and smearing were the common control methods for the tick problem, Local herbs and vaccination were commonly control methods for other reported problems.

Longido district had a proportion of 80% of its households with no toilet facilities. The most common toilet facility was the traditional pit latrines used by 19% of the households. The district had a sizeable number of households owning radios (46%), mobile phones (33%), bicycles (15%), pressing iron (7%), wheel barrow (6%), vehicles (3%), and televisions (2%). Wick lamp, firewood, and hurricane lamp were the main sources of lighting energy. As for cooking energy, firewood accounted for 99 % of the households in the district while, the use of mains electricity and other sources were insignificant. Grass/ leaves and grass/ and mud were the most common roofing material in the district accounting for 67 and 18 percent of the households respectively followed by iron sheets (14%). Many households had access to drinking water within a distance of between 1 to 2 kilometers, with piped water, unprotected spring, protected spring and unprotected wells as the main source of drinking water.

Most the households(51%) reported having three meals per day, followed by those having two meals per day (40%), and those with one meal per day (12%) . Many households (33%) reported having eaten meat once, followed by those who had not eaten meat (32%), during the week prior to enumeration. The district had many households which reported not have eaten fish(66%) followed by the reported to have eaten fish once(24%), during the week prior to enumeration. It had 28% of its households which had often experienced food insufficiency followed by 26% of the household which seldom had food shortage, 22% always had food shortage , 15% had never experienced food shortage and 9% of the households which sometimes had food insufficiency.

4.2.7 Arusha Rural

Arusha Rural district had the second largest number of households (48,253 hh, 23%) in the region. Most of the smallholders were involved in crop farming and livestock keeping/herding (76%), followed by crop farming only (21%) , and livestock keeping/herding only(3%). Pastoralism was insignificant in the district.

The most important livelihood activity for the smallholder households in the district was annual crop farming(36% of the agricultural households), followed by livestock keeping/herding (5%). Arusha Rural had a relatively high literacy rate (80%) of it's for agricultural household members. The average literacy rate for the heads of household was 70%, with literacy rate of male household heads being higher(77%) than that of female household heads (41%)

The district had a land utilization of 94% with 0.9 hectares per crop growing household which was below the regional average of 2 hectares per household.

Arusha Rural had 41242 ha planted area during the two seasons equivalent to 21% of the total planted area in the region. Maize dominated the production of cereal crops in the district with a planted area of 21,587 ha, planted by 51,120 households with a planted area of 0.42 hectares per household. The district was among the three districts which did not grow paddy. Wheat was the second cereal crop grown by 1,314 households on 1,081 ha, giving an average planted area of 0.80ha per household.

The district was leading in the production of beans in the region representing 27 percent(13,590 ha) of the total planted area in the region grown by 44,192 households resulting into an average of 0.31 ha per household. Irish potatoes dominated the production of roots and tubers in the district, with a planted area of 841 hectares, planted by 2,150 households with an average of 0.4 ha per household. Sweet potatoes was the second most important roots and tuber crop in the district planted on 118 ha by 478 households, resulting into an average 0.2 ha per household. Cassava was grown by 239 households on 61 hectares with an average of 0.3 ha per cassava growing household.

Cabbage was the most important vegetable in the district, grown by 1,194 households on 304 hectares with an average of 0.3 ha per household. Cotton was the only traditional cash crop grown in the district planted by 119 households on 145 hectares.

Compared to other districts in the region, Arusha rural had the second largest area planted with permanent crops which were dominated by bananas (24.38 % of the total planted area), mangoes (12.85% of the total planted area) and pigeon peas (8.28% of the total planted area). There was small production of coffee accounting for 8.87 % of the total planted area with the crop in the region. The leading producer of coffee in the region is Arumeru district. Other permanent crops were either not grown or are grown in very small quantities.

As with other districts in the region, most of the land clearing was done by hand hoe and sword,. However, some of the land clearing was done by tractors and uncastrated bulls. Cows and donkeys were the most common methods for soil preparation in the district.

The district had a total of 110,146 ha(32%) of annual crops planted with improved seeds in the district and involving 24,724 households or 31% of the total annual crop growing households in the district. The district had the largest area planted with organic fertilizers in both short and long

rainy seasons. The application of pesticides in the district varied depending on the type, .A total of 3,657 ha (9% of the total planted area in the district) were planted using insecticides followed by fungicide use 1,102 ha(3%) and herbicide use 1,076 ha(3%) planted during the two rainy seasons. The most common source of water for irrigation was tape water and rivers used by 85% of the households which practiced irrigation, using gravity as the means of drawing the water from the source.

Arusha Rural had 93% of its crop growing households which stored crops during the two rainy seasons. As is the case with other district, the most common method of crop storage was the sacks and open drums followed by locally made traditional structures. The district 43% of its households which sold crops during the two rainy seasons and those which not sell crops attributed this as due to low market prices, long distances to the market, lack of market information and transport as the main reasons.

Access to credit in the district was very small (0.2% of the agricultural households) and this was to male household members only. Family, friends or relatives were the main if not the only agricultural credit providers in the district. Most of those which did not use agricultural credits attributed this trend to lack of information about credits, credit unavailability, and fear of getting into debt as the main reasons. A large proportion of the households (86%) received crop extension services most of which came(84%) from the government, NGOs/ Development Agents (8%), Cooperatives (0.4%), and neighbours(4%). Other providers were less important. The district had the 13% of its agricultural households with soil erosion control and water harvesting facilities, which were mainly in the form of terraces, erosion control bunds, tree belts, drainage ditches, and vetiver grass.

The district had the third largest number of cattle(179,278 heads, 10%), in the region most of which(72%) were indigenous,21%; improved diary (20.6%) and 8% improved beef It had the second smallest population of goats (141,177 heads,8%) most of which 91% were indigenous and 9% improved diary had the third largest population of sheep(148,582 heads,11%) (all indigenous type), the second smallest population of pigs(597 heads,2%) and the second largest population of chicken (199,343, 21%) which (99%) were indigenous. Other types of livestock were dogs, donkeys, guinea pigs, and rabbits and ducks.

The district reported the predominance of tick related diseases (58% of the household) over tsetse related diseases (34%). The district had the second largest number of households (36,907hh, 21%)

deworming livestock in the region. Spraying, smearing and dipping were the common methods for tick control, while spraying, trapping and dipping were the common methods for tsetse control. About 49% of the households reported incidences of Newcastle Disease, Fowl Typhoid Disease (24%), Foot and Mouth disease(19%), and Lymphskin disease (26%).

Arusha Rural district had 73% of its agricultural households with no toilet facilities. The district had a74% of its households owning radios, mobile phones (51%), bicycles (35%), pressing iron (40%), wheel barrow (27%), vehicles (10%), and televisions (10%). Most of the households (46%) used hurricane lamp wick lamp (40%), and mains electricity (7%) as the main sources of lighting in the district. About 93 percent of the households in the district used firewood, and about 5 percent used charcoal as the most common source of energy for cooking. Other sources were less important accounting for only 1 percent and less.

The district had 73% of its agricultural households with iron sheets roofs followed by grass/leaves roofing (22%), grass/mud roofing (3%) and tiles (2%). Most of the households (85%) obtain their drinking water at a distance less than 1 km, with 80% using piped water followed by surface water (dams/rivers) (11%) and unprotected well (4%) as the main sources of drinking water during the wet season. It had 49% of its households having three meals per day, followed by those having two meals per day (42%). It had 42% of the household which consumed meat once during the week prior to enumeration; and 50% of those which did not consume fish during the week prior to enumeration. Most of the households (40%) never experienced food shortage followed by those which seldom had food shortage (36%), those which often had experienced food shortage (12%), those which sometimes had food shortage (8%) and those which always had food shortage (5%).

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Appendix II: TABLES

TYPE OF AGRICULTURE HOUSEHOLD

2.1 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	%			
Monduli	3,286	11.4	4,144	14.3	429	1.5	21,075	72.8	28,933	24,361	25,647
Arusha	170	6.7	0	0.0	0	0.0	2,387	93.3	2,557	2,557	2,387
Karatu	11,585	32.1	2,139	5.9	178	0.5	22,190	61.5	36,093	33,776	24,507
Ngorongoro	1,421	4.9	17,763	61.7	142	0.5	9,450	32.8	28,776	10,871	27,355
Longido	636	5.5	4,767	40.9	29	0.2	6,212	53.3	11,644	6,847	11,008
Arusha Rural	10,272	21.3	1,553	3.2	0	0.0	36,429	75.5	48,253	46,701	37,982
Meru	10,615	21.5	732	1.5	0	0.0	37,945	77.0	49,292	48,560	38,677
Total	37,985	18.5	31,097	15.1	778	0.4	135,687	66.0	205,547	173,673	167,562

2.2: Number of Agriculture Households By Type and Size of Holding, 2007/08 Agricultural Year - ARUSHA REGION

Size of Holding (ha)	Type of Agriculture Household									
	Crops only		Livestock only		Pastoralist		Crops and Livestock		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0.01 - 0.50	19,138	23.3	27,667	33.7	474	0.6	34,838	42.4	82,117	100
0.51 - 1.00	8,621	21.1	818	2.0	89	0.2	31,386	76.7	40,913	100
1.01 - 1.50	4,789	17.6	640	2.4	0	0.0	21,776	80.0	27,205	100
1.51 - 2.00	2,079	13.0	216	1.4	0	0.0	13,692	85.6	15,987	100
2.01 - 2.50	2,121	13.7	342	2.2	0	0.0	13,051	84.1	15,513	100
2.51 - 3.00	250	6.0	0	0.0	0	0.0	3,909	94.0	4,159	100
3.01 - 3.50	351	10.2	201	5.8	0	0.0	2,886	84.0	3,438	100
3.51 - 4.00	29	1.8	0	0.0	0	0.0	1,621	98.2	1,650	100
4.01 - 4.50	71	1.7	285	6.8	0	0.0	3,845	91.5	4,201	100
4.51 - 5.00	71	3.9	0	0.0	71	3.9	1,710	92.3	1,853	100
Above 5	466	5.5	929	10.9	143	1.7	6,974	81.9	8,512	100
Total	37,985	18.5	31,097	15.1	778	0.4	135,687	66.0	205,547	100

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

Size of Holding (ha)	Type of Agriculture Household									
	Crops only		Livestock only		Pastoralist		Crops and Livestock		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0.01 - 0.50	19,138	50.4	27,667	89.0	474	61.0	34,838	25.7	82,117	40.0
0.51 - 1.00	8,621	22.7	818	2.6	89	11.5	31,386	23.1	40,913	19.9
1.01 - 1.50	4,789	12.6	640	2.1	0	0.0	21,776	16.0	27,205	13.2
1.51 - 2.00	2,079	5.5	216	0.7	0	0.0	13,692	10.1	15,987	7.8
2.01 - 2.50	2,121	5.6	342	1.1	0	0.0	13,051	9.6	15,513	7.5
2.51 - 3.00	250	0.7	0	0.0	0	0.0	3,909	2.9	4,159	2.0
3.01 - 3.50	351	0.9	201	0.6	0	0.0	2,886	2.1	3,438	1.7
3.51 - 4.00	29	0.1	0	0.0	0	0.0	1,621	1.2	1,650	0.8
4.01 - 4.50	71	0.2	285	0.9	0	0.0	3,845	2.8	4,201	2.0
4.51 - 5.00	71	0.2	0	0.0	71	9.2	1,710	1.3	1,853	0.9
Above 5	466	1.2	929	3.0	143	18.4	6,974	5.1	8,512	4.1
Total	37,985	100.0	31,097	100.0	778	100.0	135,687	100.0	205,547	100

HOUSEHOLD DEMOGRAPHICS

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

District	Male		Female		Total
	Number	Percent	Number	Percent	
Monduli	20,075	69	8,859	31	28,933
Arusha	2,259	88	298	12	2,557
Karatu	30,033	83	6,060	17	36,093
Ngorongoro	22,381	78	6,395	22	28,776
Longido	7,165	62	4,478	38	11,644
Arusha Rural	38,698	80	9,555	20	48,253
Meru	42,947	87	6,344	13	49,292
Total	163,558	80	41,989	20	205,547

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

District	Male		Female		Total
	Number	Percent	Number	Percent	
Monduli	71,226	49	75,298	51	146,524
Arusha	8,567	47	9,632	53	18,198
Karatu	108,457	55	89,296	45	197,753
Ngorongoro	75,172	52	69,843	48	145,014
Longido	27,216	49	27,823	51	55,040
Arusha Rural	120,991	50	121,350	50	242,341
Meru	124,328	51	121,643	49	245,971
Total	535,956	51	514,886	49	1,050,842

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

Age Group	Sex					
	Male		Female		Total	
	Number	%	Number	%	Number	%
Less than 4	65,993	50	66,357	50	132,350	100
5 - 9	76,896	50	75,524	50	152,420	100
10 - 14	80,872	54	67,941	46	148,813	100
15 - 19	64,170	53	57,738	47	121,908	100
20 - 24	42,015	46	50,231	54	92,246	100
25 - 29	37,771	45	46,508	55	84,279	100
30 - 34	31,880	47	35,544	53	67,424	100
35 - 39	30,853	52	28,924	48	59,777	100
40 - 44	22,829	49	23,451	51	46,280	100
45 - 49	22,201	53	19,439	47	41,639	100
50 - 54	16,189	57	12,063	43	28,252	100
55 - 59	13,965	64	7,892	36	21,857	100
60 - 64	10,213	61	6,490	39	16,703	100
65 - 69	5,412	50	5,355	50	10,767	100
70 - 74	5,563	54	4,671	46	10,234	100
75 - 79	4,544	62	2,748	38	7,292	100
80 - 84	2,659	55	2,190	45	4,849	100
Above 85	1,931	51	1,820	49	3,751	100
Total	535,956	51	514,886	49	1,050,842	100

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

District	Married						Not Married					
	Male		Female		Total		Male		Female		Total	
Monduli	19,289	72	7,644	28	26,933	100	500	88	71	13	572	100
Arusha	2,088	89	256	11	2,344	100	85	100	0	0	85	100
Karatu	26,557	92	2,228	8	28,785	100	1,248	88	178	13	1,426	100
Ngorongoro	21,386	82	4,760	18	26,147	100	497	70	213	30	711	100
Longido	6,905	66	3,525	34	10,430	100	116	36	202	64	318	100
Arusha Rural	35,473	87	5,375	13	40,848	100	1,075	90	119	10	1,194	100
Meru	39,775	96	1,830	4	41,605	100	1,098	60	732	40	1,830	100
Total	151,474	86	25,618	14	177,092	100	4,619	75	1,517	25	6,136	100

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

District	Living together						Separated					
	Male		Female		Total		Male		Female		Total	
Monduli	71	50	71	50	143	100	143	22	500	78	643	100
Arusha	43	100	0	0	43	100	0	0	0	0	0	0
Karatu	0	0	89	100	89	100	1,248	50	1,248	50	2,495	100
Ngorongoro	355	71	142	29	497	100	142	33	284	67	426	100
Longido	0	0	0	0	0	0	29	25	87	75	116	100
Arusha Rural	1,433	92	119	8	1,553	100	239	25	717	75	956	100
Meru	1,586	100	0	0	1,586	100	366	33	732	67	1,098	100
Total	3,489	89	422	11	3,911	100	2,166	38	3,567	62	5,734	100

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

District	Widowed						Total					
	Male		Female		Total		Male		Female		Total	
Monduli	71	11	572	89	643	100	20,075	69	8,859	31	28,933	100
Arusha	43	50	43	50	85	100	2,259	88	298	12	2,557	100
Karatu	980	30	2,317	70	3,297	100	30,033	83	6,060	17	36,093	100
Ngorongoro	0	0	995	100	995	100	22,381	78	6,395	22	28,776	100
Longido	116	15	665	85	780	100	7,165	62	4,478	38	11,644	100
Arusha Rural	478	13	3,225	87	3,703	100	38,698	80	9,555	20	48,253	100
Meru	122	4	3,050	96	3,172	100	42,947	87	6,344	13	49,292	100
Total	1,810	14	10,866	86	12,675	100	163,558	80	41,989	20	205,547	100

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

District	Yes						No					
	Male		Female		Total		Male		Female		Total	
Monduli	9,859	64	5,501	36	15,360	100	10,145	75	3,358	25	13,502	100
Arusha	938	92	85	8	1,023	100	1,321	86	213	14	1,534	100
Karatu	14,081	89	1,782	11	15,863	100	15,863	79	4,278	21	20,141	100
Ngorongoro	10,444	76	3,339	24	13,784	100	11,937	80	3,055	20	14,992	100
Longido	3,496	59	2,398	41	5,894	100	3,669	64	2,080	36	5,750	100
Arusha Rural	18,035	86	2,986	14	21,021	100	20,424	76	6,569	24	26,993	100
Meru	19,766	93	1,464	7	21,230	100	22,694	83	4,758	17	27,452	100
Total	76,618	81	17,556	19	94,174	100	86,052	78	24,311	22	110,364	100

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

District	Don't know						Total					
	Male		Female		Total		Male		Female		Total	
Monduli	71	100	0	0	71	100	20,075	69	8,859	31	28,933	100
Arusha	0	0	0	0	0	0	2,259	88	298	12	2,557	100
Karatu	89	100	0	0	89	100	30,033	83	6,060	17	36,093	100
Ngorongoro	0	0	0	0	0	0	22,381	78	6,395	22	28,776	100
Longido	0	0	0	0	0	0	7,165	62	4,478	38	11,644	100
Arusha Rural	239	100	0	0	239	100	38,698	80	9,555	20	48,253	100
Meru	488	80	122	20	610	100	42,947	87	6,344	13	49,292	100
Total	887	88	122	12	1,009	100	163,558	80	41,989	20	205,547	100

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

District	Yes						No					
	Male	%	Female	%	Total	%	Male	%	Female	%	Total	%
Monduli	15,217	68	7,215	32	22,432	100	4,787	74	1,643	26	6,430	100
Arusha	1,279	94	85	6	1,364	100	980	82	213	18	1,193	100
Karatu	18,893	90	2,050	10	20,943	100	11,051	73	4,010	27	15,061	100
Ngorongoro	17,621	78	4,974	22	22,594	100	4,760	77	1,421	23	6,181	100
Longido	5,027	61	3,265	39	8,292	100	2,138	64	1,213	36	3,351	100
Arusha Rural	24,604	85	4,419	15	29,024	100	14,094	73	5,136	27	19,230	100
Meru	27,940	93	1,952	7	29,892	100	15,007	78	4,270	22	19,277	100
Total	110,581	82	23,960	18	134,541	100	52,817	75	17,907	25	70,724	100

Cont... 3.6: Number of Heads of Agricultural Households by Survival of Male Parent, sex of head and District, 2007/08 Agricultural Year

District	Don't know						Total					
	Male	%	Female	%	Total	%	Male	%	Female	%	Total	%
Monduli	71	100	0	0	71	100	20,075	69	8,859	31	28,933	100
Arusha	0	0	0	0	0	0	2,259	88	298	12	2,557	100
Karatu	89	100	0	0	89	100	30,033	83	6,060	17	36,093	100
Ngorongoro	0	0	0	0	0	0	22,381	78	6,395	22	28,776	100
Longido	0	0	0	0	0	0	7,165	62	4,478	38	11,644	100
Arusha Rural	0	0	0	0	0	0	38,698	80	9,555	20	48,253	100
Meru	0	0	122	100	122	100	42,947	87	6,344	13	49,292	100
Total	161	57	122	43	283	100	163,558	80	41,989	20	205,547	100

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

District	Swahili		Swahili & English		Any Other Language		Don't Read / Write		Total
	Number	%	Number	%	Number	%	Number	%	
Monduli	66,940	54.6	8,287	5.0	0	0.0	47,436	38.7	122,663
Arusha	10,825	66.5	2,472	12.8	0	0.0	2,983	18.3	16,281
Karatu	121,379	69.2	16,041	6.7	446	0.3	37,519	21.4	175,384
Ngorongoro	60,464	50.2	4,831	3.7	213	0.2	54,993	45.6	120,502
Longido	20,253	43.8	2,282	3.7	58	0.1	23,605	51.1	46,199
Arusha Rural	148,462	68.0	25,918	10.3	358	0.2	43,595	20.0	218,334
Meru	153,854	70.2	40,263	14.5	122	0.1	24,890	11.4	219,129
Total	582,178	63.4	100,096	8.7	1,197	0.1	235,022	25.6	918,492

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

District	Swahili						Swahili & English					
	Male	%	Female	%	Total	%	Male	%	Female	%	Total	%
Monduli	10,859	77	3,286	23	14,145	100	929	76	286	24	1,214	100
Arusha	1,364	89	170	11	1,534	100	597	100	0	0	597	100
Karatu	20,675	89	2,584	11	23,260	100	1,961	76	624	24	2,584	100
Ngorongoro	10,373	90	1,137	10	11,510	100	711	100	0	0	711	100
Longido	2,658	74	925	26	3,583	100	202	58	144	42	347	100
Arusha Rural	25,679	88	3,583	12	29,263	100	4,061	92	358	8	4,419	100
Meru	30,990	92	2,562	8	33,553	100	8,297	96	366	4	8,663	100
Total	102,599	88	14,248	12	116,847	100	16,756	90	1,778	10	18,535	100

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

District	Any Other Language						Don't Read / Write					
	Male	%	Female	%	Total	%	Male	%	Female	%	Total	%
Monduli	0	0	0	0	0	0	8,287	61	5,287	39	13,574	100
Arusha	0	0	0	0	0	0	298	70	128	30	426	100
Karatu	0	0	0	0	0	0	7,397	72	2,852	28	10,249	100
Ngorongoro	0	0	0	0	0	0	11,297	68	5,258	32	16,555	100
Longido	0	0	0	0	0	0	4,305	56	3,409	44	7,714	100
Arusha Rural	119	100	0	0	119	100	8,838	61	5,614	39	14,452	100
Meru	0	0	0	0	0	0	3,660	52	3,416	48	7,077	100
Total	119	100	0	0	119	100	44,083	63	25,963	37	70,046	100

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

District	Total					
	Male	%	Female	%	Total	%
Monduli	20,075	69	8,859	31	28,933	100
Arusha	2,259	88	298	12	2,557	100
Karatu	30,033	83	6,060	17	36,093	100
Ngorongoro	22,381	78	6,395	22	28,776	100
Longido	7,165	62	4,478	38	11,644	100
Arusha Rural	38,698	80	9,555	20	48,253	100
Meru	42,947	87	6,344	13	49,292	100
Total	163,558	80	41,989	20	205,547	100

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

District	Male						Female						Total					
	Can Read and Write		Can not Read and Write		Total		Can Read and Write		Can not Read and Write		Total		Can Read and Write		Can not Read and Write		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Monduli	39,649	66	20,146	34	59,796	100	35,577	57	27,290	43	62,868	100	75,227	61	47,436	39	122,663	100
Arusha	6,521	85	1,108	15	7,629	100	6,776	78	1,875	22	8,652	100	13,297	82	2,983	18	16,281	100
Karatu	76,018	79	20,319	21	96,337	100	61,848	78	17,200	22	79,048	100	137,866	79	37,519	21	175,384	100
Ngorongoro	38,083	60	25,081	40	63,164	100	27,426	48	29,912	52	57,338	100	65,509	54	54,993	46	120,502	100
Longido	12,453	54	10,517	46	22,969	100	10,141	44	13,088	56	23,229	100	22,594	49	23,605	51	46,199	100
Arusha Rural	90,296	83	19,110	17	109,406	100	84,443	78	24,485	22	108,928	100	174,739	80	43,595	20	218,334	100
Meru	99,438	90	11,225	10	110,663	100	94,801	87	13,665	13	108,466	100	194,239	89	24,890	11	219,129	100
Total	362,457	77	107,506	23	469,963	100	321,013	72	127,516	28	448,529	100	683,470	74	235,022	26	918,492	100

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

District	Male						Female						Total					
	Can Read and Write		Can not Read and Write		Total		Can Read and Write		Can not Read and Write		Total		Can Read and Write		Can not Read and Write		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Monduli	11,788	59	8,287	41	20,075	100	3,572	40	5,287	60	8,859	100	15,360	53	13,574	47	28,933	100
Arusha	1,960	87	298	13	2,259	100	170	57	128	43	298	100	2,131	83	426	17	2,557	100
Karatu	22,636	75	7,397	25	30,033	100	3,208	53	2,852	47	6,060	100	25,844	72	10,249	28	36,093	100
Ngorongoro	11,084	50	11,297	50	22,381	100	1,137	18	5,258	82	6,395	100	12,221	42	16,555	58	28,776	100
Longido	2,860	40	4,305	60	7,165	100	1,069	24	3,409	76	4,478	100	3,929	34	7,714	66	11,644	100
Arusha Rural	29,860	77	8,838	23	38,698	100	3,941	41	5,614	59	9,555	100	33,801	70	14,452	30	48,253	100
Meru	39,287	91	3,660	9	42,947	100	2,928	46	3,416	54	6,344	100	42,215	86	7,077	14	49,292	100
Total	119,475	73	44,083	27	163,558	100	16,026	38	25,963	62	41,989	100	135,501	66	70,046	34	205,547	100

3.11: Number of Household Members Five Years and Above by Education Status and District

District	Attending School	%	Completed	%	Never Attended to School	%	Total
Monduli	42,579	13	34,077	9	46,008	21	122,663
Arusha	7,032	2	7,032	2	2,216	1	16,281
Karatu	61,402	18	81,632	22	32,350	15	175,384
Ngorongoro	35,738	11	30,197	8	54,567	25	120,502
Longido	14,388	4	9,534	3	22,276	10	46,199
Arusha Rural	88,504	27	88,265	24	41,565	19	218,334
Meru	83,698	25	112,493	31	22,938	10	219,129
Total	333,342	100	363,230	100	221,919	100	918,492

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

District	Attending School						Completed					
	Male		Female		Total		Male		Female		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Monduli	286	67	143	33	429	100	11,359	77	3,358	23	14,717	100
Arusha	43	50	43	50	85	100	1,918	94	128	6	2,046	100
Karatu	267	100	0	0	267	100	22,369	88	3,119	12	25,488	100
Ngorongoro	213	100	0	0	213	100	10,658	90	1,137	10	11,794	100
Longido	0	0	58	100	58	100	2,716	73	982	27	3,698	100
Arusha Rural	358	50	358	50	717	100	29,621	91	3,105	9	32,726	100
Meru	488	100	0	0	488	100	38,677	93	2,806	7	41,483	100
Total	1,655	73	602	27	2,257	100	117,317	89	14,635	11	131,952	100

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

District	Never Attended to School						Total					
	Male		Female		Total		Male		Female		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Monduli	8,430	61	5,358	39	13,788	100	20,075	69	8,859	31	28,933	100
Arusha	298	70	128	30	426	100	2,259	88	298	12	2,557	100
Karatu	7,397	72	2,941	28	10,338	100	30,033	83	6,060	17	36,093	100
Ngorongoro	11,510	69	5,258	31	16,768	100	22,381	78	6,395	22	28,776	100
Longido	4,449	56	3,438	44	7,888	100	7,165	62	4,478	38	11,644	100
Arusha Rural	8,719	59	6,091	41	14,810	100	38,698	80	9,555	20	48,253	100
Meru	3,782	52	3,538	48	7,321	100	42,947	87	6,344	13	49,292	100
Total	44,586	62	26,752	38	71,338	100	163,558	80	41,989	20	205,547	100

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

District	Education Level											
	Under Standard One		Standard One		Standard Two		Standard Three		Standard Four		Standard Five	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Monduli	71	0.2	286	0.8	286	0.8	929	2.7	2,572	7.5	1,143	3.4
Arusha	0	0.0	0	0.0	0	0.0	170	2.4	554	7.9	128	1.8
Karatu	178	0.2	713	0.9	1,159	1.4	1,159	1.4	4,901	6.0	1,515	1.9
Ngorongoro	0	0.0	0	0.0	497	1.6	426	1.4	2,416	8.0	497	1.6
Longido	0	0.0	0	0.0	29	0.3	116	1.2	260	2.7	87	0.9
Arusha Rural	0	0.0	1,433	1.6	1,433	1.6	1,194	1.4	2,747	3.1	358	0.4
Meru	122	0.1	0	0.0	610	0.5	1,220	1.1	7,565	6.7	2,562	2.3
Total	372	0.1	2,432	0.7	4,014	1.1	5,214	1.4	21,015	5.8	6,290	1.7

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

District	Education Level											
	Standard Six		Standard Seven		Standard Eight		Training After Primary Education		Pre Form One		Form One	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Monduli	786	2.3	25,504	74.8	71	0.2	214	0.6	71	0.2	143	0.4
Arusha	256	3.6	4,305	61.2	43	0.6	128	1.8	0	0.0	0	0.0
Karatu	802	1.0	65,324	80.0	446	0.5	178	0.2	0	0.0	178	0.2
Ngorongoro	284	0.9	24,228	80.2	0	0.0	213	0.7	0	0.0	71	0.2
Longido	173	1.8	8,119	85.2	87	0.9	29	0.3	0	0.0	0	0.0
Arusha Rural	1,314	1.5	67,363	76.3	717	0.8	717	0.8	119	0.1	239	0.3
Meru	854	0.8	81,624	72.6	1,220	1.1	610	0.5	244	0.2	244	0.2
Total	4,469	1.2	276,467	76.1	2,583	0.7	2,089	0.6	435	0.1	875	0.2

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

District	Education Level											
	Form Two		Form Three		Form Four		Form Five		Form Six		Training After Secondary Education	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Monduli	500	1.5	143	0.4	500	1.5	71	0.2	0	0.0	0	0.0
Arusha	128	1.8	43	0.6	426	6.1	0	0.0	43	0.6	43	0.6
Karatu	267	0.3	356	0.4	2,406	2.9	0	0.0	89	0.1	356	0.4
Ngorongoro	142	0.5	142	0.5	639	2.1	0	0.0	142	0.5	213	0.7
Longido	202	2.1	0	0.0	289	3.0	0	0.0	0	0.0	58	0.6
Arusha Rural	1,194	1.4	478	0.5	5,733	6.5	0	0.0	836	0.9	717	0.8
Meru	3,660	3.3	854	0.8	8,053	7.2	0	0.0	244	0.2	976	0.9
Total	6,094	1.7	2,016	0.6	18,047	5.0	71	0.0	1,354	0.4	2,363	0.7

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

District	Education Level							
	University & Other Tertiary Education		Adult Education		Not applicable		Total	
	Number	%	Number	%	Number	%	Number	%
Monduli	214	0.6	500	1.5	71	0.2	34,077	100
Arusha	554	7.9	213	3.0	0	0.0	7,032	100
Karatu	267	0.3	1,069	1.3	267	0.3	81,632	100
Ngorongoro	0	0.0	284	0.9	0	0.0	30,197	100
Longido	58	0.6	0	0.0	29	0.3	9,534	100
Arusha Rural	358	0.4	1,075	1.2	239	0.3	88,265	100
Meru	1,220	1.1	488	0.4	122	0.1	112,493	100
Total	2,672	0.7	3,630	1.0	729	0.2	363,230	100

3.14: Number of Agricultural Household Members By Level of involvement in Farming Activity and District, 2007/08 Agricultural Year

District	Involvement in Farming									
	Works Full-time on Farm		Works Part-time on Farm		Rarely Works on Farm		Never Works on Farm		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%
Monduli	42,150	34	15,931	13	27,362	22	37,220	30	122,663	100
Arusha	5,157	32	554	3	2,856	18	7,714	47	16,281	100
Karatu	82,612	47	6,327	4	36,449	21	49,995	29	175,384	100
Ngorongoro	60,748	50	9,734	8	4,689	4	45,330	38	120,502	100
Longido	10,661	23	10,401	23	9,188	20	15,948	35	46,199	100
Arusha Rural	76,680	35	16,960	8	49,328	23	75,366	35	218,334	100
Meru	90,287	41	21,108	10	36,603	17	71,131	32	219,129	100
Total	368,295	40	81,016	9	166,475	18	302,706	33	918,492	100

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

District	Main Activity									
	Crop/Seaweed Farming		Livestock Keeping / Herding		Livestock Pastoralist		Fishing		Fish Farming	
	Number	%	Number	%	Number	%	Number	%	Number	%
Monduli	37,078	30.2	23,004	18.8	3,286	3	143	0.1	0	0
Arusha	5,029	30.9	1,534	9.4	85	1	0	0.0	0	0
Karatu	87,068	49.6	5,704	3.3	0	0	267	0.2	0	0
Ngorongoro	15,063	12.5	52,933	43.9	497	0	71	0.1	0	0
Longido	7,194	15.6	16,555	35.8	665	1	58	0.1	0	0
Arusha Rural	77,994	35.7	10,749	4.9	119	0	0	0.0	0	0
Meru	92,971	42.4	2,440	1.1	122	0	366	0.2	0	0
Total	322,397	35.1	112,919	12.3	4,775	1	905	0.1	0	0

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

District	Main Activity									
	Government / Parastatal		Private - NGO / Mission / etc		Self Employed (Non Farming) with Employees		Self Employed (Non Farming) without Employees		Unpaid Family Helper (Non Agriculture)	
	Number	%	Number	%	Number	%	Number	%	Number	%
Monduli	357	0.3	1,000	0.8	572	0.5	286	0.2	429	0.3
Arusha	341	2.1	682	4.2	426	2.6	128	0.8	0	0.0
Karatu	1,159	0.7	3,476	2.0	713	0.4	178	0.1	2,050	1.2
Ngorongoro	213	0.2	639	0.5	142	0.1	213	0.2	213	0.2
Longido	202	0.4	318	0.7	29	0.1	202	0.4	116	0.3
Arusha Rural	3,105	1.4	5,972	2.7	6,091	2.8	2,986	1.4	2,269	1.0
Meru	3,782	1.7	7,565	3.5	5,490	2.5	4,270	1.9	1,220	0.6
Total	9,160	1.0	19,651	2.1	13,463	1.5	8,264	0.9	6,297	0.7

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

District	Main Activity													
	Not Working & Available		Not Working & Unavailable		Housemaker / Housewife		Student		Unable to Work / Too Old / Retired / Sick / Disabled		Other		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Monduli	357	0.3	143	0.1	1,357	1.1	40,007	32.6	14,574	12	71	0.1	122,663	100
Arusha	170	1.0	43	0.3	256	1.6	6,904	42.4	639	4	43	0.3	16,281	100
Karatu	1,069	0.6	356	0.2	802	0.5	59,442	33.9	13,100	7	0	0.0	175,384	100
Ngorongoro	213	0.2	0	0.0	1,421	1.2	35,667	29.6	13,215	11	0	0.0	120,502	100
Longido	202	0.4	58	0.1	1,647	3.6	13,810	29.9	5,085	11	58	0.1	46,199	100
Arusha Rural	1,194	0.5	597	0.3	4,778	2.2	88,265	40.4	14,094	6	119	0.1	218,334	100
Meru	976	0.4	1,220	0.6	4,758	2.2	80,038	36.5	13,909	6	0	0.0	219,129	100
Total	4,183	0.5	2,417	0.3	15,019	1.6	324,134	35.3	74,617	8	291	0	918,492	100

LAND OWNERSHIP AND LAND USE

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

District	Land ownership/tenure														Total number of households
	Leased / Certificate of Ownership		Owned under Customary Law		Bought		Rented		Borrowed		Households with area Share - cropped		Households with area under Other forms of Tenure		
	No of Households	%	No of Households	%	No of Households	%	No of Households	%	No of Households	%	No of Households	%	No of Households	%	
Monduli	857	3.0	22,361	77.3	2,286	7.9	929	3.2	1,000	3.5	357	1.2	2,072	7.2	28,933
Arusha	85	3.3	2,088	81.7	725	28.3	170	6.7	85	3.3	128	5.0	0	0.0	2,557
Karatu	5,704	15.8	19,784	54.8	8,644	24.0	4,812	13.3	4,545	12.6	624	1.7	267	0.7	36,093
Ngorongoro	284	1.0	10,729	37.3	426	1.5	213	0.7	355	1.2	71	0.2	284	1.0	28,776
Longido	867	7.4	6,703	57.6	433	3.7	607	5.2	144	1.2	462	4.0	491	4.2	11,644
Arusha Rural	1,672	3.5	40,131	83.2	6,569	13.6	1,792	3.7	1,792	3.7	717	1.5	119	0.2	48,253
Meru	1,342	2.7	41,727	84.7	9,273	18.8	5,734	11.6	2,928	5.9	366	0.7	488	1.0	49,292
Total	10,811	5.3	143,524	69.8	28,357	13.8	14,257	6.9	10,850	5.3	2,725	1.3	3,722	1.8	205,547

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

District	Land Ownership/Tenure							
	Area leased / Certificate of Ownership	Area owned under Customary Law	Area Bought	Area rented	Area Borrowed	Area Share - cropped	Area under Other forms of Tenure	Total area
Monduli	1,692	85,775	6,119	1,070	904	1,533	3,182	100,274
Arusha	173	3,348	893	278	39	224	.	4,954
Karatu	4,330	25,220	4,266	2,719	1,982	289	352	39,157
Ngorongoro	367	20,740	302	122	187	7	302	22,027
Longido	1,649	8,524	339	792	129	509	380	12,323
Arusha Rural	2,055	34,221	4,605	931	1,114	326	48	43,300
Meru	1,025	42,673	9,003	5,928	1,939	370	247	61,184
Total	11,290	220,500	25,527	11,840	6,293	3,259	4,511	283,220

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

District	Was all Land Available to the Hh Used During 2007/08?				
	Yes	%	No	%	Total
Monduli	20,218	70	8,716	30	28,933
Arusha	2,472	97	85	3	2,557
Karatu	29,231	81	6,862	19	36,093
Ngorongoro	7,389	26	21,386	74	28,776
Longido	5,778	50	5,865	50	11,644
Arusha Rural	42,640	88	5,614	12	48,253
Meru	42,947	87	6,344	13	49,292
Total	150,675	73	54,873	27	205,547

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

District	Do you Consider that you have sufficient land for the Hh?				
	Yes	%	No	%	Total
Monduli	5,429	19	23,504	81	28,933
Arusha	469	18	2,088	82	2,557
Karatu	10,872	30	25,220	70	36,093
Ngorongoro	2,274	8	26,502	92	28,776
Longido	1,676	14	9,968	86	11,644
Arusha Rural	4,061	8	44,192	92	48,253
Meru	6,222	13	43,069	87	49,292
Total	31,003	15	174,544	85	205,547

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

District	Do any Female Members of the Hh own or have customary right to Land				
	Yes	%	No	%	Total
Monduli	5,572	19	23,361	81	28,933
Arusha	1,406	55	1,151	45	2,557
Karatu	8,288	23	27,805	77	36,093
Ngorongoro	2,984	10	25,791	90	28,776
Longido	1,560	13	10,083	87	11,644
Arusha Rural	11,824	25	36,429	75	48,253
Meru	12,445	25	36,847	75	49,292
Total	44,080	21	161,467	79	205,547

4.6: 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	%
Monduli	8,001	28	17,574	61	857	3	357	1	214	1	7,644	26	4,001	14
Arusha	895	35	2,174	85	384	15	597	23	170	7	597	23	85	3
Karatu	18,626	52	16,843	47	89	0	535	1	535	1	5,347	15	713	2
Ngorongoro	7,460	26	3,624	13	71	0	142	0	71	0	355	1	2,345	8
Longido	5,403	46	1,762	15	0	0	116	1	87	1	491	4	549	5
Arusha Rural	12,063	25	33,682	70	3,225	7	3,105	6	3,344	7	3,225	7	1,194	2
Meru	19,644	40	28,062	57	9,761	20	15,373	31	2,684	5	5,856	12	2,196	4
Total	72,092	35	103,721	50	14,387	7	20,225	10	7,106	3	23,516	11	11,083	5

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

District	Type of land use											Total number of households
	Households under Natural Bush	%	Households under Planted Trees	%	Households Rented to Others	%	Households Unusable	%	Households of Uncultivated Usable Land	%		
Monduli	71	0	0	0	214	1	2,858	10	1,214	4		28,933
Arusha	128	5	298	12	85	3	170	7	0	0		2,557
Karatu	535	1	624	2	980	3	1,069	3	1,604	4		36,093
Ngorongoro	213	1	71	0	213	1	142	0	639	2		28,776
Longido	29	0	58	0	87	1	202	2	1,358	12		11,644
Arusha Rural	358	1	478	1	239	0	1,433	3	836	2		48,253
Meru	122	0	488	1	488	1	610	1	1,586	3		49,292
Total	1,456	1	2,017	1	2,307	1	6,485	3	7,238	4		205,547

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

District	Land use area												
	Area under Temporary Mono Crops	Area under Temporary Mixed Crops	Area under Permanent Mono Crops	Area under Permanent Mixed Crops	Area under Permanent / Annual Mix	Area under Pasture	Area under Fallow	Area under Natural Bush	Area under Planted Trees	Area Rented to Others	Area Unusable	Area of Uncultivated Usable Land	Total area (ha)
Monduli	13,977	33,836	325	268	108	36,270	10,550	1	.	217	1,829	2,892	100,274
Arusha	1,128	3,033	95	209	15	207	69	22	35	121	22	.	4,954
Karatu	13,845	17,827	14	244	265	3,191	866	253	280	704	496	1,173	39,157
Ngorongoro	11,772	3,682	29	65	14	1,769	3,085	288	86	187	86	964	22,027
Longido	7,053	2,480	.	99	18	497	620	35	35	29	99	1,357	12,323
Arusha Rural	7,870	27,034	708	882	1,397	2,430	1,076	115	42	109	1,083	554	43,300
Meru	15,958	27,508	3,975	6,193	1,183	2,336	1,536	12	482	346	383	1,272	61,184
Total	71,604	115,400	5,147	7,959	3,001	46,701	17,802	725	959	1,712	3,999	8,211	283,220

CROP OWNERSHIP BY SEX

5.1 Number of Household members owning most of the crop by Sex of the Main Owner and Crop for the agriculture year 2007/08 Short and Long Season - Regional Total

Crop	SHORT RAINY						LONG RAINY					
	Male		Female		Total		Male		Female		Total	
	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %
Maize	23,668	69	10,391	31	34,059	100	107,613	75	36,435	25	144,048	100
Paddy	336	50	336	50	673	100	999	61	637	39	1,635	100
Sorghum	-	-	-	-	-	-	3,606	87	552	13	4,157	100
Finger Millet	119	100	-	-	119	100	1,378	100	-	-	1,378	100
Wheat	318	73	116	27	433	100	3,539	85	623	15	4,162	100
Barley	89	100	-	-	89	100	267	75	89	25	356	100
CEREALS	24,530	69	10,843	31	35,373	100	117,402	75	38,336	25	155,738	100
Cassava	-	-	-	-	-	-	-	-	122	100	122	100
Sweet Potato	487	60	320	40	807	100	838	100	-	-	838	100
Irish potatoes	1,399	86	235	14	1,634	100	1,338	84	258	16	1,595	100
ROOTS & TUBERS	1,886	77	555	23	2,441	100	2,176	85	380	15	2,555	100
Mung Bean	162	74	58	26	220	100	-	-	122	100	122	100
Beans	16,659	68	7,854	32	24,513	100	63,690	69	28,640	31	92,331	100
Cowpeas	247	67	119	33	367	100	3,754	57	2,803	43	6,557	100
Green gram	606	84	119	16	725	100	5,019	63	2,942	37	7,961	100
Chick peas	250	63	148	37	398	100	3,070	75	1,025	25	4,094	100
Field Peas	-	-	-	-	-	-	119	100	-	-	119	100
PULSES	17,924	68	8,299	32	26,223	100	75,652	68	35,532	32	111,185	100
Sunflower	43	60	29	40	72	100	6,397	81	1,456	19	7,853	100
Simsim	-	-	-	-	-	-	71	50	71	50	143	100
Groundnut	-	-	-	-	-	-	-	-	122	100	122	100
Soya Beans	358	75	119	25	478	100	358	60	239	40	597	100
OIL SEEDS & OIL NUTS	401	73	148	27	549	100	6,827	78	1,888	22	8,715	100

Cont. 5.1 Number of Household members owning most of the crop by Sex of the Main Owner and Crop for the agriculture year 2007/08 Short and Long Season - Regional Total

Crop	SHORT RAINY						LONG RAINY					
	Male		Female		Total		Male		Female		Total	
	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %
Okra	287	100	-	-	287	100	361	100	-	-	361	100
Radish	239	100	-	-	239	100	119	51	114	49	233	100
Turmeric	119	100	-	-	119	100	122	100	-	-	122	100
Bitteer Aubergine	693	94	43	6	735	100	483	100	-	-	483	100
Onion	1,481	81	356	19	1,838	100	675	100	-	-	675	100
Cabbage	1,560	85	284	15	1,844	100	480	87	71	13	552	100
Tomatoes	2,977	90	331	10	3,307	100	1,026	79	273	21	1,299	100
Spinach	912	89	114	11	1,025	100	290	47	321	53	611	100
Carrot	793	95	43	5	836	100	122	63	71	37	193	100
Chillies	573	93	43	7	616	100	85	100	-	-	85	100
Amaranths	534	69	241	31	775	100	563	70	241	30	804	100
Cucumber	122	50	122	50	244	100	244	100	-	-	244	100
Egg Plant	165	100	-	-	165	100	43	100	-	-	43	100
FRUITS & VEGETABLES	10,455	87	1,576	13	12,031	100	4,614	81	1,092	19	5,706	100
Cotton	-	-	119	100	119	100	-	-	-	-	-	-
Tobacco	122	81	29	19	151	100	-	-	-	-	-	-
CASH CROPS	122	45	148	55	270	100	-	-	-	-	-	-
Malay	-	-	-	-	-	-	71	100	-	-	71	100
Total	55,318	72	21,570	28	76,888	100	206,742	73	77,228	27	283,970	100

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

District	SHORT RAINY SEASON						LONG RAINY SEASON					
	Male		Female		Total		Male		Female		Total	
	Area (ha)	%	Area (ha)	%	Area (ha)	%	Area (ha)	%	Area (ha)	%	Area (ha)	%
Monduli	3,905	76	1,056	24	4,960	100	32,223	66	11,905	34	44,128	100
Arusha	1,541	90	86	10	1,627	100	3,762	87	318	13	4,080	100
Karatu	2,527	80	307	20	2,834	100	22,789	81	3,987	19	26,776	100
Ngorongoro	597	80	43	20	640	100	11,840	72	2,553	28	14,393	100
Longido	3,939	61	1,839	39	5,778	100	5,138	63	2,006	38	7,144	100
Arusha Rural	6,615	64	3,288	36	9,903	100	22,234	64	9,105	36	31,339	100
Meru	7,175	75	1,079	25	8,254	100	33,235	76	5,866	24	39,101	100
Total	26,299	70	7,698	30	33,997	100	131,221	72	35,740	28	166,961	100

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

District	SHORT RAINY SEASON						LONG RAINY SEASON					
	Male		Female		Total		Male		Female		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Monduli	3,000	76	929	24	3,929	100	14,788	66	7,787	34	22,575	100
Arusha	1,108	90	128	10	1,236	100	2,216	87	341	13	2,557	100
Karatu	3,654	80	891	20	4,545	100	25,755	81	6,238	19	31,993	100
Ngorongoro	853	80	213	20	1,066	100	7,460	72	2,842	28	10,302	100
Longido	2,571	61	1,676	39	4,247	100	3,323	63	1,994	38	5,316	100
Arusha Rural	11,466	64	6,569	36	18,035	100	25,799	64	14,213	36	40,012	100
Meru	8,907	75	2,928	25	11,835	100	31,844	76	9,883	24	41,727	100
Total	31,559	70	13,334	30	44,893	100	111,186	72	43,298	28	154,483	100

CROP PRODUCTION BY DISTRICT

5.4: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short & 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)
Monduli	24,647	29,335	27,652	0.94	857	405	909	2.24	71	43	103	2.37	0	.	.	.
Arusha	3,495	2,700	3,397	1.26	0	.	.	.	0	.	.	.	0	.	.	.
Karatu	32,261	21,162	45,368	2.14	446	198	502	2.53	2,228	507	401	0.79	624	135	150	1
Ngorongoro	10,658	9,498	17,797	1.87	0	.	.	.	1,492	994	1,261	1.27	0	.	.	.
Longido	8,465	6,788	6,162	0.91	29	12	9	0.74	0	.	.	.	144	94	141	1.51
Arusha Rural	51,120	21,587	32,373	1.50	0	.	.	.	0	.	.	.	119	73	72	0.99
Meru	47,462	32,830	76,930	2.34	976	272	851	3.13	366	114	60	0.53	610	321	116	0.36
Total	178,107	123,901	209,678	1.69	2,308	887	2,271	2.56	4,157	1,658	1,825	1.10	1,498	622	478	0.77

Cont. 5.4 : Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08

District	Wheat				Barley				Cassava				Sweet Potato			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Monduli	929	1,330	2,141	2	0	.	.	.	0	.	.	.	0	.	.	.
Arusha	0	.	.	.	0	.	.	.	0	.	.	.	43	4	4	0.99
Karatu	1,515	1,057	1,365	1.29	446	216	259	1	0	.	.	.	446	216	643	2.97
Ngorongoro	0	.	.	.	0	.	.	.	0	.	.	.	284	86	254	2.95
Longido	838	1,193	35	0	0	.	.	.	0	.	.	.	29	5	14	2.47
Arusha Rural	1,314	1,018	1,851	2	0	.	.	.	0	.	.	.	478	118	407	3.43
Meru	0	.	.	.	0	.	.	.	122	20	0	0.00	366	10	5	0.48
Total	4,595	4,599	5,392	1.17	446	216	259	1	122	20	0	0.00	1,645	441	1,328	3.01

Cont. 5.4: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08

District	Wheat				Barley				Cassava				Sweet Potato			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Monduli	929	1,330	2,141	2	0	.	.	.	0	.	.	.	0	.	.	.
Arusha	0	.	.	.	0	.	.	.	0	.	.	.	43	4	4	0.99
Karatu	1,515	1,057	1,365	1.29	446	216	259	1	0	.	.	.	446	216	643	2.97
Ngorongoro	0	.	.	.	0	.	.	.	0	.	.	.	284	86	254	2.95
Longido	838	1,193	35	0	0	.	.	.	0	.	.	.	29	5	14	2.47
Arusha Rural	1,314	1,018	1,851	2	0	.	.	.	0	.	.	.	478	118	407	3.43
Meru	0	.	.	.	0	.	.	.	122	20	0	0.00	366	10	5	0.48
Total	4,595	4,599	5,392	1.17	446	216	259	1	122	20	0	0.00	1,645	441	1,328	3.01

Cont. 5.4 :Number of Agriculture 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)
Monduli	4,001	2,461	1,080	0.44	2,143	1,162	727	1	0	0	0	0	0	.	.	.
Arusha	256	52	40	0.77	554	532	317	0.60	0	0	0	0	0	.	.	.
Karatu	0	.	.	.	89	36	27	0.74	0	0	0	0	0	.	.	.
Ngorongoro	0	.	.	.	0	.	.	.	0	0	0	0	0	.	.	.
Longido	0	.	.	.	29	5	9	1	0	0	0	0	0	.	.	.
Arusha Rural	3,941	1,336	1,123	0.84	1,433	571	562	1	0	0	0	0	119	48	5	0.10
Meru	488	222	45	0.20	244	62	71	1.15	0	0	0	0	0	.	.	.
Total	8,685	4,071	2,289	0.56	4,493	2,368	1,712	1	0	0	0	0	119	48	5	0.10

Cont. 5.4 :Number of Agriculture 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)
Monduli	0	.	.	.	143	376	300	0.80	0	.	.	.				
Arusha	85	17	12	0.68	0	.	.	.	0	.	.	.				
Karatu	3,476	429	354	0.82	0	.	.	.	0	.	.	.				
Ngorongoro	71	29	49	1.70	0	.	.	.	0	.	.	.				
Longido	144	94	77	0.82	0	.	.	.	0	.	.	.	0	.	.	.
Arusha Rural	0	.	.	.	0	.	.	.	0	.	.	.	1,075	206	153	1
Meru	4,148	1,648	695	0	0	.	.	.	122	12	5	0.40	0	.	.	.
Total	7,925	2,217	1,187	0.54	143	376	300	0.80	122	12	5	0.40	1,075	206	153	0.75

Cont. 5.4 :Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08

District	Bitter Aubergine				Okra				Radish				Turmeric			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Monduli	0	.	.	.	0	.	.	.	71	7	1	0.10	0	.	.	.
Arusha	128	22	14	0.67	43	9	2	0.25	43	9	2	0.20	0	.	.	.
Karatu	0	.	.	.	0	.	.	.	0	.	.	.	0	.	.	.
Ngorongoro	0	.	.	.	0	.	.	.	0	.	.	.	0	.	.	.
Longido	0	.	.	.	0	.	.	.	0	.	.	.	0	.	.	.
Arusha Rural	358	121	119	1	239	68	33	0.49	358	106	107	1.01	119	77	12	0.15
Meru	732	121	617	5	366	74	59	0.79	0	.	.	.	122	49	15	0
Total	1,218	263	751	2.85	648	150	94	0.63	472	122	110	0.90	241	127	27	0

Cont. 5.4 :Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08

District	Onion				Cabbage				Tomatoes				Cucumber			
	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)
Monduli	71	14	29	1.98	143	22	290	13.35	143	29	414	14.33				
Arusha	213	43	15	0.36	256	38	16	0.42	85	12	10	0.81				
Karatu	1,961	577	1,586	2.75	0	.	.	.	0	.	.	.				
Ngorongoro	0	.	.	.	71	14	28	1.98	355	43	95	2.20				
Longido	29	47	104	2.22	0	.	.	.	376	170	1,427	8.41	0	.	.	.
Arusha Rural	239	73	191	2.63	1,194	304	2,805	9	597	162	2,066	12.76	0	.	.	.
Meru	0	.	.	.	732	56	1,511	27	3,050	935	14,853	15.48	488	272	1,464	5.39
Total	2,513	754	1,925	2.55	2,396	434	4,649	10.72	4,606	1,351	18,866	13.97	488	272	1,464	5

Cont. 5.4 :Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08

District	Spinach				Carrot				Chillies				Amaranths			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Monduli	143	10	162	16.99	143	12	329	27.05	0	.	.	.				
Arusha	426	78	12	0.16	43	4	1	0.30	213	34	9	0.25	256	26	6	0.23
Karatu	178	6	7	1.24	0	.	.	.	0	.	.	.				
Ngorongoro	284	29	44	1.54	0	.	.	.	0	.	.	.				
Longido	0	.	.	.	0	.	.	.	0	.	.	.				
Arusha Rural	239	40	215	5	478	60	248	4	0	.	.	.	836	35	119	3.42
Meru	366	11	125	11.00	366	99	415	4	488	35	267	8	488	59	184	3.13
Total	1,636	173	565	3.26	1,029	176	993	5.65	701	69	276	3.99	1,580	120	309	2.57

District	Egg Plant				Cotton				Tobacco			
	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)
Monduli												
Arusha												
Karatu												
Ngorongoro												
Longido	85	25	6	0.25	0	.	.	.	29	5	1	0
Arusha Rural	0	.	.	.	119	145	217	1.50	0	.	.	.
Meru	122	49	512	10.37	0	.	.	.	122	74	92	1.24
Total	207	75	519	6.89	119	145	217	1.50	151	80	93	1.16

TOTAL ANNUAL CROP AND VEGETABLE PRODUCTION BY CROPS:

5.5: Number of Crop Growing Households and Area Planted (ha) by Season and District

District	Short Rainy Season		Long Rainy Season		Total area planted (hectare)	% Area planted in short rainy season
	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)		
Monduli	3,929	4,960	21,861	44,128	49,088	10.10
Arusha	1,236	1,627	2,515	4,080	5,708	28.51
Karatu	4,545	2,834	31,904	26,776	29,610	9.57
Ngorongoro	1,066	640	10,089	14,393	15,033	4.26
Longido	4,218	5,778	5,316	7,144	12,923	44.72
Arusha Rural	17,796	9,903	38,937	31,339	41,242	24.01
Meru	11,591	8,254	39,653	39,101	47,355	17.43
Total	44,381	33,997	150,275	166,961	200,958	16.92

5.6: Number of crop growing Households Planting Crops by Season and District

District	Short Rainy Season		Long Rainy Season		Total Number of Crop Growing households
	Number of households Growing Crops	Number of households NOT Growing Crops	Number of households Growing Crops	Number of households NOT Growing Crops	
Monduli	3,929	25,004	21,861	7,073	24,361
Arusha	1,236	1,321	2,515	43	2,557
Karatu	4,545	31,548	31,904	4,189	33,776
Ngorongoro	1,066	27,710	10,089	18,686	10,871
Longido	4,218	7,425	5,316	6,327	6,847
Arusha Rural	17,796	30,576	38,937	9,436	46,701
Meru	11,591	37,701	39,653	9,639	48,560
Total	44,381	161,285	150,275	55,392	173,673

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

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	3,143	2,856	21,504	6,479	24,647	29,335
Paddy	429	246	429	159	857	405
Sorghum	-	.	71	43	71	43
Finger Millet	-	.	-	.	-	.
Wheat	-	.	929	1,330	929	1,330
Barley	-	.	-	.	-	.
CEREALS	3,572	3,102	22,932	28,012	26,504	31,114
Cassava	-	.	-	.	-	.
Sweet Potato	-	.	-	.	-	.
Irish potatoes	-	.	-	.	-	.
ROOTS & TUBERS	-	.	-	.	-	.
Mung Bean	-	.	-	.	-	.
Beans	1,929	1,815	15,431	10,695	17,360	12,510
Cowpeas	-	.	2,715	1,342	2,715	1,342
Green gram	-	.	4,001	2,461	4,001	2,461
Chick peas	-	.	2,143	1,162	2,143	1,162
Field Peas	-	.	-	.	-	.
PULSES	1,929	1,815	24,290	15,661	26,219	17,476
Sunflower	-	.	-	.	-	.
Simsim	-	.	143	376	143	376
Groundnut	-	.	-	.	-	.
Soya Beans	-	.	-	.	-	.
OIL SEEDS & OIL NUTS	-	.	143	376	143	376
Okra	-	.	-	.	-	.
Radish	-	.	71	7	71	7
Turmeric	-	.	-	.	-	.
Bitteer Aubergine	-	.	-	.	-	.
Onion	-	.	71	14	71	14
Cabbage	71	7	71	14	143	22
Tomatoes	143	29	-	.	143	29
Spinach	-	.	143	10	143	10
Carrot	71	7	71	5	143	12
Chillies	-	.	-	.	-	.
Amaranths	-	.	-	.	-	.
Cucumber	-	.	-	.	-	.
Egg Plant	-	.	-	.	-	.
FRUITS & VEGETABLES	286	43	429	51	714	94
Cotton	-	.	-	.	-	.
Tobacco	-	.	-	.	-	.
CASH CROPS	-	.	-	.	-	.
Malay	-	.	71	29	71	29
Total	5,787	4,960	47,865	44,128	53,652	49,088

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

Crop	SHORT RAINY		LONG RAINY		SHORT & LONG SEASON	
	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)
Maize	1,023	720	2,472	1,979	3,495	2,700
Paddy	-	.	-	.	-	.
Sorghum	-	.	-	.	-	.
Finger Millet	-	.	-	.	-	.
Wheat	-	.	-	.	-	.
Barley	-	.	-	.	-	.
CEREALS	1,023	720	2,472	1,979	3,495	2,700
CASSAVA	-	.	-	.	-	.
Sweet Potato	-	.	43	4	43	4
Irish potatoes	-	.	-	.	-	.
ROOTS & TUBERS	-	.	43	4	43	4
Mung Bean	43	9	-	.	43	9
Beans	895	574	2,174	1,386	3,069	1,959
Cowpeas	128	30	213	104	341	135
Green gram	128	30	128	22	256	52
Chick peas	128	47	426	485	554	532
Field Peas	-	.	-	.	-	.
PULSES	1,321	690	2,941	1,996	4,262	2,686
Sunflower	43	9	43	9	85	17
Simsim	-	.	-	.	-	.
Groundnut	-	.	-	.	-	.
Soya Beans	-	.	-	.	-	.
OIL SEEDS & OIL NUTS	43	9	43	9	85	17
Okra	43	9	-	.	43	9
Radish	-	.	43	9	43	9
Turmeric	-	.	-	.	-	.
Bitteer Aubergine	128	22	-	.	128	22
Onion	85	15	128	28	213	43
Cabbage	256	38	-	.	256	38
Tomatoes	85	12	-	.	85	12
Spinach	256	57	170	21	426	78
Carrot	43	4	-	.	43	4
Chillies	128	23	85	11	213	34
Amaranths	170	20	85	6	256	26
Cucumber	-	.	-	.	-	.
Egg Plant	43	9	43	17	85	26
FRUITS & VEGETABLES	1,236	208	554	92	1,790	300
Cotton	-	.	-	.	-	.
Tobacco	-	.	-	.	-	.
CASH CROPS	-	.	-	.	-	.
Malay	-	.	-	.	-	.
Total	3,623	1,627	6,052	4,080	9,675	5,708

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

Crop	SHORT RAINY		LONG RAINY		SHORT & LONG SEASON	
	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)
Maize	1,337	945	30,924	20,218	32,261	21,162
Paddy	-	.	446	198	446	198
Sorghum	-	.	2,228	507	2,228	507
Finger Millet	-	.	624	135	624	135
Wheat	-	.	1,515	1,057	1,515	1,057
Barley	89	36	356	180	446	216
CEREALS	1,426	981	36,093	22,296	37,519	23,277
Cassava	-	.	-	.	-	.
Sweet Potato	446	216	-	.	446	216
Irish potatoes	-	.	-	.	-	.
ROOTS & TUBERS	446	216	-	.	446	216
Mung Bean	-	.	-	.	-	.
Beans	1,604	1,186	10,070	3,331	11,674	4,517
Cowpeas	-	.	1,515	551	1,515	551
Green gram	-	.	-	.	-	.
Chick peas	-	.	89	36	89	36
Field Peas	-	.	-	.	-	.
PULSES	1,604	1,186	11,674	3,918	13,279	5,104
Sunflower	-	.	3,476	429	3,476	429
Simsim	-	.	-	.	-	.
Groundnut	-	.	-	.	-	.
Soya Beans	-	.	-	.	-	.
OIL SEEDS & OIL NUTS	-	.	3,476	429	3,476	429
Okra	-	.	-	.	-	.
Radish	-	.	-	.	-	.
Turmeric	-	.	-	.	-	.
Bitteer Aubergine	-	.	-	.	-	.
Onion	1,604	451	356	126	1,961	577
Cabbage	-	.	-	.	-	.
Tomatoes	-	.	-	.	-	.
Spinach	-	.	178	6	178	6
Carrot	-	.	-	.	-	.
Chillies	-	.	-	.	-	.
Amaranths	-	.	-	.	-	.
Cucumber	-	.	-	.	-	.
Egg Plant	-	.	-	.	-	.
FRUITS & VEGETABLES	1,604	451	535	132	2,139	583
Cotton	-	.	-	.	-	.
Tobacco	-	.	-	.	-	.
CASH CROPS	-	.	-	.	-	.
Malay	-	.	-	.	-	.
Total	5,080	2,834	51,778	26,776	56,857	29,610

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

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	568	449	10,089	9,049	10,658	9,498
Paddy	-	.	-	.	-	.
Sorghum	-	.	1,492	994	1,492	994
Finger Millet	-	.	-	.	-	.
Wheat	-	.	-	.	-	.
Barley	-	.	-	.	-	.
CEREALS	568	449	11,581	10,043	12,150	10,492
Cassava	-	.	-	.	-	.
Sweet Potato	213	72	71	14	284	86
Irish potatoes	-	.	142	20	142	20
ROOTS & TUBERS	213	72	213	35	426	106
Mung Bean	-	.	-	.	-	.
Beans	142	33	6,537	4,258	6,679	4,290
Cowpeas	-	.	71	29	71	29
Green gram	-	.	-	.	-	.
Chick peas	-	.	-	.	-	.
Field Peas	-	.	-	.	-	.
PULSES	142	33	6,608	4,287	6,750	4,319
Sunflower	-	.	71	29	71	29
Simsim	-	.	-	.	-	.
Groundnut	-	.	-	.	-	.
Soya Beans	-	.	-	.	-	.
OIL SEEDS & OIL NUTS	-	.	71	29	71	29
Okra	-	.	-	.	-	.
Radish	-	.	-	.	-	.
Turmeric	-	.	-	.	-	.
Bitteer Aubergine	-	.	-	.	-	.
Onion	-	.	-	.	-	.
Cabbage	71	14	-	.	71	14
Tomatoes	355	43	-	.	355	43
Spinach	284	29	-	.	284	29
Carrot	-	.	-	.	-	.
Chillies	-	.	-	.	-	.
Amaranths	-	.	-	.	-	.
Cucumber	-	.	-	.	-	.
Egg Plant	-	.	-	.	-	.
FRUITS & VEGETABLES	711	86	-	.	711	86
Cotton	-	.	-	.	-	.
Tobacco	-	.	-	.	-	.
CASH CROPS	-	.	-	.	-	.
Malay	-	.	-	.	-	.
Total	1,634	640	18,473	14,393	20,107	15,033

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

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	3,554	2,969	4,912	3,819	8,465	6,788
Paddy	-	.	29	12	29	12
Sorghum	-	.	-	.	-	.
Finger Millet	-	.	144	94	144	94
Wheat	433	597	404	597	838	1,193
Barley	-	.	-	.	-	.
CEREALS	3,987	3,565	5,490	4,521	9,477	8,086
Cassava	-	.	-	.	-	.
Sweet Potato	29	6	-	.	29	6
Irish potatoes	318	228	376	216	693	444
ROOTS & TUBERS	347	234	376	216	722	450
Mung Bean	58	23	-	.	58	23
Beans	2,514	1,760	3,294	2,281	5,807	4,041
Cowpeas	-	.	-	.	-	.
Green gram	-	.	-	.	-	.
Chick peas	29	6	-	.	29	6
Field Peas	-	.	-	.	-	.
PULSES	2,600	1,789	3,294	2,281	5,894	4,070
Sunflower	29	18	116	76	144	94
Simsim	-	.	-	.	-	.
Groundnut	-	.	-	.	-	.
Soya Beans	-	.	-	.	-	.
OIL SEEDS & OIL NUTS	29	18	116	76	144	94
Okra	-	.	-	.	-	.
Radish	-	.	-	.	-	.
Turmeric	-	.	-	.	-	.
Bitteer Aubergine	-	.	-	.	-	.
Onion	29	47	-	.	29	47
Cabbage	-	.	-	.	-	.
Tomatoes	289	120	87	50	376	170
Spinach	-	.	-	.	-	.
Carrot	-	.	-	.	-	.
Chillies	-	.	-	.	-	.
Amaranths	-	.	-	.	-	.
Cucumber	-	.	-	.	-	.
Egg Plant	-	.	-	.	-	.
FRUITS & VEGETABLES	318	167	87	50	404	216
Cotton	-	.	-	.	-	.
Tobacco	29	6	-	.	29	6
CASH CROPS	29	6	-	.	29	6
Malay	-	.	-	.	-	.
Total	7,310	5,778	9,361	7,144	16,671	12,923

5.12: Number of Agriculture Households by Area Planted (ha) and crop for the agriculture year 2007/08 Short and Long Season - Arusha 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	15,527	5,042	35,593	16,545	51,120	21,587
Paddy	-	.	-	.	-	.
Sorghum	-	.	-	.	-	.
Finger Millet	119	73	-	.	119	73
Wheat	-	.	1,314	1,018	1,314	1,018
Barley	-	.	-	.	-	.
CEREALS	15,646	5,115	36,907	17,563	52,553	22,678
Cassava	-	.	-	.	-	.
Sweet Potato	119	24	358	94	478	118
Irish potatoes	1,194	556	956	285	2,150	841
ROOTS & TUBERS	1,314	580	1,314	379	2,628	959
Mung Bean	119	97	-	.	119	97
Beans	12,183	3,032	32,010	10,558	44,192	13,590
Cowpeas	239	53	1,433	515	1,672	568
Green gram	597	157	3,344	1,179	3,941	1,336
Chick peas	119	19	1,314	551	1,433	571
Field Peas	-	.	119	48	119	48
PULSES	13,258	3,357	38,220	12,851	51,478	16,208
Sunflower	-	.	-	.	-	.
Simsim	-	.	-	.	-	.
Groundnut	-	.	-	.	-	.
Soya Beans	478	97	597	109	1,075	206
OIL SEEDS & OIL NUTS	478	97	597	109	1,075	206
Okra	-	.	239	68	239	68
Radish	239	94	119	12	358	106
Turmeric	119	77	-	.	119	77
Bitter Aubergine	119	48	239	73	358	121
Onion	119	24	119	48	239	73
Cabbage	836	195	358	109	1,194	304
Tomatoes	239	75	358	87	597	162
Spinach	119	16	119	24	239	40
Carrot	478	60	-	.	478	60
Chillies	-	.	-	.	-	.
Amaranths	239	18	597	16	836	35
Cucumber	-	.	-	.	-	.
Egg Plant	-	.	-	.	-	.
FRUITS & VEGETABLES	2,508	609	2,150	437	4,658	1,046
Cotton	119	145	-	.	119	145
Tobacco	-	.	-	.	-	.
CASH CROPS	119	145	-	.	119	145
Malay	-	.	-	.	-	.
Total	33,323	9,903	79,188	31,339	112,511	41,242

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

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	8,907	4,707	38,555	28,123	47,462	32,830
Paddy	244	62	732	210	976	272
Sorghum	-	.	366	114	366	114
Finger Millet	-	.	610	321	610	321
Wheat	-	.	-	.	-	.
Barley	-	.	-	.	-	.
CEREALS	9,151	4,769	40,263	28,768	49,414	33,537
Cassava	-	.	122	20	122	20
Sweet Potato	-	.	366	10	366	10
Irish potatoes	122	49	122	25	244	74
ROOTS & TUBERS	122	49	610	54	732	104
Mung Bean	-	.	122	49	122	49
Beans	5,246	2,245	22,816	7,573	28,062	9,819
Cowpeas	-	.	610	67	610	67
Green gram	-	.	488	222	488	222
Chick peas	122	49	122	12	244	62
Field Peas	-	.	-	.	-	.
PULSES	5,368	2,294	24,158	7,924	29,526	10,219
Sunflower	-	.	4,148	1,648	4,148	1,648
Simsim	-	.	-	.	-	.
Groundnut	-	.	122	12	122	12
Soya Beans	-	.	-	.	-	.
OIL SEEDS & OIL NUTS	-	.	4,270	1,661	4,270	1,661
Okra	244	62	122	12	366	74
Radish	-	.	-	.	-	.
Turmeric	-	.	122	49	122	49
Bitter Aubergine	488	86	244	35	732	121
Onion	-	.	-	.	-	.
Cabbage	610	32	122	25	732	56
Tomatoes	2,196	658	854	277	3,050	935
Spinach	366	11	-	.	366	11
Carrot	244	49	122	49	366	99
Chillies	488	35	-	.	488	35
Amaranths	366	9	122	49	488	59
Cucumber	244	74	244	198	488	272
Egg Plant	122	49	-	.	122	49
FRUITS & VEGETABLES	5,368	1,067	1,952	694	7,321	1,761
Cotton	-	.	-	.	-	.
Tobacco	122	74	-	.	122	74
CASH CROPS	122	74	-	.	122	74
Malay	-	.	-	.	-	.
Total	20,132	8,254	71,253	39,101	91,385	47,355

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

Crop	SHORT RAINY			LONG RAINY			SHORT & LONG RAINY SEASON		
	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Maize	2,856	4,859	1.7	26,479	22,793	0.9	29,335	27,652	0.9
Paddy	246	398	1.6	159	511	3.2	405	909	2.2
Sorghum	.	.	.	43	103	2.4	43	103	2.4
Finger Millet	.	.	.	.	.	.	.	.	.
Wheat	.	.	.	1,330	2,141	1.6	1,330	2,141	1.6
Barley	.	.	.	.	.	.	.	.	.
CEREALS	3,102	5,257	1.7	28,012	25,547	0.9	31,114	30,805	1.0
Cassava	.	.	.	.	.	.	.	.	.
Sweet Potato	.	.	.	.	.	.	.	.	.
Irish potatoes	.	.	.	.	.	.	.	.	.
ROOTS & TUBERS	.	.	.	.	.	.	.	.	.
Mung Bean	.	.	.	.	.	.	.	.	.
Beans	1,815	1,102	0.6	10,695	4,296	0.4	12,510	5,397	0.4
Cowpeas	.	.	.	1,342	542	0.4	1,342	542	0.4
Green gram	.	.	.	2,461	1,080	0.4	2,461	1,080	0.4
Chick peas	.	.	.	1,162	727	0.6	1,162	727	0.6
Field Peas	.	.	.	.	.	.	.	.	.
PULSES	1,815	1,102	0.6	15,661	6,645	0.4	17,476	7,747	0.4
Sunflower	.	.	.	.	.	.	.	.	.
Simsim	.	.	.	376	300	0.8	376	300	0.8
Groundnut	.	.	.	.	.	.	.	.	.
Soya Beans	.	.	.	.	.	.	.	.	.
OIL SEEDS & OIL NUTS	.	.	.	376	300	0.8	376	300	0.8
Okra	.	.	.	.	.	.	.	.	.
Radish	.	.	.	7	1	0.1	7	1	0.1
Turmeric	.	.	.	.	.	.	.	.	.
Bitteer	.	.	.	.	.	.	.	.	.
Aubergine	.	.	.	.	.	.	.	.	.
Onion	.	.	.	14	29	2.0	14	29	2.0
Cabbage	7	145	20.1	14	145	10.0	22	290	13.4
Tomatoes	29	414	14.3	.	.	.	29	414	14.3
Spinach	.	.	.	10	162	17.0	10	162	17.0
Carrot	7	181	25.0	5	147	30.0	12	329	27.0
Chillies	.	.	.	.	.	.	.	.	.
Amaranths	.	.	.	.	.	.	.	.	.
Cucumber	.	.	.	.	.	.	.	.	.
Egg Plant	.	.	.	.	.	.	.	.	.
FRUITS & VEGETABLES	43	740	17.1	51	484	9.6	94	1,224	13.0
Cotton	.	.	.	.	.	.	.	.	.
Tobacco	.	.	.	.	.	.	.	.	.
CASH CROPS	.	.	.	.	.	.	.	.	.
Malay	.	.	.	29	11	0.4	29	11	0.4
Total	4,960	7,099	1.4	44,128	32,988	0.7	49,088	40,087	0.8

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

Crop	SHORT RAINY			LONG RAINY			SHORT & LONG RAINY SEASON		
	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Maize	720	667	0.9	1,979	2,730	1.4	2,700	3,397	1.3
Paddy	.	.	.	.	.	.	.	.	.
Sorghum	.	.	.	.	.	.	.	.	.
Finger Millet	.	.	.	.	.	.	.	.	.
Wheat	.	.	.	.	.	.	.	.	.
Barley	.	.	.	.	.	.	.	.	.
CEREALS	720	667	0.9	1,979	2,730	1.4	2,700	3,397	1.3
Cassava	.	.	.	.	.	.	.	.	.
Sweet Potato	.	.	.	4	4.26	0.99	4	4	0.99
Irish potatoes	.	.	.	.	.	.	.	.	.
ROOTS & TUBERS	.	.	.	4	4	1.0	4	4	1.0
Mung Bean	9	4	0.5	.	.	.	9	4	0.5
Beans	574	361	0.6	1,386	1,030	0.7	1,959	1,391	0.7
Cowpeas	30	9	0.3	104	57	0.5	135	65	0.5
Green gram	30	5	0.2	22	35	1.6	52	40	0.8
Chick peas	47	34	0.7	485	283	0.6	532	317	0.6
Field Peas	.	.	.	.	.	.	.	.	.
PULSES	690	413	0.6	1,996	1,404	0.7	2,686	1,818	0.7
Sunflower	9	8	0.9	9	4	0.4	17	12	0.7
Simsim	.	.	.	.	.	.	.	.	.
Groundnut	.	.	.	.	.	.	.	.	.
Soya Beans	.	.	.	.	.	.	.	.	.
OIL SEEDS & OIL NUTS	9	8	0.9	9	4	0.4	17	12	0.7
Okra	9	2	0.2	.	.	.	9	2	0.2
Radish	.	.	.	9	2	0.2	9	2	0.2
Turmeric	.	.	.	.	.	.	.	.	.
Bitteer Aubergine	22	14	0.7	.	.	.	22	14	0.7
Onion	15	9	0.6	28	6	0.2	43	15	0.4
Cabbage	38	16	0.4	.	.	.	38	16	0.4
Tomatoes	12	10	0.8	.	.	.	12	10	0.8
Spinach	57	8	0.1	21	4	0.2	78	12	0.2
Carrot	4	1	0.3	.	.	.	4	1	0.3
Chillies	23	6	0.3	11	3	0.2	34	9	0.2
Amaranths	20	4	0.2	6	2	0.3	26	6	0.2
Cucumber	.	.	.	.	.	.	.	.	.
Egg Plant	9	4	0.5	17	2	0.1	26	6	0.2
FRUITS & VEGETABLES	208	76	0.4	92	18	0.2	300	94	0.3
Cotton	.	.	.	.	.	.	.	.	.
Tobacco	.	.	.	.	.	.	.	.	.
CASH CROPS	.	.	.	.	.	.	.	.	.
Malay	.	.	.	.	.	.	.	.	.
Total	1,627	1,164	0.7	4,080	4,160	1.0	5,708	5,324	0.9

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

Crop	SHORT RAINY			LONG RAINY			SHORT & LONG RAINY SEASON		
	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Maize	945	2,280	2.4	20,218	43,088	2.1	21,162	45,368	2.1
Paddy	.	.	.	198	502	2.5	198	502	2.5
Sorghum	.	.	.	507	401	0.8	507	401	0.8
Finger Millet	.	.	.	135	150	1.1	135	150	1.1
Wheat	.	.	.	1,057	1,365	1.3	1,057	1,365	1.3
Barley	36	13	0.4	180	246	1.4	216	259	1.2
CEREALS	981	2,293	2.3	22,296	45,752	2.1	23,277	48,045	2.1
Cassava	.	.	.	.	.	.	.	.	.
Sweet Potato	216	643	2.97	.	.	.	216	643	2.97
Irish potatoes	.	.	.	.	.	.	.	.	.
ROOTS & TUBERS	216	643	3.0	.	.	.	216	643	3.0
Mung Bean	.	.	.	.	.	.	.	.	.
Beans	1,186	228	0.2	3,331	2,309	0.7	4,517	2,537	0.6
Cowpeas	.	.	.	551	370	0.7	551	370	0.7
Green gram	.	.	.	.	.	.	.	.	.
Chick peas	.	.	.	36	27	0.7	36	27	0.7
Field Peas	.	.	.	.	.	.	.	.	.
PULSES	1,186	228	0.2	3,918	2,706	0.7	5,104	2,934	0.6
Sunflower	.	.	.	429	354	0.8	429	354	0.8
Simsim	.	.	.	.	.	.	.	.	.
Groundnut	.	.	.	.	.	.	.	.	.
Soya Beans	.	.	.	.	.	.	.	.	.
OIL SEEDS & OIL NUTS	.	.	.	429	354	0.8	429	354	0.8
Okra	.	.	.	.	.	.	.	.	.
Radish	.	.	.	.	.	.	.	.	.
Turmeric	.	.	.	.	.	.	.	.	.
Bitteer Aubergine	.	.	.	.	.	.	.	.	.
Onion	451	926	2.1	126	660	5.2	577	1,586	2.7
Cabbage	.	.	.	.	.	.	.	.	.
Tomatoes	.	.	.	.	.	.	.	.	.
Spinach	.	.	.	6	7	1.2	6	7	1.2
Carrot	.	.	.	.	.	.	.	.	.
Chillies	.	.	.	.	.	.	.	.	.
Amaranths	.	.	.	.	.	.	.	.	.
Cucumber	.	.	.	.	.	.	.	.	.
Egg Plant	.	.	.	.	.	.	.	.	.
FRUITS & VEGETABLES	451	926	2.1	132	667	5.1	583	1,594	2.7
Cotton	.	.	.	.	.	.	.	.	.
Tobacco	.	.	.	.	.	.	.	.	.
CASH CROPS	.	.	.	.	.	.	.	.	.
Malay	.	.	.	.	.	.	.	.	.
Total	2,834	4,091	1.4	26,776	49,479	1.8	29,610	53,570	1.8

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

Crop	SHORT RAINY			LONG RAINY			SHORT & LONG RAINY SEASON		
	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Maize	449	522	1.2	9,049	17,275	1.9	9,498	17,797	1.9
Paddy	.	.	.	.	.	.	.	.	.
Sorghum	.	.	.	994	1,261	1.3	994	1,261	1.3
Finger Millet	.	.	.	.	.	.	.	.	.
Wheat	.	.	.	.	.	.	.	.	.
Barley	.	.	.	.	.	.	.	.	.
CEREALS	449	522	1.2	10,043	18,536	1.8	10,492	19,058	1.8
Cassava	.	.	.	.	.	.	.	.	.
Sweet Potato	72	233	3.24	14	21.32	1.48	86	254	2.95
Irish potatoes	.	.	.	20	36	1.8	20	36	1.8
ROOTS & TUBERS	72	233	3.2	35	58	1.7	106	290	2.7
Mung Bean	.	.	.	.	.	.	.	.	.
Beans	33	50	1.5	4,258	3,469	0.8	4,290	3,519	0.8
Cowpeas	.	.	.	29	30	1.0	29	30	1.0
Green gram	.	.	.	.	.	.	.	.	.
Chick peas	.	.	.	.	.	.	.	.	.
Field Peas	.	.	.	.	.	.	.	.	.
PULSES	33	50	1.5	4,287	3,499	0.8	4,319	3,549	0.8
Sunflower	.	.	.	29	49	1.7	29	49	1.7
Simsim	.	.	.	.	.	.	.	.	.
Groundnut	.	.	.	.	.	.	.	.	.
Soya Beans	.	.	.	.	.	.	.	.	.
OIL SEEDS & OIL NUTS	.	.	.	29	49	1.7	29	49	1.7
Okra	.	.	.	.	.	.	.	.	.
Radish	.	.	.	.	.	.	.	.	.
Turmeric	.	.	.	.	.	.	.	.	.
Bitteer Aubergine	.	.	.	.	.	.	.	.	.
Onion	.	.	.	.	.	.	.	.	.
Cabbage	14	28	2.0	.	.	.	14	28	2.0
Tomatoes	43	95	2.2	.	.	.	43	95	2.2
Spinach	29	44	1.5	.	.	.	29	44	1.5
Carrot	.	.	.	.	.	.	.	.	.
Chillies	.	.	.	.	.	.	.	.	.
Amaranths	.	.	.	.	.	.	.	.	.
Cucumber	.	.	.	.	.	.	.	.	.
Egg Plant	.	.	.	.	.	.	.	.	.
FRUITS & VEGETABLES	86	168	1.9	.	.	.	86	168	1.9
Cotton	.	.	.	.	.	.	.	.	.
Tobacco	.	.	.	.	.	.	.	.	.
CASH CROPS	.	.	.	.	.	.	.	.	.
Malay	.	.	.	.	.	.	.	.	.
Total	640	973	1.5	14,393	22,141	1.5	15,033	23,114	1.5

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

Crop	SHORT RAINY			LONG RAINY			SHORT & LONG RAINY SEASON		
	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Maize	2,969	1,997	0.7	3,819	4,165	1.1	6,788	6,162	0.9
Paddy	.	.	.	12	9	0.7	12	9	0.7
Sorghum	.	.	.	.	.	.	.	.	.
Finger Millet	.	.	.	94	141	1.5	94	141	1.5
Wheat	597	6	0.0	597	29	0.0	1,193	35	0.0
Barley	.	.	.	.	.	.	.	.	.
CEREALS	3,565	2,003	0.6	4,521	4,344	1.0	8,086	6,347	0.8
Cassava	.	.	.	.	.	.	.	.	.
Sweet Potato	6	14	2.47	.	.	.	6	14	2.47
Irish potatoes	228	719	3.2	216	211	1.0	444	931	2.1
ROOTS & TUBERS	234	734	3.1	216	211	1.0	450	945	2.1
Mung Bean	23	3	0.1	.	.	.	23	3	0.1
Beans	1,760	1,415	0.8	2,281	1,973	0.9	4,041	3,389	0.8
Cowpeas	.	.	.	.	.	.	.	.	.
Green gram	.	.	.	.	.	.	.	.	.
Chick peas	6	9	1.5	.	.	.	6	9	1.5
Field Peas	.	.	.	.	.	.	.	.	.
PULSES	1,789	1,427	0.8	2,281	1,973	0.9	4,070	3,400	0.8
Sunflower	18	19	1.1	76	58	0.8	94	77	0.8
Simsim	.	.	.	.	.	.	.	.	.
Groundnut	.	.	.	.	.	.	.	.	.
Soya Beans	.	.	.	.	.	.	.	.	.
OIL SEEDS & OIL NUTS	18	19	1.1	76	58	0.8	94	77	0.8
Okra	.	.	.	.	.	.	.	.	.
Radish	.	.	.	.	.	.	.	.	.
Turmeric	.	.	.	.	.	.	.	.	.
Bitteer Aubergine	.	.	.	.	.	.	.	.	.
Onion	47	104	2.2	.	.	.	47	104	2.2
Cabbage	.	.	.	.	.	.	.	.	.
Tomatoes	120	1,398	11.7	50	29	0.6	170	1,427	8.4
Spinach	.	.	.	.	.	.	.	.	.
Carrot	.	.	.	.	.	.	.	.	.
Chillies	.	.	.	.	.	.	.	.	.
Amaranths	.	.	.	.	.	.	.	.	.
Cucumber	.	.	.	.	.	.	.	.	.
Egg Plant	.	.	.	.	.	.	.	.	.
FRUITS & VEGETABLES	167	1,502	9.0	50	29	0.6	216	1,531	7.1
Cotton	.	.	.	.	.	.	.	.	.
Tobacco	6	1	0.2	.	.	.	6	1	0.2
CASH CROPS	6	1	0.2	.	.	.	6	1	0.2
Malay	.	.	.	.	.	.	.	.	.
Total	5,778	5,686	1.0	7,144	6,616	0.9	12,923	12,302	1.0

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

Crop	SHORT RAINY			LONG RAINY			SHORT & LONG RAINY SEASON		
	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Maize	5,042	9,469	1.9	16,545	22,904	1.4	21,587	32,373	1.5
Paddy	.	.	.	.	.	.	.	.	.
Sorghum	.	.	.	.	.	.	.	.	.
Finger Millet	73	72	1.0	.	.	.	73	72	1.0
Wheat	.	.	.	1,018	1,851	1.8	1,018	1,851	1.8
Barley	.	.	.	.	.	.	.	.	.
CEREALS	5,115	9,540	1.9	17,563	24,756	1.4	22,678	34,296	1.5
Cassava	.	.	.	.	.	.	.	.	.
Sweet Potato	24	24	0.99	94	382.80	4.06	118	407	3.43
Irish potatoes	556	1,199	2.2	285	1,386	4.9	841	2,585	3.1
ROOTS & TUBERS	580	1,223	2.1	379	1,769	4.7	959	2,992	3.1
Mung Bean	97	60	0.6	.	.	.	97	60	0.6
Beans	3,032	5,535	1.8	10,558	10,163	1.0	13,590	15,698	1.2
Cowpeas	53	18	0.3	515	162	0.3	568	180	0.3
Green gram	157	430	2.7	1,179	694	0.6	1,336	1,123	0.8
Chick peas	19	6	0.3	551	556	1.0	571	562	1.0
Field Peas	.	.	.	48	5	0.1	48	5	0.1
PULSES	3,357	6,048	1.8	12,851	11,580	0.9	16,208	17,628	1.1
Sunflower	.	.	.	.	.	.	.	.	.
Simsim	.	.	.	.	.	.	.	.	.
Groundnut	.	.	.	.	.	.	.	.	.
Soya Beans	97	98	1.0	109	56	0.5	206	153	0.7
OIL SEEDS & OIL NUTS	97	98	1.0	109	56	0.5	206	153	0.7
Okra	.	.	.	68	33	0.5	68	33	0.5
Radish	94	84	0.9	12	24	2.0	106	107	1.0
Turmeric	77	12	0.2	.	.	.	77	12	0.2
Bitter Aubergine	48	36	0.7	73	84	1.2	121	119	1.0
Onion	24	155	6.4	48	36	0.7	73	191	2.6
Cabbage	195	1,756	9.0	109	1,049	9.6	304	2,805	9.2
Tomatoes	75	788	10.5	87	1,278	14.7	162	2,066	12.8
Spinach	16	48	3.0	24	167	6.9	40	215	5.4
Carrot	60	248	4.1	.	.	.	60	248	4.1
Chillies	.	.	.	.	.	.	.	.	.
Amaranths	18	36	2.0	16	83	5.1	35	119	3.4
Cucumber	.	.	.	.	.	.	.	.	.
Egg Plant	.	.	.	.	.	.	.	.	.
FRUITS & VEGETABLES	609	3,163	5.2	437	2,754	6.3	1,046	5,917	5.7
Cotton	145	217	1.5	.	.	.	145	217	1.5
Tobacco	.	.	.	.	.	.	.	.	.
CASH CROPS	145	217	1.5	.	.	.	145	217	1.5
Malay	.	.	.	.	.	.	.	.	.
Total	9,903	20,290	2.0	31,339	40,913	1.3	41,242	61,203	1.5

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

Crop	SHORT RAINY			LONG RAINY			SHORT & LONG RAINY SEASON		
	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Maize	4,707	9,862	2.1	28,123	67,068	2.4	32,830	76,930	2.3
Paddy	62	174	2.8	210	677	3.2	272	851	3.1
Sorghum	.	.	.	114	60	0.5	114	60	0.5
Finger Millet	.	.	.	321	116	0.4	321	116	0.4
Wheat	.	.	.	.	.	.	.	.	.
Barley	.	.	.	.	.	.	.	.	.
CEREALS	4,769	10,036	2.1	28,768	67,920	2.4	33,537	77,957	2.3
Cassava	.	.	.	20	-	-	20	-	-
Sweet Potato	.	.	.	10	4.76	0.48	10	5	0.48
Irish potatoes	49	420	8.5	25	24	1.0	74	444	6.0
ROOTS & TUBERS	49	420	8.5	54	29	0.5	104	449	4.3
Mung Bean	.	.	.	49	878	17.8	49	878	17.8
Beans	2,245	3,901	1.7	7,573	15,829	2.1	9,819	19,730	2.0
Cowpeas	.	.	.	67	60	0.9	67	60	0.9
Green gram	.	.	.	222	45	0.2	222	45	0.2
Chick peas	49	61	1.2	12	10	0.8	62	71	1.1
Field Peas	.	.	.	.	.	.	.	.	.
PULSES	2,294	3,962	1.7	7,924	16,823	2.1	10,219	20,784	2.0
Sunflower	.	.	.	1,648	695	0.4	1,648	695	0.4
Simsim	.	.	.	.	.	.	.	.	.
Groundnut	.	.	.	12	5	0.4	12	5	0.4
Soya Beans	.	.	.	.	.	.	.	.	.
OIL SEEDS & OIL NUTS	.	.	.	1,661	700	0.4	1,661	700	0.4
Okra	62	49	0.8	12	10	0.8	74	59	0.8
Radish	.	.	.	.	.	.	.	.	.
Turmeric	.	.	.	49	15	0.3	49	15	0.3
Bitteer Aubergine	86	434	5.0	35	183	5.3	121	617	5.1
Onion	.	.	.	.	.	.	.	.	.
Cabbage	32	535	16.9	25	976	39.5	56	1,511	26.8
Tomatoes	658	9,640	14.6	277	5,214	18.8	935	14,853	15.9
Spinach	11	125	11.0	.	.	.	11	125	11.0
Carrot	49	98	2.0	49	317	6.4	99	415	4.2
Chillies	35	267	7.6	.	.	.	35	267	7.6
Amaranths	9	111	11.8	49	73	1.5	59	184	3.1
Cucumber	74	390	5.3	198	1,074	5.4	272	1,466	5.4
Egg Plant	49	512	10.4	.	.	.	49	512	10.4
FRUITS & VEGETABLES	1,067	12,161	11.4	694	7,861	11.3	1,761	20,022	11.4
Cotton	.	.	.	.	.	.	.	.	.
Tobacco	74	92	1.2	.	.	.	74	92	1.2
CASH CROPS	74	92	1.2	.	.	.	74	92	1.2
Malay	.	.	.	.	.	.	.	.	.
Total	8,254	26,670	3.2	39,101	93,333	2.4	47,355	120,004	2.5

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

Crop	SHORT RAINY			LONG RAINY			SHORT & LONG RAINY SEASON		
	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Maize	17,689	29,656	1.7	106,212	180,022	1.7	123,901	209,678	1.7
Paddy	308	572	1.9	579	1,699	2.9	887	2,271	2.6
Sorghum	.	.	.	1,658	1,825	1.1	1,658	1,825	1.1
Finger Millet	73	72	1.0	550	407	0.7	622	478	0.8
Wheat	597	6	0.0	4,002	5,386	1.3	4,599	5,392	1.2
Barley	36	13	0.4	180	246	1.4	216	259	1.2
CEREALS	18,702	30,319	1.6	113,182	189,585	1.7	131,883	219,903	1.7
Cassava	.	.	.	20	-	-	20	-	-
Sweet Potato	318	915	2.87	123	413.14	3.36	441	1,328	3.01
Irish potatoes	834	2,338	2.8	546	1,658	3.0	1,380	3,996	2.9
ROOTS & TUBERS	,152	3,253	2.8	689	2,071	3.0	1,841	5,324	2.9
Mung Bean	129	67	0.5	49	878	17.8	178	945	5.3
Beans	10,644	12,592	1.2	40,082	39,069	1.0	50,726	51,661	1.0
Cowpeas	83	27	0.3	2,608	1,221	0.5	2,691	1,248	0.5
Green gram	187	435	2.3	3,884	1,854	0.5	4,071	2,289	0.6
Chick peas	122	110	0.9	2,246	1,602	0.7	2,368	1,712	0.7
Field Peas	.	.	.	48	5	0.1	48	5	0.1
PULSES	11,164	13,230	1.2	48,918	44,630	0.9	60,082	57,860	1.0
Sunflower	26	27	1.0	2,191	1,160	0.5	2,217	1,187	0.5
Simsim	.	.	.	376	300	0.8	376	300	0.8
Groundnut	.	.	.	12	5	0.4	12	5	0.4
Soya Beans	97	98	1.0	109	56	0.5	206	153	0.7
OIL SEEDS & OIL NUTS	123	125	1.0	2,688	1,520	0.6	2,811	1,645	0.6
Okra	70	51	0.7	80	43	0.5	150	94	0.6
Radish	94	84	0.9	28	26	0.9	122	110	0.9
Turmeric	77	12	0.2	49	15	0.3	127	27	0.2
Bitteer Aubergine	156	485	3.1	107	267	2.5	263	751	2.9
Onion	537	1,195	2.2	218	730	3.4	754	1,925	2.6
Cabbage	286	2,480	8.7	148	2,169	14.7	434	4,649	10.7
Tomatoes	937	12,345	13.2	413	6,520	15.8	1,351	18,866	14.0
Spinach	113	226	2.0	60	340	5.7	173	566	3.3
Carrot	121	528	4.4	54	465	8.6	176	993	5.7
Chillies	58	273	4.7	11	3	0.2	69	276	4.0
Amaranths	48	151	3.2	72	158	2.2	120	309	2.6
Cucumber	74	390	5.3	198	1,074	5.4	272	1,464	5.4
Egg Plant	58	517	8.9	17	2	0.1	75	519	6.9
FRUITS & VEGETABLES	2,631	18,737	7.1	1,456	11,812	8.1	4,087	30,549	7.5
Cotton	145	217	1.5	.	.	.	145	217	1.5
Tobacco	80	93	1.2	.	.	.	80	93	1.2
Malay	.	.	.	9	11	0.4	29	11	0.4
CASH CROPS	225	310	1.4	.	.	.	225	310	1.4
Total	33,997	65,973	2	166,961	249,630.10	1	200,958	315,603	1.57

5.22: Number of households Storing Crops by Season and District

District	SHORT RAINY SEASON					LONG RAINY SEASON					SHORT & LONG SEASON				
	Number of households storing crops	%	Number of households not storing crops	%	Total	Number of households storing crops	%	Number of households not storing crops	%	Total	Number of households storing crops	%	Number of households not storing crops	%	Total
Monduli	2,786	71	1,143	29	3,929	19,360	89	2,500	11	21,861	22,147	86	3,643	14	25,790
Arusha	938	76	298	24	1,236	2,344	93	170	7	2,515	3,282	88	469	13	3,751
Karatu	2,317	51	2,228	49	4,545	30,924	97	980	3	31,904	33,241	91	3,208	9	36,449
Ngorongoro	639	60	426	40	1,066	9,876	98	213	2	10,089	10,515	94	639	6	11,155
Longido	2,745	65	1,473	35	4,218	3,612	68	1,705	32	5,316	6,356	67	3,178	33	9,534
Arusha Rural	15,646	88	2,150	12	17,796	37,026	95	1,911	5	38,937	52,673	93	4,061	7	56,733
Meru	9,395	81	2,196	19	11,591	35,871	90	3,782	10	39,653	45,265	88	5,978	12	51,244
Total	34,466	78	9,915	22	44,381	139,013	93	11,262	7	150,275	173,479	89	21,177	11	194,657

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

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	143	5	357	11	0	0	1357	43	71	2	0	0	1214	39	0	0	3143	100
Paddy	0	0	0	0	0	0	357	83	0	0	0	0	71	17	0	0	429	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
Wheat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CEREALS	143	4	357	10	0	0	1715	48	71	2	0	0	1286	36	0	0	3572	100
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
ROOTS & TUBERS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mung Bean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Beans	0	0	357	19	0	0	1286	67	0	0	0	0	286	15	0	0	1929	100
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
Chick peas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PULSES	0	0	357	19	0	0	1286	67	0	0	0	0	286	15	0	0	1929	100
Sunflower	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Simsim	0	0	0	0	0	0	0	0	0	0	0	0	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
Soya Beans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OIL SEEDS & OIL NUTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Cont. 5.23 : Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season - MONDULI

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aubergine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0	0	0	0	0	0	71	100	0	0	71	100
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	143	100	0	0	143	100
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	71	100	0	0	71	100
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
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
FRUITS & VEGETABLES	0	0	0	0	0	0	0	0	0	0	0	0	286	100	0	0	286	100
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CASH CROPS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Malay	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	143	2	714	12	0	0	3000	52	71	1	0	0	1857	32	0	0	5787	100

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

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	2000	9	3429	16	0	0	12002	56	214	1	143	1	3429	16	286	1	21504	100
Paddy	0	0	0	0	0	0	286	67	0	0	0	0	143	33	0	0	429	100
Sorghum	0	0	0	0	0	0	71	100	0	0	0	0	0	0	0	0	71	100
Finger Millet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wheat	0	0	143	15	0	0	286	31	0	0	0	0	500	54	0	0	929	100
Barley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CEREALS	2000	9	3572	16	0	0	12645	55	214	1	143	1	4072	18	286	1	22932	100
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
ROOTS & TUBERS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mung Bean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Beans	929	6	1786	12	71	0	8216	53	143	1	0	0	4215	27	71	0	15431	100
Cowpeas	143	5	714	26	0	0	1143	42	71	3	0	0	429	16	214	8	2715	100
Green gram	0	0	357	9	0	0	2429	61	0	0	0	0	500	13	714	18	4001	100
Chick peas	0	0	714	33	0	0	1286	60	0	0	0	0	71	3	71	3	2143	100
Field Peas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PULSES	1072	4	3572	15	71	0	13074	54	214	1	0	0	5215	21	1072	4	24290	100
Sunflower	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Simsim	0	0	0	0	0	0	143	100	0	0	0	0	0	0	0	0	143	100
Groundnut	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Soya Beans	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	143	100	0	0	0	0	0	0	0	0	143	100

Cont. 5.24 : Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season - MONDULI

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	71	100	0	0	0	0	0	0	0	0	71	100
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	71	100	0	0	71	100
Cabbage	0	0	0	0	0	0	0	0	0	0	0	0	71	100	0	0	71	100
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	143	100	0	0	143	100
Carrot	0	0	0	0	0	0	0	0	0	0	0	0	71	100	0	0	71	100
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
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
FRUITS & VEGETABLES	0	0	0	0	0	0	71	17	0	0	0	0	357	83	0	0	429	100
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CASH CROPS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Malay	0	0	0	0	0	0	71	100	0	0	0	0	0	0	0	0	71	100
Total	3072	6	7144	15	71	0	26004	54	429	1	143	0	9644	20	1357	3	47865	100

5.25: Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season, ARUSHA

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	128	13	0	0	0	0	511	50	213	21	0	0	170	17	0	0	1023	100
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
Wheat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CEREALS	128	13	0	0	0	0	511	50	213	21	0	0	170	17	0	0	1023	100
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
ROOTS & TUBERS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mung Bean	0	0	0	0	0	0	0	0	0	0	0	0	43	100	0	0	43	100
Beans	128	14	0	0	0	0	384	43	128	14	0	0	256	29	0	0	895	100
Cowpeas	0	0	0	0	0	0	0	0	0	0	0	0	128	100	0	0	128	100
Green gram	0	0	0	0	0	0	0	0	0	0	0	0	128	100	0	0	128	100
Chick peas	0	0	0	0	0	0	0	0	0	0	0	0	128	100	0	0	128	100
Field Peas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PULSES	128	10	0	0	0	0	384	29	128	10	0	0	682	52	0	0	1321	100
Sunflower	0	0	0	0	0	0	0	0	43	100	0	0	0	0	0	0	43	100
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
Soya Beans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OIL SEEDS & OIL NUTS	0	0	0	0	0	0	0	0	43	100	0	0	0	0	0	0	43	100

Cont. 5.25 : Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season, ARUSHA

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	43	100	0	0	43	100
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	43	33	0	0	0	0	0	0	0	0	0	0	85	67	0	0	128	100
Onion	0	0	0	0	0	0	0	0	0	0	0	0	85	100	0	0	85	100
Cabbage	0	0	0	0	0	0	0	0	43	17	0	0	213	83	0	0	256	100
Tomatoes	43	50	0	0	0	0	0	0	0	0	0	0	43	50	0	0	85	100
Spinach	0	0	0	0	0	0	0	0	0	0	0	0	256	100	0	0	256	100
Carrot	0	0	0	0	0	0	0	0	0	0	0	0	43	100	0	0	43	100
Chillies	0	0	0	0	0	0	0	0	0	0	0	0	128	100	0	0	128	100
Amaranths	0	0	0	0	0	0	0	0	43	25	0	0	128	75	0	0	170	100
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	43	100	0	0	43	100
FRUITS & VEGETABLES	85	7	0	0	0	0	0	0	85	7	0	0	1065	86	0	0	1236	100
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Malay	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	341	9	0	0	0	0	895	25	469	13	0	0	1918	53	0	0	3623	100

5.26: Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season, ARUSHA

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	128	5	43	2	0	0	1747	71	256	10	43	2	256	10	0	0	2472	100
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
Wheat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CEREALS	128	5	43	2	0	0	1747	71	256	10	43	2	256	10	0	0	2472	100
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	43	100	0	0	43	100
Irish potatoes	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	43	100	0	0	43	100
Mung Bean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Beans	85	4	0	0	0	0	1662	76	170	8	43	2	213	10	0	0	2174	100
Cowpeas	0	0	0	0	0	0	43	20	43	20	0	0	128	60	0	0	213	100
Green gram	0	0	0	0	0	0	43	33	0	0	0	0	85	67	0	0	128	100
Chick peas	0	0	0	0	0	0	256	60	85	20	0	0	85	20	0	0	426	100
Field Peas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PULSES	85	3	0	0	0	0	2003	68	298	10	43	1	511	17	0	0	2941	100
Sunflower	0	0	0	0	0	0	0	0	43	100	0	0	0	0	0	0	43	100
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
Soya Beans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OIL SEEDS & OIL NUTS	0	0	0	0	0	0	0	0	43	100	0	0	0	0	0	0	43	100

Cont. 5.26 : Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season, ARUSHA

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	43	100	0	0	43	100
Turmeric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bitteer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	128	100	0	0	128	100
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	170	100	0	0	170	100
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	85	100	0	0	85	100
Amaranths	0	0	0	0	0	0	0	0	0	0	0	0	85	100	0	0	85	100
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	43	100	0	0	43	100
FRUITS & VEGETABLES	0	0	0	0	0	0	0	0	0	0	0	0	554	100	0	0	554	100
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Malay	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	213	4	43	1	0	0	3751	62	597	10	85	1	1364	23	0	0	6052	100

5.27: Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season, KARATU

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	891	67	0	0	0	0	356	27	0	0	0	0	89	7	0	0	1337	100
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
Wheat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barley	0	0	0	0	0	0	0	0	0	0	0	0	89	100	0	0	89	100
CEREALS	891	63	0	0	0	0	356	25	0	0	0	0	178	13	0	0	1426	100
Cassava	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sweet Potato	89	20	0	0	0	0	178	40	0	0	178	40	0	0	0	0	446	100
Irish potatoes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROOTS & TUBERS	89	20	0	0	0	0	178	40	0	0	178	40	0	0	0	0	446	100
Mung Bean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Beans	178	11	0	0	0	0	713	44	0	0	0	0	713	44	0	0	1604	100
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
Chick peas	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	178	11	0	0	0	0	713	44	0	0	0	0	713	44	0	0	1604	100
Sunflower	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Simsim	0	0	0	0	0	0	0	0	0	0	0	0	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
Soya Beans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OIL SEEDS & OIL NUTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Cont. 5.27 : Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season, KARATU

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	1604	100	0	0	1604	100	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
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
FRUITS & VEGETABLES	0	0	0	0	0	0	0	0	0	0	0	1604	100	0	0	1604	100	0
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Malay	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	1159	23	0	0	0	0	1248	25	0	0	178	4	2495	49	0	0	5080	100

5.28 : Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season, KARATU

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	16576	54	1604	5	178	1	11407	37	0	0	89	0	980	3	89	0	30924	100
Paddy	356	80	0	0	0	0	0	0	0	0	0	0	89	20	0	0	446	100
Sorghum	356	16	0	0	0	0	1515	68	0	0	0	0	356	16	0	0	2228	100
Finger Millet	267	43	0	0	0	0	356	57	0	0	0	0	0	0	0	0	624	100
Wheat	267	18	0	0	0	0	624	41	0	0	0	0	624	41	0	0	1515	100
Barley	0	0	0	0	0	0	178	50	0	0	0	0	178	50	0	0	356	100
CEREALS	17824	49	1604	4	178	0	14081	39	0	0	89	0	2228	6	89	0	36093	100
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
ROOTS & TUBERS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mung Bean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Beans	3208	32	535	5	89	1	3921	39	0	0	0	0	2228	22	89	1	10070	100
Cowpeas	356	24	0	0	0	0	535	35	0	0	0	0	624	41	0	0	1515	100
Green gram	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chick peas	0	0	0	0	0	0	89	100	0	0	0	0	0	0	0	0	89	100
Field Peas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PULSES	3565	31	535	5	89	1	4545	39	0	0	0	0	2852	24	89	1	11674	100
Sunflower	0	0	89	3	0	0	2495	72	0	0	0	0	891	26	0	0	3476	100
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
Soya Beans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OIL SEEDS & OIL NUTS	0	0	89	3	0	0	2495	72	0	0	0	0	891	26	0	0	3476	100

Cont. 5.28 : Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season, KARATU

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	178	50	89	25	0	0	0	0	0	0	0	0	89	25	0	0	356	100
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	178	100	0	0	0	0	178	100
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
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
FRUITS & VEGETABLES	178	33	89	17	0	0	0	0	0	0	178	33	89	17	0	0	535	100
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Malay	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	21567	42	2317	4	267	1	21121	41	0	0	267	1	6060	12	178	0	51778	100

5.29 : Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season, NGORONGORO

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	355	63	0	0	0	0	213	38	0	0	0	0	0	0	0	0	568	100
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
Wheat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CEREALS	355	63	0	0	0	0	213	38	0	0	0	0	0	0	0	0	568	100
Cassava	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sweet Potato	71	33	0	0	0	0	0	0	0	0	0	0	142	67	0	0	213	100
Irish potatoes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROOTS & TUBERS	71	33	0	0	0	0	0	0	0	0	0	0	142	67	0	0	213	100
Mung Bean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Beans	142	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	142	100
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
Chick peas	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	142	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	142	100
Sunflower	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Simsim	0	0	0	0	0	0	0	0	0	0	0	0	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
Soya Beans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OIL SEEDS & OIL NUTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Cont. 5.29 : Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season, NGORONGORO

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aubergine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cabbage	71	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71	100
Tomatoes	71	20	0	0	0	0	0	0	0	0	0	284	80	0	0	0	355	100
Spinach	0	0	0	0	0	0	0	0	0	0	0	284	100	0	0	0	284	100
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
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
FRUITS & VEGETABLES	142	20	0	0	0	0	0	0	0	0	0	568	80	0	0	0	711	100
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Malay	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	711	43	0	0	0	0	213	13	0	0	0	711	43	0	0	0	1634	100

5.30 : Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season, NGORONGORO

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	5400	54	213	2	0	0	4050	40	0	0	71	1	355	4	0	0	10089	100
Paddy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sorghum	995	67	0	0	0	0	355	24	0	0	0	0	142	10	0	0	1492	100
Finger Millet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CEREALS	6395	55	213	2	0	0	4405	38	0	0	71	1	497	4	0	0	11581	100
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	71	100	0	0	71	100
Irish potatoes	142	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	142	100
ROOTS & TUBERS	142	67	0	0	0	0	0	0	0	0	0	0	71	33	0	0	213	100
Mung Bean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Beans	2700	41	142	2	0	0	3410	52	0	0	0	0	284	4	0	0	6537	100
Cowpeas	0	0	0	0	0	0	71	100	0	0	0	0	0	0	0	0	71	100
Green gram	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chick peas	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	2700	41	142	2	0	0	3481	53	0	0	0	0	284	4	0	0	6608	100
Sunflower	0	0	0	0	0	0	71	100	0	0	0	0	0	0	0	0	71	100
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
Soya Beans	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	71	100	0	0	0	0	0	0	0	0	71	100

Cont. 5.30 : Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season, NGORONGORO

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
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
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
FRUITS & VEGETABLES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Malay	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	9237	50	355	2	0	0	7958	43	0	0	71	0	853	5	0	0	18473	100

5.31 : Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season, LONGIDO

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	780	22	29	1	0	0	1242	35	87	2	87	2	1329	37	0	0	3554	100
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
Wheat	0	0	0	0	0	0	29	7	0	0	0	0	404	93	0	0	433	100
Barley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CEREALS	780	20	29	1	0	0	1271	32	87	2	87	2	1734	43	0	0	3987	100
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	29	100	0	0	29	100
Irish potatoes	58	18	0	0	0	0	58	18	0	0	0	0	202	64	0	0	318	100
ROOTS & TUBERS	58	17	0	0	0	0	58	17	0	0	0	0	231	67	0	0	347	100
Mung Bean	0	0	0	0	0	0	29	50	0	0	0	0	29	50	0	0	58	100
Beans	87	3	29	1	0	0	1416	56	29	1	0	0	953	38	0	0	2514	100
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
Chick peas	29	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	100
Field Peas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PULSES	116	4	29	1	0	0	1445	56	29	1	0	0	982	38	0	0	2600	100
Sunflower	29	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	100
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
Soya Beans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OIL SEEDS & OIL NUTS	29	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	100

Cont. 5.31 : Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season, LONGIDO

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	29	100	0	0	0	0	0	0	0	0	29	100
Cabbage	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tomatoes	29	10	0	0	0	0	0	0	0	0	0	0	260	90	0	0	289	100
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
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
FRUITS & VEGETABLES	29	9	0	0	0	0	29	9	0	0	0	0	260	82	0	0	318	100
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	29	100	0	0	0	0	0	0	0	0	29	100
Malay	0	0	0	0	0	0	29	100	0	0	0	0	0	0	0	0	29	100
CASH CROPS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1011	14	58	1	0	0	2831	39	116	2	87	1	3207	44	0	0	7310	100

5.32 : Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season, LONGIDO

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	1011	21	58	1	0	0	1762	36	318	6	58	1	1705	35	0	0	4912	100
Paddy	0	0	0	0	0	0	29	100	0	0	0	0	0	0	0	0	29	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	116	80	0	0	0	0	29	20	0	0	144	100
Wheat	0	0	0	0	0	0	29	7	0	0	0	0	376	93	0	0	404	100
Barley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CEREALS	1011	18	58	1	0	0	1936	35	318	6	58	1	2109	38	0	0	5490	100
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	58	15	0	0	0	0	0	0	0	0	0	0	318	85	0	0	376	100
ROOTS & TUBERS	58	15	0	0	0	0	0	0	0	0	0	0	318	85	0	0	376	100
Mung Bean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Beans	202	6	29	1	0	0	1531	46	0	0	0	0	1531	46	0	0	3294	100
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
Chick peas	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	202	6	29	1	0	0	1531	46	0	0	0	0	1531	46	0	0	3294	100
Sunflower	0	0	0	0	0	0	58	50	0	0	0	0	58	50	0	0	116	100
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
Soya Beans	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	58	50	0	0	0	0	58	50	0	0	116	100

Cont. 5.32 : Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season, LONGIDO

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
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	87	100	0	0	87	100
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
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
FRUITS & VEGETABLES	0	0	0	0	0	0	0	0	0	0	0	0	87	100	0	0	87	100
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Malay	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	1271	14	87	1	0	0	3525	38	318	3	58	1	4103	44	0	0	9361	100

5.33 : Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season, ARUSHA RURAL

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Maize	6450	42	597	4	119	1	5972	38	597	4	0	0	1792	12	0	0	15527	100
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	119	100	0	0	119	100
Wheat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CEREALS	6450	41	597	4	119	1	5972	38	597	4	0	0	1911	12	0	0	15646	100
Cassava	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sweet Potato	119	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	119	100
Irish potatoes	119	10	0	0	0	0	239	20	0	0	119	10	717	60	0	0	1194	100
ROOTS & TUBERS	239	18	0	0	0	0	239	18	0	0	119	9	717	55	0	0	1314	100
Mung Bean	0	0	0	0	0	0	119	100	0	0	0	0	0	0	0	0	119	100
Beans	5375	44	358	3	0	0	4539	37	358	3	0	0	1553	13	0	0	12183	100
Cowpeas	119	50	0	0	0	0	0	0	0	0	0	0	119	50	0	0	239	100
Green gram	0	0	0	0	0	0	478	80	0	0	0	0	119	20	0	0	597	100
Chick peas	0	0	0	0	0	0	0	0	0	0	0	0	119	100	0	0	119	100
Field Peas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PULSES	5494	41	358	3	0	0	5136	39	358	3	0	0	1911	14	0	0	13258	100
Sunflower	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Simsim	0	0	0	0	0	0	0	0	0	0	0	0	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
Soya Beans	119	25	0	0	0	0	358	75	0	0	0	0	0	0	0	0	478	100
OIL SEEDS & OIL NUTS	119	25	0	0	0	0	358	75	0	0	0	0	0	0	0	0	478	100

Cont. 5.33 : Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season, ARUSHA RURAL

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radish	0	0	0	0	0	0	0	0	0	0	0	0	239	100	0	0	239	100
Turmeric	119	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	119	100
Bitteer Aubergine	0	0	0	0	0	0	0	0	0	0	0	0	119	100	0	0	119	100
Onion	0	0	0	0	0	0	0	0	0	0	0	0	119	100	0	0	119	100
Cabbage	239	29	0	0	0	0	0	0	0	0	0	0	597	71	0	0	836	100
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	239	100	0	0	239	100
Spinach	0	0	0	0	0	0	0	0	0	0	0	0	119	100	0	0	119	100
Carrot	0	0	0	0	0	0	0	0	0	0	0	0	478	100	0	0	478	100
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	239	100	0	0	239	100
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
FRUITS & VEGETABLES	358	14	0	0	0	0	0	0	0	0	0	0	2150	86	0	0	2508	100
Cotton	0	0	119	100	0	0	0	0	0	0	0	0	0	0	0	0	119	100
Tobacco	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Malay	0	0	119	100	0	0	0	0	0	0	0	0	0	0	0	0	119	100
CASH CROPS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	12661	38	1075	3	119	0	11705	35	956	3	119	0	6689	20	0	0	33323	100

5.34 : Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season, ARUSHA RURAL

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Maize	12183	34	2269	6	0	0	16960	48	1792	5	0	0	2389	7	0	0	35593	100
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
Wheat	0	0	0	0	0	0	1194	91	0	0	0	0	119	9	0	0	1314	100
Barley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CEREALS	12183	33	2269	6	0	0	18155	49	1792	5	0	0	2508	7	0	0	36907	100
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	119	33	0	0	0	0	239	67	0	0	358	100
Irish potatoes	119	13	0	0	119	13	119	13	119	13	0	0	478	50	0	0	956	100
ROOTS & TUBERS	119	9	0	0	119	9	239	18	119	9	0	0	717	55	0	0	1314	100
Mung Bean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Beans	10033	31	1433	4	0	0	14333	45	1194	4	0	0	5016	16	0	0	32010	100
Cowpeas	358	25	0	0	0	0	717	50	0	0	0	0	358	25	0	0	1433	100
Green gram	1553	46	119	4	0	0	1194	36	119	4	0	0	358	11	0	0	3344	100
Chick peas	239	18	0	0	0	0	956	73	119	9	0	0	0	0	0	0	1314	100
Field Peas	0	0	0	0	0	0	0	0	0	0	0	0	119	100	0	0	119	100
PULSES	12183	32	1553	4	0	0	17199	45	1433	4	0	0	5853	15	0	0	38220	100
Sunflower	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Simsim	0	0	0	0	0	0	0	0	0	0	0	0	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
Soya Beans	358	60	0	0	0	0	0	0	119	20	0	0	119	20	0	0	597	100
OIL SEEDS & OIL NUTS	358	60	0	0	0	0	0	0	119	20	0	0	119	20	0	0	597	100

Cont. 5.34 : Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season, ARUSHA RURAL

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	119	50	0	0	0	0	119	50	0	0	0	0	0	0	0	0	239	100
Radish	0	0	0	0	0	0	0	0	0	0	0	0	119	100	0	0	119	100
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	239	100	0	0	239	100
Onion	0	0	0	0	0	0	0	0	0	0	0	0	119	100	0	0	119	100
Cabbage	119	33	0	0	0	0	0	0	0	0	0	0	239	67	0	0	358	100
Tomatoes	119	33	0	0	0	0	0	0	0	0	0	0	239	67	0	0	358	100
Spinach	0	0	0	0	0	0	0	0	0	0	0	0	119	100	0	0	119	100
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	119	20	0	0	0	0	478	80	0	0	597	100
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
FRUITS & VEGETABLES	358	17	0	0	0	0	239	11	0	0	0	0	1553	72	0	0	2150	100
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Malay	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	25202	32	3822	5	119	0	35832	45	3464	4	0	0	10749	14	0	0	79188	100

5.35 : Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season, MERU

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	1830	21	0	0	0	0	5368	60	976	11	122	1	610	7	0	0	8907	100
Paddy	0	0	0	0	0	0	122	50	0	0	0	0	122	50	0	0	244	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
Wheat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CEREALS	1830	20	0	0	0	0	5490	60	976	11	122	1	732	8	0	0	9151	100
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	122	100	0	0	122	100
ROOTS & TUBERS	0	0	0	0	0	0	0	0	0	0	0	0	122	100	0	0	122	100
Mung Bean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Beans	732	14	0	0	0	0	3294	63	366	7	0	0	732	14	122	2	5246	100
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
Chick peas	0	0	0	0	0	0	0	0	0	0	0	0	122	100	0	0	122	100
Field Peas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PULSES	732	14	0	0	0	0	3294	61	366	7	0	0	854	16	122	2	5368	100
Sunflower	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Simsim	0	0	0	0	0	0	0	0	0	0	0	0	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
Soya Beans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OIL SEEDS & OIL NUTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Cont. 5.35 : Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season, MERU

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	244	100	0	0	244	100
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	488	100	0	0	488	100
Onion	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cabbage	366	60	0	0	0	0	244	40	0	0	0	0	0	0	0	0	610	100
Tomatoes	366	17	0	0	0	0	244	11	0	0	0	0	1586	72	0	0	2196	100
Spinach	244	67	0	0	0	0	0	0	0	0	0	0	122	33	0	0	366	100
Carrot	0	0	0	0	0	0	0	0	122	50	0	0	122	50	0	0	244	100
Chillies	366	75	0	0	0	0	0	0	0	0	0	0	122	25	0	0	488	100
Amaranths	244	67	0	0	0	0	122	33	0	0	0	0	0	0	0	0	366	100
Cucumber	0	0	0	0	0	0	0	0	0	0	0	0	244	100	0	0	244	100
Egg Plant	0	0	0	0	0	0	0	0	0	0	0	0	122	100	0	0	122	100
FRUITS & VEGETABLES	1586	30	0	0	0	0	610	11	122	2	0	0	3050	57	0	0	5368	100
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	122	100	0	0	0	0	0	0	0	0	122	100
Malay	0	0	0	0	0	0	122	100	0	0	0	0	0	0	0	0	122	100
CASH CROPS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	4148	21	0	0	0	0	9517	47	1464	7	122	1	4758	24	122	1	20132	100

5.36 : Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season, MERU

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	5490	14	1708	4	1098	3	19155	50	5856	15	122	0	5124	13	0	0	38555	100
Paddy	0	0	0	0	0	0	488	67	0	0	0	0	244	33	0	0	732	100
Sorghum	122	33	0	0	0	0	122	33	122	33	0	0	0	0	0	0	366	100
Finger Millet	122	20	0	0	0	0	488	80	0	0	0	0	0	0	0	0	610	100
Wheat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CEREALS	5734	14	1708	4	1098	3	20254	50	5978	15	122	0	5368	13	0	0	40263	100
Cassava	0	0	0	0	0	0	0	0	0	0	0	0	122	100	0	0	122	100
Sweet Potato	244	67	0	0	0	0	0	0	0	0	0	0	122	33	0	0	366	100
Irish potatoes	0	0	0	0	0	0	122	100	0	0	0	0	0	0	0	0	122	100
ROOTS & TUBERS	244	40	0	0	0	0	122	20	0	0	0	0	244	40	0	0	610	100
Mung Bean	0	0	0	0	0	0	0	0	0	0	0	0	122	100	0	0	122	100
Beans	2928	13	732	3	366	2	12689	56	1586	7	122	1	4392	19	0	0	22816	100
Cowpeas	122	20	0	0	0	0	488	80	0	0	0	0	0	0	0	0	610	100
Green gram	0	0	0	0	0	0	366	75	122	25	0	0	0	0	0	0	488	100
Chick peas	0	0	0	0	0	0	122	100	0	0	0	0	0	0	0	0	122	100
Field Peas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PULSES	3050	13	732	3	366	2	13665	57	1708	7	122	1	4514	19	0	0	24158	100
Sunflower	976	24	0	0	0	0	1586	38	122	3	0	0	1464	35	0	0	4148	100
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	122	100	0	0	0	0	0	0	0	0	122	100
Soya Beans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OIL SEEDS & OIL NUTS	976	23	0	0	0	0	1708	40	122	3	0	0	1464	34	0	0	4270	100

Cont. 5.36 : Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season, MERU

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	122	100	0	0	0	0	0	0	0	0	122	100
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	122	100	0	0	122	100
Bitteer Aubergine	0	0	0	0	0	0	0	0	0	0	0	0	244	100	0	0	244	100
Onion	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0	0	0	0	0	0	122	100	0	0	122	100
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	854	100	0	0	854	100
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	122	100	0	0	122	100
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	122	100	0	0	122	100
Cucumber	0	0	0	0	0	0	0	0	0	0	0	0	244	100	0	0	244	100
Egg Plant	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	122	6	0	0	0	0	1830	94	0	0	1952	100
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Malay	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	10005	14	2440	3	1464	2	35871	50	7809	11	244	0	13421	19	0	0	71253	100

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

District	Organic Fertilizer Use						% of Planted area using Organic Fertilizer
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area NOT Applied with Organic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Monduli	714	390	3,215	4,570	3,929	4,960	7.9
Arusha	895	998	341	629	1,236	1,627	61.4
Karatu	267	126	4,278	2,708	4,545	2,834	4.5
Ngorongoro	71	29	995	611	1,066	640	4.5
Longido	231	216	3,987	5,562	4,218	5,778	3.7
Arusha Rural	5,972	2,532	11,824	7,371	17,796	9,903	25.6
Meru	1,098	704	10,493	7,550	11,591	8,254	8.5
Total	9,249	4,996	35,133	29,001	44,381	33,997	14.7

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

District	Organic Fertilizer Use						% of Planted area using Organic Fertilizer
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area NOT Applied with Organic Fertilizer	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Monduli	1,429	2,268	20,432	41,860	21,861	44,128	5.1
Arusha	597	785	1,918	3,295	2,515	4,080	19.2
Karatu	4,367	1,883	27,537	24,893	31,904	26,776	7.0
Ngorongoro	71	29	10,018	14,364	10,089	14,393	0.2
Longido	87	406	5,229	6,738	5,316	7,144	5.7
Arusha Rural	11,466	6,911	27,471	24,429	38,937	31,339	22.1
Meru	5,734	3,923	33,919	35,177	39,653	39,101	10.0
Total	23,751	16,205	126,524	150,756	150,275	166,961	9.7

5.39: 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	
Monduli	3,929	329	0	4,631	3,929	4,960	6.6
Arusha	1,236	41	0	1,586	1,236	1,627	2.5
Karatu	4,545	189	0	2,645	4,545	2,834	6.7
Ngorongoro	1,066	14	0	626	1,066	640	2.2
Longido	4,218	1,516	0	4,263	4,218	5,778	26.2
Arusha Rural	17,796	1,262	0	8,641	17,796	9,903	12.7
Meru	11,591	1,806	0	6,448	11,591	8,254	21.9
Total	44,381	5,158	0	28,839	44,381	33,997	15.2

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

District	Inorganic Fertilizer Fertilizer Use						% of Planted area using Inorganic Fertilizer
	Number of Households using Inorganic Fertilizer	Planted Area Applied with Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area NOT Applied with Inorganic Fertilizer	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Monduli	21,861	221	0	43,907	21,861	44,128	0.5
Arusha	2,515	0	0	4,080	2,515	4,080	0.0
Karatu	31,904	584	0	26,192	31,904	26,776	2.2
Ngorongoro	10,089	0	0	14,393	10,089	14,393	0.0
Longido	5,316	722	0	6,422	5,316	7,144	10.1
Arusha Rural	38,937	1,454	0	29,886	38,937	31,339	4.6
Meru	39,653	6,453	0	32,648	39,653	39,101	16.5
Total	150,275	9,433	0	157,528	150,275	166,961	5.7

5.41: 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	
Monduli	714	362	3,215	4,599	3,929	4,960	7.3
Arusha	256	226	980	1,402	1,236	1,627	13.9
Karatu	178	72	4,367	2,762	4,545	2,834	2.5
Ngorongoro	0	0	1,066	640	1,066	640	-
Longido	925	1,234	3,294	4,544	4,218	5,778	21.4
Arusha Rural	1,792	694	16,005	9,209	17,796	9,903	7.0
Meru	2,684	845	8,907	7,409	11,591	8,254	10.2
Total	6,549	3,432	37,833	30,565	44,381	33,997	10.1

5.42: 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	
Monduli	1,143	1,135	20,718	42,993	21,861	44,128	2.6
Arusha	43	35	2,472	4,046	2,515	4,080	0.8
Karatu	1,248	643	30,657	26,133	31,904	26,776	2.4
Ngorongoro	71	58	10,018	14,335	10,089	14,393	0.4
Longido	722	757	4,594	6,387	5,316	7,144	10.6
Arusha Rural	1,553	408	37,384	30,931	38,937	31,339	1.3
Meru	1,708	777	37,945	38,324	39,653	39,101	2.0
Total	6,488	3,813	143,788	163,149	150,275	166,961	2.3

5.43 : 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	
Monduli	714	318	3,215	4,642	3,929	4,960	6.4
Arusha	85	90	1,151	1,537	1,236	1,627	5.5
Karatu	178	72	4,367	2,762	4,545	2,834	2.5
Ngorongoro	71	14	995	626	1,066	640	2.2
Longido	1,271	1,939	2,947	3,840	4,218	5,778	33.6
Arusha Rural	358	73	17,438	9,830	17,796	9,903	0.7
Meru	1,952	1,015	9,639	7,239	11,591	8,254	12.3
Total	4,631	3,521	39,751	30,476	44,381	33,997	10.4

5.44 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	
Monduli	1,357	1,020	20,503	43,108	21,861	44,128	2.3
Arusha	43	17	2,472	4,063	2,515	4,080	0.4
Karatu	1,871	1,230	30,033	25,546	31,904	26,776	4.6
Ngorongoro	0	0	10,089	14,393	10,089	14,393	0.0
Longido	1,156	1,924	4,160	5,220	5,316	7,144	26.9
Arusha Rural	1,672	1,003	37,265	30,336	38,937	31,339	3.2
Meru	2,928	3,192	36,725	35,909	39,653	39,101	8.2
Total	9,028	8,386	141,248	158,575	150,275	166,961	5.0

5.45: 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	
Monduli	1,786	1,802	2,143	3,158	3,929	4,960	36.3
Arusha	1,065	874	170	753	1,236	1,627	53.7
Karatu	1,604	686	2,941	2,149	4,545	2,834	24.2
Ngorongoro	284	180	782	460	1,066	640	28.1
Longido	2,138	2,956	2,080	2,822	4,218	5,778	51.2
Arusha Rural	9,675	3,044	8,122	6,859	17,796	9,903	30.7
Meru	6,711	3,653	4,880	4,601	11,591	8,254	44.3
Total	23,263	13,195	21,119	20,802	44,381	33,997	38.8

5.46: 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	
Monduli	5,287	6,136	16,574	37,992	21,861	44,128	13.9
Arusha	1,151	1,009	1,364	3,072	2,515	4,080	24.7
Karatu	12,120	7,874	19,784	18,902	31,904	26,776	29.4
Ngorongoro	3,979	3,841	6,110	10,551	10,089	14,393	26.7
Longido	1,791	2,273	3,525	4,872	5,316	7,144	31.8
Arusha Rural	18,513	10,146	20,424	21,193	38,937	31,339	32.4
Meru	22,938	17,291	16,715	21,809	39,653	39,101	44.2
Total	65,778	48,570	84,497	118,392	150,275	166,961	29.1

5.47 : 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)	
Monduli	2,500	2,856	1,429	2,104	3,929	4,960	57.6
Arusha	1,065	641	170	993	1,236	1,627	39.4
Karatu	3,208	2,103	1,337	731	4,545	2,834	74.2
Ngorongoro	782	460	284	180	1,066	640	71.9
Longido	2,918	2,671	1,300	3,107	4,218	5,778	46.2
Arusha Rural	13,974	6,136	3,822	3,766	17,796	9,903	62.0
Meru	6,466	4,359	5,124	3,895	11,591	8,254	52.8
Total	30,915	19,227	13,467	14,776	44,381	33,997	56.6

5.48 : 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)	
Monduli	20,289	37,321	1,572	6,807	21,861	44,128	85
Arusha	2,387	2,837	128	1,243	2,515	4,080	70
Karatu	26,468	17,235	5,436	9,818	31,904	26,776	64
Ngorongoro	9,166	10,347	924	4,046	10,089	14,393	72
Longido	4,420	4,795	896	2,349	5,316	7,144	67
Arusha Rural	32,846	19,480	6,091	11,859	38,937	31,339	62
Meru	27,086	21,183	12,567	18,058	39,653	39,101	54
Total	122,662	113,199	27,613	54,180	150,275	166,961	68

5.49: 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	
Monduli	1,072	781	2,858	4,179	3,929	4,960	15.7
Arusha	341	300	895	1,327	1,236	1,627	18.5
Karatu	891	776	3,654	2,058	4,545	2,834	27.4
Ngorongoro	0	0	1,066	640	1,066	640	0.0
Longido	1,560	2,264	2,658	3,514	4,218	5,778	39.2
Arusha Rural	2,389	1,393	15,408	8,509	17,796	9,903	14.1
Meru	4,270	1,502	7,321	6,753	11,591	8,254	18.2
Total	10,523	7,016	33,858	26,981	44,381	33,997	20.6

5.50: Number of Households and Planted Area by Insecticide Use and District - Long Rainy Season

District	Insecticide Use						% of Planted area using Insecticides
	Number of Households using Insecticides	Planted Area Applied with Insecticides	Number of Households NOT using Insecticides	Planted Area Without Insecticides	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Monduli	2,858	2,187	19,003	41,941	21,861	44,128	5.0
Arusha	128	112	2,387	3,968	2,515	4,080	2.7
Karatu	2,406	2,739	29,498	24,037	31,904	26,776	10.2
Ngorongoro	0	0	10,089	14,393	10,089	14,393	0.0
Longido	1,387	1,872	3,929	5,273	5,316	7,144	26.2
Arusha Rural	2,867	2,264	36,071	29,075	38,937	31,339	7.2
Meru	4,392	2,940	35,261	36,160	39,653	39,101	7.5
Total	14,037	12,114	136,238	154,847	150,275	166,961	7.3

5.51: 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	
Monduli	1,857	994	2,072	3,966	3,929	4,960	20.0
Arusha	256	166	980	1,461	1,236	1,627	10.2
Karatu	802	325	3,743	2,509	4,545	2,834	11.5
Ngorongoro	355	230	711	410	1,066	640	36.0
Longido	549	1,415	3,669	4,363	4,218	5,778	24.5
Arusha Rural	4,658	2,519	13,138	7,383	17,796	9,903	25.4
Meru	5,368	4,881	6,222	3,373	11,591	8,254	59.1
Total	13,846	10,531	30,536	23,466	44,381	33,997	31.0

5.52: 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	
Monduli	1,643	1,350	20,218	42,778	21,861	44,128	3.1
Arusha	341	126	2,174	3,955	2,515	4,080	3.1
Karatu	2,317	1,312	29,587	25,464	31,904	26,776	4.9
Ngorongoro	497	365	9,592	14,028	10,089	14,393	2.5
Longido	751	1,512	4,565	5,632	5,316	7,144	21.2
Arusha Rural	3,941	2,586	34,996	28,753	38,937	31,339	8.3
Meru	7,687	6,015	31,966	33,086	39,653	39,101	15.4
Total	17,178	13,266	133,097	153,696	150,275	166,961	7.9

MARKETING

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

SHORT RAINY SEASON

District	Number of households that sold	%	Number of households that did not sell	%	Total number of households
Monduli	2,286	58	1,643	42	3,929
Arusha	767	62	469	38	1,236
Karatu	2,674	59	1,871	41	4,545
Ngorongoro	853	80	213	20	1,066
Longido	1,849	44	2,369	56	4,218
Arusha Rural	7,644	43	10,152	57	17,796
Meru	7,809	67	3,782	33	11,591
Total	23,881	54	20,500	46	44,381

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

LONG RAINY SEASON

District	Number of households that sold	%	Number of households that did not sell	%	Total number of households
Monduli	12,788	58	9,073	42	21,861
Arusha	1,620	64	895	36	2,515
Karatu	19,784	62	12,120	38	31,904
Ngorongoro	6,466	64	3,624	36	10,089
Longido	2,543	48	2,774	52	5,316
Arusha Rural	16,602	43	22,335	57	38,937
Meru	28,428	72	11,225	28	39,653
Total	88,230	59	62,045	41	150,275

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

Crop	Open Market Price too low	No Transport	Transport Cost too high	No buyer	Crop Market too Far	Farmer Association problems	Cooperative problems	Trade Union Problems	Government Regulatory Problems	Lack of Market Information	No problem	Other	Not Applicable
Maize	7,972	1,377	918	71	398	0	0	119	29	342	1,402	191	21,238
Paddy	479	0	122	0	0	0	0	0	0	0	71	0	0
Sorghum	0	0	0	0	0	0	0	0	0	0	0	0	0
Finger Millet	119	0	0	0	0	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0	0	0	0	0	433
Barley	0	0	0	0	89	0	0	0	0	0	0	0	0
CEREALS													
Cassava	0	0	0	0	0	0	0	0	0	0	0	0	0
Sweet Potato	231	0	160	0	89	0	0	0	0	0	118	0	209
Irish potatoes	563	148	58	0	119	0	0	0	0	29	478	119	119
ROOTS & TUBERS	794	148	218	0	209	0	0	0	0	29	596	119	328
Mung Bean	72	0	0	0	0	0	0	0	0	0	0	0	148
Beans	5,633	990	1,060	0	968	0	0	0	0	390	1,314	119	14,039
Cowpeas	43	43	43	0	0	0	0	0	0	0	0	0	239
Green gram	324	0	43	0	0	0	0	0	0	0	0	0	358
Chick peas	369	29	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	6,441	1,062	1,145	0	968	0	0	0	0	390	1,314	119	14,784
Sunflower	29	0	0	0	0	0	0	0	0	0	0	0	43
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
Soya Beans	119	0	0	0	0	0	0	0	0	0	119	0	239
OIL SEEDS & OIL NUTS	148	0	0	0	0	0	0	0	0	0	119	0	281

Cont..5.55 :Number of Households Reporting Marketing Problems for agricultural products by Crop - ARUSHA, SHORT RAINY SEASON

Crop	Open Market Price too low	No Transport	Transport Cost too high	No buyer	Crop Market too Far	Farmer Association problems	Cooperative problems	Trade Union Problems	Government Regulatory Problems	Lack of Market Information	No problem	Other	Not Applicable
Okra	287	0	0	0	0	0	0	0	0	0	0	0	0
Radish	119	0	0	0	0	0	0	0	0	0	119	0	0
Turmeric	0	0	0	0	0	0	0	0	0	0	0	0	119
Bitter Aubergine	327	122	244	0	0	0	0	0	0	0	0	0	43
Onion	369	178	89	0	399	0	0	0	89	0	0	0	713
Cabbage	1,117	43	0	0	162	0	0	0	0	122	239	0	162
Tomatoes	1,912	71	739	71	356	29	0	0	0	0	0	71	58
Spinach	676	193	71	0	43	0	0	0	0	0	0	0	43
Carrot	114	0	0	0	358	0	0	0	0	0	241	0	122
Chillies	451	0	0	0	43	0	0	0	0	122	0	0	0
Amaranths	329	119	0	0	0	122	0	0	0	119	0	0	85
Cucumber	244	0	0	0	0	0	0	0	0	0	0	0	0
Egg Plant	165	0	0	0	0	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES	6,110	726	1,143	71	1,360	151	0	0	89	363	600	71	1,345
Cotton	0	0	0	0	0	0	0	0	119	0	0	0	0
Tobacco	122	0	0	0	0	0	0	0	0	0	0	0	29
Malay	0	0	0	0	0	0	0	0	0	0	0	0	0
CASH CROPS	122	0	0	0	0	0	0	0	119	0	0	0	29
Total	22,186	3,314	3,546	143	3,024	151	0	119	237	1,124	4,103	501	38,439

5.56: Number of Households Reporting Marketing Problems for agricultural products by Crop - ARUSHA, LONG RAINY SEASON

Crop	Open Market Price too low	No Transport	Transport Cost too high	No buyer	Crop Market too Far	Farmer Association problems	Cooperative problems	Trade Union Problems	Goernment Regulatory Problems	Lack of Market Information	No problem	Other	Not Applicable
Maize	38,896	5,934	3,617	267	5,609	71	1,400	119	642	4,227	8,375	172	74,718
Paddy	1,202	0	0	122	89	0	0	0	0	0	71	0	151
Sorghum	798	71	178	0	89	0	178	0	89	231	89	0	2,434
Finger Millet	484	0	0	0	116	0	89	0	0	0	0	0	690
Wheat	2,435	0	478	0	356	0	89	0	0	0	71	0	732
Barley	0	0	0	0	178	0	0	0	0	89	0	0	89
CEREALS	43,815	6,005	4,273	389	6,438	71	1,756	119	731	4,547	8,607	172	78,813
Cassava	0	0	0	0	0	0	0	0	0	0	0	0	122
Sweet Potato	236	119	0	0	119	122	0	0	0	122	0	0	119
Irish potatoes	387	29	0	0	239	0	0	0	0	119	29	0	792
ROOTS & TUBERS	623	148	0	0	358	122	0	0	0	241	29	0	1,033
Mung Bean	122	0	0	0	0	0	0	0	0	0	0	0	0
Beans	24,014	4,820	2,368	0	3,892	0	240	29	161	623	4,951	122	51,111
Cowpeas	3,018	364	89	0	0	0	0	0	0	0	695	0	2,392
Green gram	2,969	119	0	0	0	71	71	0	0	0	931	0	3,799
Chick peas	2,282	71	239	43	119	0	0	0	0	0	193	0	1,147
Field Peas	0	0	0	0	0	0	0	0	0	0	0	0	119
PULSES	32,404	5,375	2,696	43	4,011	71	311	29	161	623	6,770	122	58,569
Sunflower	2,408	254	118	0	0	0	713	0	0	446	211	0	3,704
Simsim	143	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	122
Soya Beans	358	0	0	0	0	0	0	0	0	0	0	0	239
OIL SEEDS & OIL NUTS	2,909	254	118	0	0	0	713	0	0	446	211	0	4,065

Cont..5.56 :Number of Households Reporting Marketing Problems for agricultural products by Crop - ARUSHA, LONG RAINY SEASON

Crop	Open Market Price too low	No Transport	Transport Cost too high	No buyer	Crop Market too Far	Farmer Association problems	Cooperative problems	Trade Union Problems	Goernment Regulatory Problems	Lack of Market Information	No problem	Other	Not Applicable
Okra	119	0	0	0	0	0	0	0	0	0	122	0	119
Radish	162	0	0	0	0	0	0	0	0	0	0	0	71
Turmeric	122	0	0	0	0	0	0	0	0	0	0	0	0
Bitteer Aubergine	244	119	0	0	0	0	0	0	0	0	0	0	119
Onion	408	0	0	0	0	0	0	0	0	0	0	0	267
Cabbage	310	0	0	0	241	0	0	0	0	0	0	0	0
Tomatoes	753	0	244	0	0	0	0	122	0	0	122	0	58
Spinach	271	178	0	0	119	0	0	0	0	0	0	43	0
Carrot	71	0	122	0	0	0	0	0	0	0	0	0	0
Chillies	85	0	0	0	0	0	0	0	0	0	0	0	0
Amaranths	284	119	0	0	0	0	0	0	0	0	119	0	281
Cucumber	122	0	0	122	0	0	0	0	0	0	0	0	0
Egg Plant	43	0	0	0	0	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES	2,995	417	366	122	361	0	0	122	0	0	363	43	917
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0	0	0	0	0	0
Malay	71	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	82,817	12,199	7,453	554	11,168	265	2,781	270	892	5,858	15,980	336	143,398

INPUT USE SHORT RAINY SEASON

5.57: Planted Area & Number of Households by Insecticide use by Crop during 2007/08 agriculture year - MONDULI

Crop	Insecticide use							% of Planted area using Insecticide
	Number of Households using Insecticide	Planted Area Applied with Insecticide	Cost of Insecticide	Number of Households NOT using Insecticide	Planted Area Without Insecticide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	714	456	19,646,123	2,429	2,401	3,143	2,856	15.9
Paddy	143	72	785,845	429	174	429	246	29.4
Sorghum	0	.	.	0	.	0	-	0.0
Finger Millet	0	.	.	0	.	0	-	0.0
Wheat	0	.	.	0	.	0	-	0.0
Barley	0	.	.	0	.	0	-	0.0
CEREALS		528	20,431,968		2,574	3,572	3,102	17.0
Cassava	0	.	.	0	.	0	-	0.0
Sweet Potato	0	.	.	0	.	0	-	0.0
Irish potatoes	0	.	.	0	.	0	-	0.0
ROOTS & TUBERS						0	-	0.0
Mung Bean	0	.	.	0	.	0	-	0.0
Beans	286	210	7,858,449	1,643	1,605	1,929	1,815	11.6
Cowpeas	0	.	.	0	.	0	-	0.0
Green gram	0	.	.	0	.	0	-	0.0
Chick peas	0	.	.	0	.	0	-	0.0
Field Peas	0	.	.	0	.	0	-	0.0
PULSES	286	210	7,858,449	1,643	1,605	1,929	1,815	11.6
Sunflower	0	.	.	0	.	0	-	0.0
Simsim	0	.	.	0	.	0	-	0.0
Groundnut	0	.	.	0	.	0	-	0.0
Soya Beans	0	.	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS						0	-	0.0
Okra	0	.	.	0	.	0	-	0.0
Radish	0	.	.	0	.	0	-	0.0
Turmeric	0	.	.	0	.	0	-	0.0
Bitteer Aubergine	0	.	.	0	.	0	-	0.0
Onion	0	.	.	0	.	0	-	0.0
Cabbage	71	7	178,601	0	.	71	-	0.0
Tomatoes	143	29	3,429,141	0	.	143	-	0.0
Spinach	0	.	.	0	.	0	-	0.0
Carrot	71	7	178,601	0	.	71	-	0.0
Chillies	0	.	.	0	.	0	-	0.0
Amaranths	0	.	.	0	.	0	-	0.0
Cucumber	0	.	.	0	.	0	-	0.0
Egg Plant	0	.	.	0	.	0	-	0.0
FRUITS & VEGETABLES		43	3,786,344			286	-	0.0
Cotton	0	.	.	0	.	0	-	0.0
Tobacco	0	.	.	0	.	0	-	0.0
CASH CROPS	0			0		0	-	0.0
Malay	0	.	.	0	.	0	-	0.0
Total	1,429	781	32,076,761	4,501	4,179	5,787	4,960	15.7

5.58: Planted Area & Number of Households by Insecticide use by Crop during 2007/08 agriculture year - ARUSHA

Crop	Insecticide use							% of Planted area using Insecticide
	Number of Households using Insecticide	Planted Area Applied with Insecticide	Cost of Insecticide	Number of Households NOT using Insecticide	Planted Area Without Insecticide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	170	149	4,006,226	895	572	1,023	720	20.7
Paddy	0	.	.	0	.	-	-	0.0
Sorghum	0	.	.	0	.	-	-	0.0
Finger Millet	0	.	.	0	.	-	-	0.0
Wheat	0	.	.	0	.	-	-	0.0
Barley	0	.	.	0	.	-	-	0.0
CEREALS		149	4,006,226		572		720	20.7
Cassava	0	.	.	0	.	0	-	0.0
Sweet Potato	0	.	.	0	.	0	-	0.0
Irish potatoes	0	.	.	0	.	0	-	0.0
ROOTS & TUBERS		.	.		.	0	#VALUE!	#####
Mung Bean	0	.	.	43	43	43	-	0.0
Beans	128	86	2,898,121	767	767	895	853	10.1
Cowpeas	0	.	.	128	128	128	-	0.0
Green gram	0	.	.	128	128	128	-	0.0
Chick peas	0	.	.	128	128	128	-	0.0
Field Peas	0	.	.	0	0	0	-	0.0
PULSES		86	2,898,121		604	1,321	690	12.5
Sunflower	0	.	.	43	9	43	-	0.0
Simsim	0	.	.	0	.	0	-	0.0
Groundnut	0	.	.	0	.	0	-	0.0
Soya Beans	0	.	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		.	.		9		-	0.0
Okra	0	.	.	43	9	43	-	0.0
Radish	0	.	.	0	0	0	-	0.0
Turmeric	0	.	.	0	0	0	-	0.0
Bitteer Aubergine	43	9	852,388	85	13	128	22	40.0
Onion	0	.	.	85	15	85	-	0.0
Cabbage	128	16	1,619,538	128	22	256	38	42.7
Tomatoes	43	3	426,194	43	9	85	12	28.6
Spinach	128	37	1,280,714	128	20	256	57	65.3
Carrot	0	.	.	43	4	43	-	0.0
Chillies	0	.	.	128	23	128	-	0.0
Amaranths	0	.	.	170	20	170	-	0.0
Cucumber	0	.	.	0	.	0	-	0.0
Egg Plant	0	.	.	43	9	43	-	0.0
FRUITS & VEGETABLES		65	4,178,834		143		208	31.5
Cotton	0	.	.	0	.	0	-	0.0
Tobacco	0	.	.	0	.	0	-	0.0
CASH CROPS		.	.		.		-	0.0
Malay	0	.	.	0	.	0	-	0.0
Total	639	300	11,083,181	3,026	1,327	3,623	1,627	18.5

5.59: Planted Area & Number of Households by Insecticide use by Crop during 2007/08 agriculture year - KARATU

Crop	Insecticide use							% of Planted area using Insecticide
	Number of Households using Insecticide	Planted Area Applied with Insecticide	Cost of Insecticide	Number of Households NOT using Insecticide	Planted Area Without Insecticide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	178	72	712,945	1,159	872	1,337	945	7.6
Paddy	0	.	.	0	.	0	-	0.0
Sorghum	0	.	.	0	.	0	-	0.0
Finger Millet	0	.	.	0	.	0	-	0.0
Wheat	0	.	.	0	.	0	-	0.0
Barley	0	.	.	89	36	89	-	0.0
CEREALS		72	712,945		908		981	7.4
Cassava	0	.	.	0	.	0	-	0.0
Sweet Potato	0	.	.	446	216	446	-	0.0
Irish potatoes	0	.	.	0	.	0	-	0.0
ROOTS & TUBERS		.	.		216	446	-	0.0
Mung Bean	0	.	.	0	.	0	-	0.0
Beans	624	577	2,673,543	980	609	1,604	1,186	48.7
Cowpeas	0	.	.	0	.	0	-	0.0
Green gram	0	.	.	0	.	0	-	0.0
Chick peas	0	.	.	0	.	0	-	0.0
Field Peas	0	.	.	0	.	0	-	0.0
PULSES		577	2,673,543		609	1,604	1,186	48.7
Sunflower	0	.	.	0	.	0	-	0.0
Simsim	0	.	.	0	.	0	-	0.0
Groundnut	0	.	.	0	.	0	-	0.0
Soya Beans	0	.	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		.	.		.		-	0.0
Okra	0	.	.	0	.	0	-	0.0
Radish	0	.	.	0	.	0	-	0.0
Turmeric	0	.	.	0	.	0	-	0.0
Bitteer Aubergine	0	.	.	0	.	0	-	0.0
Onion	267	126	6,772,975	1,337	325	1,604	451	28.0
Cabbage	0	.	.	0	.	0	-	0.0
Tomatoes	0	.	.	0	.	0	-	0.0
Spinach	0	.	.	0	.	0	-	0.0
Carrot	0	.	.	0	.	0	-	0.0
Chillies	0	.	.	0	.	0	-	0.0
Amaranths	0	.	.	0	.	0	-	0.0
Cucumber	0	.	.	0	.	0	-	0.0
Egg Plant	0	.	.	0	.	0	-	0.0
FRUITS & VEGETABLES		126	6,772,975		325		451	28.0
Cotton	0	.	.	0	.	0	-	0.0
Tobacco	0	.	.	0	.	0	-	0.0
CASH CROPS		.	.		.		-	0.0
Malay	0	.	.	0	.	0	-	0.0
Total	1,069	776	10,159,463	4,010	2,058	5,080	2,834	27.4

5.60: Planted Area & Number of Households by Insecticide use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - NGORONGORO

Crop	Insecticide use							% of Planted area using Insecticide
	Number of Households using Insecticide	Planted Area Applied with Insecticide	Cost of Insecticide	Number of Households NOT using Insecticide	Planted Area Without Insecticide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	0	0	.	568	449	568	449	0.0
Paddy	0	0	.	0	.	0	-	0.0
Sorghum	0	0	.	0	.	0	-	0.0
Finger Millet	0	0	.	0	.	0	-	0.0
Wheat	0	0	.	0	.	0	-	0.0
Barley	0	0	.	0	.	0	-	0.0
CEREALS	0	0	.	568	449	568	449	0.0
Cassava	0	0	.	0	.	0	-	0.0
Sweet Potato	0	0	.	213	72	213	72	0.0
Irish potatoes	0	0	.	0	.	0	-	0.0
ROOTS & TUBERS	0	0	.	213	72	213	72	0.0
Mung Bean	0	0	.	0	.	0	-	0.0
Beans	0	0	.	142	33	142	33	0.0
Cowpeas	0	0	.	0	.	0	-	0.0
Green gram	0	0	.	0	.	0	-	0.0
Chick peas	0	0	.	0	.	0	-	0.0
Field Peas	0	0	.	0	.	0	-	0.0
PULSES	0	0	.	142	33	142	33	0.0
Sunflower	0	0	.	0	.	0	-	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	0	0	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS	0	0	.	0	.	0	-	0.0
Okra	0	0	.	0	.	0	-	0.0
Radish	0	0	.	0	.	0	-	0.0
Turmeric	0	0	.	0	.	0	-	0.0
Bitteer	0	0	.	0	.	0	-	0.0
Aubergine	0	0	.	0	.	0	-	0.0
Onion	0	0	.	0	.	0	-	0.0
Cabbage	0	0	.	71	14	71	14	0.0
Tomatoes	0	0	.	355	43	355	43	0.0
Spinach	0	0	.	284	29	284	29	0.0
Carrot	0	0	.	0	.	0	-	0.0
Chillies	0	0	.	0	.	0	-	0.0
Amaranths	0	0	.	0	.	0	-	0.0
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	0	0	.	0	.	0	-	0.0
FRUITS & VEGETABLES	0	0	.	711	86	711	86	0.0
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS	0	0	.	0	.	0	-	0.0
Malay	0	0	.	0	.	0	-	0.0
Total	0	0	.	1634	640	1634	640	0.0

5.61: Planted Area & Number of Households by Insecticide use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - LONGIDO

Crop	Insecticide use							% of Planted area using Insecticide
	Number of Households using Insecticide	Planted Area Applied with Insecticide	Cost of Insecticide	Number of Households NOT using Insecticide	Planted Area Without Insecticide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	1,069	667	18,217,658	2,514	2,302	3,554	2,969	22.5
Paddy	0	.	.	0	.	0	-	0.0
Sorghum	0	.	.	0	.	0	-	0.0
Finger Millet	0	.	.	0	.	0	-	0.0
Wheat	144	351	4,362,715	289	246	433	597	58.8
Barley	0	.	.	0	.	0	-	0.0
CEREALS		1,018	22,580,373		2,548		3,565	28.5
Cassava	0	.	.	0	.	0	-	0.0
Sweet Potato	0	.	.	29	6	29	-	0.0
Irish potatoes	318	228	6,076,020	0	.	318	-	0.0
ROOTS & TUBERS		228	6,076,020		6	347	234	97.5
Mung Bean	0	.	.	58	23	58	-	0.0
Beans	1,040	898	12,741,439	1,502	862	2,514	1,760	51.0
Cowpeas	0	.	.	0	.	0	-	0.0
Green gram	0	.	.	0	.	0	-	0.0
Chick peas	0	.	.	29	6	29	-	0.0
Field Peas	0	.	.	0	.	0	-	0.0
PULSES		898	12,741,439		891	2,600	1,789	50.2
Sunflower	29	18	0	0	.	29	-	0.0
Simsim	0	.	.	0	.	0	-	0.0
Groundnut	0	.	.	0	.	0	-	0.0
Soya Beans	0	.	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		18	0		.		-	0.0
Okra	0	.	.	0	.	0	-	0.0
Radish	0	.	.	0	.	0	-	0.0
Turmeric	0	.	.	0	.	0	-	0.0
Bitteer	0	.	.	0	.	0	-	0.0
Aubergine	0	.	.	0	.	0	-	0.0
Onion	29	47	693,412	0	.	29	-	0.0
Cabbage	0	.	.	0	.	0	-	0.0
Tomatoes	202	56	8,413,684	144	64	289	120	47.0
Spinach	0	.	.	0	.	0	-	0.0
Carrot	0	.	.	0	.	0	-	0.0
Chillies	0	.	.	0	.	0	-	0.0
Amaranths	0	.	.	0	.	0	-	0.0
Cucumber	0	.	.	0	.	0	-	0.0
Egg Plant	0	.	.	0	.	0	-	0.0
FRUITS & VEGETABLES		103	9,107,095		64		167	61.8
Cotton	0	.	.	0	.	0	-	0.0
Tobacco	0	.	.	29	6	29	-	0.0
CASH CROPS	0	.	.	29	6	29	-	0.0
Malay	0	.	.	0	.	0	-	0.0
Total	2,831	2,264	50,504,926	4,594	3,514	7,310	5,778	39.2

5.62: Planted Area & Number of Households by Insecticide use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - ARUSHA RURAL

Crop	Insecticide use							% of Planted area using Insecticide
	Number of Households using Insecticide	Planted Area Applied with Insecticide	Cost of Insecticide	Number of Households NOT using Insecticide	Planted Area Without Insecticide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	358	397	4,777,551	15,169	4,646	15,527	5,042	7.9
Paddy	0	0	0	0	0	0	-	0.0
Sorghum	0	0	0	0	0	0	-	0.0
Finger Millet	0	0	0	119	73	119	-	0.0
Wheat	0	0	0	0	0	0	-	0.0
Barley	0	0	0	0	0	0	-	0.0
CEREALS		397	4,777,551		4,718		5,115	7.8
Cassava		0	.	0	0	0	-	0.0
Sweet Potato		0	.	119	24	119	24	0.0
Irish potatoes		447	13,711,572	358	109	1,194	556	80.4
ROOTS & TUBERS		447	13,711,572		133		580	77.1
Mung Bean	0	0	.	119	97	119	97	0.0
Beans	478	261	6,688,572	11,705	2,771	12,183	3,032	8.6
Cowpeas	0	0	.	239	53	239	53	0.0
Green gram	0	0	.	597	157	597	157	0.0
Chick peas	0	0	.	119	19	119	19	0.0
Field Peas	0	0	.	0	0	0	-	0.0
PULSES		261	6,688,572		3,096		3,357	7.8
Sunflower	0	0	.	0	0		-	0.0
Simsim	0	0	.	0	0		-	0.0
Groundnut	0	0	.	0	0		-	0.0
OIL SEEDS & OIL NUTS			0				-	0.0
Okra	0	0	.	0	0	0	-	0.0
Radish	0	0	.	239	94	239	94	0.0
Turmeric	0	0	.	119	77	119	77	0.0
Bitteer Aubergine	119	48	477,755	0	0	119	48	100.0
Onion	119	24	812,184	0	0	119	24	100.0
Cabbage	478	127	11,466,123	358	68	836	195	65.3
Tomatoes	239	33	2,030,459	119	42	239	75	43.5
Spinach	119	16	1,791,582	0	0	119	16	100.0
Carrot	239	24	1,194,388	358	36	478	60	40.0
Chillies	0	0	.	0	0	0	-	0.0
Amaranths	119	16	1,791,582	119	2	239	18	0.0
Cucumber	0	0	.	0	0	0	-	0.0
Egg Plant	0	0	.	0	0	0	-	0.0
FRUITS & VEGETABLES		288	19,564,073		320		609	47.4
Cotton	0	0	.	119	145		145	0.0
Tobacco	0	0	.	0	0		-	0.0
CASH CROPS							-	0.0
Total	3,105	1,393	44,741,768	30,457	8,509		9,903	14.1

5.63: Planted Area & Number of Households by Insecticide use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - MERU

Crop	Insecticide use							% of Planted area using Insecticide
	Number of Households using Insecticide	Planted Area Applied with Insecticide	Cost of Insecticide	Number of Households NOT using Insecticide	Planted Area Without Insecticide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	1,708	533	9,467,927	7,199	4,174	8,907	4,707	11.3
Paddy	0	0	0	244	62	244	62	0.0
Sorghum	0	0	0	0	0	0	-	0.0
Finger Millet	0	0	0	0	0	0	-	0.0
Wheat	0	0	0	0	0	0	-	0.0
Barley	0	0	0	0	0	0	-	0.0
CEREALS		533	9,467,927		4,236		4,769	11.2
Cassava	0	0	0	0	0	0	-	0.0
Sweet Potato	0	0	0	0	0	0	-	0.0
Irish potatoes	0	0	0	122	49	122	49	0.0
ROOTS & TUBERS			0		49		49	0.0
Mung Bean	0	0	0	0	0	0	-	0.0
Beans	488	123	2,940,426	4,758	2,122	5,246	2,245	5.5
Cowpeas	0	0	0	0	0	0	-	0.0
Green gram	0	0	0	0	0	0	-	0.0
Chick peas	122	49	488,037	0	0	122	49	100.0
Field Peas	0	0	0	0	0	0	-	0.0
PULSES		173	3,428,463		2,122		2,294	7.5
Sunflower	0	0	0	0	0	0	-	0.0
Simsim	0	0	0	0	0	0	-	0.0
Groundnut	0	0	0	0	0	0	-	0.0
Soya Beans	0	0	0	0	0	0	-	0.0
OIL SEEDS & OIL NUTS		0	0				-	0.0
Okra	0	0	0	244	62	244	62	0.0
Radish	0	0	0	0	0	0	-	0.0
Turmeric	0	0	0	0	0	0	-	0.0
Bitteer Aubergine	244	49	7,320,562	244	37	488	86	57.1
Onion	0	0	0	0	0	0	-	0.0
Cabbage	610	32	1,366,505	0	0	610	32	100.0
Tomatoes	1,952	584	51,719,773	244	74	2,196	658	88.7
Spinach	366	11	780,860	0	0	366	11	100.0
Carrot	122	25	1,220,094	122	0	244	25	100.0
Chillies	366	10	683,252	122	25	488	35	29.6
Amaranths	366	9	780,860	0	0	366	9	100.0
Cucumber	244	74	5,978,459	0	0	244	74	100.0
Egg Plant	0	0	0	122	49	122	49	0.0
FRUITS & VEGETABLES		795	69,850,366		272		1,067	74.5
Cotton	0	0	0	0	0	0	-	0.0
Tobacco	0	0	0	122	74	122	74	0.0
CASH CROPS							-	0.0
Total	6,589	1,502	82,746,757	13,543	6,753	20,132	8,254	18.2

5.64: Planted Area & Number of Households by Local Seeds use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - MONDULI

Crop	Local Seeds use							% of Planted area using Local Seeds
	Number of Households using Local Seeds	Planted Area Applied with LocalSeeds	Cost of Local Seeds	Number of Households NOT using Local Seeds	Planted Area Without Local Seeds	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	1,643	1,316	25,684,157	30,934	1,540	3,143	2,856	46.1
Paddy	286	72	6,143,951	9,573	174	429	246	29.4
Sorghum	0	0	0	.	.	0	-	0.0
Finger Millet	0	0	0	.	.	0	-	0.0
Wheat	0	0	0	.	.	0	-	0.0
Barley	0	0	0	.	.	0	-	0.0
CEREALS		1,388	31,828,108		1,714	3,572	3,102	44.8
Cassava	0	0	0	.	.	0	-	0.0
Sweet Potato	0	0	0	.	.	0	-	0.0
Irish potatoes	0	0	0	.	.	0	-	0.0
ROOTS & TUBERS		0	0		.	0	-	0.0
Mung Bean	0	0	0	.	.	0	-	0.0
Beans	1,500	1,468	18,483,112	78,156	347	1,929	1,815	80.9
Cowpeas	0	0	0	.	.	0	-	0.0
Green gram	0	0	0	.	.	0	-	0.0
Chick peas	0	0	0	.	.	0	-	0.0
Field Peas	0	0	0	.	.	0	-	0.0
PULSES	1,500	1,468	18,483,112	78,156	347	1,929	1,815	80.9
Sunflower	0	0	0	.	.	0	-	0.0
Simsim	0	0	0	.	.	0	-	0.0
Groundnut	0	0	0	.	.	0	-	0.0
Soya Beans	0	0	0	.	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	0		.	0	-	0.0
Okra	0	0	0	.	.	0	-	0.0
Radish	0	0	0	.	.	0	-	0.0
Turmeric	0	0	0	.	.	0	-	0.0
Bitter Aubergine	0	0	0	.	.	0	-	0.0
Onion	0	0	0	.	.	0	-	0.0
Cabbage	0	0	0	.	7	71	7	0.0
Tomatoes	0	0	0	.	29	143	29	0.0
Spinach	0	0	0	.	.	0	-	0.0
Carrot	0	0	0	.	7	71	7	0.0
Chillies	0	0	0	.	.	0	-	0.0
Amaranths	0	0	0	.	.	0	-	0.0
Cucumber	0	0	0	.	.	0	-	0.0
Egg Plant	0	0	0	.	.	0	-	0.0
FRUITS & VEGETABLES		0	0		43	236	43	0.0
Cotton	0	0	0	.	.	0	-	0.0
Tobacco	0	0	0	.	.	0	-	0.0
CASH CROPS	0	0	0	.	.	0	-	0.0
Malay	0	0	0	.	.	0	-	0.0
Total	3,429	2,856	50,311,219	118,663	2,104	5,787	4,960	57.6

5.65: Planted Area & Number of Households by Local Seeds use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - ARUSHA

Crop	Local Seeds use							% of Planted area using Local Seeds
	Number of Households using Local Seeds	Planted Area Applied with LocalSeeds	Cost of Local Seeds	Number of Households NOT using Local Seeds	Planted Area Without Local Seeds	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	256	135	2,748,953	9,163	586	1,023	720	18.7
Paddy	0	0	.	.	.	-	-	0.0
Sorghum	0	0	.	.	.	-	-	0.0
Finger Millet	0	0	.	.	.	-	-	0.0
Wheat	0	0	.	.	.	-	-	0.0
Barley	0	0	.	.	.	-	-	0.0
CEREALS		135	2,748,953		586		720	18.7
Cassava	0	0	.	.	.	0	-	0.0
Sweet Potato	0	0	.	.	.	0	-	0.0
Irish potatoes	0	0	.	.	.	0	-	0.0
ROOTS & TUBERS		0	.		.	0	-	0.0
Mung Bean	0	0	.	.	9	43	-	0.0
Beans	767	396	16,792,053	20,415	184	895	580	68.2
Cowpeas	128	30	2,984,425	1,918	.	128	-	-
Green gram	85	26	647,815	5,327	4	128	30	85.7
Chick peas	128	41	1,534,299	3,836	6	128	47	86.4
Field Peas	0	0	.	.	.	0	-	0.0
PULSES		493	21,958,592		204	1,321	697	70.7
Sunflower	43	9	213,097	426	.	43	-	-
Simsim	0	0	.	.	.	0	-	0.0
Groundnut	0	0	.	.	.	0	-	0.0
Soya Beans	0	0	.	.	.	0	-	0.0
OIL SEEDS & OIL NUTS		9	213,097		.		-	-
Okra	0	0	.	.	9	43	-	0.0
Radish	0	0	.	.	.	0	-	0.0
Turmeric	0	0	.	.	.	0	-	0.0
Bitteer	0	0	.	.	22	128	-	0.0
Aubergine								
Onion	0	0	.	.	15	85	-	0.0
Cabbage	43	4	1,790,016	85,239	33	256	38	11.5
Tomatoes	0	0	.	.	12	85	-	0.0
Spinach	0	0	.	.	57	256	-	0.0
Carrot	0	0	.	.	4	43	-	0.0
Chillies	0	0	.	.	23	128	-	0.0
Amaranths	0	0	.	.	20	170	-	0.0
Cucumber	0	0	.	.	.	0	-	0.0
Egg Plant	0	0	.	.	9	43	-	0.0
FRUITS & VEGETABLES		4	1,790,016		204		208	2.1
Cotton	0	0	.	.	.	0	-	0.0
Tobacco	0	0	.	.	.	0	-	0.0
CASH CROPS		0	.		.	0	-	0.0
Malay	0	0	.	.	.	0	-	0.0
Total	1,449	641	26,710,658	126,324	993	3,623	1,634	39.2

5.66: Planted Area & Number of Households by Local Seeds use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - KARATU

Crop	Local Seeds use							% of Planted area using Local Seeds
	Number of Households using Local Seeds	Planted Area Applied with Local Seeds	Cost of Local Seeds	Number of Households NOT using Local Seeds	Planted Area Without Local Seeds	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	713	530	14,094,027	7,753	415	1,337	945	56.1
Paddy	0	0	.	.	.	0	-	0.0
Sorghum	0	0	.	.	.	0	-	0.0
Finger Millet	0	0	.	.	.	0	-	0.0
Wheat	0	0	.	.	.	0	-	0.0
Barley	0	0	.	.	36	89	-	0.0
CEREALS		530	14,094,027		451		981	54.0
Cassava	0	0	.	.	.	0	-	0.0
Sweet Potato	446	216	5,035,262	2,744,837	.	446	-	-
Irish potatoes	0	0	.	.	.	0	-	0.0
ROOTS & TUBERS		0	5,035,262		.	446	-	-
Mung Bean	0	0	.	.	.	0	-	0.0
Beans	1,604	1,186	63,166,908	67,106	.	1,604	-	-
Cowpeas	0	0	.	.	.	0	-	0.0
Green gram	0	0	.	.	.	0	-	0.0
Chick peas	0	0	.	.	.	0	-	0.0
Field Peas	0	0	.	.	.	0	-	0.0
PULSES		1,186	63,166,908		.	1,604	-	-
Sunflower	0	0	.	.	.	0	-	0.0
Simsim	0	0	.	.	.	0	-	0.0
Groundnut	0	0	.	.	.	0	-	0.0
Soya Beans	0	0	.	.	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	.		.		-	0.0
Okra	0	0	.	.	.	0	-	0.0
Radish	0	0	.	.	.	0	-	0.0
Turmeric	0	0	.	.	.	0	-	0.0
Bitteer Aubergine	0	0	.	.	.	0	-	0.0
Onion	624	171	14,642,104	24,686	280	1,604	451	38.0
Cabbage	0	0	.	.	.	0	-	0.0
Tomatoes	0	0	.	.	.	0	-	0.0
Spinach	0	0	.	.	.	0	-	0.0
Carrot	0	0	.	.	.	0	-	0.0
Chillies	0	0	.	.	.	0	-	0.0
Amaranths	0	0	.	.	.	0	-	0.0
Cucumber	0	0	.	.	.	0	-	0.0
Egg Plant	0	0	.	.	.	0	-	0.0
FRUITS & VEGETABLES		171	14,642,104		280		451	38.0
Cotton	0	0	.	.	.	0	-	0.0
Tobacco	0	0	.	.	.	0	-	0.0
CASH CROPS		0	.		.		-	0.0
Malay	0	0	.	.	.	0	-	0.0
Total	3,386	2,103	96,938,300	2,844,382	731	5,080	2,834	74.2

5.67: Planted Area & Number of Households by Local Seeds use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - NGORONGORO

Crop	Local Seeds use							% of Planted area using Local Seeds
	Number of Households using Local Seeds	Planted Area Applied with LocalSeeds	Cost of Local Seeds	Number of Households NOT using Local Seeds	Planted Area Without Local Seeds	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	497	327	4,632,503	12,434	122	568	449	72.8
Paddy	0	0	.	.	.	0	-	0.0
Sorghum	0	0	.	.	.	0	-	0.0
Finger Millet	0	0	.	.	.	0	-	0.0
Wheat	0	0	.	.	.	0	-	0.0
Barley	0	0	.	.	.	0	-	0.0
CEREALS	497	327	4,632,503	12,434	122	568	449	72.8
Cassava	0	0	.	.	.	0	-	0.0
Sweet Potato	142	65	1,065,760	156,311	7	213	72	90.0
Irish potatoes	0	0	.	.	.	0	-	0.0
ROOTS & TUBERS	142	65	1,065,760	156,311	7	213	72	90.0
Mung Bean	0	0	.	.	.	0	-	0.0
Beans	142	33	1,477,854	6,252	.	142	-	-
Cowpeas	0	0	.	.	.	0	-	0.0
Green gram	0	0	.	.	.	0	-	0.0
Chick peas	0	0	.	.	.	0	-	0.0
Field Peas	0	0	.	.	.	0	-	0.0
PULSES	142	33	1,477,854	6,252	.	142	-	-
Sunflower	0	0	.	.	.	0	-	0.0
Simsim	0	0	.	.	.	0	-	0.0
Groundnut	0	0	.	.	.	0	-	0.0
Soya Beans	0	0	.	.	.	0	-	0.0
OIL SEEDS & OIL NUTS	0	0	.	.	.	0	-	0.0
Okra	0	0	.	.	.	0	-	0.0
Radish	0	0	.	.	.	0	-	0.0
Turmeric	0	0	.	.	.	0	-	0.0
Bitteer Aubergine	0	0	.	.	.	0	-	0.0
Onion	0	0	.	.	.	0	-	0.0
Cabbage	0	0	.	.	14	71	-	0.0
Tomatoes	213	22	1,136,811	12,079	22	355	43	50.0
Spinach	142	14	888,133	3,197	14	284	29	50.0
Carrot	0	0	.	.	.	0	-	0.0
Chillies	0	0	.	.	.	0	-	0.0
Amaranths	0	0	.	.	.	0	-	0.0
Cucumber	0	0	.	.	.	0	-	0.0
Egg Plant	0	0	.	.	.	0	-	0.0
FRUITS & VEGETABLES	355	36	2,024,944	15,276	50	711	86	41.7
Cotton	0	0	.	.	.	0	-	0.0
Tobacco	0	0	.	.	.	0	-	0.0
CASH CROPS	0	0	.	.	.	0	-	0.0
Malay	0	0	.	.	.	0	-	0.0
Total	1,137	460	9,201,061	190,274	180	1,634	640	72

5.68: Planted Area & Number of Households by Local Seeds use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - LONGIDO

Crop	Local Seeds use							% of Planted area using Local Seeds
	Number of Households using Local Seeds	Planted Area Applied with Local Seeds	Cost of Local Seeds	Number of Households NOT using Local Seeds	Planted Area Without Local Seeds	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	1,676	996	15,504,164	35,711	1,972	3,554	2,969	33.6
Paddy	0	0	.	.	.	0	-	0.0
Sorghum	0	0	.	.	.	0	-	0.0
Finger Millet	0	0	.	.	.	0	-	0.0
Wheat	347	257	20,542,320	69,341	339	433	597	43.1
Barley	0	0	.	.	.	0	-	0.0
CEREALS		1,254	36,046,485		2,312		3,565	35.2
Cassava	0	0	.	.	.	0	-	0.0
Sweet Potato	29	6	173,353	289	.	29	-	-
Irish potatoes	87	158	51,023,541	258,296	70	318	228	69.2
ROOTS & TUBERS		164	51,196,893		70	347	234	70.0
Mung Bean	29	12	462,274	578	12	58	23	50.0
Beans	1,849	1,195	57,769,858	62,378	564	2,514	1,760	67.9
Cowpeas	0	0	.	.	.	0	-	0.0
Green gram	0	0	.	.	.	0	-	0.0
Chick peas	29	6	1,156	3,178	.	29	-	-
Field Peas	0	0	.	.	.	0	-	0.0
PULSES		1,213	58,233,288		576	2,600	1,789	67.8
Sunflower	0	0	.	.	18	29	-	0.0
Simsim	0	0	.	.	.	0	-	0.0
Groundnut	0	0	.	.	.	0	-	0.0
Soya Beans	0	0	.	.	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	.		18		-	0.0
Okra	0	0	.	.	.	0	-	0.0
Radish	0	0	.	.	.	0	-	0.0
Turmeric	0	0	.	.	.	0	-	0.0
Bitteer Aubergine	0	0	.	.	.	0	-	0.0
Onion	0	0	.	.	47	29	-	0.0
Cabbage	0	0	.	.	.	0	-	0.0
Tomatoes	58	35	780,088	26,003	85	289	120	29.3
Spinach	0	0	.	.	.	0	-	0.0
Carrot	0	0	.	.	.	0	-	0.0
Chillies	0	0	.	.	.	0	-	0.0
Amaranths	0	0	.	.	.	0	-	0.0
Cucumber	0	0	.	.	.	0	-	0.0
Egg Plant	0	0	.	.	.	0	-	0.0
FRUITS & VEGETABLES		35	780,088		132		167	21.1
Cotton	0	0	.	.	.	0	-	0.0
Tobacco	29	6	130,015	87	.	29	-	-
CASH CROPS	29	6	130,015	87	.	29	-	-
Malay	0	0	.	.	.	0	-	0.0
Total	4,132	2,671	146,386,769	455,860	3,107	7,310	5,778	46.2

5.69: Planted Area & Number of Households by Local Seeds use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - ARUSHA RURAL

Crop	Local Seeds use							% of Planted area using Local Seeds
	Number of Households using Local Seeds	Planted Area Applied with Local Seeds	Cost of Local Seeds	Number of Households NOT using Local Seeds	Planted Area Without Local Seeds	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	7,644	2,638	65,321,070	90,654	2,404	15,527	5,042	52.3
Paddy	0	0	.	.	.	0	-	0.0
Sorghum	0	0	.	.	.	0	-	0.0
Finger Millet	0	0	.	.	73	119	-	0.0
Wheat	0	0	.	.	.	0	-	0.0
Barley	0	0	.	.	.	0	-	0.0
CEREALS		2,638	65,321,070		2,477		5,115	51.6
Cassava	0	0	.	.	.	0	-	0.0
Sweet Potato	0	0	.	.	24	119	-	0.0
Irish potatoes	1,075	544	38,865,380	104,509	12	1,194	556	97.8
ROOTS & TUBERS		544	38,865,380		36	1,314	580	93.8
Mung Bean	0	0	.	.	97	119	-	0.0
Beans	10,391	2,336	163,220,979	169,723	696	12,183	3,032	77.1
Cowpeas	239	53	418,036	597	.	239	-	-
Green gram	597	157	6,628,852	6,808	.	597	-	-
Chick peas	0	0	.	.	19	119	-	0.0
Field Peas	0	0	.	.	.	0	-	0.0
PULSES		2,546	170,267,867		812	13,258	3,357	75.8
Sunflower	0	0	.	.	.	0	-	0.0
Simsim	0	0	.	.	.	0	-	0.0
Groundnut	0	0	.	.	.	0	-	0.0
Soya Beans	358	85	3,845,929	4,180	12	478	97	87.5
OIL SEEDS & OIL NUTS		85	3,845,929		12		97	87.5
Okra	0	0	.	.	.	0	-	0.0
Radish	119	22	597,194	5,972	73	239	94	23.1
Turmeric	119	77	358,316	13,138	.	119	-	-
Bitter Aubergine	119	0	358,316	59,719	.	119	-	-
Onion	0	0	.	.	24	119	-	0.0
Cabbage	239	31	8,420,434	71,663	163	836	195	16.1
Tomatoes	0	.	.	.	75	239	-	0.0
Spinach	0	.	.	.	16	119	-	0.0
Carrot	0	.	.	.	60	478	-	0.0
Chillies	0	.	.	.	.	0	-	0.0
Amaranths	0	.	.	.	18	239	-	0.0
Cucumber	0	.	.	.	.	0	-	0.0
Egg Plant	0	.	.	.	.	0	-	0.0
FRUITS & VEGETABLES		179	9,734,261		430		609	29.4
Cotton	119	145	17,199,185	14,333	.	119	-	-
Tobacco	0	0	.	.	.	0	-	-
CASH CROPS	119	145	17,199,185	14,333	.	119	-	-
Malay	0	0	.	.	.	0	-	-
Total	21,021	6,136	305,233,691	541,297	3,766	33,323	9,903	62.0

5.70: Planted Area & Number of Households by Local Seeds use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - MERU

Crop	Local Seeds use							% of Planted area using Local seeds
	Number of Households using Local Seeds	Planted Area Applied with Local Seeds	Cost of Local Seeds	Number of Households NOT using Local Seeds	Planted Area Without Local Seeds	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	4,514	2,444	25,307,184	62,103	2,263	8,907	4,707	51.9
Paddy	0	0	.	.	62	244	-	0.0
Sorghum	0	0	.	.	.	0	-	0.0
Finger Millet	0	0	.	.	.	0	-	0.0
Wheat	0	0	.	.	.	0	-	0.0
Barley	0	0	.	.	.	0	-	0.0
CEREALS		2,444	25,307,184		2,325		4,769	51.2
Cassava	0	0	.	.	.	0	-	0.0
Sweet Potato	0	0	.	.	.	0	-	0.0
Irish potatoes	122	49	6,100,469	12,201	.	122	-	-
ROOTS & TUBERS		49	6,100,469		.	122	-	-
Mung Bean	0	0	.	.	.	0	-	0.0
Beans	3,904	1,683	110,016,584	469,370	562	5,246	2,245	75.0
Cowpeas	0	0	.	.	.	0	-	0.0
Green gram	0	0	.	.	.	0	-	0.0
Chick peas	0	0	.	.	49	122	-	0.0
Field Peas	0	0	.	.	.	0	-	0.0
PULSES		1,683	110,016,584		612	5,368	2,294	73.3
Sunflower	0	0	.	.	.	0	-	0.0
Simsim	0	0	.	.	.	0	-	0.0
Groundnut	0	0	.	.	.	0	-	0.0
Soya Beans	0	0	.	.	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	.		.		-	0.0
Okra	122	49	1,464,112	488	12	244	62	80.0
Radish	0	0	.	.	.	0	-	0.0
Turmeric	0	0	.	.	.	0	-	0.0
Bitter Aubergine	122	0	610,047	24,402	62	488	62	0.0
Onion	0	0	.	.	.	0	-	0.0
Cabbage	122	1	219,617	2,196	30	610	32	3.9
Tomatoes	244	31	2,867,220	21,962	627	2,196	658	4.7
Spinach	122	1	61,005	3,050	10	366	11	10.9
Carrot	0	0	.	.	49	244	-	0.0
Chillies	122	1	109,808	1,464	34	488	35	1.8
Amaranths	0	0	.	.	9	366	-	0.0
Cucumber	0	0	.	.	74	244	-	0.0
Egg Plant	0	0	.	.	49	122	-	0.0
FRUITS & VEGETABLES		108	5,331,810		959		1,067	10.2
Cotton	0	0	.	.	.	0	-	0.0
Tobacco	122	74	4,392,337	9,761	.	122	-	-
CASH CROPS								1.9
Total	0	74	.	.	3,895	0	3,969	1.9

5.71:Planted Area & Number of Households by Fungicide use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - MONDULI

Crop	Fungicide use							% of Planted area using Fungicide
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Cost of Fungicide	Number of Households NOT using Fungicide	Planted Area Without Fungicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	572	275	17,860,112	2,572	2,581	3,143	2,856	9.6
Paddy	0	.	.	429	246	429	-	0.0
Sorghum	0	.	.	0	.	0	-	0.0
Finger Millet	0	.	.	0	.	0	-	0.0
Wheat	0	.	.	0	.	0	-	0.0
Barley	0	.	.	0	.	0	-	0.0
CEREALS		275	17,860,112		2,827	3,572	3,102	8.9
Cassava	0	.	.	0	.	0	-	0.0
Sweet Potato	0	.	.	0	.	0	-	0.0
Irish potatoes	0	.	.	0	.	0	-	0.0
ROOTS & TUBERS		.	.		.	0	-	0.0
Mung Bean	0	.	.	0	.	0	-	0.0
Beans	143	58	6,429,640	1,786	1,757	1,929	1,815	3.2
Cowpeas	0	.	.	0	.	0	-	0.0
Green gram	0	.	.	0	.	0	-	0.0
Chick peas	0	.	.	0	.	0	-	0.0
Field Peas	0	.	.	0	.	0	-	0.0
PULSES	143	58	6,429,640	1,786	1,757	1,929	1,815	3.2
Sunflower	0	.	.	0	.	0	-	0.0
Simsim	0	.	.	0	.	0	-	0.0
Groundnut	0	.	.	0	.	0	-	0.0
Soya Beans	0	.	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		.	.		.	0	-	0.0
Okra	0	.	.	0	.	0	-	0.0
Radish	0	.	.	0	.	0	-	0.0
Turmeric	0	.	.	0	.	0	-	0.0
Bitteer	0	.	.	0	.	0	-	0.0
Aubergine	0	.	.	0	.	0	-	0.0
Onion	0	.	.	0	.	0	-	0.0
Cabbage	0	.	.	71	7	71	-	0.0
Tomatoes	143	29	3,786,344	0	.	143	-	0.0
Spinach	0	.	.	0	.	0	-	0.0
Carrot	0	.	.	71	7	71	-	0.0
Chillies	0	.	.	0	.	0	-	0.0
Amaranths	0	.	.	0	.	0	-	0.0
Cucumber	0	.	.	0	.	0	-	0.0
Egg Plant	0	.	.	0	.	0	-	0.0
FRUITS & VEGETABLES		29	3,786,344		14	286	43	66.7
Cotton	0	.	.	0	.	0	-	0.0
Tobacco	0	.	.	0	.	0	-	0.0
CASH CROPS	0	.	.	0	.	0	-	0.0
Malay	0	.	.	0	.	0	-	0.0
Total	857	362	28,076,096	4,929	4,599	5,787	4,960	7.3

5.72:Planted Area & Number of Households by Fungicide use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - ARUSHA

Crop	Fungicide use							% of Planted area using Fungicide
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Cost of Fungicide	Number of Households NOT using Fungicide	Planted Area Without Fungicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	128	140	4,722,232	938	580	1,023	720	19.5
Paddy	0	.	.	0	.	-	-	0.0
Sorghum	0	.	.	0	.	-	-	0.0
Finger Millet	0	.	.	0	.	-	-	0.0
Wheat	0	.	.	0	.	-	-	0.0
Barley	0	.	.	0	.	-	-	0.0
CEREALS		140	4,722,232		580		720	19.5
Cassava	0	.	.	0	.	0	-	0.0
Sweet Potato	0	.	.	0	.	0	-	0.0
Irish potatoes	0	.	.	0	.	0	-	0.0
ROOTS & TUBERS		.	.		.	0	-	0.0
Mung Bean	0	.	.	43	9	43	-	0.0
Beans	43	35	852,388	852	539	895	574	6.0
Cowpeas	0	.	.	128	30	128	-	0.0
Green gram	0	.	.	128	30	128	-	0.0
Chick peas	0	.	.	128	47	128	-	0.0
Field Peas	0	.	.	0	.	0	-	0.0
PULSES		35	852,388		656	1,321	690	5.0
Sunflower	0	.	.	43	9	43	-	0.0
Simsim	0	.	.	0	.	0	-	0.0
Groundnut	0	.	.	0	.	0	-	0.0
Soya Beans	0	.	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		.	.		9		-	0.0
Okra	0	.	.	43	9	43	-	0.0
Radish	0	.	.	0	.	0	-	0.0
Turmeric	0	.	.	0	.	0	-	0.0
Bitteer Aubergine	43	9	426,194	85	13	128	22	40.0
Onion	0	.	.	85	15	85	-	0.0
Cabbage	43	4	426,194	213	33	256	38	11.5
Tomatoes	43	3	340,955	43	9	85	12	28.6
Spinach	85	35	767,150	170	23	256	57	60.4
Carrot	0	.	.	43	4	43	-	0.0
Chillies	0	.	.	128	23	128	-	0.0
Amaranths	0	.	.	170	20	170	-	0.0
Cucumber	0	.	.	0	.	0	-	0.0
Egg Plant	0	.	.	43	9	43	-	0.0
FRUITS & VEGETABLES		51	1,960,493		157		208	24.5
Cotton	0	.	.	0	.	0	-	0.0
Tobacco	0	.	.	0	.	0	-	0.0
CASH CROPS		.	.		.		-	0.0
Malay	0	.	.	0	.	0	-	0.0
Total	384	226	7,535,114	3,282	1,402	3,623	1,627	13.9

5.73:Planted Area & Number of Households by Fungicide use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - KARATU

Crop	Fungicide use							% of Planted area using Fungicide
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Cost of Fungicide	Number of Households NOT using Fungicide	Planted Area Without Fungicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	0	0	.	1,337	945	1,337	945	0.0
Paddy	0	0	.	0	.	0	-	-
Sorghum	0	0	.	0	.	0	-	-
Finger Millet	0	0	.	0	.	0	-	-
Wheat	0	0	.	0	.	0	-	-
Barley	0	0	.	89	36	89	36	0.0
CEREALS		0	.		981		981	0.0
Cassava	0	0	.	0	.	0	-	-
Sweet Potato	0	0	.	446	216	446	216	0.0
Irish potatoes	0	0	.	0	.	0	-	-
ROOTS & TUBERS		0	.		216	446	216	0.0
Mung Bean	0	0	.	0	.	0	-	-
Beans	0	0	.	1,604	1,186	1,604	1,186	0.0
Cowpeas	0	0	.	0	.	0	-	0.0
Green gram	0	0	.	0	.	0	-	0.0
Chick peas	0	0	.	0	.	0	-	0.0
Field Peas	0	0	.	0	.	0	-	0.0
PULSES		0	.		1,186	1,604	1,186	0.0
Sunflower	0	0	.	0	.	0	-	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	0	0	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	.		.		-	0.0
Okra	0	0	.	0	.	0	-	0.0
Radish	0	0	.	0	.	0	-	0.0
Turmeric	0	0	.	0	.	0	-	0.0
Bitteer Aubergine	0	0	.	0	.	0	-	0.0
Onion	178	72	1,425,890	1,426	379	1,604	451	16.0
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
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	0	0	.	0	.	0	-	0.0
FRUITS & VEGETABLES		72	1,425,890		379		451	16.0
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS		0	.		.		-	0.0
Malay	0	0	.	0	.	0	-	0.0
Total	178	72	1,425,890	4,901	2,762	5,080	2,834	2.5

5.74:Planted Area & Number of Households by Fungicide use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - NGORONGORO

Crop	Fungicide use							% of Planted area using Fungicide
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Cost of Fungicide	Number of Households NOT using Fungicide	Planted Area Without Fungicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	0	0	.	568	449	568	449	0.0
Paddy	0	0	.	0	0	0	-	0.0
Sorghum	0	0	.	0	0	0	-	0.0
Finger Millet	0	0	.	0	0	0	-	0.0
Wheat	0	0	.	0	0	0	-	0.0
Barley	0	0	.	0	0	0	-	0.0
CEREALS		0	.		449		449	0.0
Cassava	0	0	.	0	0	0	-	0.0
Sweet Potato	0	0	.	213	72	213	72	0.0
Irish potatoes	0	0	.	0	0	0	-	0.0
ROOTS & TUBERS		0	.		72	213	72	0.0
Mung Bean	0	0	.	0	0	0	-	0.0
Beans	0	0	.	142	33	142	33	0.0
Cowpeas	0	0	.	0	0	0	-	0.0
Green gram	0	0	.	0	0	0	-	0.0
Chick peas	0	0	.	0	0	0	-	0.0
Field Peas	0	0	.	0	0	0	-	0.0
PULSES		0	.		33	142	33	0.0
Sunflower	0	0	.	0	0	0	-	0.0
Simsim	0	0	.	0	0	0	-	0.0
Groundnut	0	0	.	0	0	0	-	0.0
Soya Beans	0	0	.	0	0	0	-	0.0
OIL SEEDS & OIL NUTS		0	.		0		-	0.0
Okra	0	0	.	0	0	0	-	0.0
Radish	0	0	.	0	0	0	-	0.0
Turmeric	0	0	.	0	0	0	-	0.0
Bitter Aubergine	0	0	.	0	0	0	-	0.0
Onion	0	0	.	0	0	0	-	0.0
Cabbage	0	0	.	71	14	71	14	0.0
Tomatoes	0	0	.	355	43	355	43	0.0
Spinach	0	0	.	284	29	284	29	0.0
Carrot	0	0	.	0	0	0	-	0.0
Chillies	0	0	.	0	0	0	-	0.0
Amaranths	0	0	.	0	0	0	-	0.0
Cucumber	0	0	.	0	0	0	-	0.0
Egg Plant	0	0	.	0	0	0	-	0.0
FRUITS & VEGETABLES		0	.		86		86	0.0
Cotton	0	0	.	0	0	0	-	0.0
Tobacco	0	0	.	0	0	0	-	0.0
CASH CROPS		0	.		0		-	0.0
Malay	0	0	.	0	0	0	-	0.0
Total	0	0	.	1634	640	1634	640	0.0

5.75: Planted Area & Number of Households by Fungicide use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - LONGIDO

Crop	Fungicide use							% of Planted area using Fungicide
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Cost of Fungicide	Number of Households NOT using Fungicide	Planted Area Without Fungicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	260	170	4,550,514	3,294	2,799	3,554	2,969	5.7
Paddy	0	.	.	0	.	0	-	0.0
Sorghum	0	.	.	0	.	0	-	0.0
Finger Millet	0	.	.	0	.	0	-	0.0
Wheat	29	281	10,401,175	404	316	433	597	47.1
Barley	0	.	.	0	.	0	-	0.0
CEREALS		450	14,951,689		3,115		3,565	12.6
Cassava	0	.	.	0	.	0	-	0.0
Sweet Potato	0	.	.	29	6	29	-	0.0
Irish potatoes	318	228	8,673,424	0	.	318	-	0.0
ROOTS & TUBERS		228	8,673,424		6	347	234	97.5
Mung Bean	29	12	130,015	29	12	58	23	50.0
Beans	376	412	7,020,793	2,196	1,348	2,514	1,760	23.4
Cowpeas	0	.	.	0	.	0	-	0.0
Green gram	0	.	.	0	.	0	-	0.0
Chick peas	0	.	.	29	6	29	-	0.0
Field Peas	0	.	.	0	.	0	-	-
PULSES		424	7,150,808		1,365	2,600	1,789	23.7
Sunflower	0	.	.	29	18	29	-	0.0
Simsim	0	.	.	0	.	0	-	0.0
Groundnut	0	.	.	0	.	0	-	0.0
Soya Beans	0	.	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		.	.		18		-	0.0
Okra	0	.	.	0	.	0	-	0.0
Radish	0	.	.	0	.	0	-	0.0
Turmeric	0	.	.	0	.	0	-	0.0
Bitteer Aubergine	0	.	.	0	.	0	-	0.0
Onion	29	47	1,155,686	0	.	29	-	0.0
Cabbage	0	.	.	0	.	0	-	0.0
Tomatoes	231	85	8,027,107	58	35	289	120	70.7
Spinach	0	.	.	0	.	0	-	0.0
Carrot	0	.	.	0	.	0	-	0.0
Chillies	0	.	.	0	.	0	-	0.0
Amaranths	0	.	.	0	.	0	-	0.0
Cucumber	0	.	.	0	.	0	-	0.0
Egg Plant	0	.	.	0	.	0	-	0.0
FRUITS & VEGETABLES		132	9,182,793		35		167	78.9
Cotton	0	.	.	0	.	0	-	0.0
Tobacco	0	.	.	29	6	29	-	0.0
CASH CROPS	0	.	.	29	6	29	-	0.0
Malay	0	.	.	0	.	0	-	0.0
Total	1,271	1,234	39,958,713	6,096	4,544	7,310	5,778	21.4

5.76 :Planted Area & Number of Households by Fungicide use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - ARUSHA RURAL

Crop	Fungicide use							% of Planted area using Fungicide
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Cost of Fungicide	Number of Households NOT using Fungicide	Planted Area Without Fungicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	0	0	.	15,527	5,042	15,527	5,042	0.0
Paddy	0	0	.	0	.	0	-	0.0
Sorghum	0	0	.	0	.	0	-	0.0
Finger Millet	0	0	.	119	73	119	73	0.0
Wheat	0	0	.	0	.	0	-	0.0
Barley	0	0	.	0	.	0	-	0.0
CEREALS		0	.		5,115		5,115	0.0
Cassava	0	0	.	0	.	0	-	0.0
Sweet Potato	0	0	.	119	24	119	24	0.0
Irish potatoes	836	496	11,886,309	358	60	1,194	556	89.1
ROOTS & TUBERS		496	11,886,309		85	1,314	580	85.4
Mung Bean	0	0	.	119	97	119	97	0.0
Beans	0	0	.	12,183	3,032	12,183	3,032	0.0
Cowpeas	0	0	.	239	53	239	53	0.0
Green gram	0	0	.	597	157	597	157	0.0
Chick peas	0	0	.	119	19	119	19	0.0
Field Peas	0	0	.	0	.	0	-	0.0
PULSES		0	.		3,357	13,258	3,357	0.0
Sunflower	0	0	.	0	.	0	-	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	0	0	.	478	97	478	97	0.0
OIL SEEDS & OIL NUTS		0	.		97		97	0.0
Okra	0	0	.	0	.	0	-	0.0
Radish	0	0	.	239	94	239	94	0.0
Turmeric	0	0	.	119	77	119	77	0.0
Bitteer Aubergine	119	48	477,755	0	.	119	-	0.0
Onion	119	24	537,475	0	.	119	-	0.0
Cabbage	239	63	3,224,847	597	132	836	195	32.3
Tomatoes	119	27	1,194,388	119	48	239	75	35.5
Spinach	0	0	.	119	16	119	16	0.0
Carrot	358	36	1,731,862	239	24	478	60	60.0
Chillies	0	0	.	0	.	0	-	0.0
Amaranths	0	0	.	239	18	239	18	0.0
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	0	0	.	0	.	0	-	0.0
FRUITS & VEGETABLES		198	7,166,327		411		609	32.6
Cotton	0	0	.	119	145	119	145	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS	0	0	.	119	145	119	145	0.0
Yam	0	0	.	0	.	0	-	0.0
Total	1791.5817	694	19052636	31651	9209	33323	9,903	7.0

5.77:Planted Area & Number of Households by Fungicide use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - MERU

Crop	Fungicide use							% of Planted area using Fungicide
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Cost of Fungicide	Number of Households NOT using Fungicide	Planted Area Without Fungicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	122	25	1,220,094	8,785	4,683	8,907	4,707	0.5
Paddy	0	.	.	244	62	244	-	0.0
Sorghum	0	.	.	0	.	0	-	0.0
Finger Millet	0	.	.	0	.	0	-	0.0
Wheat	0	.	.	0	.	0	-	0.0
Barley	0	.	.	0	.	0	-	0.0
CEREALS		25	1,220,094		4,745		4,769	0.5
Cassava	0	.	.	0	.	0	-	0.0
Sweet Potato	0	.	.	0	.	0	-	0.0
Irish potatoes	0	.	.	122	49	122	-	0.0
ROOTS & TUBERS		.	.		49	122	-	0.0
Mung Bean	0	.	.	0	.	0	-	0.0
Beans	244	99	3,782,291	5,002	2,146	5,246	2,245	4.4
Cowpeas	0	.	.	0	.	0	-	0.0
Green gram	0	.	.	0	.	0	-	0.0
Chick peas	0	.	.	122	49	122	-	0.0
Field Peas	0	.	.	0	.	0	-	0.0
PULSES		99	3,782,291		2,196	5,368	-	0.0
Sunflower	0	.	.	0	.	0	-	0.0
Simsim	0	.	.	0	.	0	-	0.0
Groundnut	0	.	.	0	.	0	-	0.0
Soya Beans	0	.	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		.	.		.		-	0.0
Okra	0	.	.	244	62	244	-	0.0
Radish	0	.	.	0	.	0	-	0.0
Turmeric	0	.	.	0	.	0	-	0.0
Bitter Aubergine	244	49	4,514,347	244	37	488	86	57.1
Onion	0	.	.	0	.	0	-	0.0
Cabbage	610	32	1,464,112	0	.	610	-	0.0
Tomatoes	1,830	510	48,449,922	366	148	2,196	658	77.5
Spinach	366	11	780,860	0	.	366	-	0.0
Carrot	122	25	1,220,094	122	25	244	49	50.0
Chillies	366	10	732,056	122	25	488	35	29.6
Amaranths	366	9	671,052	0	.	366	-	0.0
Cucumber	244	74	4,392,337	0	.	244	-	0.0
Egg Plant	0	.	.	122	49	122	-	0.0
FRUITS & VEGETABLES		721	62,224,780		346		1,067	67.6
Cotton	0	.	.	0	.	0	-	0.0
Tobacco	0	.	.	122	74	122	-	0.0
CASH CROPS		.	.		74		-	0.0
Malay	0	.	.	0	.	0	-	0.0
Total	4,514	845	67,227,164	15,617	7,409	20,132	8,254	10

5.78:Planted Area & Number of Households by Improved Seeds use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - MONDULI

Crop	Improved Seeds use							% of Planted area using Improved Seeds
	Number of Households using Improved Seeds	Planted Area Applied with Improved Seeds	Cost of Improved Seeds	Number of Households NOT using Improved Seeds	Planted Area Without Improved Seeds	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	1,500	1,311	31,851,724	36,649	1,546	3,143	2,856	46
Paddy	143	174	5,358,034	11,430	72	429	246	71
Sorghum	0	0	.	.	.	0	0	0
Finger Millet	0	0	.	.	.	0	0	0
Wheat	0	0	.	.	.	0	0	0
Barley	0	0	.	.	.	0	0	0
CEREALS	1,643	1,484	37,209,757	48,079	1,618	3,572	3,102	48
Cassava	0	0	.	.	.	0	0	0
Sweet Potato	0	0	.	.	.	0	0	0
Irish potatoes	0	0	.	.	.	0	0	0
ROOTS & TUBERS	0	0	.	.	.	0	-	-
Mung Bean	0	0	.	.	.	0	0	0
Beans	429	275	1,560,974	1,357	1,540	1,929	1,815	15
Cowpeas	0	0	.	.	.	0	0	0
Green gram	0	0	.	.	.	0	0	0
Chick peas	0	0	.	.	.	0	0	0
Field Peas	0	0	.	.	.	0	0	0
PULSES	429	275	1,560,974	1,357	1,540	1,929	1,815	15
Sunflower	0	0	.	.	.	0	0	0
Simsim	0	0	.	.	.	0	0	0
Groundnut	0	0	.	.	.	0	0	0
Soya Beans	0	0	.	.	.	0	0	0
OIL SEEDS & OIL NUTS	0	.	.	.	.	0	-	-
Okra	0	0	.	.	.	0	0	0
Radish	0	0	.	.	.	0	0	0
Turmeric	0	0	.	.	.	0	0	0
Bitteer								
Aubergine	0	0	.	.	.	0	0	0
Onion	0	0	.	.	.	0	0	0
Cabbage	71	7	214,321	7,144	.	71	-	-
Tomatoes	143	29	1,643,130	17,860	.	143	-	-
Spinach	0	0	.	.	.	0	0	0
Carrot	71	7	107,161	3,572	.	71	-	-
Chillies	0	0	.	.	.	0	0	0
Amaranths	0	0	.	.	.	0	0	0
Cucumber	0	0	.	.	.	0	0	0
Egg Plant	0	0	.	.	.	0	0	0
FRUITS & VEGETABLES	286	43	1,964,612	28,576	.	286	-	-
Cotton	0	0	.	.	.	0	0	0
Tobacco	0	0	.	.	.	0	0	0
CASH CROPS	0	0	.	.	.	0	0	0
Malay	0	0	.	.	.	0	0	0
Total	2,358	1,802	40,735,343	78,013	3,158	5,787	4,960	36

5.79:Planted Area & Number of Households by Improved Seeds use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - ARUSHA

Crop	Improved Seeds use							% of Planted area using Improved Seeds
	Number of Households using Improved Seeds	Planted Area Applied with Improved Seeds	Cost of Improved Seeds	Number of Households NOT using Improved Seeds	Planted Area Without Improved Seeds	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	767	531	24,591,407	11,763	190	1,023	720	73.7
Paddy	0	0	.	.	.	-	-	0.0
Sorghum	0	0	.	.	.	-	-	0.0
Finger Millet	0	0	.	.	.	-	-	0.0
Wheat	0	0	.	.	.	-	-	0.0
Barley	0	0	.	.	.	-	-	0.0
CEREALS		531	24,591,407		190		720	73.7
Cassava	0	0	.	.	.	0	-	0.0
Sweet Potato	0	0	.	.	.	0	-	0.0
Irish potatoes	0	0	.	.	.	0	-	0.0
ROOTS & TUBERS		0	.		.	0	-	0.0
Mung Bean	43	9	21,310	341	.	43	-	-
Beans	170	145	10,974,502	4,347	429	895	574	25.2
Cowpeas	0	0	.	.	30	128	-	0.0
Green gram	43	4	213,097	170	26	128	30	14.3
Chick peas	0	0	.	.	47	128	-	0.0
Field Peas	0	0	.	.	.	0	-	0.0
PULSES		157	11,208,908		533	1,321	690	22.8
Sunflower	0	0	.	.	9	43	-	0.0
Simsim	0	0	.	.	.	0	-	0.0
Groundnut	0	0	.	.	.	0	-	0.0
Soya Beans	0	0	.	.	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	.		9		-	0.0
Okra	43	9	127,858	8,524	.	43	-	-
Radish	0	0	.	.	.	0	-	0.0
Turmeric	0	0	.	.	.	0	-	0.0
Bitteer	128	0	362,265	50,291	.	128	-	-
Aubergine	85	15	3,963,606	1,279	.	85	-	-
Cabbage	213	24	345,217	33,030	14	256	38	62.7
Tomatoes	85	12	383,575	6,393	.	85	-	-
Spinach	256	50	1,653,634	20,884	8	256	57	86.8
Carrot	43	4	42,619	5,541	.	43	-	-
Chillies	128	23	895,008	8,652	.	128	-	-
Amaranths	170	20	468,814	34,138	.	170	-	-
Cucumber	0	0	.	.	.	0	-	0.0
Egg Plant	43	9	119,334	4,262	.	43	-	-
FRUITS & VEGETABLES		186	8,361,931		22		208	89.6
Cotton	0	0	.	.	.	0	-	0.0
Tobacco	0	0	.	.	.	0	-	0.0
CASH CROPS		0	.		.		-	0.0
Malay	0	0	.	.	.	0	-	0.0
Total	2,216	874	44,162,247	189,614	753	3,623	1,627	53.7

**5.80:Planted Area & Number of Households by Improved Seeds use by Crop during 2007/08 agriculture year
- SHORT RAINY SEASON - KARATU**

Crop	Improved Seeds use							% of Planted area using Improved Seeds
	Number of Households using Improved Seeds	Planted Area Applied with Improved Seeds	Cost of Improved Seeds	Number of Households NOT using Improved Seeds	Planted Area Without Improved Seeds	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	624	370	18,465,270	6,862	575	1,337	945	39.2
Paddy	0	0	.	.	.	0	-	0.0
Sorghum	0	0	.	.	.	0	-	0.0
Finger Millet	0	0	.	.	.	0	-	0.0
Wheat	0	0	.	.	.	0	-	0.0
Barley	89	36	3,297,370	4,456	.	89	-	-
CEREALS		406	21,762,640		575		981	41.4
Cassava	0	0	.	.	.	0	-	0.0
Sweet Potato	0	0	.	.	216	446	-	0.0
Irish potatoes	0	0	.	.	.	0	-	0.0
ROOTS & TUBERS		0	.		216	446	-	0.0
Mung Bean	0	0	.	.	.	0	-	0.0
Beans	0	0	.	.	1,186	1,604	-	0.0
Cowpeas	0	0	.	.	.	0	-	0.0
Green gram	0	0	.	.	.	0	-	0.0
Chick peas	0	0	.	.	.	0	-	0.0
Field Peas	0	0	.	.	.	0	-	0.0
PULSES		0	.		1,186	1,604	-	0.0
Sunflower	0	0	.	.	.	0	-	0.0
Simsim	0	0	.	.	.	0	-	0.0
Groundnut	0	0	.	.	.	0	-	0.0
Soya Beans	0	0	.	.	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	.		.		-	0.0
Okra	0	0	.	.	.	0	-	0.0
Radish	0	0	.	.	.	0	-	0.0
Turmeric	0	0	.	.	.	0	-	0.0
Bitter Aubergine	0	0	.	.	.	0	-	0.0
Onion	980	280	9,303,929	9,447	171	1,604	451	62.0
Cabbage	0	0	.	.	.	0	-	0.0
Tomatoes	0	0	.	.	.	0	-	0.0
Spinach	0	0	.	.	.	0	-	0.0
Carrot	0	0	.	.	.	0	-	0.0
Chillies	0	0	.	.	.	0	-	0.0
Amaranths	0	0	.	.	.	0	-	0.0
Cucumber	0	0	.	.	.	0	-	0.0
Egg Plant	0	0	.	.	.	0	-	0.0
FRUITS & VEGETABLES		280	9,303,929		171		451	62.0
Cotton	0	0	.	.	.	0	-	0.0
Tobacco	0	0	.	.	.	0	-	0.0
CASH CROPS		0	.		.		-	0.0
Malay	0	0	.	.	.	0	-	0.0
Total	1,693	686	31,066,569	20,765	2,149	5,080	2,834	24.2

5.81: Planted Area & Number of Households by Improved Seeds use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - NGORONGORO

Crop	Improved Seeds use							% of Planted area using Improved Seeds
	Number of Households using Improved Seeds	Planted Area Applied with Improved Seeds	Cost of Improved Seeds	Number of Households NOT using Improved Seeds	Planted Area Without Improved Seeds	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	71	122	14,210	2,132	327	568	449	27.2
Paddy	0	0	.	.	.	0	-	0.0
Sorghum	0	0	.	.	.	0	-	0.0
Finger Millet	0	0	.	.	.	0	-	0.0
Wheat	0	0	.	.	.	0	-	0.0
Barley	0	0	.	.	.	0	-	0.0
CEREALS	71	122	14,210	2,132	327	568	449	27.2
Cassava	0	0	.	.	.	0	-	0.0
Sweet Potato	71	7	142,101	35,525	65	213	72	10.0
Irish potatoes	0	0	.	.	.	0	-	0.0
ROOTS & TUBERS	71	7	142,101	35,525	65	213	72	10.0
Mung Bean	0	0	.	.	.	0	-	0.0
Beans	0	0	.	.	33	142	-	0.0
Cowpeas	0	0	.	.	.	0	-	0.0
Green gram	0	0	.	.	.	0	-	0.0
Chick peas	0	0	.	.	.	0	-	0.0
Field Peas	0	0	.	.	.	0	-	0.0
PULSES	0	0	.	.	33	142	-	0.0
Sunflower	0	0	.	.	.	0	-	0.0
Simsim	0	0	.	.	.	0	-	0.0
Groundnut	0	0	.	.	.	0	-	0.0
Soya Beans	0	0	.	.	.	0	-	0.0
OIL SEEDS & OIL NUTS	0	0	.	.	.	0	-	0.0
Okra	0	0	.	.	.	0	-	0.0
Radish	0	0	.	.	.	0	-	0.0
Turmeric	0	0	.	.	.	0	-	0.0
Bitter Aubergine	0	0	.	.	.	0	-	0.0
Onion	0	0	.	.	.	0	-	0.0
Cabbage	71	14	177,627	1,776	.	71	-	-
Tomatoes	142	22	426,304	3,553	22	355	43	50.0
Spinach	142	14	298,413	8,881	14	284	29	50.0
Carrot	0	0	.	.	.	0	-	0.0
Chillies	0	0	.	.	.	0	-	0.0
Amaranths	0	0	.	.	.	0	-	0.0
Cucumber	0	0	.	.	.	0	-	0.0
Egg Plant	0	0	.	.	.	0	-	0.0
FRUITS & VEGETABLES	355	50	902,343	14,210	36	711	86	58.3
Cotton	0	0	.	.	.	0	-	0.0
Tobacco	0	0	.	.	.	0	-	0.0
CASH CROPS	0	0	.	.	.	0	-	0.0
Malay	0	0	.	.	.	0	-	0.0
Total	497	180	1,058,655	51,867	460	1,634	640	28

5.82: Planted Area & Number of Households by Improved Seeds use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - LONGIDO

Crop	Improved Seeds use							% of Planted area using Improved Seeds
	Number of Households using Improved Seeds	Planted Area Applied with Improved Seeds	Cost of Improved Seeds	Number of Households NOT using Improved Seeds	Planted Area Without Improved Seeds	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	1,878	1,901	80,030,077	42,789	1,068	3,554	2,969	64.0
Paddy	0	0	.	.	.	0	-	0.0
Sorghum	0	0	.	.	.	0	-	0.0
Finger Millet	0	0	.	.	.	0	-	0.0
Wheat	87	339	6,934,116	48,539	257	433	597	56.9
Barley	0	0	.	.	.	0	-	0.0
CEREALS		2,240	86,964,193		1,325		3,565	62.8
Cassava	0	.	.	.	.	0	-	0.0
Sweet Potato	0	.	.	.	6	29	-	0.0
Irish potatoes	231	70	29,758,917	341,505	158	318	228	30.8
ROOTS & TUBERS		70	29,758,917		164	347	234	30.0
Mung Bean	29	12	577,843	1,156	12	58	23	50.0
Beans	665	485	25,537,773	26,119	1,274	2,514	1,760	27.6
Cowpeas	0	0	.	.	.	0	-	0.0
Green gram	0	0	.	.	.	0	-	0.0
Chick peas	0	0	.	.	6	29	-	0.0
Field Peas	0	0	.	.	.	0	-	0.0
PULSES		497	26,115,616		1,292	2,600	1,789	27.8
Sunflower	29	18	144,461	29	.	29	-	-
Simsim	0	0	.	.	.	0	-	0.0
Groundnut	0	0	.	.	.	0	-	0.0
Soya Beans	0	0	.	.	.	0	-	0.0
OIL SEEDS & OIL NUTS		18	144,461		.		-	-
Okra	0	0	.	.	.	0	-	0.0
Radish	0	0	.	.	.	0	-	0.0
Turmeric	0	0	.	.	.	0	-	0.0
Bitteer Aubergine	0	0	.	.	.	0	-	0.0
Onion	29	47	7,396,391	55,473	.	29	-	-
Cabbage	0	0	.	.	.	0	-	0.0
Tomatoes	231	85	3,790,650	49,983	35	289	120	70.7
Spinach	0	0	.	.	.	0	-	0.0
Carrot	0	0	.	.	.	0	-	0.0
Chillies	0	0	.	.	.	0	-	0.0
Amaranths	0	0	.	.	.	0	-	0.0
Cucumber	0	0	.	.	.	0	-	0.0
Egg Plant	0	0	.	.	.	0	-	0.0
FRUITS & VEGETABLES		132	11,187,041		35		167	78.9
Cotton	0	0	.	.	.	0	-	0.0
Tobacco	0	0	.	.	6	29	-	0.0
CASH CROPS	0	0	.	.	6	29	-	0.0
Malay	0	0	.	.	.	0	-	0.0
Total	3,178	2,956	154,170,228		2,822		5,778	51.2

5.83: Planted Area & Number of Households by Improved Seeds use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - ARUSHA RURAL

Crop	Improved Seeds use							% of Planted area using Improved Seeds
	Number of Households using Improved Seeds	Planted Area Applied with Improved Seeds	Cost of Improved Seeds	Number of Households NOT using Improved Seeds	Planted Area Without Improved Seeds	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	7,883	2,124	102,651,661	64,855	2,918	15,527	5,042	42.1
Paddy	0	0	.	.	.	0	-	0.0
Sorghum	0	0	.	.	.	0	-	0.0
Finger Millet	119	73	716,633	11,944	.	119	-	-
Wheat	0	0	.	.	.	0	-	0.0
Barley	0	0	.	.	.	0	-	0.0
CEREALS		2,196	103,368,294		2,918		5,115	42.9
Cassava	0	0	.	.	.	0	-	0.0
Sweet Potato	119	24	3,583,163	1,194	.	119	-	-
Irish potatoes	119	12	7,166,327	11,944	544	1,194	556	2.2
ROOTS & TUBERS		36	10,749,490		544	1,314	580	6.3
Mung Bean	119	97	6,688,572	239	.	119	-	-
Beans	1,792	295	23,172,318	43,715	2,737	12,183	3,032	9.7
Cowpeas	0	0	.	.	53	239	-	0.0
Green gram	0	0	.	.	157	597	-	0.0
Chick peas	119	19	716,633	358	.	119	-	-
Field Peas	0	0	.	.	.	0	-	0.0
PULSES		411	30,577,523		2,946	13,258	3,357	12.2
Sunflower	0	0	.	.	.	0	-	0.0
Simsim	0	0	.	.	.	0	-	0.0
Groundnut	0	0	.	.	.	0	-	0.0
oya Beans	119	12	167,214	239	85	478	97	12.5
OIL SEEDS & OIL NUTS		12	167,214		85		97	12.5
Okra	0	0	.	.	.	0	-	0.0
Radish	119	54	716,633	1,194	40	239	94	57.7
Turmeric	0	0	.	.	77	119	-	0.0
Bitteer Aubergine	0	0	.	.	48	119	-	0.0
Onion	119	24	4,598,393	59,719	.	119	-	-
Cabbage	597	163	18,584,675	164,228	31	836	195	83.9
Tomatoes	239	51	3,702,602	62,705	24	239	75	67.7
Spinach	119	16	955,510	11,944	.	119	-	-
Carrot	478	60	3,593,913	149,298	.	478	-	-
Chillies	0	0	.	.	.	0	-	0.0
Amaranths	239	18	298,597	19,110	.	239	-	-
Cucumber	0	0	.	.	.	0	-	0.0
Egg Plant	0	0	.	.	.	0	-	0.0
FRUITS & VEGETABLES		388	32,450,323		221		609	63.7
Cotton	0	0	.	.	145	119	-	0.0
Tobacco	0	0	.	.	.	0	-	0.0
CASH CROPS	0	0	.	.	145	119	-	0.0
Malay	0	0	.	.	.	0	-	0.0
Total	12,302	3,044	177,312,844	602,688	6,859	33,323	9,903	31

5.84: Planted Area & Number of Households by Improved Seeds use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - MERU

Crop	Improved Seeds use							% of Planted area using Improved Seeds
	Number of Households using Improved Seeds	Planted Area Applied with Improved Seeds	Cost of Improved Seeds	Number of Households NOT using Improved Seeds	Planted Area Without Improved Seeds	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	4,392	2,085	139,185,852	58,564	2,623	8,907	4,707	44.3
Paddy	244	62	976,075	3,416	.	244	-	-
Sorghum	0	0	.	.	.	0	-	0.0
Finger Millet	0	0	.	.	.	0	-	0.0
Wheat	0	0	.	.	.	0	-	0.0
Barley	0	0	.	.	.	0	-	0.0
CEREALS		2,146	140,161,927		2,623	9,151	4,769	45.0
Cassava	0	0	.	.	.	0	-	0.0
Sweet Potato	0	0	.	.	.	0	-	0.0
Irish potatoes	0	0	.	.	49	122	-	0.0
ROOTS & TUBERS		0	.		49	122	-	0.0
Mung Bean	0	0	.	.	.	0	-	0.0
Beans	1,342	562	30,770,764	42,459	1,683	5,246	2,245	25.0
Cowpeas	0	0	.	.	.	0	-	0.0
Green gram	0	0	.	.	.	0	-	0.0
Chick peas	122	49	2,440,187	2,440	.	122	-	-
Field Peas	0	0	.	.	.	0	-	0.0
PULSES	1,464	612	33,210,951	44,899	1,683	5,368	2,294	26.7
Sunflower	0	0	.	.	.	0	-	0.0
Simsim	0	0	.	.	.	0	-	0.0
Groundnut	0	0	.	.	.	0	-	0.0
Soya Beans	0	0	.	.	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	.		.	0	-	-
Okra	122	12	61,005	6,100	49	244	62	20.0
Radish	0	0	.	.	.	0	-	0.0
Turmeric	0	0	.	.	.	0	-	0.0
Bitter Aubergine	366	0	1,159,089	24,402	25	488	25	0.0
Onion	0	0	.	.	.	0	-	0.0
Cabbage	488	27	829,664	29,282	5	610	32	84.4
Tomatoes	1,952	573	31,033,084	286,722	85	2,196	658	87.1
Spinach	244	6	280,622	6,100	5	366	11	56.5
Carrot	244	49	2,440,187	24,402	.	244	-	-
Chillies	366	33	2,086,360	29,892	2	488	35	93.0
Amaranths	366	9	634,449	3,782	.	366	-	-
Cucumber	244	74	5,124,394	48,804	.	244	-	-
Egg Plant	122	49	1,464,112	18,301	.	122	-	-
FRUITS & VEGETABLES		895	45,112,966		172	5,368	1,067	83.9
Cotton	0	0	.	.	.	0	-	0.0
Tobacco	0	0	.	.	74	122	-	0.0
CASH CROPS	0	0	.	.	74	122	-	0.0
Total	10,615	3,653	218,485,844	584,669	4,601	20,132	8,254	44.3

5.85 : Planted Area & Number of Crop Growing Households by Herbicide use and Crop for the 2007/08 agriculture year - SHORT RAINY SEASON (VULI) -Monduli

Crop	Herbicide use							% of Planted area using Herbicide
	Number of Households using Herbicide	Planted Area Applied with Herbicide	Cost of Herbicide	Number of Households NOT using Herbicide	Planted Area Without Herbicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	643	275	17,874,400	2,786	2,581	3,143	2,856	9.6
Paddy	0	0	.	429	246	429	246	0.0
Sorghum	0	0	.	0	.	0	-	0.0
Finger Millet	0	0	.	0	.	0	-	0.0
Wheat	0	0	.	0	.	0	-	0.0
Barley	0	0	.	0	.	0	-	0.0
CEREALS		275	17,874,400		2,827	3,572	3,102	8.9
Cassava	0	0	.	0	.	0	-	0.0
Sweet Potato	0	0	.	0	.	0	-	0.0
Irish potatoes	0	0	.	0	.	0	-	0.0
ROOTS & TUBERS		0	.		.	0	-	0.0
Mung Bean	0	0	.	0	.	0	-	0.0
Beans	143	29	4,286,427	1,929	1,786	1,929	1,815	1.6
Cowpeas	0	0	.	0	.	0	-	0.0
Green gram	0	0	.	0	.	0	-	0.0
Chick peas	0	0	.	0	.	0	-	0.0
Field Peas	0	0	.	0	.	0	-	0.0
PULSES	143	29	4,286,427	1,929	1,786	1,929	1,815	1.6
Sunflower	0	0	.	0	.	0	-	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	0	0	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	.		.	0	-	0.0
Okra	0	0	.	0	.	0	-	0.0
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
Cabbage	0	0	.	71	7	71	7	0.0
Tomatoes	71	14	357,202	71	14	143	29	50.0
Spinach	0	0	.	0	.	0	-	0.0
Carrot	0	0	.	71	7	71	7	0.0
Chillies	0	0	.	0	.	0	-	0.0
Amaranths	0	0	.	0	.	0	-	0.0
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	0	0	.	0	.	0	-	0.0
FRUITS & VEGETABLES		14	357,202		29	286	43	33.3
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS	0	0	.	0	.	0	-	0.0
Malay	0	0	.	0	.	0	-	0.0
Total	857	318	22,518,029	5,358	4,642	5,787	4,960	6.4

5.86 :Planted Area & Number of Crop Growing Households by Herbicide use and Crop for the 2007/08 agriculture year - SHORT RAINY SEASON (VULI) - Arusha

Crop	Herbicide use							% of Planted area using Herbicide
	Number of Households using Herbicide	Planted Area Applied with Herbicide	Cost of Herbicide	Number of Households NOT using Herbicide	Planted Area Without Herbicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	43	43	1,278,583	980	677	1,023	720	6.0
Paddy	0	0	.	0	.	0	-	0.0
Sorghum	0	0	.	0	.	0	-	0.0
Finger Millet	0	0	.	0	.	0	-	0.0
Wheat	0	0	.	0	.	0	-	0.0
Barley	0	0	.	0	.	0	-	0.0
CEREALS		43	1,278,583		677	1,023	720	6.0
Cassava	0	0	.	0	.	0	-	0.0
Sweet Potato	0	0	.	0	.	0	-	0.0
Irish potatoes	0	0	.	0	.	0	-	0.0
ROOTS & TUBERS		0	.		.	0	-	-
Mung Bean	0	0	.	43	9	43	9	0.0
Beans	43	43	1,278,583	852	531	895	574	7.5
Cowpeas	0	0	.	128	30	128	30	0.0
Green gram	0	0	.	128	30	128	30	0.0
Chick peas	0	0	.	128	47	128	47	0.0
Field Peas	0	0	.	0	.	0	-	0.0
PULSESES	43	43	1,278,583	1,279	647	1,321	690	6.3
Sunflower	0	0	.	43	9	43	9	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	0	0	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	.		9	43	9	0.0
Okra	0	0	.	43	9	43	9	0.0
Radish	0	0	.	0	.	0	-	0.0
Turmeric	0	0	.	0	.	0	-	0.0
Bitteer Aubergine	0	0	.	128	22	128	22	0.0
Onion	0	0	.	85	15	85	15	0.0
Cabbage	0	0	.	256	38	256	38	0.0
Tomatoes	43	3	1,065,486	43	9	85	12	28.6
Spinach	0	0	.	256	57	256	57	0.0
Carrot	0	0	.	43	4	43	4	0.0
Chillies	0	0	.	128	23	128	23	0.0
Amaranths	0	0	.	170	20	170	20	0.0
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	0	0	.	43	9	43	9	0.0
FRUITS & VEGETABLES		3	1,065,486		204	1,236	208	1.7
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS	0	0	.	0	.	0	-	-
Malay	0	0	.	0	.	0	-	0.0
Total	128	90	3,622,651	3,495	1,537	3,623	1,627	5.5

5.87 :Planted Area & Number of Crop Growing Households by Herbicide use and Crop for the 2007/08 agriculture year - SHORT RAINY SEASON (VULI) - Karatu

Crop	Herbicide use							% of Planted area using Herbicide
	Number of Households using Herbicide	Planted Area Applied with Herbicide	Cost of Herbicide	Number of Households NOT using Herbicide	Planted Area Without Herbicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	0	0	.	1,337	945	1,337	945	0.0
Paddy	0	0	.	0	.	0	-	0.0
Sorghum	0	0	.	0	.	0	-	0.0
Finger Millet	0	0	.	0	.	0	-	0.0
Wheat	0	0	.	0	.	0	-	0.0
Barley	0	0	.	89	36	89	36	0.0
CEREALS		0	.		981	1,426	981	0.0
Cassava	0	0	.	0	.	0	-	0.0
Sweet Potato	0	0	.	446	216	446	216	0.0
Irish potatoes	0	0	.	0	.	0	-	0.0
ROOTS & TUBERS		0	.		216		216	0.0
Mung Bean	0	0	.	0	.	0	-	0.0
Beans	0	0	.	1,604	1,186	1,604	1,186	0.0
Cowpeas	0	0	.	0	.	0	-	0.0
Green gram	0	0	.	0	.	0	-	0.0
Chick peas	0	0	.	0	.	0	-	0.0
Field Peas	0	0	.	0	.	0	-	0.0
PULSESES	0	0	.	1,604	1,186	1,604	1,186	0.0
Sunflower	0	0	.	0	.	0	-	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	0	0	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	.		.		-	-
Okra	0	0	.	0	.	0	-	0.0
Radish	0	0	.	0	.	0	-	0.0
Turmeric	0	0	.	0	.	0	-	0.0
Bitter Aubergine	0	0	.	0	.	0	-	0.0
Onion	178	72	6,683,857	1,426	379	1,604	451	16.0
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
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	0	0	.	0	.	0	-	0.0
FRUITS & VEGETABLES		72	6,683,857		379		451	16.0
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS	0	0	.	0	.	0	-	-
Malay	0	0	.	0	.	0	-	0.0
Total	178	72	6,683,857	4,901	2,762	5,080	2,834	2.5

5.88 :Planted Area & Number of Crop Growing Households by Herbicide use and Crop for the 2007/08 agriculture year - SHORT RAINY SEASON (VULI) - Ngorongoro

Crop	Herbicide use							% of Planted area using Herbicide
	Number of Households using Herbicide	Planted Area Applied with Herbicide	Cost of Herbicide	Number of Households NOT using Herbicide	Planted Area Without Herbicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	0	0	.	568	449	568	449	0.0
Paddy	0	0	.	0	.	0	-	0.0
Sorghum	0	0	.	0	.	0	-	0.0
Finger Millet	0	0	.	0	.	0	-	0.0
Wheat	0	0	.	0	.	0	-	0.0
Barley	0	0	.	0	.	0	-	0.0
CEREALS		0	.		449	568	449	0.0
Cassava	0	0	.	0	.	0	-	0.0
Sweet Potato	0	0	.	213	72	213	72	0.0
Irish potatoes	0	0	.	0	.	0	-	0.0
ROOTS & TUBERS		0	.		72	213	72	0.0
Mung Bean	0	0	.	0	.	0	-	0.0
Beans	0	0	.	142	33	142	33	0.0
Cowpeas	0	0	.	0	.	0	-	0.0
Green gram	0	0	.	0	.	0	-	0.0
Chick peas	0	0	.	0	.	0	-	0.0
Field Peas	0	0	.	0	.	0	-	0.0
PULSES	0	0	.	142	33	142	33	0.0
Sunflower	0	0	.	0	.	0	-	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	0	0	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	.			0	-	-
Okra	0	0	.	0	.	0	-	0.0
Radish	0	0	.	0	.	0	-	0.0
Turmeric	0	0	.	0	.	0	-	0.0
Bitter Aubergine	0	0	.	0	.	0	-	0.0
Onion	0	0	.	0	.	0	-	0.0
Cabbage	0	0	.	71	14	71	14	0.0
Tomatoes	71	7	497,355	284	36	355	43	16.7
Spinach	71	7	497,355	213	22	284	29	25.0
Carrot	0	0	.	0	.	0	-	0.0
Chillies	0	0	.	0	.	0	-	0.0
Amaranths	0	0	.	0	.	0	-	0.0
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	0	0	.	0	.	0	-	0.0
FRUITS & VEGETABLES		14	994,709		72	711	86	16.7
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS		0	.			0	-	0.0
Malay	0	0	.	0	.	0	-	0.0
Total	142	14	994,709	1,492	626	1,634	640	2.2

5.89 :Planted Area & Number of Crop Growing Households by Herbicide use and Crop for the 2007/08 agriculture year - SHORT RAINY SEASON (VULI) - Longido

Crop	Herbicide use							% of Planted area using Herbicide
	Number of Households using Herbicide	Planted Area Applied with Herbicide	Cost of Herbicide	Number of Households NOT using Herbicide	Planted Area Without Herbicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	982	655	36,597,805	2,571	2,314	3,554	2,969	22.1
Paddy	0	.	.	0	.	0	-	0.0
Sorghum	0	.	.	0	.	0	-	0.0
Finger Millet	0	.	.	0	.	0	-	0.0
Wheat	318	246	7,511,960	116	351	433	597	41.2
Barley	0	.	.	0	.	0	-	0.0
CEREALS		901	44,109,764		2,665	3,987	3,565	25.3
Cassava	0	.	.	0	.	0	-	0.0
Sweet Potato	0	.	.	29	6	29	-	0.0
Irish potatoes	289	222	5,394,165	29	6	318	228	97.4
ROOTS & TUBERS		222	5,394,165		12	347	234	95.0
Mung Bean	29	12	130,015	29	12	58	23	50.0
Beans	636	749	17,104,154	1,878	1,011	2,514	1,760	42.5
Cowpeas	0	.	.	0	.	0	-	0.0
Green gram	0	.	.	0	.	0	-	0.0
Chick peas	29	6	0	0	.	29	-	0.0
Field Peas	0	.	.	0	.	0	-	0.0
PULSES	693	766	17,234,169	1,907	1,023	2,600	1,789	42.8
Sunflower	0	.	.	29	18	29	-	0.0
Simsim	0	.	.	0	.	0	-	0.0
Groundnut	0	.	.	0	.	0	-	0.0
Soya Beans	0	.	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		.	.		18	29	-	0.0
Okra	0	.	.	0	.	0	-	0.0
Radish	0	.	.	0	.	0	-	0.0
Turmeric	0	.	.	0	.	0	-	0.0
Bitteer								
Aubergine	0	.	.	0	.	0	-	0.0
Onion	0	.	.	29	47	29	-	0.0
Cabbage	0	.	.	0	.	0	-	0.0
Tomatoes	144	50	3,426,609	144	70	289	120	41.5
Spinach	0	.	.	0	.	0	-	0.0
Carrot	0	.	.	0	.	0	-	0.0
Chillies	0	.	.	0	.	0	-	0.0
Amaranths	0	.	.	0	.	0	-	0.0
Cucumber	0	.	.	0	.	0	-	0.0
Egg Plant	0	.	.	0	.	0	-	0.0
FRUITS & VEGETABLES		50	3,426,609		117	318	167	29.8
Cotton	0	.	.	0	.	0	-	0.0
Tobacco	0	.	.	29	6	29	-	0.0
CASH CROPS	0	.	.	29	6	29	-	0.0
Malay	0	.	.	0	.	0	-	0.0
Total	2,427	1,939	70,164,707	4,883	3,840	7,310	5,778	33.6

5.90 :Planted Area & Number of Crop Growing Households by Herbicide use and Crop for the 2007/08 agriculture year - SHORT RAINY SEASON (VULI) - Arusha Rural

Crop	Herbicide use							% of Planted area using Herbicide
	Number of Households using Herbicide	Planted Area Applied with Herbicide	Cost of Herbicide	Number of Households NOT using Herbicide	Planted Area Without Herbicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	0	0	.	15,527	5,042	15,527	5,042	0.0
Paddy	0	0	.	0	.	0	-	0.0
Sorghum	0	0	.	0	.	0	-	0.0
Finger Millet	0	0	.	119	73	119	73	0.0
Wheat	0	0	.	0	.	0	-	0.0
Barley	0	0	.	0	.	0	-	0.0
CEREALS		0	.		5,115	15,646	5,115	0.0
Cassava	0	0	.	0	.	0	-	0.0
Sweet Potato	0	0	.	119	24	119	24	0.0
Irish potatoes	0	0	.	1,194	556	1,194	556	0.0
ROOTS & TUBERS		0	.		580	1,314	580	0.0
Mung Bean	0	0	.	119	97	119	97	0.0
Beans	0	0	.	12,183	3,032	12,183	3,032	0.0
Cowpeas	0	0	.	239	53	239	53	0.0
Green gram	0	0	.	597	157	597	157	0.0
Chick peas	0	0	.	119	19	119	19	0.0
Field Peas	0	0	.	0	.	0	-	0.0
PULSES	0	0	.	13,258	3,357	13,258	3,357	0.0
Sunflower	0	0	.	0	.	0	-	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	0	0	.	478	97	478	97	0.0
OIL SEEDS & OIL NUTS		0	.		97	478	97	0.0
Okra	0	0	.	0	.	0	-	0.0
Radish	0	0	.	239	94	239	94	0.0
Turmeric	0	0	.	119	77	119	77	0.0
Bitteer Aubergine	0	0	.	119	48	119	48	0.0
Onion	0	0	.	119	24	119	24	0.0
Cabbage	119	48	1,791,582	717	147	836	195	24.8
Tomatoes	0	0	.	239	75	239	75	0.0
Spinach	0	0	.	119	16	119	16	0.0
Carrot	239	24	1,194,388	358	36	478	60	40.0
Chillies	0	0	.	0	.	0	-	0.0
Amaranths	0	0	.	239	18	239	18	0.0
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	0	0	.	0	.	0	-	0.0
FRUITS & VEGETABLES		73	2,985,970		536	2,508	609	11.9
Cotton	0	0	.	119	145	119	145	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS		0	.		145	119	145	0.0
Malay	0	0	.	0	.	0	-	0.0
Total	358	73	2,985,970	33,085	9,830	33,323	9,903	0.7

5.91 :Planted Area & Number of Crop Growing Households by Herbicide use and Crop for the 2007/08 agriculture year - SHORT RAINY SEASON (VULI) - Meru

Crop	Herbicide use							% of Planted area using Herbicide
	Number of Households using Herbicide	Planted Area Applied with Herbicide	Cost of Herbicide	Number of Households NOT using Herbicide	Planted Area Without Herbicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	732	519	12,310,746	8,175	4,189	8,907	4,707	11.0
Paddy	0	.	.	244	62	244	-	0.0
Sorghum	0	.	.	0	.	0	-	0.0
Finger Millet	0	.	.	0	.	0	-	0.0
Wheat	0	.	.	0	.	0	-	0.0
Barley	0	.	.	0	.	0	-	0.0
CEREALS		519	12,310,746		4,251	9,151	4,769	10.9
Cassava	0	.	.	0	.	0	-	0.0
Sweet Potato	0	.	.	0	.	0	-	0.0
Irish potatoes	0	.	.	122	49	122	-	0.0
ROOTS & TUBERS		.	.		49	122	-	0.0
Mung Bean	0	.	.	0	.	0	-	0.0
Beans	244	247	9,028,694	5,002	1,998	5,246	2,245	11.0
Cowpeas	0	.	.	0	.	0	-	0.0
Green gram	0	.	.	0	.	0	-	0.0
Chick peas	0	.	.	122	49	122	-	0.0
Field Peas	0	.	.	0	.	0	-	0.0
PULSESES	244	247	9,028,694	5,124	2,047	5,368	2,294	10.8
Sunflower	0	.	.	0	.	0	-	0.0
Simsim	0	.	.	0	.	0	-	0.0
Groundnut	0	.	.	0	.	0	-	0.0
Soya Beans	0	.	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		.	.		.	0	-	0.0
Okra	0	.	.	244	62	244	-	0.0
Radish	0	.	.	0	.	0	-	0.0
Turmeric	0	.	.	0	.	0	-	0.0
Bitter Aubergine	0	.	.	488	86	488	-	0.0
Onion	0	.	.	0	.	0	-	0.0
Cabbage	366	22	658,851	244	10	610	32	68.8
Tomatoes	854	137	7,552,380	1,342	521	2,196	658	20.9
Spinach	122	4	390,430	244	7	366	11	34.8
Carrot	244	49	2,440,187	0	.	244	-	0.0
Chillies	244	8	634,449	244	27	488	35	22.5
Amaranths	244	4	488,037	122	5	366	9	47.4
Cucumber	122	25	1,952,150	122	49	244	74	33.3
Egg Plant	0	.	.	122	49	122	-	0.0
FRUITS & VEGETABLES		249	14,116,484		818	5,368	1,067	23.4
Cotton	0	.	.	0	.	0	-	0.0
Tobacco	0	.	.	122	74	122	-	0.0
CASH CROPS	0	.	.	122	74	122	-	0.0
Malay	0	.	.	0	.	0	-	0.0
Total	3,172	1,015	35,455,924	16,959	7,239	20,132	8,254	12.3

5.92 :Planted Area & Number of Crop Growing Households by use of Irrigation and Crop for the 2007/08 agriculture year - SHORT RAINY SEASON (VULI) -Monduli

Crop	Irrigation use						% of Planted area using Irrigation
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	1,357	763	1,786	2,093	3,143	2,856	26.7
Paddy	429	145	0	101	429	246	58.8
Sorghum	0	0	0	0	0	-	0.0
Finger Millet	0	0	0	0	0	-	-
Wheat	0	0	0	0	0	-	-
Barley	0	0	0	0	0	-	-
CEREALS		907		2,195	3,572	3,102	29.3
Cassava	0	0	0	0	0	-	0.0
Sweet Potato	0	0	0	0	0	-	0.0
Irish potatoes	0	0	0	0	0	-	0.0
ROOTS & TUBERS		0		0	0	-	0.0
Mung Bean	0	0	0	0	0	-	0.0
Beans	143	58	1,786	1,757	1,929	1,815	3.2
Cowpeas	0	0	0	0	0	-	0.0
Green gram	0	0	0	0	0	-	0.0
Chick peas	0	0	0	0	0	-	0.0
Field Peas	0	0	0	0	0	-	0.0
PULSES	143	58	1,786	1,757	1,929	1,815	3.2
Sunflower	0	0	0	0	0	-	0.0
Simsim	0	0	0	0	0	-	0.0
Groundnut	0	0	0	0	0	-	0.0
Soya Beans	0	0	0	0	0	-	0.0
OIL SEEDS & OIL NUTS		0		0	0	-	0.0
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	0	0	0	0	0	-	0.0
Onion	0	0	0	0	0	-	0.0
Cabbage	0	0	71	7	71	7	0.0
Tomatoes	143	29	0	0	143	29	100.0
Spinach	0	0	0	0	0	-	0.0
Carrot	0	0	71	7	71	7	0.0
Chillies	0	0	0	0	0	-	0.0
Amaranths	0	0	0	0	0	-	0.0
Cucumber	0	0	0	0	0	-	0.0
Egg Plant	0	0	0	0	0	-	0.0
FRUITS & VEGETABLES		29		14	286	43	66.7
Cotton	0	0	0	0	0	-	0.0
Tobacco	0	0	0	0	0	-	0.0
CASH CROPS	0	0	0	0	0	-	0.0
Malay	0	0	0	0	0	-	0.0
Total	2,072	994	3,715	3,966	5,787	4,960	20.0

5.93 :Planted Area & Number of Crop Growing Households by use of Irrigation and Crop for the 2007/08 agriculture year - SHORT RAINY SEASON (VULI) - Arusha

Crop	Irrigation use						% of Planted area using Irrigation
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	213	61	810	659	1,023	720	8.5
Paddy	0	0	0	0	0	-	0.0
Sorghum	0	0	0	0	0	-	0.0
Finger Millet	0	0	0	0	0	-	0.0
Wheat	0	0	0	0	0	-	0.0
Barley	0	0	0	0	0	-	0.0
CEREALS		61		659	1,023	720	8.5
Cassava	0	0	0	0	0	-	0.0
Sweet Potato	0	0	0	0	0	-	0.0
Irish potatoes	0	0	0	0	0	-	0.0
ROOTS & TUBERS		0		0	0	-	-
Mung Bean	0	0	43	9	43	9	0.0
Beans	213	44	682	530	895	574	7.6
Cowpeas	43	4	85	26	128	30	14.3
Green gram	43	9	85	22	128	30	28.6
Chick peas	43	4	85	43	128	47	9.1
Field Peas	0	0	0	0	0	-	0.0
PULSES	341	61	980	629	1,321	690	8.8
Sunflower	43	9	0	0	43	9	100.0
Simsim	0	0	0	0	0	-	0.0
Groundnut	0	0	0	0	0	-	0.0
Soya Beans	0	0	0	0	0	-	0.0
OIL SEEDS & OIL NUTS		9		0	43	9	100.0
Okra	0	0	43	9	43	9	0.0
Radish	0	0	0	0	0	-	0.0
Turmeric	0	0	0	0	0	-	0.0
Bitteer Aubergine	85	13	43	9	128	22	60.0
Onion	43	4	43	10	85	15	29.4
Cabbage	85	5	170	33	256	38	12.5
Tomatoes	0	0	85	12	85	12	0.0
Spinach	85	5	170	52	256	57	8.2
Carrot	43	4	0	0	43	4	100.0
Chillies	43	4	85	19	128	23	18.5
Amaranths	43	0	128	20	170	20	1.7
Cucumber	0	0	0	0	0	-	0.0
Egg Plant	0	0	43	9	43	9	0.0
FRUITS & VEGETABLES		36		172	1,236	208	17.1
Cotton	0	0	0	0	0	-	0.0
Tobacco	0	0	0	0	0	-	0.0
CASH CROPS	0	0	0	0	0	-	0.0
Malay	0	0	0	0	0	-	0.0
Total	1,023	166	2,600	1,461	3,623	1,627	10.2

5.94: :Planted Area & Number of Crop Growing Households by use of Irrigation and Crop for the 2007/08 agriculture year - SHORT RAINY SEASON (VULI) - Karatu

Crop	Irrigation use						% of Planted area using Irrigation
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	356	180	980	764	1,337	945	19.1
Paddy	0	0	0	0	0	-	0.0
Sorghum	0	0	0	0	0	-	0.0
Finger Millet	0	0	0	0	0	-	0.0
Wheat	0	0	0	0	0	-	0.0
Barley	0	0	89	36	89	36	0.0
CEREALS		180		800	1,426	981	18.4
Cassava	0	0	0	0	0	-	0.0
Sweet Potato	89	36	356	180	446	216	16.7
Irish potatoes	0	0	0	0	0	-	0.0
ROOTS & TUBERS		36		180	446	216	16.7
Mung Bean	0	0	0	0	0	-	0.0
Beans	89	18	1,515	1,168	1,604	1,186	1.5
Cowpeas	0	0	0	0	0	-	0.0
Green gram	0	0	0	0	0	-	0.0
Chick peas	0	0	0	0	0	-	0.0
Field Peas	0	0	0	0	0	-	0.0
PULSES	89	18	1,515	1,168	1,604	1,186	1.5
Sunflower	0	0	0	0	0	-	0.0
Simsim	0	0	0	0	0	-	0.0
Groundnut	0	0	0	0	0	-	0.0
Soya Beans	0	0	0	0	0	-	0.0
OIL SEEDS & OIL NUTS		0		0	0	-	-
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	0	0	0	0	0	-	0.0
Onion	267	90	1,337	361	1,604	451	20.0
Cabbage	0	0	0	0	0	-	0.0
Tomatoes	0	0	0	0	0	-	0.0
Spinach	0	0	0	0	0	-	0.0
Carrot	0	0	0	0	0	-	0.0
Chillies	0	0	0	0	0	-	0.0
Amaranths	0	0	0	0	0	-	0.0
Cucumber	0	0	0	0	0	-	0.0
Egg Plant	0	0	0	0	0	-	0.0
FRUITS & VEGETABLES		90		361	1,604	451	20.0
Cotton	0	0	0	0	0	-	0.0
Tobacco	0	0	0	0	0	-	0.0
CASH CROPS	0	0	0	0	0	-	0.0
Malay	0	0	0	0	0	-	0.0
Total	802	325	4,278	2,509	5,080	2,834	11.5

5.95: :Planted Area & Number of Crop Growing Households by use of Irrigation and Crop for the 2007/08 agriculture year - SHORT RAINY SEASON (VULI) - Ngorongoro

Crop	Irrigation use						% of Planted area using Irrigation
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	71	115	497	334	568	449	25.6
Paddy	0	0	0	0	0	-	0.0
Sorghum	0	0	0	0	0	-	0.0
Finger Millet	0	0	0	0	0	-	0.0
Wheat	0	0	0	0	0	-	0.0
Barley	0	0	0	0	0	-	0.0
CEREALS		115		334	568	449	25.6
Cassava	0	0	0	0	0	-	0.0
Sweet Potato	142	50	71	22	213	72	70.0
Irish potatoes	0	0	0	0	0	-	0.0
ROOTS & TUBERS		50		22	213	72	70.0
Mung Bean	0	0	0	0	0	-	0.0
Beans	0	0	142	33	142	33	0.0
Cowpeas	0	0	0	0	0	-	0.0
Green gram	0	0	0	0	0	-	0.0
Chick peas	0	0	0	0	0	-	0.0
Field Peas	0	0	0	0	0	-	0.0
PULSES	0	0	142	33	142	33	0.0
Sunflower	0	0	0	0	0	-	0.0
Simsim	0	0	0	0	0	-	0.0
Groundnut	0	0	0	0	0	-	0.0
Soya Beans	0	0	0	0	0	-	0.0
OIL SEEDS & OIL NUTS		0		0	0	-	0.0
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	0	0	0	0	0	-	0.0
Onion	0	0	0	0	0	-	0.0
Cabbage	71	14	0	0	71	14	100.0
Tomatoes	213	29	142	14	355	43	66.7
Spinach	213	22	71	7	284	29	75.0
Carrot	0	0	0	0	0	-	0.0
Chillies	0	0	0	0	0	-	0.0
Amaranths	0	0	0	0	0	-	0.0
Cucumber	0	0	0	0	0	-	0.0
Egg Plant	0	0	0	0	0	-	0.0
FRUITS & VEGETABLES		65		22	711	86	75.0
Cotton	0	0	0	0	0	-	0.0
Tobacco	0	0	0	0	0	-	0.0
CASH CROPS		0		0	0	-	0.0
Malay	0	0	0	0	0	-	0.0
Total	711	230	924	410	1,634	640	36.0

5.95 :Planted Area & Number of Crop Growing Households by use of Irrigation and Crop for the 2007/08 agriculture year - SHORT RAINY SEASON (VULI) - Longido

Crop	Irrigation use						% of Planted area using Irrigation
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	347	290	3,207	2,679	3,554	2,969	9.8
Paddy	0	0	0	0	0	-	0.0
Sorghum	0	0	0	0	0	-	0.0
Finger Millet	0	0	0	0	0	-	0.0
Wheat	173	444	260	152	433	597	74.5
Barley	0	0	0	0	0	-	0.0
CEREALS		734		2,831	3,987	3,565	20.6
Cassava	0	0	0	0	0	-	0.0
Sweet Potato	0	0	29	6	29	6	0.0
Irish potatoes	87	158	231	70	318	228	69.2
ROOTS & TUBERS		158		76	347	234	67.5
Mung Bean	0	0	58	23	58	23	0.0
Beans	376	468	2,138	1,292	2,514	1,760	26.6
Cowpeas	0	0	0	0	0	-	0.0
Green gram	0	0	0	0	0	-	0.0
Chick peas	0	0	29	6	29	6	0.0
Field Peas	0	0	0	0	0	-	0.0
PULSES	376	468	2,225	1,321	2,600	1,789	26.2
Sunflower	29	18	0	0	29	18	100.0
Simsim	0	0	0	0	0	-	0.0
Groundnut	0	0	0	0	0	-	0.0
Soya Beans	0	0	0	0	0	-	0.0
OIL SEEDS & OIL NUTS		18		0	29	18	100.0
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	0	0	0	0	0	-	0.0
Onion	0	0	29	47	29	47	0.0
Cabbage	0	0	0	0	0	-	0.0
Tomatoes	87	38	202	82	289	120	31.7
Spinach	0	0	0	0	0	-	0.0
Carrot	0	0	0	0	0	-	0.0
Chillies	0	0	0	0	0	-	0.0
Amaranths	0	0	0	0	0	-	0.0
Cucumber	0	0	0	0	0	-	0.0
Egg Plant	0	0	0	0	0	-	0.0
FRUITS & VEGETABLES		38		129	318	167	22.8
Cotton	0	0	0	0	0	-	0.0
Tobacco	0	0	29	6	29	6	0.0
CASH CROPS	0	0	29	6	29	6	0.0
Malay	0	0	0	0	0	-	0.0
Total	1,098	1,415	6,212	4,363	7,310	5,778	24.5

5.96 :Planted Area & Number of Crop Growing Households by use of Irrigation and Crop for the 2007/08 agriculture year - SHORT RAINY SEASON (VULI) - Arusha Rural

Crop	Irrigation use						% of Planted area using Irrigation
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	2,628	1,087	12,899	3,955	15,527	5,042	21.6
Paddy	0	0	0	0	0	-	0.0
Sorghum	0	0	0	0	0	-	0.0
Finger Millet	119	73	0	0	119	73	100.0
Wheat	0	0	0	0	0	-	0.0
Barley	0	0	0	0	0	-	0.0
CEREALS		1,160		3,955	15,646	5,115	22.7
Cassava	0	0	0	0	0	-	0.0
Sweet Potato	0	0	119	24	119	24	0.0
Irish potatoes	597	157	597	399	1,194	556	28.3
ROOTS & TUBERS		157		423	1,314	580	27.1
Mung Bean	0	0	119	97	119	97	0.0
Beans	2,508	763	9,675	2,269	12,183	3,032	25.2
Cowpeas	0	0	239	53	239	53	0.0
Green gram	0	0	597	157	597	157	0.0
Chick peas	0	0	119	19	119	19	0.0
Field Peas	0	0	0	0	0	-	0.0
PULSES	2,508	763	10,749	2,595	13,258	3,357	22.7
Sunflower	0	0	0	0	0	-	0.0
Simsim	0	0	0	0	0	-	0.0
Groundnut	0	0	0	0	0	-	0.0
Soya Beans	0	0	478	97	478	97	0.0
OIL SEEDS & OIL NUTS		0		97	478	97	0.0
Okra	0	0	0	0	0	-	0.0
Radish	239	94	0	0	239	94	100.0
Turmeric	0	0	119	77	119	77	0.0
Bitteer Aubergine	119	48	0	0	119	48	100.0
Onion	0	0	119	24	119	24	0.0
Cabbage	478	149	358	46	836	195	76.4
Tomatoes	239	75	0	0	239	75	100.0
Spinach	119	16	0	0	119	16	100.0
Carrot	478	39	0	21	478	60	65.0
Chillies	0	0	0	0	0	-	0.0
Amaranths	239	18	0	0	239	18	100.0
Cucumber	0	0	0	0	0	-	0.0
Egg Plant	0	0	0	0	0	-	0.0
FRUITS & VEGETABLES		440		169	2,508	609	72.3
Cotton	0	0	119	145	119	145	0.0
Tobacco	0	0	0	0	0	-	0.0
CASH CROPS		0		145	119	145	0.0
Malay	0	0	0	0	0	-	0.0
Total	7,764	2,519	25,560	7,383	33,323	9,903	25.4

5.97 :Planted Area & Number of Crop Growing Households by use of Irrigation and Crop for the 2007/08 agriculture year - SHORT RAINY SEASON (VULI) - Meru

Crop	Irrigation use						% of Planted area using Irrigation
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	3,172	2,380	5,734	2,327	8,907	4,707	50.6
Paddy	244	62	0	0	244	62	100.0
Sorghum	0	0	0	0	0	-	0.0
Finger Millet	0	0	0	0	0	-	0.0
Wheat	0	0	0	0	0	-	0.0
Barley	0	0	0	0	0	-	0.0
CEREALS		2,442		2,327	9,151	4,769	51.2
Cassava	0	0	0	0	0	-	0.0
Sweet Potato	0	0	0	0	0	-	0.0
Irish potatoes	0	0	122	49	122	49	0.0
ROOTS & TUBERS		0		49	122	49	0.0
Mung Bean	0	0	0	0	0	-	0.0
Beans	2,806	1,467	2,440	778	5,246	2,245	65.3
Cowpeas	0	0	0	0	0	-	0.0
Green gram	0	0	0	0	0	-	0.0
Chick peas	122	49	0	0	122	49	100.0
Field Peas	0	0	0	0	0	-	0.0
PULSES	2,928	1,516	2,440	778	5,368	2,294	66.1
Sunflower	0	0	0	0	0	-	0.0
Simsim	0	0	0	0	0	-	0.0
Groundnut	0	0	0	0	0	-	0.0
Soya Beans	0	0	0	0	0	-	0.0
OIL SEEDS & OIL NUTS		0		0	0	-	0.0
Okra	244	62	0	0	244	62	100.0
Radish	0	0	0	0	0	-	0.0
Turmeric	0	0	0	0	0	-	0.0
Bitteer Aubergine	366	62	122	25	488	86	71.4
Onion	0	0	0	0	0	-	0.0
Cabbage	366	18	244	14	610	32	55.5
Tomatoes	1,708	573	488	85	2,196	658	87.1
Spinach	122	2	244	9	366	11	21.7
Carrot	0	0	244	49	244	49	0.0
Chillies	122	0	366	35	488	35	1.4
Amaranths	366	8	0	1	366	9	84.2
Cucumber	244	74	0	0	244	74	100.0
Egg Plant	122	49	0	0	122	49	100.0
FRUITS & VEGETABLES		849		218	5,368	1,067	79.6
Cotton	0	0	0	0	0	-	0.0
Tobacco	122	74	0	0	122	74	100.0
CASH CROPS	122	74	0	0	122	74	100.0
Malay	0	0	0	0	0	-	0.0
Total	10,127	4,881	10,005	3,373	20,132	8,254	59.1

5.98 :Planted Area & Number of Crop Growing Households by Organic Fertilizer use and Crop for the 2007/08 agriculture year - SHORT RAINY SEASON (VULI) -Monduli

Crop	Organic Fertilizer use							% of Planted area using Organic Fertilizer
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Cost of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Without Organic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	714	289	.	2,786	2,567	3,143	2,856	10.1
Paddy	0	0	.	429	246	429	246	0.0
Sorghum	0	0	.	0	.	0	-	0.0
Finger Millet	0	0	.	0	.	0	-	0.0
Wheat	0	0	.	0	.	0	-	0.0
Barley	0	0	.	0	.	0	-	0.0
CEREALS		289	26,933,049		2,813	3,572	3,102	9.3
Cassava	0	0	.	0	.	0	-	0.0
Sweet Potato	0	0	.	0	.	0	-	0.0
Irish potatoes	0	0	.	0	.	0	-	0.0
ROOTS & TUBERS		0	.		.	0	-	0.0
Mung Bean	0	0	.	0	.	0	-	0.0
Beans	214	101	5,472,338	1,857	1,714	1,929	1,815	5.6
Cowpeas	0	0	.	0	.	0	-	0.0
Green gram	0	0	.	0	.	0	-	0.0
Chick peas	0	0	.	0	.	0	-	0.0
Field Peas	0	0	.	0	.	0	-	0.0
PULSES	214	101	5,472,338	1,857	1,714	1,929	1,815	5.6
Sunflower	0	0	.	0	.	0	-	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	0	0	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	.		.	0	-	0.0
Okra	0	0	.	0	.	0	-	0.0
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
Cabbage	0	0	.	71	7	71	7	0.0
Tomatoes	0	0	.	143	29	143	29	0.0
Spinach	0	0	.	0	.	0	-	0.0
Carrot	0	0	.	71	7	71	7	0.0
Chillies	0	0	.	0	.	0	-	0.0
Amaranths	0	0	.	0	.	0	-	0.0
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	0	0	.	0	.	0	-	0.0
FRUITS & VEGETABLES		0	.		43	286	43	0.0
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS	0	0	.	0	.	0	-	0.0
Malay	0	0	.	0	.	0	-	0.0
Total	929	390	32,405,387	5,358	4,570	5,787	4,960	7.9

5.99 :Planted Area & Number of Crop Growing Households by Herbicide use and Crop for the 2007/08 agriculture year - SHORT RAINY SEASON (VULI) - Arusha

Crop	Organic Fertilizer use							% of Planted area using Organic Fertilizer
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Cost of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Without Organic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	682	483	9,439,350	341	237	1,023	720	67.1
Paddy	0	0	.	0	.	0	-	0.0
Sorghum	0	0	.	0	.	0	-	0.0
Finger Millet	0	0	.	0	.	0	-	0.0
Wheat	0	0	.	0	.	0	-	0.0
Barley	0	0	.	0	.	0	-	0.0
CEREALS		483	9,439,350		237	1,023	720	67.1
Cassava	0	0	.	0	.	0	-	0.0
Sweet Potato	0	0	.	0	.	0	-	0.0
Irish potatoes	0	0	.	0	.	0	-	0.0
ROOTS & TUBERS		0	.		.	0	-	0.0
Mung Bean	43	9	6,819	0	.	43	-	0.0
Beans	597	298	7,918,689	298	276	895	574	51.9
Cowpeas	128	30	863,470	0	.	128	-	0.0
Green gram	128	30	1,994,589	0	.	128	-	-
Chick peas	43	4	852,388	85	43	128	47	9.1
Field Peas	0	0	.	0	.	0	-	0.0
PULSES	938	371	11,635,955	384	319	1,321	690	53.8
Sunflower	43	9	255,717	0	.	43	-	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	0	0	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		9	255,717		.	43	-	0.0
Okra	43	9	6,819	0	.	43	-	0.0
Radish	0	0	.	0	.	0	-	0.0
Turmeric	0	0	.	0	.	0	-	0.0
Bitteer Aubergine	43	1	20,457	128	20	128	22	5.0
Onion	43	10	255,717	43	4	85	15	70.6
Cabbage	170	29	444,094	85	9	256	38	77.1
Tomatoes	85	12	70,748	0	.	85	-	0.0
Spinach	170	27	411,704	85	30	256	57	47.1
Carrot	0	0	.	43	4	43	4	0.0
Chillies	85	19	134,677	43	4	128	23	81.5
Amaranths	170	20	390,394	0	.	170	-	0.0
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	43	9	6,819	0	.	43	-	0.0
FRUITS & VEGETABLES		136	1,741,430		72	1,236	208	65.2
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS	0	0	.	0	.	0	-	0.0
Malay	0	0	.	0	.	0	-	0.0
Total	2,515	998	23,072,451	1,151	629	3,623	1,627	61.4

5.100 :Planted Area & Number of Crop Growing Households by Herbicide use and Crop for the 2007/08 agriculture year - SHORT RAINY SEASON (VULI) - Karatu

Crop	Organic Fertilizer use							% of Planted area using Organic Fertilizer
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Cost of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Without Organic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	178	108	4,723,259	1,159	836	1,337	945	944.6
Paddy	0	0	.	0	.	0	-	0.0
Sorghum	0	0	.	0	.	0	-	0.0
Finger Millet	0	0	.	0	.	0	-	0.0
Wheat	0	0	.	0	.	0	-	0.0
Barley	0	0	.	89	36	89	36	36.1
CEREALS		108	4,723,259		872	1,426	981	980.7
Cassava	0	0	.	0	.	0	-	0.0
Sweet Potato	0	0	.	446	216	446	216	216.5
Irish potatoes	0	0	.	0	.	0	-	0.0
ROOTS & TUBERS		0	.		216	446	216	216.5
Mung Bean	0	0	.	0	.	0	-	0.0
Beans	0	0	.	1,604	1,186	1,604	1,186	1186.0
Cowpeas	0	0	.	0	.	0	-	0.0
Green gram	0	0	.	0	.	0	-	0.0
Chick peas	0	0	.	0	.	0	-	0.0
Field Peas	0	0	.	0	.	0	-	0.0
PULSES	0	0	.	1,604	1,186	1,604	1,186	1186.0
Sunflower	0	0	.	0	.	0	-	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	0	0	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	.		.	0	-	0.0
Okra	0	0	.	0	.	0	-	0.0
Radish	0	0	.	0	.	0	-	0.0
Turmeric	0	0	.	0	.	0	-	0.0
Bitter Aubergine	0	0	.	0	.	0	-	0.0
Onion	89	18	6,238,267	1,515	433	1,604	451	451.0
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
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	0	.	.	0	.	0	-	0.0
FRUITS & VEGETABLES		18	6,238,267		433	1,604	451	451.0
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS	0	0	.	0	.	0	-	0.0
Malay	0	0	.	0	.	0	-	0.0
Total	267	126	10,961,526	4,812	2,708	5,080	2,834	2834.1

5.101 : Planted Area & Number of Crop Growing Households by Herbicide use and Crop for the 2007/08 agriculture year - SHORT RAINY SEASON (VULI) - Ngorongoro

Crop	Organic Fertilizer use							% of Planted area using Organic Fertilizer
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Cost of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Without Organic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	0	0	.	568	449	568	449	0.0
Paddy	0	0	.	0	.	0	-	0.0
Sorghum	0	0	.	0	.	0	-	0.0
Finger Millet	0	0	.	0	.	0	-	0.0
Wheat	0	0	.	0	.	0	-	0.0
Barley	0	0	.	0	.	0	-	0.0
CEREALS		0	.		449	568	449	0.0
Cassava	0	0	.	0	.	0	-	0.0
Sweet Potato	0	0	.	213	72	213	72	0.0
Irish potatoes	0	0	.	0	.	0	-	0.0
ROOTS & TUBERS		0	.		72	213	72	0.0
Mung Bean	0	0	.	0	.	0	-	0.0
Beans	0	0	.	142	33	142	33	0.0
Cowpeas	0	0	.	0	.	0	-	0.0
Green gram	0	0	.	0	.	0	-	0.0
Chick peas	0	0	.	0	.	0	-	0.0
Field Peas	0	0	.	0	.	0	-	0.0
PULSES	0	0	.	142	33	142	33	0.0
Sunflower	0	0	.	0	.	0	-	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	0	0	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	.		.	0	-	0.0
Okra	0	0	.	0	.	0	-	0.0
Radish	0	0	.	0	.	0	-	0.0
Turmeric	0	0	.	0	.	0	-	0.0
Bitter Aubergine	0	0	.	0	.	0	-	0.0
Onion	0	0	.	0	.	0	-	0.0
Cabbage	71	14	2,486,773	0	.	71	-	0.0
Tomatoes	71	14	2,486,773	284	29	355	43	50.0
Spinach	0	0	.	284	29	284	29	0.0
Carrot	0	0	.	0	.	0	-	0.0
Chillies	0	0	.	0	.	0	-	0.0
Amaranths	0	0	.	0	.	0	-	0.0
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	0	0	.	0	.	0	-	0.0
FRUITS & VEGETABLES		29	4,973,546		58	711	86	50.0
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS		0	.		.	0	-	0.0
Malay	0	0	.	0	.	0	-	0.0
Total	142	29	4,973,546	1,492	611	1,634	640	4.7

5.102 :Planted Area & Number of Crop Growing Households by Herbicide use and Crop for the 2007/08 agriculture year - SHORT RAINY SEASON (VULI) - Longido

Crop	Organic Fertilizer use							% of Planted area using Organic Fertilizer
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Cost of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Without Organic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	144	91	2,918,107	3,409	2,878	3,554	2,969	3.1
Paddy	0	0	.	0	.	0	-	0.0
Sorghum	0	0	.	0	.	0	-	0.0
Finger Millet	0	0	.	0	.	0	-	0.0
Wheat	29	12	288,922	404	585	433	597	2.0
Barley	0	0	.	0	.	0	-	0.0
CEREALS		102	3,207,029		3,463	3,987	3,565	3.0
Cassava	0	0	.	0	.	0	-	0.0
Sweet Potato	0	0	.	29	6	29	6	0.0
Irish potatoes	58	20	1,762,421	260	208	318	228	9.9
ROOTS & TUBERS		20	1,762,421		213	347	234	9.6
Mung Bean	0	0	.	58	23	58	23	0.0
Beans	87	82	2,398,049	2,427	1,678	2,514	1,760	4.9
Cowpeas	0	0	.	0	.	0	-	0.0
Green gram	0	0	.	0	.	0	-	0.0
Chick peas	0	0	.	29	6	29	6	0.0
Field Peas	0	0	.	0	.	0	-	0.0
PULSES	87	82	2,398,049	2,514	1,707	2,600	1,789	4.8
Sunflower	0	0	.	29	18	29	18	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	0	0	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	.		18	29	18	0.0
Okra	0	0	.	0	.	0	-	0.0
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	.	29	47	29	47	0.0
Cabbage	0	0	.	0	.	0	-	0.0
Tomatoes	29	12	1,444,608	260	108	289	120	10.8
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
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	0	0	.	0	.	0	-	0.0
FRUITS & VEGETABLES	29	12	1,444,608	289	155	318	167	7.5
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	0	0	.	29	6	29	6	0.0
CASH CROPS	0	0	.	29	6	29	6	0.0
Malay	0	0	.	0	.	0	-	0.0
Total	347	216	8,812,106	6,963	5,562	7,310	5,778	3.9

5.103 :Planted Area & Number of Crop Growing Households by Herbicide use and Crop for the 2007/08 agriculture year - SHORT RAINY SEASON (VULI) - Arusha Rural

Crop	Organic Fertilizer use							% of Planted area using Organic Fertilizer
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Cost of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Without Organic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	5,255	1,572	17,952,366	10,391	3,470	15,527	5,042	31.2
Paddy	0	0	.	0	.	0	-	0.0
Sorghum	0	0	.	0	.	0	-	0.0
Finger Millet	0	0	.	119	73	119	157	0.0
Wheat	0	0	.	0	.	0	-	0.0
Barley	0	0	.	0	.	0	-	0.0
CEREALS		1,572	17,952,366		3,542	15,646	4,379	35.9
Cassava	0	0	.	0	.	0	-	0.0
Sweet Potato	0	0	.	119	24	119	24	0.0
Irish potatoes	239	85	6,903,562	1,075	471	1,194	471	17.9
ROOTS & TUBERS		85	6,903,562		496	1,314	496	17.1
Mung Bean	0	0	.	119	97	119	933	0.0
Beans	4,061	837	12,744,118	8,122	2,195	12,183	2,195	38.1
Cowpeas	0	0	.	239	53	239	53	0.0
Green gram	0	0	.	597	157	597	157	0.0
Chick peas	0	0	.	119	19	119	19	0.0
Field Peas	0	0	.	0	.	0	-	0.0
PULSES	4,061	837	12,744,118	9,197	2,521	13,258	2,521	33.2
Sunflower	0	0	.	0	.	0	-	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	0	0	.	478	97	478	97	0.0
OIL SEEDS & OIL NUTS		0	.		97	478	97	0.0
Okra	0	0	.	0	.	0	-	0.0
Radish	0	0	.	239	94	239	94	0.0
Turmeric	0	0	.	119	77	119	114	0.0
Bitteer Aubergine	0	0	.	119	48	119	-	0.0
Onion	0	0	.	119	24	119	27	0.0
Cabbage	0	0	.	836	195	836	195	0.0
Tomatoes	0	0	.	239	75	239	75	0.0
Spinach	0	0	.	119	16	119	55	0.0
Carrot	358	36	4,180,357	239	24	478	24	150.0
Chillies	0	.	.	0	.	0	-	0.0
Amaranths	119	2	179,158	119	16	239	16	15.2
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	0	0	.	0	.	0	-	0.0
FRUITS & VEGETABLES		39	4,359,516		570	2,508	570	6.8
Cotton	0	0	.	119	145	119	145	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS		0	.		145	119	145	0.0
Malay	0	0	.	0	.	0	-	0.0
Total	10,033	2,532	41,959,561	23,649	7,371	33,323	9,903	25.6

5.104 :Planted Area & Number of Crop Growing Households by Herbicide use and Crop for the 2007/08 agriculture year - SHORT RAINY SEASON (VULI) - Meru

Crop	Organic Fertilizer use							% of Planted area using Organic Fertilizer
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Cost of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Without Organic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	732	340	12,017,923	8,297	4,368	8,907	4,707	7.2
Paddy	0	0	.	244	62	244	62	0.0
Sorghum	0	0	.	0	.	0	-	0.0
Finger Millet	0	0	.	0	.	0	-	0.0
Wheat	0	0	.	0	.	0	-	0.0
Barley	0	0	.	0	.	0	-	0.0
CEREALS		340	12,017,923		4,430	9,151	4,769	7.1
Cassava	0	.	.	0	.	0	-	0.0
Sweet Potato	0	.	.	0	.	0	-	0.0
Irish potatoes	0	.	.	122	49	122	-	0.0
ROOTS & TUBERS					49	122		0.0
Mung Bean	0	.	.	0	.	0	-	0.0
Beans	366	272	1,268,897	4,880	1,973	5,246	2,245	12.1
Cowpeas	0	0	.	0	.	0	-	0.0
Green gram	0	0	.	0	.	0	-	0.0
Chick peas	0	0	.	122	49	122	49	0.0
Field Peas	0	0	.	0	.	0	-	0.0
PULSES	366	272	1,268,897	5,002	2,023	5,368	2,294	11.8
Sunflower	0	0	.	0	.	0	-	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	0	0	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		0				0		0.0
Okra	0	0	.	244	62	244	62	0.0
Radish	0	0	.	0	.	0	-	0.0
Turmeric	0	0	.	0	.	0	-	0.0
Bitteer Aubergine	0	0	.	488	86	488	86	0.0
Onion	0	0	.	0	.	0	-	0.0
Cabbage	0	0	.	610	32	610	32	0.0
Tomatoes	244	74	17,569,350	1,952	584	2,196	658	11.3
Spinach	0	0	.	366	11	366	11	0.0
Carrot	0	0	.	244	49	244	49	0.0
Chillies	0	0	.	488	35	488	35	0.0
Amaranths	0	0	.	366	9	366	9	0.0
Cucumber	0	0	.	244	74	244	74	0.0
Egg Plant	0	0	.	122	49	122	49	0.0
FRUITS & VEGETABLES		74	17,569,350		993	5,368	1,067	6.9
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	122	19	427,033	122	56	122	74	25.0
CASH CROPS	122	19	427,033	122	56	122	74	25.0
Malay	0	.	.	0	.	0	-	0.0
Total	1,464	704	31,283,203	18,911	7,550	20,132	8,254	8.5

5.105 :Planted Area & Number of Crop Growing Households by Inorganic Fertilizer use and Crop for the 2007/08 agriculture year - SHORT RAINY SEASON (VULI) -Monduli

Crop	Inorganic Fertilizer use							% of Planted area using Inorganic Fertilizer
	Number of Households using Inorganic Fertilizer	Planted Area Applied with Inorganic Fertilizer	Cost of Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area Without Inorganic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	214	69	7,358,366	3,072	2,787	3,143	2,856	2.4
Paddy	429	231	21,896,497	71	14	429	246	94.1
Sorghum	0	0	.	0	.	0	-	0.0
Finger Millet	0	0	.	0	.	0	-	0.0
Wheat	0	0	.	0	.	0	-	0.0
Barley	0	0	.	0	.	0	-	0.0
CEREALS		300	29,254,863		2,802	3,572	3,102	9.7
Cassava	0	0	.	0	.	0	-	0.0
Sweet Potato	0	0	.	0	.	0	-	0.0
Irish potatoes	0	0	.	0	.	0	-	0.0
ROOTS & TUBERS		0	.		.	0	-	0.0
Mung Bean	0	0	.	0	.	0	-	0.0
Beans	0	0	.	1,929	1,815	1,929	1,815	0.0
Cowpeas	0	0	.	0	.	0	-	0.0
Green gram	0	0	.	0	.	0	-	0.0
Chick peas	0	0	.	0	.	0	-	0.0
Field Peas	0	0	.	0	.	0	-	0.0
PULSES	0	0	.	1,929	1,815	1,929	1,815	0.0
Sunflower	0	0	.	0	.	0	-	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	0	0	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	.		.	0	-	0.0
Okra	0	0	.	0	.	0	-	0.0
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
Cabbage	0	0	.	71	7	71	7	0.0
Tomatoes	143	29	3,857,784	0	.	143	-	0.0
Spinach	0	0	.	0	.	0	-	0.0
Carrot	0	0	.	71	7	71	7	0.0
Chillies	0	0	.	0	.	0	-	0.0
Amaranths	0	0	.	0	.	0	-	0.0
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	0	0	.	0	.	0	-	0.0
FRUITS & VEGETABLES		29	3,857,784		14	236	43	66.7
Cotton	0	.	.	0	.	0	-	0.0
Tobacco	0	.	.	0	.	0	-	0.0
CASH CROPS	0	.	.	0	.	0	-	0.0
Malay	0	.	.	0	.	0	-	0.0
Total	786	329	33,112,648	5,215	4,631	5,787	4,960	6.6

5.106 :Planted Area & Number of Crop Growing Households by Inorganic Fertilizer use and Crop for the 2007/08 agriculture year - SHORT RAINY SEASON (VULI) - Arusha

Crop	Inorganic Fertilizer use							% of Planted area using Inorganic Fertilizer
	Number of Households using Inorganic Fertilizer	Planted Area Applied with Inorganic Fertilizer	Cost of Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area Without Inorganic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	0	0	.	1,023	720	1,023	720	0.0
Paddy	0	0	.	0	.	0	-	0.0
Sorghum	0	0	.	0	.	0	-	0.0
Finger Millet	0	0	.	0	.	0	-	0.0
Wheat	0	0	.	0	.	0	-	0.0
Barley	0	0	.	0	.	0	-	0.0
CEREALS		0	.		720	1,023	720	0.0
Cassava	0	0	.	0	.	0	-	0.0
Sweet Potato	0	0	.	0	.	0	-	0.0
Irish potatoes	0	0	.	0	.	0	-	0.0
ROOTS & TUBERS		0	.		.	0	-	0.0
Mung Bean	0	0	.	43	9	43	9	0.0
Beans	0	0	.	895	574	895	574	0.0
Cowpeas	0	0	.	128	30	128	30	0.0
Green gram	0	0	.	128	30	128	30	0.0
Chick peas	0	0	.	128	47	128	47	0.0
Field Peas	0	0	.	0	.	0	-	0.0
PULSES	0	0	.	1,321	690	1,321	690	0.0
Sunflower	0	0	.	43	9	43	9	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	0	0	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	.		9	43	9	0.0
Okra	0	0	.	43	9	43	9	0.0
Radish	0	0	.	0	.	0	-	0.0
Turmeric	0	0	.	0	.	0	-	0.0
Bitter Aubergine	43	9	2,130,971	85	13	128	22	40.0
Onion	43	3	20,457	85	11	85	15	22.1
Cabbage	43	3	2,130,971	256	34	256	38	8.6
Tomatoes	0	0	.	85	12	85	12	0.0
Spinach	43	26	4,261,942	213	31	256	57	45.3
Carrot	0	0	.	43	4	43	4	0.0
Chillies	0	0	.	128	23	128	23	0.0
Amaranths	0	0	.	170	20	170	20	0.0
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	0	0	.	43	9	43	9	0.0
FRUITS & VEGETABLES		41	8,544,342		167	1,236	208	19.7
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS	0	0	.	0	.	0	-	0.0
Malay	0	0	.	0	.	0	-	0.0
Total	170	41	8,544,342	3,537	1,586	3,623	1,627	2.5

5.107 :Planted Area & Number of Crop Growing Households by Inorganic Fertilizer use and Crop for the 2007/08 agriculture year - SHORT RAINY SEASON (VULI) - Karatu

Crop	Inorganic Fertilizer use							% of Planted area using Inorganic Fertilizer
	Number of Households using Inorganic Fertilizer	Planted Area Applied with Inorganic Fertilizer	Cost of Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area Without Inorganic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	267	108	23,348,942	1,159	836	1,337	945	11.5
Paddy	0	0	.	0	.	0	-	0.0
Sorghum	0	0	.	0	.	0	-	0.0
Finger Millet	0	0	.	0	.	0	-	0.0
Wheat	0	0	.	0	.	0	-	0.0
Barley	0	0	.	89	36	89	36	0.0
CEREALS		108	23,348,942		872	1,426	981	11.0
Cassava	0	.	.	0	.	0	-	0.0
Sweet Potato	0	.	.	446	216	446	-	0.0
Irish potatoes	0	.	.	0	.	0	-	0.0
ROOTS & TUBERS					216	446	-	0.0
Mung Bean	0	.	.	0	.	0	-	0.0
Beans	0	.	.	1,604	1,186	1,604	-	0.0
Cowpeas	0	.	.	0	.	0	-	0.0
Green gram	0	.	.	0	.	0	-	0.0
Chick peas	0	.	.	0	.	0	-	0.0
Field Peas	0	.	.	0	.	0	-	0.0
PULSES	0			1,604	1,186	1,604	-	0.0
Sunflower	0	.	.	0	.	0	-	0.0
Simsim	0	.	.	0	.	0	-	0.0
Groundnut	0	.	.	0	.	0	-	0.0
Soya Beans	0	.	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS						0	-	0.0
Okra	0	.	.	0	.	0	-	0.0
Radish	0	.	.	0	.	0	-	0.0
Turmeric	0	.	.	0	.	0	-	0.0
Bitteer Aubergine	0	.	.	0	.	0	-	0.0
Onion	267	81	28,606,909	1,337	370	1,604	451	18.0
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
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	0	0	.	0	.	0	-	0.0
FRUITS & VEGETABLES		81	28,606,909		370	1,604	451	18.0
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS	0	0		0		0	-	0.0
Malay	0	0	.	0	.	0	-	0.0
Total	535	189	51,955,851	4,634	2,645	5,080	2,834	6.7

5.108 :Planted Area & Number of Crop Growing Households by Inorganic Fertilizer use and Crop for the 2007/08 agriculture year - SHORT RAINY SEASON (VULI) - Ngorongoro

Crop	Inorganic Fertilizer use							% of Planted area using Inorganic Fertilizer
	Number of Households using Inorganic Fertilizer	Planted Area Applied with Inorganic Fertilizer	Cost of Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area Without Inorganic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	0	0	.	568	449	568	449	0.0
Paddy	0	0	.	0	.	0	-	0.0
Sorghum	0	0	.	0	.	0	-	0.0
Finger Millet	0	0	.	0	.	0	-	0.0
Wheat	0	0	.	0	.	0	-	0.0
Barley	0	0	.	0	.	0	-	0.0
CEREALS		0	.		449	568	449	0.0
Cassava	0	0	.	0	.	0	-	0.0
Sweet Potato	0	0	.	213	72	213	72	0.0
Irish potatoes	0	0	.	0	.	0	-	0.0
ROOTS & TUBERS		0	.		72	213	72	0.0
Mung Bean	0	0	.	0	.	0	-	0.0
Beans	0	0	.	142	33	142	33	0.0
Cowpeas	0	0	.	0	.	0	-	0.0
Green gram	0	0	.	0	.	0	-	0.0
Chick peas	0	0	.	0	.	0	-	0.0
Field Peas	0	0	.	0	.	0	-	0.0
PULSES	0	0	.	142	33	142	33	0.0
Sunflower	0	0	.	0	.	0	-	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	0	0	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	.		.	0	-	0.0
Okra	0	0	.	0	.	0	-	0.0
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
Cabbage	0	0	.	71	14	71	14	0.0
Tomatoes	71	7	355,253	284	36	355	43	16.7
Spinach	71	7	355,253	213	22	284	29	25.0
Carrot	0	0	.	0	.	0	-	0.0
Chillies	0	0	.	0	.	0	-	0.0
Amaranths	0	0	.	0	.	0	-	0.0
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	0	0	.	0	.	0	-	0.0
FRUITS & VEGETABLES		14	710,507		72	711	86	16.7
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS		0	.		.	0	-	0.0
Malay	0	0	.	0	.	0	-	0.0
Total	142	14	710,507	1,492	626	1,634	640	2.2

5.109 :Planted Area & Number of Crop Growing Households by Inorganic Fertilizer use and Crop for the 2007/08 agriculture year - SHORT RAINY SEASON (VULI) - Longido

Crop	Inorganic Fertilizer use							% of Planted area using Inorganic Fertilizer
	Number of Households using Inorganic Fertilizer	Planted Area Applied with Inorganic Fertilizer	Cost of Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area Without Inorganic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	462	313	17,297,731	3,091	2,656	3,554	2,969	10.5
Paddy	0	0	.	0	.	0	-	0.0
Sorghum	0	0	.	0	.	0	-	0.0
Finger Millet	0	0	.	0	.	0	-	0.0
Wheat	144	433	2,990,338	289	164	433	597	72.5
Barley	0	0	.	0	.	0	-	0.0
CEREALS	607	746	20,288,069		2,820	3,987	3,565	20.9
Cassava	0	0	.	0	.	0	-	0.0
Sweet Potato	0	0	.	29	6	29	6	0.0
Irish potatoes	260	208	31,896,936	58	20	318	228	91.0
ROOTS & TUBERS	260	0	31,896,936		26	347	26	0.0
Mung Bean	0	0	.	58	23	58	23	0.0
Beans	347	444	4,226,922	2,167	1,315	2,514	1,760	25.3
Cowpeas	0	0	.	0	.	0	-	0.0
Green gram	0	0	.	0	.	0	-	0.0
Chick peas	29	6	0	0	.	29	-	0.0
Field Peas	0	0	.	0	.	0	-	0.0
PULSES	376	450	4,226,922	2,225	1,339	2,600	1,789	25.2
Sunflower	29	18	2,166,911	0	.	29	-	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	0	0	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS	29	18	2,166,911		.	29	-	0.0
Okra	0	0	.	0	.	0	-	0.0
Radish	0	0	.	0	.	0	-	0.0
Turmeric	0	0	.	0	.	0	-	0.0
Bitteer	0	0	.	0	.	0	-	0.0
Aubergine	0	0	.	0	.	0	-	0.0
Onion	0	0	.	29	47	29	47	0.0
Cabbage	0	0	.	0	.	0	-	0.0
Tomatoes	231	94	5,836,504	87	26	289	120	78.7
Spinach	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
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	0	0	.	0	.	0	-	0.0
FRUITS & VEGETABLES	231	94	5,836,504		72	318	167	56.6
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	0	0	.	29	6	29	6	0.0
CASH CROPS	0	0	.	29	6	29	6	0.0
Malay	0	0	.	0	.	0	-	0.0
Total	1,502	1,516	64,415,342	5,836	4,263	7,310	5,778	26.2

5.110 :Planted Area & Number of Crop Growing Households by Inorganic Fertilizer use and Crop for the 2007/08 agriculture year - SHORT RAINY SEASON (VULI) - Arusha Rural

Crop	Inorganic Fertilizer use							% of Planted area using Inorganic Fertilizer
	Number of Households using Inorganic Fertilizer	Planted Area Applied with Inorganic Fertilizer	Cost of Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area Without Inorganic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	956	415	39,265,500	14,810	4,627	15,527	5,042	8.2
Paddy	0	0	.	0	.	0	-	0.0
Sorghum	0	0	.	0	.	0	-	0.0
Finger Millet	119	73	477,755	0	.	119	-	0.0
Wheat	0	.	.	0	.	0	-	0.0
Barley	0	.	.	0	.	0	-	0.0
CEREALS		487	39,743,255		4,627	15,646	5,115	9.5
Cassava	0	0	.	0	.	0	-	0.0
Sweet Potato	0	0	.	119	24	119	24	0.0
Irish potatoes	358	266	20,185,154	956	290	1,194	556	47.8
ROOTS & TUBERS		266	20,185,154		314	1,314	580	45.8
Mung Bean	0	266	.	119	97	119	363	73.3
Beans	717	219	9,525,243	11,705	2,813	12,183	3,032	7.2
Cowpeas	0	0	.	239	53	239	53	0.0
Green gram	0	0	.	597	157	597	157	0.0
Chick peas	0	0	.	119	19	119	19	0.0
Field Peas	0	0	.	0	.	0	-	0.0
PULSES	717	219	9,525,243	12,780	3,139	13,258	3,357	6.5
Sunflower	0	0	.	0	.	0	-	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	0	0	.	478	97	478	97	0.0
OIL SEEDS & OIL NUTS		0	.		97	478	97	0.0
Okra	0	0	.	0	.	0	-	0.0
Radish	239	94	4,777,551	0	.	239	-	0.0
Turmeric	0	0	.	119	77	119	77	0.0
Bitteer	0	0	.	119	48	119	48	0.0
Aubergine	0	0	.	119	48	119	48	0.0
Onion	119	24	5,733,062	0	.	119	-	0.0
Cabbage	358	133	9,823,840	478	62	836	195	68.2
Tomatoes	239	39	2,179,758	119	36	239	75	51.6
Spinach	0	0	.	119	16	119	16	0.0
Carrot	0	0	.	478	60	478	60	0.0
Chillies	0	0	.	0	.	0	-	0.0
Amaranths	0	0	.	239	18	239	18	0.0
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	0	0	.	0	.	0	-	0.0
FRUITS & VEGETABLES		290	22,514,210		319	2,508	609	47.7
Cotton	0	0	.	119	145	119	145	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS		0	.		145	119	145	0.0
Malay	0	0	.	0	.	0	-	0.0
Total	3,105	1,262	91,967,862	30,935	8,641	33,323	9,903	12.7

5.111 :Planted Area & Number of Crop Growing Households by Inorganic Fertilizer use and Crop for the 2007/08 agriculture year - SHORT RAINY SEASON (VULI) - Meru

Crop	Inorganic Fertilizer use							% of Planted area using Inorganic Fertilizer
	Number of Households using Inorganic Fertilizer	Planted Area Applied with Inorganic Fertilizer	Cost of Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area Without Inorganic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	2,562	701	79,781,929	6,344	4,007	8,907	4,707	14.9
Paddy	244	62	5,490,422	0	.	244	-	0.0
Sorghum	0	0	.	0	.	0	-	0.0
Finger Millet	0	0	.	0	.	0	-	0.0
Wheat	0	0	.	0	.	0	-	0.0
Barley	0	0	.	0	.	0	-	0.0
CEREALS		763	85,272,351		4,007	9,151	4,769	16.0
Cassava	0	0	.	0	.	0	-	0.0
Sweet Potato	0	0	.	0	.	0	-	0.0
Irish potatoes	122	49	1,220,094	0	.	122	-	0.0
ROOTS & TUBERS		49	1,220,094		.	122	-	0.0
Mung Bean	0	0	.	0	.	0	-	0.0
Beans	610	100	2,891,622	4,636	2,145	5,246	2,245	4.5
Cowpeas	0	0	.	0	.	0	-	0.0
Green gram	0	0	.	0	.	0	-	0.0
Chick peas	0	0	.	122	49	122	49	0.0
Field Peas	0	0	.	0	.	0	-	0.0
PULSESES	610	100	2,891,622	4,758	2,194	5,368	2,294	4.4
Sunflower	0	0	.	0	.	0	-	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	0	0	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	.		.	0	-	0.0
Okra	244	62	1,647,127	0	.	244	-	0.0
Radish	0	.	.	0	.	0	-	0.0
Turmeric	0	0	.	0	.	0	-	0.0
Bitteer Aubergine	366	0	22,632,739	122	25	488	25	0.0
Onion	0	0	.	0	.	0	-	0.0
Cabbage	488	27	634,449	122	5	610	32	84.4
Tomatoes	1,708	547	82,319,724	488	111	2,196	658	83.1
Spinach	244	6	268,421	122	5	366	11	56.5
Carrot	244	49	10,980,844	0	.	244	-	0.0
Chillies	244	8	268,421	244	27	488	35	22.5
Amaranths	366	9	366,028	0	.	366	-	0.0
Cucumber	244	74	12,810,984	0	.	244	-	0.0
Egg Plant	122	49	2,806,216	0	.	122	-	0.0
FRUITS & VEGETABLES		894	134,734,950		173	5,368	1,067	83.8
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	0	0	.	122	74	122	74	0.0
CASH CROPS	0	0	.	122	74	122	74	0.0
Malay	0	0	.	0	.	0	-	0.0
Total	7,809	1,806	224,119,017	12,323	6,448	20,132	8,254	21.9

ANNUAL CROP AND VEGETABLE PRODUCTION LONG RAINY SEASON (MASIKA)

5.112 :Planted Area & Number of Crop Growing Households by Fungicide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Monduli

Crop	Fungicide use							% of Planted area using Insecticide
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Cost of Fungicide	Number of Households NOT using Fungicide	Planted Area Without Fungicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	71	87	1,428,809	21,432	26,392	21,504	26,479	0.3
Paddy	0	0	0	429	159	429	159	0.0
Sorghum	0	0	0	71	43	71	43	0.0
Finger Millet	0	0	0	0	.	0	-	0.0
Wheat	643	817	26,397,245	357	513	929	1,330	61.4
Barley	0	.	.	0	.	0	-	0.0
CEREALS		904	27,826,054		27,108	22,932	28,012	3.2
Cassava	0	0	.	0	.	0	-	0.0
Sweet Potato	0	0	.	0	.	0	-	0.0
Irish potatoes	0	0	.	0	.	0	-	0.0
ROOTS & TUBERS		0	.		.	0	-	0.0
Mung Bean	0	0	0	0	0	0	-	0.0
Beans	71	43	321,482	15,431	10,652	15,431	10,695	0.4
Cowpeas	143	145	621,532	2,572	1,197	2,715	1,342	10.8
Green gram	0	0	.	4,001	2,461	4,001	2,461	0.0
Chick peas	143	29	6,858,283	2,072	1,133	2,143	1,162	2.5
Field Peas	0	0	.	0	.	0	-	0.0
PULSES	357	217	7,801,297	24,075	15,444	24,290	15,661	1.4
Sunflower	0	0	.	0	.	0	-	0.0
Simsim	0	0	.	143	376	143	376	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	0	0	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	.		376	143	376	0.0
Okra	0	0	.	0	.	0	-	0.0
Radish	0	0	.	71	7	71	7	0.0
Turmeric	0	0	.	0	.	0	-	0.0
Bitteer Aubergine	0	0	.	0	.	0	-	0.0
Onion	71	14	1,143,047	0	.	71	-	0.0
Cabbage	0	0	.	71	14	71	14	0.0
Tomatoes	0	0	.	0	.	0	-	0.0
Spinach	0	0	.	143	10	143	10	0.0
Carrot	0	0	.	71	5	71	5	0.0
Chillies	0	0	.	0	.	0	-	0.0
Amaranths	0	0	.	0	.	0	-	0.0
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	0	0	.	0	.	0	-	0.0
FRUITS & VEGETABLES		14	1,143,047		36	429	51	28.6
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS	0	0	.	0	.	0	-	0.0
Malay	0	0	.	71	29	71	29	0.0
Total	1,143	1,135	36,770,398	46,936	42,993	47,865	44,128	2.6

5.113 : Planted Area & Number of Crop Growing Households by Fungicide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Arusha

Crop	Fungicide use							% of Planted area using Insecticide
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Cost of Fungicide	Number of Households NOT using Fungicide	Planted Area Without Fungicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	0	0	.	2,472	1,979	2,472	1,979	0.0
Paddy	0	0	.	0	.	0	-	0.0
Sorghum	0	0	.	0	.	0	-	0.0
Finger Millet	0	0	.	0	.	0	-	0.0
Wheat	0	0	.	0	.	0	-	0.0
Barley	0	0	.	0	.	0	-	0.0
CEREALS		0	.		1,979	2,472	1,979	0.0
Cassava	0	0	.	0	.	0	-	0.0
Sweet Potato	0	0	.	43	4	43	4	0.0
Irish potatoes	0	0	.	0	.	0	-	0.0
ROOTS & TUBERS		0	.		4	43	4	0.0
Mung Bean	0	0	.	0	.	0	-	0.0
Beans	0	0	.	2,174	1,386	2,174	1,386	0.0
Cowpeas	0	0	.	213	104	213	104	0.0
Green gram	0	0	.	128	22	128	22	0.0
Chick peas	43	35	532,743	384	450	426	485	7.1
Field Peas	0	0	.	0	.	0	#VALUE!	0.0
PULSES	43	35	532,743	2,898	1,962	2,941	1,996	1.7
Sunflower	0	0	.	43	9	43	9	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	0	0	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	.		9	43	9	0.0
Okra	0	0	.	0	.	0	-	0.0
Radish	0	0	.	43	9	43	9	0.0
Turmeric	0	0	.	0	.	0	-	0.0
Bitteer	0	0	.	0	.	0	-	0.0
Aubergine	0	0	.	0	.	0	-	0.0
Onion	0	0	.	128	28	128	28	0.0
Cabbage	0	0	.	0	.	0	-	0.0
Tomatoes	0	0	.	0	.	0	-	0.0
Spinach	0	0	.	170	21	170	21	0.0
Carrot	0	0	.	0	.	0	-	0.0
Chillies	0	0	.	85	11	85	11	0.0
Amaranths	0	0	.	85	6	85	6	0.0
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	0	0	.	43	17	43	17	0.0
FRUITS & VEGETABLES		0	.		92	554	92	0.0
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS	0	0	.	0	.	0	-	0.0
Malay	0	0	.	0	.	0	-	0.0
Total	43	35	532,743	6,009	4,046	6,052	4,080	0.8

5.114 Planted Area & Number of Crop Growing Households by Fungicide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Karatu

Crop	Fungicide use							% of Planted area using Insecticide
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Cost of Fungicide	Number of Households NOT using Fungicide	Planted Area Without Fungicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	802	307	11,228,880	30,122	19,911	30,924	20,218	1.5
Paddy	0	0	.	446	198	446	198	0.0
Sorghum	0	0	.	2,228	507	2,228	507	0.0
Finger Millet	0	0	.	624	135	624	135	0.0
Wheat	356	144	14,682,207	1,159	913	1,515	1,057	13.7
Barley	89	54	2,851,779	356	126	356	180	30.0
CEREALS		505	28,762,866		21,791	36,093	22,296	2.3
Cassava	0	0	.	0	.	0	-	0.0
Sweet Potato	0	0	.	0	.	0	-	0.0
Irish potatoes	0	0	.	0	.	0	-	0.0
ROOTS & TUBERS		0	.		.	0	-	0.0
Mung Bean	0	0	.	0	.	0	-	0.0
Beans	535	99	4,723,259	9,536	3,232	10,070	3,331	3.0
Cowpeas	0	0	.	1,515	551	1,515	551	0.0
Green gram	0	0	.	0	.	0	-	0.0
Chick peas	89	36	2,138,834	0	.	89	-	0.0
Field Peas	0	0	.	0	.	0	-	0.0
PULSES	624	135	6,862,094	11,051	3,783	11,674	3,918	3.5
Sunflower	0	0	.	3,476	429	3,476	429	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	0	0	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	.		429	3,476	429	0.0
Okra	0	0	.	0	.	0	-	0.0
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	.	356	126	356	126	0.0
Cabbage	0	0	.	0	.	0	-	0.0
Tomatoes	0	0	.	0	.	0	-	0.0
Spinach	89	3	1,069,417	89	3	178	6	50.0
Carrot	0	0	.	0	.	0	-	0.0
Chillies	0	0	.	0	.	0	-	0.0
Amaranths	0	0	.	0	.	0	-	0.0
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	0	0	.	0	.	0	-	0.0
FRUITS & VEGETABLES		3	1,069,417		129	535	132	2.2
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS	0	0	.	0	.	0	-	0.0
Malay	0	0	.	0	.	0	-	0.0
Total	1,961	643	36,694,377	49,906	26,133	51,778	26,776	2.4

5.115 Planted Area & Number of Crop Growing Households by Fungicide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Ngorongoro

Crop	Fungicide use							% of Planted area using Insecticide
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Cost of Fungicide	Number of Households NOT using Fungicide	Planted Area Without Fungicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	71	29	.	10,018	9,020	10,089	9,049	0.3
Paddy	0	0	.	0	.	0	-	0.0
Sorghum	0	0	.	1,492	994	1,492	994	0.0
Finger Millet	0	0	.	0	.	0	-	0.0
Wheat	0	0	.	0	.	0	-	0.0
Barley	0	0	.	0	.	0	-	0.0
CEREALS		29	.		10,014	11,581	10,043	0.3
Cassava	0	0	.	0	.	0	-	0.0
Sweet Potato	0	0	.	71	14	71	14	0.0
Irish potatoes	0	0	.	142	20	142	20	0.0
ROOTS & TUBERS		0	.		35	213	35	0.0
Mung Bean	0	0	.	0	.	0	-	0.0
Beans	71	29	.	6,466	4,229	6,537	4,258	0.7
Cowpeas	0	0	.	71	29	71	29	0.0
Green gram	0	0	.	0	.	0	-	0.0
Chick peas	0	0	.	0	.	0	-	0.0
Field Peas	0	0	.	0	.	0	-	0.0
PULSES	71	29	.	6,537	4,258	6,608	4,287	0.7
Sunflower	0	0	.	71	29	71	29	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	0	0	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	.		29	71	29	0.0
Okra	0	0	.	0	.	0	-	0.0
Radish	0	0	.	0	.	0	-	0.0
Turmeric	0	0	.	0	.	0	-	0.0
Bitter Aubergine	0	0	.	0	.	0	-	0.0
Onion	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
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	0	0	.	0	.	0	-	0.0
FRUITS & VEGETABLES		0	.		.	0	-	0.0
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS	0	0	.	0	.	0	-	0.0
Malay	0	0	.	0	.	0	-	0.0
Total	142	58	.	18,331	14,335	18,473	14,393	0.4

5.116 Planted Area & Number of Crop Growing Households by Fungicide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Longido

Crop	Fungicide use							% of Planted area using Insecticide
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Cost of Fungicide	Number of Households NOT using Fungicide	Planted Area Without Fungicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	347	263	5,070,573	4,565	3,556	4,912	3,819	6.9
Paddy	0	.	.	29	12	29	-	0.0
Sorghum	0	.	.	0	.	0	-	0.0
Finger Millet	0	.	.	144	94	144	-	0.0
Wheat	0	.	.	404	597	404	-	0.0
Barley	0	.	.	0	.	0	-	0.0
CEREALS		263	5,070,573		4,258	5,490	4,521	5.8
Cassava	0	.	.	0	.	0	-	0.0
Sweet Potato	0	.	.	0	.	0	-	0.0
Irish potatoes	231	120	6,991,901	144	97	376	216	55.4
ROOTS & TUBERS		120	6,991,901		97	376	216	55.4
Mung Bean	0	.	.	0	.	0	-	0.0
Beans	260	345	8,407,616	3,063	1,936	3,294	2,281	15.1
Cowpeas	0	.	.	0	.	0	-	0.0
Green gram	0	.	.	0	.	0	-	0.0
Chick peas	0	.	.	0	.	0	-	0.0
Field Peas	0	.	.	0	.	0	-	0.0
PULSES	260	345	8,407,616	3,063	1,936	3,294	2,281	15.1
Sunflower	0	.	.	116	76	116	-	0.0
Simsim	0	.	.	0	.	0	-	0.0
Groundnut	0	.	.	0	.	0	-	0.0
Soya Beans	0	.	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		.	.		76	116	-	0.0
Okra	0	.	.	0	.	0	-	0.0
Radish	0	.	.	0	.	0	-	0.0
Turmeric	0	.	.	0	.	0	-	0.0
Bitteer Aubergine	0	.	.	0	.	0	-	0.0
Onion	0	.	.	0	.	0	-	0.0
Cabbage	0	.	.	0	.	0	-	0.0
Tomatoes	58	29	953,441	29	20	87	50	58.8
Spinach	0	.	.	0	.	0	-	0.0
Carrot	0	.	.	0	.	0	-	0.0
Chillies	0	.	.	0	.	0	-	0.0
Amaranths	0	.	.	0	.	0	-	0.0
Cucumber	0	.	.	0	.	0	-	0.0
Egg Plant	0	.	.	0	.	0	-	0.0
FRUITS & VEGETABLES		29	953,441		20	87	50	58.8
Cotton	0	.	.	0	.	0	-	0.0
Tobacco	0	.	.	0	.	0	-	0.0
CASH CROPS	0	.	.	0	.	0	-	0.0
Malay	0	.	.	0	.	0	-	0.0
Total	896	757	21,423,531	8,494	6,387	9,361	7,144	10.6

5.117 Planted Area & Number of Crop Growing Households by Fungicide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) -Arusha Rural

Crop	Fungicide use							% of Planted area using Insecticide
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Cost of Fungicide	Number of Households NOT using Fungicide	Planted Area Without Fungicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	239	46	1,672,143	35,354	16,499	35,593	16,545	0.3
Paddy	0	.	.	0	.	0	-	0.0
Sorghum	0	.	.	0	.	0	-	0.0
Finger Millet	0	.	.	0	.	0	-	0.0
Wheat	0	.	.	1,314	1,018	1,314	-	0.0
Barley	0	.	.	0	.	0	-	0.0
CEREALS		46	1,672,143		17,517	36,907	17,563	0.3
Cassava	0	.	.	0	.	0	-	0.0
Sweet Potato	0	.	.	358	94	358	-	0.0
Irish potatoes	836	273	11,389,682	119	12	956	285	95.8
ROOTS & TUBERS		273	11,389,682		106	1,314	379	71.9
Mung Bean	0	.	.	0	.	0	-	0.0
Beans	119	15	477,755	31,890	10,543	32,010	10,558	0.1
Cowpeas	0	.	.	1,433	515	1,433	-	0.0
Green gram	0	.	.	3,344	1,179	3,344	-	0.0
Chick peas	0	.	.	1,314	551	1,314	-	0.0
Field Peas	0	.	.	119	48	119	-	0.0
PULSES	119	15	477,755	38,101	12,837	38,220	12,851	0.1
Sunflower	0	.	.	0	.	0	-	0.0
Simsim	0	.	.	0	.	0	-	0.0
Groundnut	0	.	.	0	.	0	-	0.0
Soya Beans	119	12	1,194,388	478	97	597	109	11.1
OIL SEEDS & OIL NUTS		12	1,194,388		97	597	109	11.1
Okra	0	.	.	239	68	239	-	0.0
Radish	0	.	.	119	12	119	-	0.0
Turmeric	0	.	.	0	.	0	-	0.0
Bitter Aubergine	119	24	477,755	119	48	239	73	33.3
Onion	0	.	.	119	48	119	-	0.0
Cabbage	0	.	.	358	109	358	-	0.0
Tomatoes	239	39	2,388,776	119	48	358	87	44.4
Spinach	0	.	.	119	24	119	-	0.0
Carrot	0	.	.	0	.	0	-	0.0
Chillies	0	.	.	0	.	0	-	0.0
Amaranths	0	.	.	597	16	597	-	0.0
Cucumber	0	.	.	0	.	0	-	0.0
Egg Plant	0	.	.	0	.	0	-	0.0
FRUITS & VEGETABLES		63	2,866,531		374	2,150	437	14.4
Cotton	0	.	.	0	.	0	-	0.0
Tobacco	0	.	.	0	.	0	-	0.0
CASH CROPS	0	.	.	0	.	0	-	0.0
Malay	0	.	.	0	.	0	-	0.0
Total	1,672	408	17,600,499	77,516	30,931	79,188	31,339	1.3

5.118 : Planted Area & Number of Crop Growing Households by Fungicide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Meru

Crop	Fungicide use							% of Planted area using Insecticide
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Cost of Fungicide	Number of Households NOT using Fungicide	Planted Area Without Fungicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	366	169	5,429,417	38,189	27,954	38,555	28,123	0.6
Paddy	0	.	.	732	210	732	-	0.0
Sorghum	0	.	.	366	114	366	-	0.0
Finger Millet	0	.	.	610	321	610	-	0.0
Wheat	0	.	.	0	.	0	-	0.0
Barley	0	.	.	0	.	0	-	0.0
CEREALS		169	5,429,417		28,599	40,263	28,768	0.6
Cassava	0	.	.	122	20	122	-	0.0
Sweet Potato	0	.	.	366	10	366	-	0.0
Irish potatoes	0	.	.	122	25	122	-	0.0
ROOTS & TUBERS		.	.		54	610	-	0.0
Mung Bean	122	49	3,660,281	0	.	122	-	0.0
Beans	366	52	3,757,889	22,450	7,522	22,816	7,573	0.7
Cowpeas	0	.	.	610	67	610	-	0.0
Green gram	0	.	.	488	222	488	-	0.0
Chick peas	0	.	.	122	12	122	-	0.0
Field Peas	0	.	.	0	.	0	-	0.0
PULSESES	488	101	7,418,170	23,670	7,823	24,158	7,924	1.3
Sunflower	0	.	.	4,148	1,648	4,148	-	0.0
Simsim	0	.	.	0	.	0	-	0.0
Groundnut	122	12	183,014	0	.	122	-	0.0
Soya Beans	0	.	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		12	183,014		1,648	4,270	1,661	0.7
Okra	0	.	.	122	12	122	-	0.0
Radish	0	.	.	0	.	0	-	0.0
Turmeric	0	.	.	122	49	122	-	0.0
Bitter Aubergine	0	.	.	244	35	244	-	0.0
Onion	0	.	.	0	.	0	-	0.0
Cabbage	0	.	.	122	25	122	-	0.0
Tomatoes	732	247	40,141,084	122	30	854	277	89.3
Spinach	0	.	.	0	.	0	-	0.0
Carrot	122	49	6,100,469	0	.	122	-	0.0
Chillies	0	.	.	0	.	0	-	0.0
Amaranths	0	.	.	122	49	122	-	0.0
Cucumber	244	198	4,880,375	0	.	244	-	0.0
Egg Plant	0	.	.	0	.	0	-	0.0
FRUITS & VEGETABLES		494	51,121,927		200	1,952	694	71.2
Cotton	0	.	.	0	.	0	-	0.0
Tobacco	0	.	.	0	.	0	-	0.0
CASH CROPS	0	.	.	0	.	0	-	0.0
Malay	0	.	.	0	.	0	-	0.0
Total	2,074	777	64,152,528	69,179	38,324	71,253	39,101	2.0

5.119 : Planted Area & Number of Crop Growing Households by Insecticide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Monduli

Crop	Insecticide use							% of Planted area using Insecticide
	Number of Households using Insecticide	Planted Area Applied with Insecticide	Cost of Insecticide	Number of Households NOT using Insecticide	Planted Area Without Insecticide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	71	29	1,928,892	21,432	26,450	21,504	26,479	0.1
Paddy	0	0	0	429	159	429	159	0.0
Sorghum	0	0	0	71	43	71	43	0.0
Finger Millet	0	0	0	0	0	0	-	0.0
Wheat	143	202	3,377,704	786	1,128	929	1,330	15.2
Barley	0	0	0	0	0	0	-	0.0
CEREALS		231	5,306,596		27,780		28,012	0.8
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
ROOTS & TUBERS		0	0		0		-	0.0
Mung Bean	0	0	0	0	0	0	-	0.0
Beans	643	283	3,893,504	14,931	10,412	15,431	10,695	2.7
Cowpeas	1,000	612	10,358,865	1,715	730	2,715	1,342	45.6
Green gram	572	366	6,715,402	3,429	2,095	4,001	2,461	14.9
Chick peas	1,214	680	18,324,475	1,000	482	2,143	1,162	58.5
Field Peas	0	0	0	0	0	0	-	0.0
PULSES		1,941	39,292,246		13,719		15,661	12.4
Sunflower	0	0	0	0	0	0	-	0.0
Simsim	0	0	0	143	376	143	376	0.0
Groundnut	0	0	0	0	0	0	-	0.0
Soya Beans	0	0	0	0	0	0	-	0.0
OIL SEEDS & OIL NUTS		0	0		0		-	0.0
Okra	0	0	0	0	0	0	-	0.0
Radish	0	0	0	71	7	71	7	0.0
Turmeric	0	0	0	0	0	0	-	0.0
Bitteer	0	0	0	0	0	0	-	0.0
Aubergine	0	0	0	0	0	0	-	0.0
Onion	71	14	2,679,017	0	0	71	-	14.0
Cabbage	0	0	0	71	14	71	14	0.0
Tomatoes	0	0	0	0	0	0	-	0.0
Spinach	0	0	0	143	10	143	10	0.0
Carrot	0	0	0	71	5	71	5	0.0
Chillies	0	0	0	0	0	0	-	0.0
Amaranths	0	0	0	0	.	0	.	0.0
Cucumber	0	0	0	0	.	0	.	0.0
Egg Plant	0	0	0	0			-	0.0
FRUITS & VEGETABLES		14	2,679,017		36		50	28.9
Cotton	0	0	.	0	0	0	-	0.0
Tobacco	0	0	.	0	0	0	-	0.0
CASH CROPS		0	.		0	0	-	0.0
Malay	0	0	0	71	29	71	29	0.0
Total	3,715	2,187	47,277,860	44,365	41,941	47,865	41,941	5.2

5.120 : Planted Area & Number of Crop Growing Households by Insecticide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Arusha

Crop	Insecticide use							% of Planted area using Insecticide
	Number of Households using Insecticide	Planted Area Applied with Insecticide	Cost of Insecticide	Number of Households NOT using Insecticide	Planted Area Without Insecticide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	85	73	1,363,822	2,387	1,906	2,472	1,979	3.7
Paddy	0	0	0	0	0	0	-	-
Sorghum	0	0	0	0	0	0	-	-
Finger Millet	0	0	0	0	0	0	-	-
Wheat	0	0	0	0	0	0	-	-
Barley	0	0	0	0	0	0	-	-
CEREALS		73	1,363,822		1,906	2,472	1,979	3.7
Cassava	0	0	0	0	0	0	-	-
Sweet Potato	0	0	0	43	4	43	4	0.0
Irish potatoes	0	0	0	0	0	0	-	-
ROOTS & TUBERS		0	0		4	43	4	0.0
Mung Bean	0	0	0	0	0	0	-	-
Beans	0	0	0	2,174	1,386	2,174	1,386	0.0
Cowpeas	0	0	0	213	104	213	104	0.0
Green gram	0	0	0	128	22	128	22	0.0
Chick peas	43	35	1,534,299	384	450	426	485	7.1
Field Peas	0	0	0	0	.	0	-	0.0
PULSES	43	35	1,534,299	2,898	1,962	2,941	1,996	1.7
Sunflower	0	0	0	43	9	43	9	0.0
Simsim	0	0	0	0	0	0	-	0.0
Groundnut	0	0	0	0	0	0	-	0.0
Soya Beans	0	0	0	0	0	0	-	0.0
OIL SEEDS & OIL NUTS		0	0		9	43	9	0.0
Okra	0	0	0	0	0	0	-	0.0
Radish	0	0	0	43	9	43	9	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	128	28	128	28	0.0
Cabbage	0	0	0	0	0	0	-	0.0
Tomatoes	0	0	0	0	0	0	-	0.0
Spinach	0	0	0	170	21	170	21	0.0
Carrot	0	0	0	0	0	0	-	0.0
Chillies	43	2	767,150	43	9	85	11	20.6
Amaranths	43	2	767,150	43	4	85	6	32.4
Cucumber	0	0	0	0	0	0	-	0.0
Egg Plant	0	0	0	43	17	43	17	0.0
FRUITS & VEGETABLES		4	1,534,299		88	554	92	4.7
Cotton	0	0	0	0	0	0	-	0.0
Tobacco	0	0	0	0	0	0	-	0.0
CASH CROPS	0	0	0	0	0	0	-	0.0
Malay	0	0	0	0	0	0	-	0.0
Total	213	112	4,432,420	5,839	3,968	6,052	4,080	2.7

5.121 :Planted Area & Number of Crop Growing Households by Insecticide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Karatu

Crop	Insecticide use							% of Planted area using Insecticide
	Number of Households using Insecticide	Planted Area Applied with Insecticide	Cost of Insecticide	Number of Households NOT using Insecticide	Planted Area Without Insecticide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	1,782	1,298	10,282,001	29,231	18,920	30,924	20,218	6.4
Paddy	0	0	0	446	198	446	198	0.0
Sorghum	0	0	0	2,228	507	2,228	507	0.0
Finger Millet	0	0	0	624	135	624	135	0.0
Wheat	624	541	3,208,252	891	516	1,515	1,057	51.2
Barley	267	144	2,317,071	89	36	356	180	80.0
CEREALS		1,983	15,807,323		20,313	36,093	22,296	8.9
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
ROOTS & TUBERS		0	0		0	0	-	0.0
Mung Bean	0	0	0	0	0	0	-	0.0
Beans	1,782	738	10,872,408	8,288	2,593	10,070	3,331	22.2
Cowpeas	0	0	0	1,515	551	1,515	551	0.0
Green gram	0	0	0	0	0	0	-	0.0
Chick peas	0	0	0	89	36	89	36	0.0
Field Peas	0	0	0	0	0	0	-	0.0
PULSES	1,782	738	10,872,408	9,892	3,180	11,674	3,918	18.8
Sunflower	0	0	0	3,476	429	3,476	429	0.0
Simsim	0	0	0	0	0	0	-	0.0
Groundnut	0	0	0	0	0	0	-	0.0
Soya Beans	0	0	0	0	0	0	-	0.0
OIL SEEDS & OIL NUTS		0	0		429	3,476	429	0.0
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	89	18	4,990,613	267	108	356	126	14.3
Cabbage	0	0	0	0	0	0	-	0.0
Tomatoes	0	0	0	0	0	0	-	0.0
Spinach	0	0	0	178	6	178	6	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
Cucumber	0	0	0	0	0	0	-	0.0
Egg Plant	0	0	0	0	0	0	-	0.0
FRUITS & VEGETABLES		18	4,990,613		114	535	132	13.7
Cotton	0	0	0	0	0	0	-	0.0
Tobacco	0	0	0	0	0	0	-	0.0
CASH CROPS	0	0	0	0	0	0	-	0.0
Malay	0	0	0	0	0	0	-	0.0
Total	4,545	2,739	31,670,344	47,322	24,037	51,778	26,776	10.2

5.122 :Planted Area & Number of Crop Growing Households by Insecticide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Ngorongoro

Crop	Insecticide use							% of Planted area using Insecticide
	Number of Households using Insecticide	Planted Area Applied with Insecticide	Cost of Insecticide	Number of Households NOT using Insecticide	Planted Area Without Insecticide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	0	0	0	10,089	9,049	10,089	9,049	0.0
Paddy	0	0	0	0	0	0	-	0.0
Sorghum	0	0	0	1,492	994	1,492	994	0.0
Finger Millet	0	0	0	0	0	0	-	0.0
Wheat	0	0	0	0	0	0	-	0.0
Barley	0	0	0	0	0	0	-	0.0
CEREALS		0	0		10,043	11,581	10,043	0.0
Cassava	0	0	0	0	0	0	-	0.0
Sweet Potato	0	0	0	71	14	71	14	0.0
Irish potatoes	0	0	0	142	20	142	20	0.0
ROOTS & TUBERS		0	0		35	213	35	0.0
Mung Bean	0	0	0	0	0	0	-	0.0
Beans	0	0	0	6,537	4,258	6,537	4,258	0.0
Cowpeas	0	0	0	71	29	71	29	0.0
Green gram	0	0	0	0	0	0	-	0.0
Chick peas	0	0	0	0	0	0	-	0.0
Field Peas	0	0	0	0	0	0	-	0.0
PULSES	0	0	0	6,608	4,287	6,608	4,287	0.0
Sunflower	0	0	0	71	29	71	29	0.0
Simsim	0	0	0	0	0	0	-	0.0
Groundnut	0	0	0	0	0	0	-	0.0
Soya Beans	0	0	0	0	0	0	-	0.0
OIL SEEDS & OIL NUTS		0	0		29	71	29	0.0
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
Bitter Aubergine	0	0	0	0	0	0	-	0.0
Onion	0	0	0	0	0	0	-	0.0
Cabbage	0	0	0	0	0	0	-	0.0
Tomatoes	0	0	0	0	0	0	-	0.0
Spinach	0	0	0	0	0	0	-	0.0
Carrot	0	0	0	0	0	0	-	0.0
Chillies	0	0	0	0	0	0	-	0.0
Amaranths	0	0	0	0	0	0	-	0.0
Cucumber	0	0	0	0	0	0	-	0.0
Egg Plant	0	0	0	0	0	0	-	0.0
FRUITS & VEGETABLES		0	0		0	0	-	0.0
Cotton	0	0	0	0	0	0	-	0.0
Tobacco	0	0	0	0	0	0	-	0.0
CASH CROPS	0	0	0	0	0	0	-	0.0
Malay	0	0	0	0	0	0	-	0.0
Total	0	0	0	18,473	14,393	18,473	14,393	0.0

5.123 : Planted Area & Number of Crop Growing Households by Insecticide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Longido

Crop	Insecticide use							% of Planted area using Insecticide
	Number of Households using Insecticide	Planted Area Applied with Insecticide	Cost of Insecticide	Number of Households NOT using Insecticide	Planted Area Without Insecticide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	896	570	23,677,119	4,045	3,249	4,912	3,819	14.9
Paddy	0	0	0	29	12	29	12	0.0
Sorghum	0	0	0	0	0	0	-	0.0
Finger Millet	0	0	0	144	94	144	94	0.0
Wheat	144	351	823,426	260	246	404	597	58.8
Barley	0	0	0	0	0	0	-	0.0
CEREALS		921	24,500,545		3,600	5,490	4,521	20.4
Cassava	0	0	0	0	0	0	-	0.0
Sweet Potato	0	0	0	0	0	0	-	0.0
Irish potatoes	289	199	3,987,117	87	18	376	216	91.9
ROOTS & TUBERS		199	3,987,117		18	376	216	91.9
Mung Bean	0	0	0	0	0	0	-	0.0
Beans	838	705	7,826,884	2,514	1,576	3,294	2,281	30.9
Cowpeas	0	0	0	0	0	0	-	0.0
Green gram	0	0	0	0	0	0	-	0.0
Chick peas	0	0	0	0	0	0	-	0.0
Field Peas	0	0	0	0	0	0	-	0.0
PULSES	838	705	7,826,884	2,514	1,576	3,294	2,281	30.9
Sunflower	29	18	462,274	87	58	116	76	23.1
Simsim	0	0	0	0	0	0	-	0.0
Groundnut	0	0	0	0	0	0	-	0.0
Soya Beans	0	0	0	0	0	0	-	0.0
OIL SEEDS & OIL NUTS		18	462,274		58	116	76	23.1
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
Bitter Aubergine	0	0	0	0	0	0	-	0.0
Onion	0	0	0	0	0	0	-	0.0
Cabbage	0	0	0	0	0	0	-	0.0
Tomatoes	58	29	462,274	29	20	87	50	58.8
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
Cucumber	0	0	0	0	0	0	-	0.0
Egg Plant	0	0	0	0	0	0	-	0.0
FRUITS & VEGETABLES		29	462,274		20	87	50	58.8
Cotton	0	0	0	0	0	0	-	0.0
Tobacco	0	0	0	0	0	0	-	0.0
CASH CROPS	0	0	0	0	0	0	-	0.0
Malay	0	0	0	0	0	0	-	0.0
Total	2,254	1,872	37,239,095	7,194	5,273	9,361	7,144	26.2

5.124 Planted Area & Number of Crop Growing Households by Insecticide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Arusha Rural

Crop	Insecticide use							% of Planted area using Insecticide
	Number of Households using Insecticide	Planted Area Applied with Insecticide	Cost of Insecticide	Number of Households NOT using Insecticide	Planted Area Without Insecticide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	1,075	684	5,971,939	34,518	15,861	35,593	16,545	4.1
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
Wheat	0	0	0	1,314	1,018	1,314	1,018	0.0
Barley	0	0	0	0	0	0	-	0.0
CEREALS		684	5,971,939		16,879	36,907	17,563	3.9
Cassava	0	0	0	0	0	0	-	0.0
Sweet Potato	0	0	0	358	94	358	94	0.0
Irish potatoes	717	249	13,556,302	239	36	956	285	87.3
ROOTS & TUBERS		249	13,556,302		131	1,314	379	65.6
Mung Bean	0	0	.	0	0	0	-	0.0
Beans	1,194	821	6,999,113	30,815	9,737	32,010	10,558	7.8
Cowpeas	0	0	.	1,433	515	1,433	515	0.0
Green gram	119	48	1,074,949	3,225	1,131	3,344	1,179	4.1
Chick peas	597	290	3,654,827	717	261	1,314	551	52.6
Field Peas	0	0	.	119	48	119	48	0.0
PULSES	1,911	1,160	11,728,888	36,309	11,691	38,220	12,851	9.0
Sunflower	0	0	.	0	0	0	-	0.0
Simsim	0	0	.	0	0	0	-	0.0
Groundnut	0	0	.	0	0	0	-	0.0
Soya Beans	119	12	1,194,388	478	97	597	109	11.1
OIL SEEDS & OIL NUTS		12	1,194,388		97	597	109	11.1
Okra	0	0	.	239	68	239	68	0.0
Radish	0	0	.	119	12	119	12	0.0
Turmeric	0	0	.	0	0	0	-	0.0
Bitter Aubergine	119	24	477,755	119	48	239	73	33.3
Onion	0	0	.	119	48	119	48	0.0
Cabbage	119	48	644,969	239	60	358	109	44.4
Tomatoes	358	87	14,917,904	0	0	358	87	100.0
Spinach	0	0	.	119	24	119	24	0.0
Carrot	0	0	.	0	0	0	-	0.0
Chillies	0	0	.	0	0	0	-	0.0
Amaranths	0	0	.	597	16	597	16	0.0
Cucumber	0	0	.	0	0	0	-	0.0
Egg Plant	0	0	.	0	0	0	-	0.0
FRUITS & VEGETABLES		160	16,040,628		278	2,150	437	36.5
Cotton	0	0	.	0	0	0	-	0.0
Tobacco	0	0	.	0	0	0	-	0.0
CASH CROPS	0	0	.	0	0	0	-	0.0
Malay	0	0	.	0	0	0	-	0.0
Total	4,419	2,264	48,492,146	74,769	29,075	79,188	31,339	7.2

5.125 :Planted Area & Number of Crop Growing Households by Insecticide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Meru

Crop	Insecticide use							% of Planted area using Insecticide
	Number of Households using Insecticide	Planted Area Applied with Insecticide	Cost of Insecticide	Number of Households NOT using Insecticide	Planted Area Without Insecticide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	2,928	2,173	21,308,937	36,237	25,950	38,555	28,123	7.7
Paddy	244	49	1,220,094	488	161	732	210	23.5
Sorghum	0	0	0	366	114	366	114	0.0
Finger Millet	0	0	0	610	321	610	321	0.0
Wheat	0	0	0	0	0	0	-	0.0
Barley	0	0	0	0	0	0	-	0.0
CEREALS		2,223	22,529,031		26,545	40,263	28,768	7.7
Cassava	0	0	.	122	20	122	20	0.0
Sweet Potato	0	0	.	366	10	366	10	0.0
Irish potatoes	0	0	.	122	25	122	25	0.0
ROOTS & TUBERS		0	.		54	610	54	0.0
Mung Bean	122	49	6,100,469	0	0	122	49	100.0
Beans	1,220	224	6,913,051	21,840	7,350	22,816	7,573	3.0
Cowpeas	0	0	.	610	67	610	67	0.0
Green gram	0	0	.	488	222	488	222	0.0
Chick peas	0	0	.	122	12	122	12	0.0
Field Peas	0	0	.	0	0	0	-	0.0
PULSES	1,342	273	13,013,520	23,060	7,651	24,158	7,924	3.4
Sunflower	0	0	.	4,148	1,648	4,148	1,648	0.0
Simsim	0	0	.	0	0	0	-	0.0
Groundnut	0	0	.	122	12	122	12	0.0
Soya Beans	0	0	.	0	0	0	-	0.0
OIL SEEDS & OIL NUTS		0	.		1,661	4,270	1,661	0.0
Okra	0	0	.	122	12	122	12	0.0
Radish	0	0	.	0	0	0	-	0.0
Turmeric	0	0	.	122	49	122	49	0.0
Bitteer Aubergine	0	0	.	244	35	244	35	0.0
Onion	0	0	.	0	0	0	-	0.0
Cabbage	0	0	.	122	25	122	25	0.0
Tomatoes	732	247	64,786,977	122	30	854	277	89.3
Spinach	0	0	.	0	0	0	-	0.0
Carrot	122	49	195,215	0	0	122	49	100.0
Chillies	0	0	.	0	0	0	-	0.0
Amaranths	0	0	.	122	49	122	49	0.0
Cucumber	122	148	4,392,337	122	49	244	198	75.0
Egg Plant	0	0	.	0	0	0	-	0.0
FRUITS & VEGETABLES		445	69,374,529		249	1,952	694	64.1
Cotton	0	0	.	0	0	0	-	0.0
Tobacco	0	0	.	0	0	0	-	0.0
CASH CROPS	0	0	.	0	0	0	-	0.0
Malay	0	0	.	0	0	0	-	0.0
Total	5,490	2,940	104,917,080	66,617	36,160	71,253	39,101	7.5

5.126 :Planted Area & Number of Crop Growing Households by Herbicide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Monduli

Crop	Herbicide use							% of Planted area using Insecticide
	Number of Households using Herbicide	Planted Area Applied with Herbicide	Cost of Herbicide	Number of Households NOT using Herbicide	Planted Area Without Herbicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	71	22	335,770	21,504	26,457	21,504	26,479	0.1
Paddy	0	.	.	429	159	429	-	0.0
Sorghum	0	.	.	71	43	71	-	0.0
Finger Millet	0	.	.	0	.	0	-	0.0
Wheat	429	564	30,240,742	500	766	929	1,330	42.4
Barley	0	.	.	0	.	0	-	0.0
CEREALS		586	30,576,512		27,426	22,932	28,012	2.1
Cassava	0	.	.	0	.	0	-	0.0
Sweet Potato	0	.	.	0	.	0	-	0.0
Irish potatoes	0	.	.	0	.	0	-	0.0
ROOTS & TUBERS		.	.		.	0	-	0.0
Mung Bean	0	.	.	0	.	0	-	0.0
Beans	286	94	1,443,097	15,431	10,601	15,431	10,695	0.9
Cowpeas	143	145	285,762	2,572	1,197	2,715	1,342	10.8
Green gram	71	43	285,762	4,001	2,418	4,001	2,461	1.8
Chick peas	286	137	1,264,496	2,000	1,025	2,143	1,162	11.8
Field Peas	0	.	.	0	.	0	-	0.0
PULSES		419	3,279,117		15,241	24,290	15,661	2.7
Sunflower	0	.	.	0	.	0	-	0.0
Simsim	0	.	.	143	376	143	-	0.0
Groundnut	0	.	.	0	.	0	-	0.0
Soya Beans	0	.	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		.	.		376	143	-	0.0
Okra	0	.	.	0	.	0	-	0.0
Radish	0	.	.	71	7	71	-	0.0
Turmeric	0	.	.	0	.	0	-	0.0
Bitteer								
Aubergine	0	.	.	0	.	0	-	0.0
Onion	71	14	371,490	0	.	71	-	0.0
Cabbage	0	.	.	71	14	71	-	0.0
Tomatoes	0	.	.	0	.	0	-	0.0
Spinach	0	.	.	143	10	143	-	0.0
Carrot	0	.	.	71	5	71	-	0.0
Chillies	0	.	.	0	.	0	-	0.0
Amaranths	0	.	.	0	.	0	-	0.0
Cucumber	0	.	.	0	.	0	-	0.0
Egg Plant	0	.	.	0	.	0	-	0.0
FRUITS & VEGETABLES		14	371,490		36	429	51	28.6
Cotton	0	.	.	0	.	0	-	0.0
Tobacco	0	.	.	0	.	0	-	0.0
CASH CROPS		.	.		.	0	-	0.0
Malay	0	.	.	71	29	71	-	0.0
Total	1,357	1,020	34,227,119	47,079	43,108	47,865	44,128	2.3

5.127 :Planted Area & Number of Crop Growing Households byHerbicide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Arusha

Crop	Herbicide use							% of Planted area using Insecticide
	Number of Households using Herbicide	Planted Area Applied with Herbicide	Cost of Herbicide	Number of Households NOT using Herbicide	Planted Area Without Herbicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	0	0	.	2,472	1,979	2,472	1,979	0.0
Paddy	0	0	.	0	.	0	-	0.0
Sorghum	0	0	.	0	.	0	-	0.0
Finger Millet	0	0	.	0	.	0	-	0.0
Wheat	0	0	.	0	.	0	-	0.0
Barley	0	0	.	0	.	0	-	0.0
CEREALS		0	.		1,979	2,472	1,979	0.0
Cassava	0	0	.	0	.	0	-	0.0
Sweet Potato	0	0	.	43	4	43	4	0.0
Irish potatoes	0	0	.	0	.	0	-	0.0
ROOTS & TUBERS		0	.		4	43	4	0.0
Mung Bean	0	0	.	0	.	0	-	0.0
Beans	0	0	.	2,174	1,386	2,174	1,386	0.0
Cowpeas	0	0	.	213	104	213	104	0.0
Green gram	0	0	.	128	22	128	22	0.0
Chick peas	43	17	434,718	426	467	426	485	3.6
Field Peas	0	0	.	0	.	0	-	0.0
PULSES	43	17	434,718	2,941	1,979	2,941	1,996	0.9
Sunflower	0	0	.	43	9	43	9	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	0	0	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	.		9	43	9	0.0
Okra	0	0	.	0	.	0	-	0.0
Radish	0	0	.	43	9	43	9	0.0
Turmeric	0	0	.	0	.	0	-	0.0
Bitteer Aubergine	0	0	.	0	.	0	-	0.0
Onion	0	0	.	128	28	128	28	0.0
Cabbage	0	0	.	0	.	0	-	0.0
Tomatoes	0	0	.	0	.	0	-	0.0
Spinach	0	0	.	170	21	170	21	0.0
Carrot	0	0	.	0	.	0	-	0.0
Chillies	0	0	.	85	11	85	11	0.0
Amaranths	0	0	.	85	6	85	6	0.0
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	0	0	.	43	17	43	17	0.0
FRUITS & VEGETABLES		0	.		92	554	92	0.0
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS	0	0	.	0	.	0	-	0.0
Malay	0	0	.	0	.	0	-	0.0
Total	43	17	434,718	6,052	4,063	6,052	4,080	0.4

5.128 :Planted Area & Number of Crop Growing Households by Insecticide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Karatu

Crop	Herbicide use							% of Planted area using Insecticide
	Number of Households using Herbicide	Planted Area Applied with Herbicide	Cost of Herbicide	Number of Households NOT using Herbicide	Planted Area Without Herbicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	267	81	2,049,716	30,657	20,137	30,924	20,218	0.4
Paddy	0	0	.	446	198	446	198	0.0
Sorghum	0	0	.	2,228	507	2,228	507	0.0
Finger Millet	0	0	.	624	135	624	135	0.0
Wheat	624	667	4,411,346	891	390	1,515	1,057	63.1
Barley	178	108	2,272,512	178	72	356	180	60.0
CEREALS		857	8,733,574		21,439	36,093	22,296	3.8
Cassava	0	0	.	0	.	0	-	0.0
Sweet Potato	0	0	.	0	.	0	-	0.0
Irish potatoes	0	0	.	0	.	0	-	0.0
ROOTS & TUBERS		0	.		.	0	-	0.0
Mung Bean	0	0	.	0	.	0	-	0.0
Beans	802	292	4,745,539	9,268	3,039	10,070	3,331	8.8
Cowpeas	89	3	891,181	1,426	548	1,515	551	0.5
Green gram	0	0	.	0	.	0	-	0.0
Chick peas	0	0	.	89	36	89	36	0.0
Field Peas	0	0	.	0	.	0	-	0.0
PULSES	891	295	5,636,720	10,783	3,623	11,674	3,918	7.5
Sunflower	0	0	.	3,476	429	3,476	429	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	0	0	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	.		429	3,476	429	0.0
Okra	0	0	.	0	.	0	-	0.0
Radish	0	0	.	0	.	0	-	0.0
Turmeric	0	0	.	0	.	0	-	0.0
Bitteer	0	0	.	0	.	0	-	0.0
Aubergine	0	0	.	0	.	0	-	0.0
Onion	178	72	9,357,400	178	54	356	126	57.1
Cabbage	0	0	.	0	.	0	-	0.0
Tomatoes	0	0	.	0	.	0	-	0.0
Spinach	178	6	1,782,362	0	.	178	-	0.0
Carrot	0	0	.	0	.	0	-	0.0
Chillies	0	0	.	0	.	0	-	0.0
Amaranths	0	0	.	0	.	0	-	0.0
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	0	0	.	0	.	0	-	0.0
FRUITS & VEGETABLES		78	11,139,762		54	535	132	59.0
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS	0	0	.	0	.	0	-	0.0
Malay	0	0	.	0	.	0	-	0.0
Total	2,317	1,230	25,510,056	49,461	25,546	51,778	26,776	4.6

5.129 :Planted Area & Number of Crop Growing Households by Insecticide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Ngorongoro

Crop	Herbicide use							% of Planted area using Insecticide
	Number of Households using Herbicide	Planted Area Applied with Herbicide	Cost of Herbicide	Number of Households NOT using Herbicide	Planted Area Without Herbicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	0	0	.	10,089	9,049	10,089	9,049	0.0
Paddy	0	0	.	0	.	0	-	0.0
Sorghum	0	0	.	1,492	994	1,492	994	0.0
Finger Millet	0	0	.	0	.	0	-	0.0
Wheat	0	0	.	0	.	0	-	0.0
Barley	0	0	.	0	.	0	-	0.0
CEREALS	0	0	.	10,043	10,043	11,581	10,043	0.0
Cassava	0	0	.	0	.	0	-	0.0
Sweet Potato	0	0	.	71	14	71	14	0.0
Irish potatoes	0	0	.	142	20	142	20	0.0
ROOTS & TUBERS	0	0	.	35	35	213	35	0.0
Mung Bean	0	0	.	0	.	0	-	0.0
Beans	0	0	.	6,537	4,258	6,537	4,258	0.0
Cowpeas	0	0	.	71	29	71	29	0.0
Green gram	0	0	.	0	.	0	-	0.0
Chick peas	0	0	.	0	.	0	-	0.0
Field Peas	0	0	.	0	.	0	-	0.0
PULSES	0	0	.	6,608	4,287	6,608	4,287	0.0
Sunflower	0	0	.	71	29	71	29	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	0	0	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS	0	0	.	29	29	71	29	0.0
Okra	0	0	.	0	.	0	-	0.0
Radish	0	0	.	0	.	0	-	0.0
Turmeric	0	0	.	0	.	0	-	0.0
Bitteer	0	0	.	0	.	0	-	0.0
Aubergine	0	0	.	0	.	0	-	0.0
Onion	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
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	0	0	.	0	.	0	-	0.0
FRUITS & VEGETABLES	0	0	.	0	0	0	-	0.0
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS	0	0	.	0	0	0	-	0.0
Malay	0	0	.	0	.	0	-	0.0
Total	0	0	.	0	14,393	18,473	-	0.0

5.130 : Planted Area & Number of Crop Growing Households by Insecticide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Longido

Crop	Herbicide use							% of Planted area using Insecticide
	Number of Households using Herbicide	Planted Area Applied with Herbicide	Cost of Herbicide	Number of Households NOT using Herbicide	Planted Area Without Herbicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	896	678	17,694,710	4,045	3,141	4,912	3,819	17.8
Paddy	0	0	.	29	12	29	12	0.0
Sorghum	0	0	.	0	.	0	-	0.0
Finger Millet	0	0	.	144	94	144	94	0.0
Wheat	202	222	3,322,597	202	374	404	597	37.3
Barley	0	0	.	0	.	0	-	0.0
CEREALS		901	21,017,307		3,620	5,490	4,521	19.9
Cassava	0	0	.	0	.	0	-	0.0
Sweet Potato	0	0	.	0	.	0	-	0.0
Irish potatoes	173	91	1,834,652	202	126	376	216	41.9
ROOTS & TUBERS		91	1,834,652		126	376	216	41.9
Mung Bean	0	0	.	0	.	0	-	0.0
Beans	722	889	18,418,747	2,600	1,392	3,294	2,281	39.0
Cowpeas	0	0	.	0	.	0	-	0.0
Green gram	0	0	.	0	.	0	-	0.0
Chick peas	0	0	.	0	.	0	-	0.0
Field Peas	0	0	.	0	.	0	-	0.0
PULSES	722	889	18,418,747	2,600	1,392	3,294	2,281	39.0
Sunflower	0	0	.	116	76	116	76	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	0	0	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	.		76	116	76	0.0
Okra	0	0	.	0	.	0	-	0.0
Radish	0	0	.	0	.	0	-	0.0
Turmeric	0	0	.	0	.	0	-	0.0
Bitter Aubergine	0	0	.	0	.	0	-	0.0
Onion	0	0	.	0	.	0	-	0.0
Cabbage	0	0	.	0	.	0	-	0.0
Tomatoes	58	44	187,799	29	6	87	50	88.2
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
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	0	0	.	0	.	0	-	0.0
FRUITS & VEGETABLES		44	187,799		6	87	50	88.2
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS	0	0	.	0	.	0	-	0.0
Malay	0	0	.	0	.	0	-	0.0
Total	2,051	1,924	41,458,505	7,367	5,220	9,361	7,144	26.9

5.131 : Planted Area & Number of Crop Growing Households by Insecticide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Arusha Rural

Crop	Herbicide use							% of Planted area using Insecticide
	Number of Households using Herbicide	Planted Area Applied with Herbicide	Cost of Herbicide	Number of Households NOT using Herbicide	Planted Area Without Herbicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	119	34	477,755	35,473	16,512	35,593	16,545	0.2
Paddy	0	0	.	0	.	0	-	0.0
Sorghum	0	0	.	0	.	0	-	0.0
Finger Millet	0	0	.	0	.	0	-	0.0
Wheat	1,194	919	20,543,471	119	99	1,314	1,018	90.3
Barley	0	0	.	0	.	0	-	0.0
CEREALS		953	21,021,226		16,611	36,907	17,563	5.4
Cassava	0	.	.	0	.	0	-	0.0
Sweet Potato	0	.	.	358	94	358	-	0.0
Irish potatoes	119	12	1,911,021	836	273	956	285	4.2
ROOTS & TUBERS		12	1,911,021		367	1,314	379	3.2
Mung Bean	0	0	.	0	.	0	-	0.0
Beans	119	15	477,755	31,890	10,543	32,010	10,558	0.1
Cowpeas	0	0	.	1,433	515	1,433	515	0.0
Green gram	0	0	.	3,344	1,179	3,344	1,179	0.0
Chick peas	0	0	.	1,314	551	1,314	551	0.0
Field Peas	0	0	.	119	48	119	48	0.0
PULSESES	119	15	477,755	38,101	12,837	38,220	12,851	0.1
Sunflower	0	0	.	0	.	0	-	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	119	12	1,194,388	478	97	597	109	11.1
OIL SEEDS & OIL NUTS		12	1,194,388		97	597	109	11.1
Okra	0	0	.	239	68	239	68	0.0
Radish	0	0	.	119	12	119	12	0.0
Turmeric	0	0	.	0	.	0	-	0.0
Bitteer Aubergine	0	0	.	239	73	239	73	0.0
Onion	0	0	.	119	48	119	48	0.0
Cabbage	0	0	.	358	109	358	109	0.0
Tomatoes	119	12	1,194,388	239	75	358	87	13.9
Spinach	0	0	.	119	24	119	24	0.0
Carrot	0	0	.	0	.	0	-	0.0
Chillies	0	0	.	0	.	0	-	0.0
Amaranths	0	0	.	597	16	597	16	0.0
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	0	0	.	0	.	0	-	0.0
FRUITS & VEGETABLES		12	1,194,388		425	2,150	437	2.8
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS	0	0	.	0	.	0	-	0.0
Malay	0	0	.	0	.	0	-	0.0
Total	1,792	1,003	25,798,777	77,396	30,336	79,188	31,339	3.2

5.132 : Planted Area & Number of Crop Growing Households by Insecticide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Meru

Crop	Herbicide use							% of Planted area using Insecticide
	Number of Households using Herbicide	Planted Area Applied with Herbicide	Cost of Herbicide	Number of Households NOT using Herbicide	Planted Area Without Herbicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	2,318	2,594	66,312,094	36,237	25,529	38,555	28,123	9.2
Paddy	244	37	976,075	488	173	732	210	17.6
Sorghum	0	0	.	366	114	366	114	0.0
Finger Millet	0	0	.	610	321	610	321	0.0
Wheat	0	0	.	0	.	0	-	0.0
Barley	0	0	.	0	.	0	-	0.0
CEREALS		2,631	67,288,169		26,136	40,263	28,768	9.1
Cassava	0	0	.	122	20	122	20	0.0
Sweet Potato	0	0	.	366	10	366	10	0.0
Irish potatoes	0	0	.	122	25	122	25	0.0
ROOTS & TUBERS		0	.		54	610	54	0.0
Mung Bean	0	0	.	122	49	122	49	0.0
Beans	488	240	3,721,286	22,328	7,334	22,816	7,573	3.2
Cowpeas	0	0	.	610	67	610	67	0.0
Green gram	0	0	.	488	222	488	222	0.0
Chick peas	0	0	.	122	12	122	12	0.0
Field Peas	0	0	.	0	.	0	-	0.0
PULSESES	488	240	3,721,286	23,670	7,685	24,158	7,924	3.0
Sunflower	0	0	.	4,148	1,648	4,148	1,648	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	122	12	122	12	0.0
Soya Beans	0	0	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	.		1,661	4,270	1,661	0.0
Okra	0	0	.	122	12	122	12	0.0
Radish	0	0	.	0	.	0	-	0.0
Turmeric	0	0	.	122	49	122	49	0.0
Bitteer Aubergine	0	0	.	244	35	244	35	0.0
Onion	0	0	.	0	.	0	-	0.0
Cabbage	0	0	.	122	25	122	25	0.0
Tomatoes	122	25	976,075	732	252	854	277	8.9
Spinach	0	0	.	0	.	0	-	0.0
Carrot	122	49	3,660,281	0	.	122	-	0.0
Chillies	0	0	.	0	.	0	-	0.0
Amaranths	122	49	1,952,150	0	.	122	-	0.0
Cucumber	244	198	5,734,441	0	.	244	-	0.0
Egg Plant	0	0	.	0	.	0	-	0.0
FRUITS & VEGETABLES		321	12,322,947		373	1,952	694	46.3
Cotton	0	.	.	0	.	0	-	0.0
Tobacco	0	.	.	0	.	0	-	0.0
CASH CROPS	0	.	.	0	.	0	-	0.0
Malay	0	.	.	0	.	0	-	0.0
Total	3,660	3,192	83,332,402	67,593	35,909	71,253	39,101	8.2

5.133 :Planted Area & Number of Crop Growing Households by use of Irrigation and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Monduli

Crop	Irrigation use						% of Planted area using Irrigation
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	1,143	900	20,361	25,579	21,504	26,479	3.4
Paddy	429	159	0	0	429	159	100.0
Sorghum	0	0	71	43	71	43	0.0
Finger Millet	0	0	0	0	0	-	0.0
Wheat	0	0	929	1,330	929	1,330	0.0
Barley	0	0	0	0	0	-	0.0
CEREALS		1,059		26,953		28,012	3.8
Cassava	0	0	0	0	0	-	0.0
Sweet Potato	0	0	0	0	0	-	0.0
Irish potatoes	0	0	0	0	0	-	0.0
ROOTS & TUBERS		0		.		-	0.0
Mung Bean	0	0	0	0	0	-	0.0
Beans	500	276	14,931	10,419	15,431	10,695	2.6
Cowpeas	0	0	2,715	1,342	2,715	1,342	0.0
Green gram	0	0	4,001	2,461	4,001	2,461	0.0
Chick peas	0	0	2,143	1,162	2,143	1,162	0.0
Field Peas	0	0	0	0	0	-	0.0
PULSES		276		15,385		15,661	1.8
Sunflower	0	0	0	0	0	-	0.0
Simsim	0	0	143	376	143	376	0.0
Groundnut	0	0	0	0	0	-	0.0
Soya Beans	0	0	0	0	0	-	0.0
OIL SEEDS & OIL NUTS		0		376		376	0.0
Okra	0	0	0	0	0	-	0.0
Radish	0	0	71	7	71	7	0.0
Turmeric	0	0	0	0	0	-	0.0
Bitteer Aubergine	0	0	0	0	0	-	0.0
Onion	71	14	0	0	71	14	100.0
Cabbage	0	0	71	14	71	14	0.0
Tomatoes	0	0	0	0	0	-	0.0
Spinach	0	0	143	10	143	10	0.0
Carrot	0	0	71	5	71	5	0.0
Chillies	0	0	0	0	0	-	0.0
Amaranths	0	0	0	0	0	-	0.0
Cucumber	0	0	0	0	0	-	0.0
Egg Plant	0	0	0	0	0	-	0.0
FRUITS & VEGETABLES		14		36		51	28.6
Cotton	0	0	0	0	0	-	0.0
Tobacco	0	0	0	0	0	-	0.0
CASH CROPS		0		.		-	0.0
Malay	0	0	71	29	71	29	0.0
Total	2,143	1,350	45,722	42,778	47,865	44,128	3.1

5.134 :Planted Area & Number of Crop Growing Households by use of Irrigation and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Arusha

Crop	Irrigation use						% of Planted area using Irrigation
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	256	55	2,216	1,924	2,472	1,979	2.8
Paddy	0	0	0	0	0	-	0.0
Sorghum	0	0	0	0	0	-	0.0
Finger Millet	0	0	0	0	0	-	0.0
Wheat	0	0	0	0	0	-	0.0
Barley	0	0	0	0	0	-	0.0
CEREALS		55		1,924		1,979	2.8
Cassava	0	0	0	0	0	-	0.0
Sweet Potato	43	4	0	0	43	4	100.0
Irish potatoes	0	0	0	0	0	-	0.0
ROOTS & TUBERS		4		0		4	100.0
Mung Bean	0	0	0	0	0	-	0.0
Beans	256	35	1,918	1,351	2,174	1,386	2.5
Cowpeas	43	9	170	96	213	104	8.3
Green gram	0	0	128	22	128	22	0.0
Chick peas	0	0	426	485	426	485	0.0
Field Peas	0	0	0	0	0	-	0.0
PULSES	298	44	2,642	1,952	2,941	1,996	2.2
Sunflower	43	9	0	0	43	9	100.0
Simsim	0	0	0	0	0	-	0.0
Groundnut	0	0	0	0	0	-	0.0
Soya Beans	0	0	0	0	0	-	0.0
OIL SEEDS & OIL NUTS		9		0		9	100.0
Okra	0	0	0	0	0	-	0.0
Radish	43	1	0	8	43	9	12.5
Turmeric	0	0	0	0	0	-	0.0
Bitteer	0	0	0	0	0	-	0.0
Aubergine							0.0
Onion	43	4	85	24	128	28	15.2
Cabbage	0	0	0	0	0	-	0.0
Tomatoes	0	0	0	0	0	-	0.0
Spinach	43	4	128	16	170	21	20.8
Carrot	0	0	0	0	0	-	0.0
Chillies	43	2	43	9	85	11	20.6
Amaranths	43	2	43	4	85	6	32.4
Cucumber	0	0	0	0	0	-	0.0
Egg Plant	0	0	43	17	43	17	0.0
FRUITS & VEGETABLES		14		78		92	15.2
Cotton	0	0	0	0	0	-	0.0
Tobacco	0	0	0	0	0	-	0.0
CASH CROPS		0		0		-	0.0
Malay	0	0	0	0	0	-	0.0
Total	852	126	5,200	3,955	6,052	4,080	3.1

5.135 : Planted Area & Number of Crop Growing Households by use of Irrigation and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Karatu

Crop	Irrigation use						% of Planted area using Irrigation
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	2,139	976	28,785	19,241	30,924	20,218	4.8
Paddy	178	72	267	126	446	198	36.4
Sorghum	0	0	2,228	507	2,228	507	0.0
Finger Millet	0	0	624	135	624	135	0.0
Wheat	0	0	1,515	1,057	1,515	1,057	0.0
Barley	0	0	356	180	356	180	0.0
CEREALS		1,049		0		1,049	100.0
Cassava	0	0	0	0	0	-	0.0
Sweet Potato	0	0	0	0	0	-	0.0
Irish potatoes	0	0	0	0	0	-	0.0
ROOTS & TUBERS		0		0		-	0.0
Mung Bean	0	0	0	0	0	-	0.0
Beans	446	144	9,625	3,187	10,070	3,331	4.3
Cowpeas	89	3	1,426	548	1,515	551	0.5
Green gram	0	0	0	0	0	-	0.0
Chick peas	0	0	89	36	89	36	0.0
Field Peas	0	0	0	0	0	-	0.0
PULSES	535	147	11,140	3,771	11,674	3,918	3.8
Sunflower	0	0	3,476	429	3,476	429	0.0
Simsim	0	0	0	0	0	-	0.0
Groundnut	0	0	0	0	0	-	0.0
Soya Beans	0	0	0	0	0	-	0.0
OIL SEEDS & OIL NUTS		0		429		429	0.0
Okra	0	0	0	0	0	-	0.0
Radish	0	0	0	0	0	-	0.0
Turmeric	0	0	0	0	0	-	0.0
Bitter Aubergine	0	0	0	0	0	-	0.0
Onion	356	110	0	16	356	126	87.5
Cabbage	0	0	0	0	0	-	0.0
Tomatoes	0	0	0	0	0	-	0.0
Spinach	178	6	0	0	178	6	100.0
Carrot	0	0	0	0	0	-	0.0
Chillies	0	0	0	0	0	-	0.0
Amaranths	0	0	0	0	0	-	0.0
Cucumber	0	0	0	0	0	-	0.0
Egg Plant	0	0	0	0	0	-	0.0
FRUITS & VEGETABLES		116		16		132	88.0
Cotton	0	0	0	0	0	-	0.0
Tobacco	0	0	0	0	0	-	0.0
CASH CROPS	0	0	0	0	0	-	0.0
Malay	0	0	0	0	0	-	0.0
Total	3,386	1,312	48,391	25,464	51,778	26,776	4.9

5.136 : Planted Area & Number of Crop Growing Households by use of Irrigation and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Ngorongoro

Crop	Irrigation use						% of Planted area using Irrigation
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	355	236	9,734	8,814	10,089	9,049	2.6
Paddy	0	0	0	0	0	-	0.0
Sorghum	142	93	1,350	900	1,492	994	9.4
Finger Millet	0	0	0	0	0	-	0.0
Wheat	0	0	0	0	0	-	0.0
Barley	0	0	0	0	0	-	0.0
CEREALS		329		9,714		10,043	3.3
Cassava	0	0	0	0	0	-	0.0
Sweet Potato	71	14	0	0	71	14	100.0
Irish potatoes	0	0	142	20	142	20	0.0
ROOTS & TUBERS		14		20		35	41.7
Mung Bean	0	0	0	0	0	-	0.0
Beans	71	22	6,466	4,236	6,537	4,258	0.5
Cowpeas	0	0	71	29	71	29	0.0
Green gram	0	0	0	0	0	-	0.0
Chick peas	0	0	0	0	0	-	0.0
Field Peas	0	0	0	0	0	-	0.0
PULSES	71	22	6,537	4,265	6,608	4,287	0.5
Sunflower	0	0	71	29	71	29	0.0
Simsim	0	0	0	0	0	-	0.0
Groundnut	0	0	0	0	0	-	0.0
Soya Beans	0	0	0	0	0	-	0.0
OIL SEEDS & OIL NUTS		0		29		29	0.0
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	0	0	0	0	0	-	0.0
Onion	0	0	0	0	0	-	0.0
Cabbage	0	0	0	0	0	-	0.0
Tomatoes	0	0	0	0	0	-	0.0
Spinach	0	0	0	0	0	-	0.0
Carrot	0	0	0	0	0	-	0.0
Chillies	0	0	0	0	0	-	0.0
Amaranths	0	0	0	0	0	-	0.0
Cucumber	0	0	0	0	0	-	0.0
Egg Plant	0	0	0	0	0	-	0.0
FRUITS & VEGETABLES		0		0		-	0.0
Cotton	0	0	0	0	0	-	0.0
Tobacco	0	0	0	0	0	-	0.0
CASH CROPS	0	0	0	0	0	-	0.0
Malay	0	0	0	0	0	-	0.0
Total	639	365	17,834	14,028	18,473	14,393	2.5

5.137 :Planted Area & Number of Crop Growing Households by use of Irrigation and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Longido

Crop	Irrigation use						% of Planted area using Irrigation
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	693	456	4,218	3,363	4,912	3,819	11.9
Paddy	0	0	29	12	29	12	0.0
Sorghum	0	0	0	0	0	-	0.0
Finger Millet	29	23	116	70	144	94	25.0
Wheat	58	298	347	298	404	597	50.0
Barley	0	0	0	0	0	-	0.0
CEREALS		778	4,709	3,743	5,490	4,521	17.2
Cassava	0	0	0	0	0	-	0.0
Sweet Potato	0	0	0	0	0	-	0.0
Irish potatoes	58	41	318	175	376	216	18.9
ROOTS & TUBERS		41	318	175	376	216	18.9
Mung Bean	0	0	0	0	0	-	0.0
Beans	665	629	2,629	1,652	3,294	2,281	27.6
Cowpeas	0	0	0	0	0	-	0.0
Green gram	0	0	0	0	0	-	0.0
Chick peas	0	0	0	0	0	-	0.0
Field Peas	0	0	0	0	0	-	0.0
PULSES	665	629	2,629	1,652	3,294	2,281	27.6
Sunflower	87	58	29	18	116	76	76.9
Simsim	0	0	0	0	0	-	0.0
Groundnut	0	0	0	0	0	-	0.0
Soya Beans	0	0	0	0	0	-	0.0
OIL SEEDS & OIL NUTS		58	29	18	116	76	76.9
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	0	0	0	0	0	-	0.0
Onion	0	0	0	0	0	-	0.0
Cabbage	0	0	0	0	0	-	0.0
Tomatoes	29	6	58	44	87	50	11.8
Spinach	0	0	0	0	0	-	0.0
Carrot	0	0	0	0	0	-	0.0
Chillies	0	0	0	0	0	-	0.0
Amaranths	0	0	0	0	0	-	0.0
Cucumber	0	0	0	0	0	-	0.0
Egg Plant	0	0	0	0	0	-	0.0
FRUITS & VEGETABLES		6	58	44	87		0.0
Cotton	0	0	0	0	0		0.0
Tobacco	0	0	0	0	0		0.0
CASH CROPS	0	0	0	0	0		0.0
Malay	0	0	0	0	0		0.0
Total	1,618	1,512	7,743	5,632	9,361		0.0

5.138 : Planted Area & Number of Crop Growing Households by use of Irrigation and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Arusha Rural

Crop	Irrigation use						% of Planted area using Irrigation
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	2,867	1,545	32,726	15,000	35,593	16,545	9.3
Paddy	0	0	0	0	0	-	0.0
Sorghum	0	0	0	0	0	-	0.0
Finger Millet	0	0	0	0	0	-	0.0
Wheat	0	0	1,314	1,018	1,314	1,018	0.0
Barley	0	0	0	.	0	-	0.0
CEREALS		1,545		16,018		17,563	8.8
Cassava	0	0	0	0	0	-	0.0
Sweet Potato	0	0	358	94	358	94	0.0
Irish potatoes	239	79	717	206	956	285	27.6
ROOTS & TUBERS		79		301		379	20.7
Mung Bean	0	0	0	0	0	-	0.0
Beans	2,628	711	29,382	9,847	32,010	10,558	6.7
Cowpeas	0	0	1,433	515	1,433	515	0.0
Green gram	0	0	3,344	1,179	3,344	1,179	0.0
Chick peas	0	0	1,314	551	1,314	551	0.0
Field Peas	0	0	119	48	119	48	0.0
PULSES	2,628	711	35,593	12,140	38,220	12,851	5.5
Sunflower	0	0	0	0	0	-	0.0
Simsim	0	0	0	0	0	-	0.0
Groundnut	0	0	0	0	0	-	0.0
Soya Beans	119	12	478	97	597	109	11.1
OIL SEEDS & OIL NUTS		12		97		109	11.1
Okra	119	29	119	39	239	68	42.9
Radish	0	0	119	12	119	12	0.0
Turmeric	0	0	0	0	0	-	0.0
Bitter Aubergine	239	73	0	0	239	73	100.0
Onion	0	0	119	48	119	48	0.0
Cabbage	119	48	239	60	358	109	44.4
Tomatoes	358	87	0	0	358	87	100.0
Spinach	0	0	119	24	119	24	0.0
Carrot	0	0	0	0	0	-	0.0
Chillies	0	0	0	0	0	-	0.0
Amaranths	119	2	478	14	597	16	14.7
Cucumber	0	0	0	0	0	-	0.0
Egg Plant	0	0	0	0	0	-	0.0
FRUITS & VEGETABLES		239		198		437	54.8
Cotton	0	0	0	0	0	-	0.0
Tobacco	0	0	0	0	0	-	0.0
CASH CROPS	0	0	0	0	0	-	0.0
Malay	0	0	0	0	0	-	0.0
Total	6,808	2,586	72,380	28,753	79,188	31,339	8.3

5.139 :Planted Area & Number of Crop Growing Households by use of Irrigation and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Meru

Crop	Irrigation use						% of Planted area using Irrigation
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	6,711	4,140	31,844	23,983	38,555	28,123	14.7
Paddy	610	161	122	49	732	210	76.5
Sorghum	0	0	366	114	366	114	0.0
Finger Millet	244	37	366	284	610	321	11.5
Wheat	0	0	0	0	0	-	0.0
Barley	0	0	0	0	0	-	0.0
CEREALS		4,337		24,430		28,768	15.1
Cassava	0	0	122	20	122	20	0.0
Sweet Potato	0	0	366	10	366	10	0.0
Irish potatoes	0	0	122	25	122	25	0.0
ROOTS & TUBERS		0		54		54	0.0
Mung Bean	122	49	0	0	122	49	100.0
Beans	3,172	1,071	19,644	6,502	22,816	7,573	14.1
Cowpeas	0	0	610	67	610	67	0.0
Green gram	0	0	488	222	488	222	0.0
Chick peas	0	0	122	12	122	12	0.0
Field Peas	0	0	0	0	0	-	0.0
PULSES	3,294	1,121	20,864	6,804	24,158	7,924	14.1
Sunflower	610	46	3,538	1,602	4,148	1,648	2.8
Simsim	0	0	0	0	0	-	0.0
Groundnut	0	0	122	12	122	12	0.0
Soya Beans	0	0	0	0	0	-	0.0
OIL SEEDS & OIL NUTS		46		1,614		1,661	2.8
Okra	0	0	122	12	122	12	0.0
Radish	0	0	0	0	0	-	0.0
Turmeric	0	0	122	49	122	49	0.0
Bitteer Aubergine	122	12	122	22	244	35	35.7
Onion	0	0	0	0	0	-	0.0
Cabbage	0	0	122	25	122	25	0.0
Tomatoes	732	252	122	25	854	277	91.1
Spinach	0	0	0	0	0	-	0.0
Carrot	0	0	122	49	122	49	0.0
Chillies	0	0	0	0	0	-	0.0
Amaranths	122	49	0	0	122	49	100.0
Cucumber	244	198	0	0	244	198	100.0
Egg Plant	0	0	0	0	0	-	0.0
FRUITS & VEGETABLES		511		183		694	73.7
Cotton	0	0	0	0	0	-	0.0
Tobacco	0	0	0	0	0	-	0.0
CASH CROPS	0	0	0	0	0	-	0.0
Malay	0	0	0	0	0	-	0.0
Total	12,689	6,015	58,564	33,086	71,253	39,101	15.4

5.140 Planted Area & Number of Crop Growing Households by Improved Seeds use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Monduli

Crop	Improved Seeds use							% of Planted area using Insecticide
	Number of Households using Improved seeds	Planted Area Applied with Improved Seeds	Cost of Improved Seeds	Number of Households NOT using Improved seeds	Planted Area Without Improved seeds	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	5,072	5,217	267,848,099	120,734	21,262	21,504	26,479	19.7
Paddy	0	0	0	.	159	429	159	0.0
Sorghum	0	0	0	.	43	71	43	0.0
Finger Millet	0	0	0	.	.	0	-	0.0
Wheat	143	434	48,579,504	40,007	897	929	1,330	32.6
Barley	0	0	0	.	.	0	-	0.0
CEREALS		5,651	316,427,603		22,361	22,932	28,012	20.2
Cassava	0	0	0	.	.	0	-	0.0
Sweet Potato	0	0	0	.	.	0	-	0.0
Irish potatoes	0	0	0	.	.	0	-	0.0
ROOTS & TUBERS		0	0		.	0	-	0.0
Mung Bean	0	0	0	.	.	0	-	0.0
Beans	857	457	2,629,008	2,286	10,238	15,431	10,695	4.3
Cowpeas	0	0	0	.	1,342	2,715	1,342	0.0
Green gram	0	0	0	.	2,461	4,001	2,461	0.0
Chick peas	0	0	0	.	1,162	2,143	1,162	0.0
Field Peas	0	0	0	.	.	0	-	0.0
PULSES		457	2,629,008		15,204	24,290	15,661	2.9
Sunflower	0	0	0	.	.	0	-	0.0
Simsim	0	0	0	.	376	143	376	0.0
Groundnut	0	0	0	.	.	0	-	0.0
Soya Beans	0	0	0	.	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	0		376	143	376	0.0
Okra	0	0	0	.	.	0	-	0.0
Radish	0	0	0	.	7	71	7	0.0
Turmeric	0	0	0	.	.	0	-	0.0
Bitteer	0	0	0	.	.	0	-	0.0
Aubergine	0	0	0	.	.	0	-	0.0
Onion	71	14	2,857,618	572	.	71	-	0.0
Cabbage	0	0	0	.	14	71	14	0.0
Tomatoes	0	0	0	.	.	0	-	0.0
Spinach	143	10	242,898	14,288	.	143	-	0.0
Carrot	71	4	121,449	7,144	1	71	5	75.0
Chillies	0	0	0	.	.	0	-	0.0
Amaranths	0	0	0	.	.	0	-	0.0
Cucumber	0	0	0	.	.	0	-	0.0
Egg Plant	0	0	0	.	.	0	-	0.0
FRUITS & VEGETABLES		28	3,221,964		23	429	51	54.7
Cotton	0	0	0	.	.	0	-	0.0
Tobacco	0	0	0	.	.	0	-	0.0
CASH CROPS		0	0		.	0	-	0.0
Malay	0	0	0	.	29	71	29	0.0
Total	6,358	6,136	322,278,576	185,031	37,992	47,865	44,128	13.9

5.141 :Planted Area & Number of Crop Growing Households by Improved Seeds use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Arusha

Crop	Improved Seeds use							% of Planted area using Insecticide
	Number of Households using Improved seeds	Planted Area Applied with Improved Seeds	Cost of Improved Seeds	Number of Households NOT using Improved seeds	Planted Area Without Improved seeds	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	1,151	815	60,421,557	29,280	1,164	2,472	1,979	41.2
Paddy	0	0	0	.	.	0	-	0.0
Sorghum	0	0	0	.	.	0	-	0.0
Finger Millet	0	0	0	.	.	0	-	0.0
Wheat	0	0	0	.	.	0	-	0.0
Barley	0	0	0	.	.	0	-	0.0
CEREALS		815	60,421,557		1,164	2,472	1,979	41.2
Cassava	0	0	0	.	.	0	-	0.0
Sweet Potato	0	0	0	.	4	43	4	0.0
Irish potatoes	0	0	0	.	.	0	-	0.0
ROOTS & TUBERS		0	0		4	43	4	0.0
Mung Bean	0	0	0	.	.	0	-	0.0
Beans	85	107	13,552,977	9,376	1,279	2,174	1,386	7.7
Cowpeas	43	1	106,549	43	104	213	104	0.8
Green gram	0	0	0	.	22	128	22	0.0
Chick peas	0	0	0	.	485	426	485	0.0
Field Peas	0	0	0	.	.	0	-	0.0
PULSES	128	108	13,659,525	9,419	1,888	2,941	1,996	5.4
Sunflower	0	0	0	.	9	43	9	0.0
Simsim	0	0	0	.	.	0	-	0.0
Groundnut	0	0	0	.	.	0	-	0.0
Soya Beans	0	0	0	.	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	0		9	43	9	0.0
Okra	0	0	0	.	.	0	-	0.0
Radish	43	9	127,858	4,262	.	43	-	0.0
Turmeric	0	0	0	.	.	0	-	0.0
Bitteer	0	0	0	.	.	.	-	0.0
Aubergine						0	-	0.0
Onion	128	28	809,769	25,572	.	128	-	0.0
Cabbage	0	0	0	.	.	0	-	0.0
Tomatoes	0	0	0	.	.	0	-	0.0
Spinach	170	21	660,601	25,742	.	170	-	0.0
Carrot	0	0	0	.	.	0	-	0.0
Chillies	85	11	1,385,131	8,524	.	85	-	0.0
Amaranths	0	0	0	.	6	85	6	0.0
Cucumber	0	0	0	.	.	0	-	0.0
Egg Plant	43	17	119,334	4,262	.	43	-	0.0
FRUITS & VEGETABLES		86	3,102,694		6	554	92	93.1
Cotton	0	0	0	.	.	0	-	0.0
Tobacco	0	0	0	.	.	0	-	0.0
CASH CROPS	0	0	0			0	-	0.0
Malay	0	0	0	.	.	0	-	0.0
Total	1,747	1,009	3,072	107,060	3,072	6,052	4,080	24.7

5.142 : Planted Area & Number of Crop Growing Households by Improved Seeds use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Karatu

Crop	Improved Seeds use							% of Planted area using Insecticide
	Number of Households using Improved seeds	Planted Area Applied with Improved Seeds	Cost of Improved Seeds	Number of Households NOT using Improved seeds	Planted Area Without Improved seeds	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	11,496	7,181	458,316,377	13,037	13,037	30,924	20,218	35.5
Paddy	178	72	846,622	126	126	446	198	36.4
Sorghum	0	0	0	507	507	2,228	507	0.0
Finger Millet	0	0	0	135	135	624	135	0.0
Wheat	178	63	5,614,440	994	994	1,515	1,057	6.0
Barley	178	108	9,268,282	72	72	356	180	60.0
CEREALS		7,425	474,045,721		14,871	36,093	22,296	33.3
Cassava	0	0	0	.	.	0	-	0.0
Sweet Potato	0	0	0	.	.	0	-	0.0
Irish potatoes	0	0	0	.	.	0	-	0.0
ROOTS & TUBERS		0	0		.	0	-	0.0
Mung Bean	0	0	0	.	.	0	-	0.0
Beans	1,426	413	21,049,695	2,918	2,918	10,070	3,331	12.4
Cowpeas	89	36	534,709	515	515	1,515	551	6.5
Green gram	0	0	0	.	.	0	-	0.0
Chick peas	0	0	0	36	36	89	36	0.0
Field Peas	0	0	0	.	.	0	-	0.0
PULSES	1,515	449	21,584,403	3,469	3,469	11,674	3,918	11.5
Sunflower	0	0	0	429	429	3,476	429	0.0
Simsim	0	0	0	.	.	0	-	0.0
Groundnut	0	0	0	.	.	0	-	0.0
Soya Beans	0	0	0	.	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	0		429	3,476	429	0.0
Okra	0	0	0	.	.	0	-	0.0
Radish	0	0	0	.	.	0	-	0.0
Turmeric	0	0	0	.	.	0	-	0.0
Bitteer	0	0	0	.	.	0	-	0.0
Aubergine	0	0	0	.	.	0	-	0.0
Onion	0	0	0	126	126	356	126	0.0
Cabbage	0	0	0	.	.	0	-	0.0
Tomatoes	0	0	0	.	.	0	-	0.0
Spinach	0	0	0	6	6	178	6	0.0
Carrot	0	0	0	.	.	0	-	0.0
Chillies	0	0	0	.	.	0	-	0.0
Amaranths	0	0	0	.	.	0	-	0.0
Cucumber	0	0	0	.	.	0	-	0.0
Egg Plant	0	0	0	.	.	0	-	0.0
FRUITS & VEGETABLES		0	0		132	535	132	0.0
Cotton	0	0	0	.	.	0	-	0.0
Tobacco	0	0	0	.	.	0	-	0.0
CASH CROPS	0	0	0	.	.	0	-	0.0
Malay	0	0	0	.	.	0	-	0.0
Total	13,546	7,874	495,630,124	18,902	18,902	51,778	26,776	29.4

5.143 :Planted Area & Number of Crop Growing Households by Improved Seeds use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Ngorongoro

Crop	Improved Seeds use							% of Planted area using Insecticide
	Number of Households using Improved seeds	Planted Area Applied with Improved Seeds	Cost of Improved Seeds	Number of Households NOT using Improved seeds	Planted Area Without Improved seeds	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	4,121	3,683	164,260,254	1,217,169	5,366	10,089	9,049	40.7
Paddy	0	0	0	.	0	0	-	0.0
Sorghum	0	0	0	.	994	1,492	994	0.0
Finger Millet	0	0	0	.	0	0	-	0.0
Wheat	0	0	0	.	0	0	-	0.0
Barley	0	0	0	.	0	0	-	0.0
CEREALS		3,683	164,260,254		6,360	11,581	10,043	36.7
Cassava	0	0	0	.	0	0	-	0.0
Sweet Potato	0	0	0	.	14	71	14	0.0
Irish potatoes	0	0	0	.	20	142	20	0.0
ROOTS & TUBERS		0	0		35	213	35	0.0
Mung Bean	0	0	0	.	0	0	-	0.0
Beans	213	129	4,227,515	4,476	4,128	6,537	4,258	3.0
Cowpeas	0	0	0	.	29	71	29	0.0
Green gram	0	0	0	.	0	0	-	0.0
Chick peas	0	0	0	.	0	0	-	0.0
Field Peas	0	0	0	.	0	0	-	0.0
PULSES	213	129	4,227,515	4,476	4,157	6,608	4,287	3.0
Sunflower	71	29	1,065,760	142	0	71	29	100.0
Simsim	0	0	0	.	0	0	-	0.0
Groundnut	0	0	0	.	0	0	-	0.0
Soya Beans	0	0	0	.	0	0	-	0.0
OIL SEEDS & OIL NUTS		29	1,065,760		0	71	29	100.0
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	0	0	0	.	0	0	-	0.0
Onion	0	0	0	.	0	0	-	0.0
Cabbage	0	0	0	.	0	0	-	0.0
Tomatoes	0	0	0	.	0	0	-	0.0
Spinach	0	0	0	.	0	0	-	0.0
Carrot	0	0	0	.	0	0	-	0.0
Chillies	0	0	0	.	0	0	-	0.0
Amaranths	0	0	0	.	0	0	-	0.0
Cucumber	0	0	0	.	0	0	-	0.0
Egg Plant	0	0	0	.	0	0	-	0.0
FRUITS & VEGETABLES		0	0		0	0	-	0.0
Cotton	0	0	0	.	0	0	-	0.0
Tobacco	0	0	0	.	0	0	-	0.0
CASH CROPS	0	0	0	.	0	0	-	0.0
Malay	0	0	0	.	0	0	-	0.0
Total	4,405	3,841	169,553,528	1,221,787	10,551	18,473	14,393	26.7

5.144 :Planted Area & Number of Crop Growing Households by Improved Seeds and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Longido

Crop	Improved Seeds use							% of Planted area using Insecticide
	Number of Households using Improved seeds	Planted Area Applied with Improved Seeds	Cost of Improved Seeds	Number of Households NOT using Improved seeds	Planted Area Without Improved seeds	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	1,618	1,346	53,716,289	4,363,900	2,474	4,912	3,819	35.2
Paddy	0	0	0	.	12	29	12	0.0
Sorghum	0	0	0	.	0	0	-	0.0
Finger Millet	0	0	0	.	94	144	94	0.0
Wheat	58	281	26,291,858	43,916	0	404	281	100.0
Barley	0	0	0	.	0	0	-	0.0
CEREALS		1,626	80,008,147		2,895	5,490	4,521	36.0
Cassava	0	0	0	.	0	0	-	0.0
Sweet Potato	0	0	0	.	0	0	-	0.0
Irish potatoes	202	88	25,829,584	116,609	129	376	216	40.5
ROOTS & TUBERS		88	25,829,584		129	376	216	40.5
Mung Bean	0	0	0	.	0	0	-	0.0
Beans	607	480	27,058,656	25,310	1,801	3,294	2,281	21.0
Cowpeas	0	0	0	.	0	0	-	0.0
Green gram	0	0	0	.	0	0	-	0.0
Chick peas	0	0	0	.	0	0	-	0.0
Field Peas	0	0	0	.	0	0	-	0.0
PULSES	607	480	27,058,656	25,310	1,801	3,294	2,281	21.0
Sunflower	58	29	288,922	58	47	116	76	38.5
Simsim	0	0	0	.	0	0	-	0.0
Groundnut	0	0	0	.	0	0	-	0.0
Soya Beans	0	0	0	.	0	0	-	0.0
OIL SEEDS & OIL NUTS		29	288,922		47	116	76	38.5
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	0	0	0	.	0	0	-	0.0
Aubergine	0	0	0	.	0	0	-	0.0
Onion	0	0	0	.	0	0	-	0.0
Cabbage	0	0	0	.	0	0	-	0.0
Tomatoes	87	50	13,105,480	39,582	0	87	50	100.0
Spinach	0	0	0	.	0	0	-	0.0
Carrot	0	0	0	.	0	0	-	0.0
Chillies	0	0	0	.	0	0	-	0.0
Amaranths	0	0	0	.	0	0	-	0.0
Cucumber	0	0	0	.	0	0	-	0.0
Egg Plant	0	0	0	.	0	0	-	0.0
FRUITS & VEGETABLES		50	13,105,480		0	87	50	100.0
Cotton	0	0	0	.	0	0	-	0.0
Tobacco	0	0	0	.	0	0	-	0.0
CASH CROPS	0	0	0	.	0	0	-	0.0
Malay	0	0	0	.	0	0	-	0.0
Total	2,629	2,273	146,290,789	4,589,374	4,872	9,361	7,144	31.8

5.145 :Planted Area & Number of Crop Growing Households by Improved Seeds use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Arusha Rural

Crop	Improved Seeds use							% of Planted area using Insecticide
	Number of Households using Improved seeds	Planted Area Applied with Improved Seeds	Cost of Improved Seeds	Number of Households NOT using Improved seeds	Planted Area Without Improved seeds	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	17,080	7,885	377,457,606	4,066,174	8,661	35,593	16,545	47.7
Paddy	0	0	0	.	.	0	-	0.0
Sorghum	0	0	0	.	.	0	-	0.0
Finger Millet	0	0	0	.	.	0	-	0.0
Wheat	358	387	25,679,338	84,802	631	1,314	1,018	38.0
Barley	0	0	0	.	.	0	-	0.0
CEREALS		8,272	403,136,944		9,292	36,907	17,563	47.1
Cassava	0	0	0	.	.	0	-	0.0
Sweet Potato	119	24	895,791	17,916	70	358	94	25.6
Irish potatoes	358	109	31,197,410	71,663	176	956	285	38.2
ROOTS & TUBERS		133	32,093,201		246	1,314	379	35.1
Mung Bean	0	0	0	.	.	0	-	0.0
Beans	5,016	1,331	95,837,679	90,773	9,227	32,010	10,558	12.6
Cowpeas	0	0	0	.	515	1,433	515	0.0
Green gram	0	0	0	.	1,179	3,344	1,179	0.0
Chick peas	358	145	14,690,970	9,794	406	1,314	551	26.3
Field Peas	0	0	0	.	48	119	48	0.0
PULSES	5,375	1,476	110,528,649	100,567	11,375	38,220	12,851	11.5
Sunflower	0	0	0	.	.	0	-	0.0
Simsim	0	0	0	.	.	0	-	0.0
Groundnut	0	0	0	.	.	0	-	0.0
Soya Beans	239	24	453,867	597	85	597	109	22.2
OIL SEEDS & OIL NUTS		24	453,867		85	597	109	22.2
Okra	0	0	0	.	68	239	68	0.0
Radish	0	0	0	.	12	119	12	0.0
Turmeric	0	0	0	.	.	0	-	0.0
Bitteer	0	0	0	.	73		73	
Aubergine						239		0.0
Onion	119	48	597,194	29,860	.	119	-	0.0
Cabbage	239	73	12,254,419	68,677	36	358	109	66.7
Tomatoes	358	87	6,163,041	20,305	.	358	-	0.0
Spinach	119	24	597,194	83,607	.	119	-	0.0
Carrot	0	0	0	.	.	0	-	0.0
Chillies	0	0	0	.	.	0	-	0.0
Amaranths	358	10	597,194	7,166	7	597	16	58.1
Cucumber	0	0	0	.	.	0	-	0.0
Egg Plant	0	0	0	.	.	0	-	0.0
FRUITS & VEGETABLES		242	20,209,042		195	2,150	437	55.3
Cotton	0	0	0	.	.	0	-	0.0
Tobacco	0	0	0	.	.	0	-	0.0
CASH CROPS	0	0	0	.	.	0	-	0.0
Malay	0	0	0	.	.	0	-	0.0
Total	24,724	10,146	566,421,703	4,551,334	21,193	79,188	31,339	32.4

5.146 : Planted Area & Number of Crop Growing Households by Improved Seeds use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Meru

Crop	Improved Seeds use							% of Planted area using Insecticide
	Number of Households using Improved seeds	Planted Area Applied with Improved Seeds	Cost of Improved Seeds	Number of Households NOT using Improved seeds	Planted Area Without Improved seeds	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	21,718	15,815	789,522,163	607,851	12,308	38,555	28,123	56.2
Paddy	244	99	1,464,112	3,172	111	732	210	47.1
Sorghum	0	0	.	.	114	366	-	0.0
Finger Millet	0	0	.	.	321	610	-	0.0
Wheat	0	0	.	.	.	0	-	0.0
Barley	0	0	.	.	.	0	-	0.0
CEREALS		15,914	790,986,276		12,854	40,263	28,768	55.3
Cassava	0	0	.	.	20	122	-	0.0
Sweet Potato	0	0	.	.	10	366	-	0.0
Irish potatoes	0	0	.	.	25	122	-	0.0
ROOTS & TUBERS		0	.		54	610	-	0.0
Mung Bean	122	49	54,904,218	5,490	.	122	-	0.0
Beans	3,782	778	78,976,667	97,974	6,795	22,816	7,573	10.3
Cowpeas	0	0	.	.	67	610	-	0.0
Green gram	0	0	.	.	222	488	-	0.0
Chick peas	0	0	.	.	12	122	-	0.0
Field Peas	0	0	.	.	.	0	-	0.0
PULSES	3,904	828	133,880,885	103,464	7,096	24,158	7,924	10.4
Sunflower	0	0	.	.	1,648	4,148	-	0.0
Simsim	0	0	.	.	.	0	-	0.0
Groundnut	0	0	.	.	12	122	-	0.0
Soya Beans	0	0	.	.	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	.		1,661	4,270	-	0.0
Okra	0	0	.	.	12	122	-	0.0
Radish	0	0	.	.	.	0	-	0.0
Turmeric	0	0	.	.	49	122	-	0.0
Bitter Aubergine	122	12	732,056	6,100	22	244	35	35.7
Onion	0	0	.	.	.	0	-	0.0
Cabbage	122	25	2,440,187	1,464,112	.	122	-	0.0
Tomatoes	610	216	14,885,143	91,629	61	854	277	78.1
Spinach	0	0	.	.	.	0	-	0.0
Carrot	122	49	3,782,291	91,507	.	122	-	0.0
Chillies	0	0	.	.	.	0	-	0.0
Amaranths	122	49	12,200,937	2,440	.	122	-	0.0
Cucumber	244	198	16,227,247	231,818	.	244	-	0.0
Egg Plant	0	0	.	.	.	0	-	0.0
FRUITS & VEGETABLES		550	50,267,862		144	1,952	694	79.2
Cotton	0	.	.	.	.	0	-	0.0
Tobacco	0	.	.	.	.	0	-	0.0
CASH CROPS	0	.	.	.	.	0	-	0.0
Malay	0	.	.	.	.	0	-	0.0
Total	27,208	17,291	975,135,022	2,602,094	21,809	71,253	39,101	44.2

5.147 : Planted Area & Number of Crop Growing Households by Local seeds use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Monduli

Crop	Local Seeds use							% of Planted area using Local Seeds
	Number of Households using Local Seeds	Planted Area Applied with Local Seeds	Cost of Local Seeds	Number of Households NOT using Local Seeds	Planted Area Without Local Seeds	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	16,431	20,776	288,980,612	553,092	5,702	21,504	26,479	78.5
Paddy	429	159	10,716,067	15,645	.	429	-	0.0
Sorghum	71	43	571,524	7,144	.	71	-	0.0
Finger Millet	0	0	0	.	.	0	-	0.0
Wheat	786	897	42,949,997	93,301	434	929	1,330	67.4
Barley	0	0	0	.	.	0	-	0.0
CEREALS		21,876	343,218,200		6,136	22,932	28,012	78.1
Cassava	0	0	0	.	.	0	-	0.0
Sweet Potato	0	0	0	.	.	0	-	0.0
Irish potatoes	0	0	0	.	.	0	-	0.0
ROOTS & TUBERS		0	0		.	0	-	0.0
Mung Bean	0	0	0	.	.	0	-	0.0
Beans	14,574	10,104	411,082,624	478,508	591	15,431	10,695	94.5
Cowpeas	2,715	1,342	25,292,419	24,147	.	2,715	-	0.0
Green gram	4,001	2,418	44,257,357	32,720	43	4,001	2,461	98.2
Chick peas	2,143	1,162	34,620,041	50,151	.	2,143	-	0.0
Field Peas	0	0	0	.	.	0	-	0.0
PULSES		15,026	515,252,442		635	24,290	15,661	95.9
Sunflower	0	0	0	.	.	0	-	0.0
Simsim	143	376	1,357,369	2,858	.	143	-	0.0
Groundnut	0	0	0	.	.	0	-	0.0
Soya Beans	0	0	0	.	.	0	-	0.0
OIL SEEDS & OIL NUTS		376	1,357,369		.	143	-	0.0
Okra	0	0	0	.	.	0	-	0.0
Radish	71	7	142,881	71	.	71	-	0.0
Turmeric	0	0	0	.	.	0	-	0.0
Bitteer Aubergine	0	0	0	.	.	0	-	0.0
Onion	0	0	0	.	14	71	14	0.0
Cabbage	71	7	250,042	7,144	7	71	14	50.0
Tomatoes	0	0	0	.	.	0	-	0.0
Spinach	0	0	0	.	10	143	10	0.0
Carrot	0	0	0	.	5	71	5	0.0
Chillies	0	0	0	.	.	0	-	0.0
Amaranths	0	0	0	.	.	0	-	0.0
Cucumber	0	0	0	.	.	0	-	0.0
Egg Plant	0	0	0	.	.	0	-	0.0
FRUITS & VEGETABLES		14	392,922		36	429	51	28.6
Cotton	0	0	0	.	.	0	-	0.0
Tobacco	0	0	0	.	.	0	-	0.0
CASH CROPS		0	0		.	0	-	0.0
Malay	71	29	571,524	572	.	71	-	0.0
Total	41,507	37,321	860,792,456	1,265,353	6,807	47,865	44,128	84.6

5.148 : Planted Area & Number of Crop Growing Households by Local Seeds use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Arusha

Crop	Local Seeds use							% of Planted area using Local Seeds
	Number of Households using Local Seeds	Planted Area Applied with Local Seeds	Cost of Local Seeds	Number of Households NOT using Local Seeds	Planted Area Without Local Seeds	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	1,321	1,030	24,348,477	51,527	949	2,472	1,979	52.0
Paddy	0	0	0	.	.	0	-	0.0
Sorghum	0	0	0	.	.	0	-	0.0
Finger Millet	0	0	0	.	.	0	-	0.0
Wheat	0	0	0	.	.	0	-	0.0
Barley	0	0	0	.	.	0	-	0.0
CEREALS		1,030	24,348,477		949	2,472	1,979	52.0
Cassava	0	0	0	.	.	0	-	0.0
Sweet Potato	43	4	426,194	8,524	.	43	-	0.0
Irish potatoes	0	0	0	.	.	0	-	0.0
ROOTS & TUBERS		4	426,194		.	43	-	0.0
Mung Bean	0	0	0	.	.	0	-	0.0
Beans	2,088	1,193	75,250,261	81,403	192	2,174	1,386	86.1
Cowpeas	170	104	4,879,924	3,452	1	213	104	99.2
Green gram	128	14	788,459	1,321	8	128	22	65.0
Chick peas	426	485	25,652,631	20,969	.	426	-	0.0
Field Peas	0	0	0	.	.	0	-	0.0
PULSES	2,813	1,795	106,571,275	107,145	201	2,941	1,996	90.0
Sunflower	43	1	213,097	426	8	43	9	12.5
Simsim	0	0	0	.	.	0	-	0.0
Groundnut	0	0	0	.	.	0	-	0.0
Soya Beans	0	0	0	.	.	0	-	0.0
OIL SEEDS & OIL NUTS		1	213,097		8	43	9	12.5
Okra	0	0	0	.	.	0	-	0.0
Radish	0	0	0	.	9	43	9	0.0
Turmeric	0	0	0	.	.	0	-	0.0
Bitteer	0	0	0	.	.	0	-	0.0
Aubergine	0	0	0	.	.	0	-	0.0
Onion	0	0	0	.	28	128	28	0.0
Cabbage	0	0	0	.	.	0	-	0.0
Tomatoes	0	0	0	.	.	0	-	0.0
Spinach	0	0	0	.	21	170	21	0.0
Carrot	0	0	0	.	.	0	-	0.0
Chillies	0	0	0	.	11	85	11	0.0
Amaranths	85	6	340,955	1,918	.	85	-	0.0
Cucumber	0	0	0	.	.	0	-	0.0
Egg Plant	0	0	0	.	17	43	17	0.0
FRUITS & VEGETABLES		6	340,955		86	554	92	6.9
Cotton	0	0	0	.	.	0	-	0.0
Tobacco	0	0	0	.	.	0	-	0.0
CASH CROPS	0	0	0	.	.	0	-	0.0
Malay	0	0	0	.	.	0	-	0.0
Total	4,305	2,837	131,899,998	169,540	1,243	6,052	4,080	69.5

5.149 : Planted Area & Number of Crop Growing Households by Local Seeds use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Karatu

Crop	Local Seeds use							% of Planted area using Local Seeds
	Number of Households using Local Seeds	Planted Area Applied with Local Seeds	Cost of Local Seeds	Number of Households NOT using Local Seeds	Planted Area Without Local Seeds	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	19,962	11,865	397,642,726	400,586	8,631	30,924	20,495	57.9
Paddy	267	126	6,149,149	33,152	72	446	198	63.6
Sorghum	2,228	482	6,505,621	16,130	25	2,228	507	95.1
Finger Millet	624	135	2,874,059	4,812	.	624	-	0.0
Wheat	1,337	961	78,067,454	122,270	96	1,515	1,057	90.9
Barley	178	72	1,648,685	8,912	108	356	180	40.0
CEREALS		13,642	492,887,693		8,932	36,093	22,573	60.4
Cassava	0	0	0	.	.	0	-	0.0
Sweet Potato	0	0	0	.	.	0	-	0.0
Irish potatoes	0	0	0	.	.	0	-	0.0
ROOTS & TUBERS		0	0		.	0	-	0.0
Mung Bean	0	0	0	.	.	0	-	0.0
Beans	8,644	2,750	169,805,713	153,016	580	10,070	3,331	82.6
Cowpeas	1,426	280	8,421,660	13,100	272	1,515	551	50.7
Green gram	0	0	0	.	.	0	-	0.0
Chick peas	89	36	2,138,834	1,782	.	89	-	0.0
Field Peas	0	0	0	.	.	0	-	0.0
PULSES	10,159	3,066	180,366,208	167,898	852	11,674	3,918	78.3
Sunflower	3,476	395	17,333,559	29,855	34	3,476	429	92.0
Simsim	0	0	0	.	.	0	-	0.0
Groundnut	0	0	0	.	.	0	-	0.0
Soya Beans	0	0	0	.	.	0	-	0.0
OIL SEEDS & OIL NUTS		395	17,333,559		34	3,476	429	92.0
Okra	0	0	0	.	.	0	-	0.0
Radish	0	0	0	.	.	0	-	0.0
Turmeric	0	0	0	.	.	0	-	0.0
Bitteer	0	0	0	.	.	0	-	0.0
Aubergine	0	0	0	.	.	0	-	0.0
Onion	356	126	32,973,696	3,832	.	356	-	0.0
Cabbage	0	0	0	.	.	0	-	0.0
Tomatoes	0	0	0	.	.	0	-	0.0
Spinach	178	6	178,236	8,912	.	178	-	0.0
Carrot	0	0	0	.	.	0	-	0.0
Chillies	0	0	0	.	.	0	-	0.0
Amaranths	0	0	0	.	.	0	-	0.0
Cucumber	0	0	0	.	.	0	-	0.0
Egg Plant	0	0	0	.	.	0	-	0.0
FRUITS & VEGETABLES		132	33,151,932		.	535	-	0.0
Cotton	0	0	0	.	.	0	-	0.0
Tobacco	0	0	0	.	.	0	-	0.0
CASH CROPS	0	0	0	.	.	0	-	0.0
Malay	0	0	0	.	.	0	-	0.0
Total	38,766	17,235	723,739,393	796,359	9,818	51,778	27,053	63.7

5.150 : Planted Area & Number of Crop Growing Households by Local seeds use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Ngorongoro

Crop	Local Seeds use							% of Planted area using Local Seeds
	Number of Households using Local Seeds	Planted Area Applied with Local Seeds	Cost of Local Seeds	Number of Households NOT using Local Seeds	Planted Area Without Local Seeds	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	5,968	5,165	56,830,584	92,366	3,884	10,089	9,049	57.1
Paddy	0	0	0	.	.	0	-	0.0
Sorghum	1,492	994	10,707,335	14,352	.	1,492	-	0.0
Finger Millet	0	0	0	.	.	0	-	0.0
Wheat	0	0	0	.	.	0	-	0.0
Barley	0	0	0	.	.	0	-	0.0
CEREALS		6,159	67,537,919		3,884	11,581	10,043	61.3
Cassava	0	0	0	.	.	0	-	0.0
Sweet Potato	71	14	213,152	36,094	.	71	-	0.0
Irish potatoes	142	20	1,108,390	4,974	.	142	-	0.0
ROOTS & TUBERS		0	1,321,542		.	213	-	0.0
Mung Bean	0	0	0	.	.	0	-	0.0
Beans	6,324	4,125	122,832,388	150,059	133	6,537	4,258	96.9
Cowpeas	71	29	213,152	355	.	71	-	0.0
Green gram	0	0	0	.	.	0	-	0.0
Chick peas	0	0	0	.	.	0	-	0.0
Field Peas	0	0	0	.	.	0	-	0.0
PULSES	6,395	4,154	123,045,540	150,414	133	6,608	4,287	96.9
Sunflower	0	0	0	.	29	71	29	0.0
Simsim	0	0	0	.	.	0	-	0.0
Groundnut	0	0	0	.	.	0	-	0.0
Soya Beans	0	0	0	.	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	0		29	71	29	0.0
Okra	0	0	0	.	.	0	-	0.0
Radish	0	0	0	.	.	0	-	0.0
Turmeric	0	0	0	.	.	0	-	0.0
Bitteer	0	0	0	.	.	0	-	0.0
Aubergine	0	0	0	.	.	0	-	0.0
Onion	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
Cucumber	0	0	0	.	.	0	-	0.0
Egg Plant	0	0	0	.	.	0	-	0.0
FRUITS & VEGETABLES		0	0		.	0	-	0.0
Cotton	0	0	0	.	.	0	-	0.0
Tobacco	0	0	0	.	.	0	-	0.0
CASH CROPS	0	0	0	.	.	0	-	0.0
Malay	0	0	0	.	.	0	-	0.0
Total	14,068	10,347	191,905,002	298,200	4,046	18,473	14,393	71.9

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

Crop	Local Seeds use							% of Planted area using Local Seeds
	Number of Households using Local Seeds	Planted Area Applied with Local Seeds	Cost of Local Seeds	Number of Households NOT using Local Seeds	Planted Area Without Local Seeds	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	3,294	2,417	77,695,793	82,632	1,402	4,912	3,819	63.3
Paddy	29	12	130,015	520	.	29	-	0.0
Sorghum	0	0	0	.	.	0	-	0.0
Finger Millet	144	94	1,716,194	2,196	.	144	-	0.0
Wheat	347	316	28,487,662	74,253	281	404	597	52.9
Barley	0	0	0	.	.	0	-	0.0
CEREALS		2,838	108,029,663		1,683	5,490	4,521	62.8
Cassava	0	0	0	.	.	0	-	0.0
Sweet Potato	0	0	0	.	.	0	-	0.0
Irish potatoes	173	129	25,771,800	190,977	88	376	216	59.5
ROOTS & TUBERS		129	25,771,800		88	376	216	59.5
Mung Bean	0	0	0	.	.	0	-	0.0
Beans	2,687	1,782	116,627,101	1,014,548	499	3,294	2,281	78.1
Cowpeas	0	0	0	.	.	0	-	0.0
Green gram	0	0	0	.	.	0	-	0.0
Chick peas	0	0	0	.	.	0	-	0.0
Field Peas	0	0	0	.	.	0	-	0.0
PULSES	2,687	1,782	116,627,101	1,014,548	499	3,294	2,281	78.1
Sunflower	58	47	1,097,902	838	29	116	76	61.5
Simsim	0	0	0	.	.	0	-	0.0
Groundnut	0	0	0	.	.	0	-	0.0
Soya Beans	0	0	0	.	.	0	-	0.0
OIL SEEDS & OIL NUTS		47	1,097,902		29	116	76	61.5
Okra	0	0	0	.	.	0	-	0.0
Radish	0	0	0	.	.	0	-	0.0
Turmeric	0	0	0	.	.	0	-	0.0
Bitteer	0	0	0	.	.	0	-	0.0
Aubergine	0	0	0	.	.	0	-	0.0
Onion	0	0	0	.	.	0	-	0.0
Cabbage	0	0	0	.	.	0	-	0.0
Tomatoes	0	0	0	.	50	87	50	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
Cucumber	0	0	0	.	.	0	-	0.0
Egg Plant	0	0	0	.	.	0	-	0.0
FRUITS & VEGETABLES		0	0		50	87	50	0.0
Cotton	0	0	0	.	.	0	-	0.0
Tobacco	0	0	0	.	.	0	-	0.0
CASH CROPS	0	0	0	.	.	0	-	0.0
Malay	0	0	0	.	.	0	-	0.0
Total	6,732	4,795	251,526,466	1,365,963	2,349	9,361	7,144	67.1

5.152 : Planted Area & Number of Crop Growing Households by Local Seeds use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Arusha Rural

Crop	Local Seeds use							% of Planted area using Local Seeds
	Number of Households using Local Seeds	Planted Area Applied with Local Seeds	Cost of Local Seeds	Number of Households NOT using Local Seeds	Planted Area Without Local Seeds	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	18,513	8,057	232,016,523	215,826	8,488	35,593	16,545	48.7
Paddy	0	0	0	.	.	0	-	0.0
Sorghum	0	0	0	.	.	0	-	0.0
Finger Millet	0	0	0	.	.	0	-	0.0
Wheat	956	631	33,036,767	123,022	387	1,314	1,018	62.0
Barley	0	0	0	.	.	0	-	0.0
CEREALS		8,688	265,053,290		8,875	36,907	17,563	49.5
Cassava	0	0	0	.	.	0	-	0.0
Sweet Potato	239	70	5,016,429	80,621	24	358	94	74.4
Irish potatoes	597	176	14,452,093	23,291	109	956	285	61.8
ROOTS & TUBERS		246	19,468,521		133	1,314	379	64.9
Mung Bean	0	0	0	.	.	0	-	0.0
Beans	26,993	8,175	393,301,399	381,249	2,383	32,010	10,558	77.4
Cowpeas	1,433	508	6,366,087	7,286	7	1,433	515	98.6
Green gram	3,344	1,179	16,840,868	137,116	.	3,344	-	0.0
Chick peas	956	394	21,140,664	20,305	157	1,314	551	71.5
Field Peas	119	36	2,149,898	1,433	12	119	48	75.0
PULSES	32,846	10,292	439,798,917	547,388	2,559	38,220	12,851	80.1
Sunflower	0	0	0	.	.	0	-	0.0
Simsim	0	0	0	.	.	0	-	0.0
Groundnut	0	0	0	.	.	0	-	0.0
Soya Beans	358	85	812,184	1,194	24	597	109	77.8
OIL SEEDS & OIL NUTS		85	812,184		24	597	109	77.8
Okra	239	68	2,627,653	14,333	.	239	-	0.0
Radish	119	12	836,071	5,972	.	119	-	0.0
Turmeric	0	0	0	.	.	0	-	0.0
Bitter Aubergine	239	73	2,747,092	83,607	.	239	-	0.0
Onion	0	0	0	.	48	119	48	0.0
Cabbage	119	12	1,731,862	2,986	97	358	109	11.1
Tomatoes	0	0	0	.	87	358	87	0.0
Spinach	0	0	0	.	24	119	24	0.0
Carrot	0	0	0	.	.	0	-	0.0
Chillies	0	0	0	.	.	0	-	0.0
Amaranths	239	5	477,755	26,874	11	597	16	32.4
Cucumber	0	0	0	.	.	0	-	0.0
Egg Plant	0	0	0	.	.	0	-	0.0
FRUITS & VEGETABLES		170	8,420,434		267	2,150	437	38.8
Cotton	0	0	0	.	.	0	-	0.0
Tobacco	0	0	0	.	.	0	-	0.0
CASH CROPS	0	0	0	.	.	0	-	0.0
Malay	0	0	0	.	.	0	-	0.0
Total	54,464	19,480	733,553,346	1,125,113	11,859	79,188	31,339	0.0

5.153 : Planted Area & Number of Crop Growing Households by Local Seeds use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Meru

Crop	Local Seeds use							% of Planted area using Local Seeds
	Number of Households using Local Seeds	Planted Area Applied with Local Seeds	Cost of Local Seeds	Number of Households NOT using Local Seeds	Planted Area Without Local Seeds	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	16,959	11,718	305,845,775	760,972	16,546	38,555	28,264	41.5
Paddy	488	108	5,124,394	12,933	102	732	210	51.5
Sorghum	366	114	1,220,094	1,098	0	366	114	100.0
Finger Millet	610	321	1,488,514	2,318	0	610	321	100.0
Wheat	0	0	0	.	0	0	-	0.0
Barley	0	0	0	.	0	0	-	0.0
CEREALS		12,261	313,678,777		16,647	40,263	28,908	42.4
Cassava	122	20	732,056	9,761	0	122	20	100.0
Sweet Potato	366	10	91,507	366	0	366	10	100.0
Irish potatoes	122	25	12,200,937	244,019	0	122	25	100.0
ROOTS & TUBERS		54	13,024,501		0	610	54	100.0
Mung Bean	0	0	0	.	49	122	49	0.0
Beans	19,033	6,768	412,184,386	690,939	806	22,816	7,573	89.4
Cowpeas	610	67	976,075	1,586	0	610	67	100.0
Green gram	488	222	4,794,968	6,344	0	488	222	100.0
Chick peas	122	12	244,019	244	0	122	12	100.0
Field Peas	0	0	0	.	0	0	-	0.0
PULSES	20,254	7,069	418,199,448	699,114	855	24,158	7,924	89.2
Sunflower	4,148	1,648	18,032,985	14,397	0	4,148	1,648	100.0
Simsim	0	0	0	.	0	0	-	0.0
Groundnut	122	12	195,215	244	0	122	12	100.0
Soya Beans	0	0	0	.	0	0	-	0.0
OIL SEEDS & OIL NUTS		1,661	18,228,200		0	4,270	1,661	100.0
Okra	122	12	854,066	1,220	0	122	12	100.0
Radish	0	0	0	.	0	0	-	0.0
Turmeric	122	49	1,220,094	1,220	0	122	49	100.0
Bitter Aubergine	122	22	610,047	24,402	12	244	35	64.3
Onion	0	0	0	.	0	0	-	0.0
Cabbage	0	0	0	.	25	122	25	0.0
Tomatoes	244	54	2,074,159	15,861	222	854	277	19.6
Spinach	0	0	0	.	0	0	-	0.0
Carrot	0	0	0	.	49	122	49	0.0
Chillies	0	0	0	.	0	0	-	0.0
Amaranths	0	0	0	.	49	122	49	0.0
Cucumber	0	0	0	.	198	244	198	0.0
Egg Plant	0	0	0	.	0	0	-	0.0
FRUITS & VEGETABLES		138	4,758,366		556	1,952	694	19.9
Cotton	0	0	0	.	0	0	-	0.0
Tobacco	0	0	0	.	0	0	-	0.0
CASH CROPS	0	0	0	.	0	0	-	0.0
Malay	0	0	0	.	0	0	-	0.0
Total		14,114	767,889,292	1,787,925	18,058	71,253	32,172	0.0

5.154 : Planted Area & Number of Crop Growing Households by Organic Fertilizer use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Monduli

Crop	Organic Fertilizer use							% of Planted area using Organic Fertilizer
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Cost of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Without Organic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	1,429	2,094	19,413,942	20,289	24,384	21,504	26,479	8
Paddy	0	0	.	429	159	429	159	0
Sorghum	0	0	.	71	43	71	43	0
Finger Millet	0	0	.	0	0	0	0	0
Wheat	0	0	.	929	1,330	929	1,330	0
Barley	0	0	.	0	0	0	0	0
CEREALS	1,429	2,094	19,413,942	21,718	25,917	22,932	28,012	7
Cassava	0	0	.	0	0	0	0	0
Sweet Potato	0	0	.	0	0	0	0	0
Irish potatoes	0	0	.	0	0	0	0	0
ROOTS & TUBERS	0	0	.	0	0	0	0	0
Mung Bean	0	0	.	0	0	0	0	0
Beans	429	174	6,858,283	15,145	10,522	15,431	10,695	2
Cowpeas	0	0	.	2,715	1,342	2,715	1,342	0
Green gram	0	0	.	4,001	2,461	4,001	2,461	0
Chick peas	0	0	.	2,143	1,162	2,143	1,162	0
Field Peas	0	0	.	0	0	0	0	0
PULSES	429	174	6,858,283	24,004	15,487	24,290	15,661	1
Sunflower	0	0	.	0	0	0	0	0
Simsim	0	0	.	143	376	143	376	0
Groundnut	0	0	.	0	0	0	0	0
Soya Beans	0	0	.	0	0	0	0	0
OIL SEEDS & OIL NUTS	0	0	.	143	376	143	376	0
Okra	0	0	.	0	0	0	0	0
Radish	0	0	.	71	7	71	7	0
Turmeric	0	0	.	0	0	0	0	0
Bitteer								
Aubergine	0	0	.	0	0	0	0	0
Onion	0	0	.	71	14	71	14	0
Cabbage	0	0	.	71	14	71	14	0
Tomatoes	0	0	.	0	0	0	0	0
Spinach	0	0	.	143	10	143	10	0
Carrot	0	0	.	71	5	71	5	0
Chillies	0	0	.	0	0	0	0	0
Amaranths	0	0	.	0	0	0	0	0
Cucumber	0	0	.	0	0	0	0	0
Egg Plant	0	0	.	0	0	0	0	0
FRUITS & VEGETABLES	0	0	.	429	51	429	51	0
Cotton	0	0	.	0	0	0	0	0
Tobacco	0	0	.	0	0	0	0	0
CASH CROPS	0	0	.	0	0	0	0	0
Malay	0	0	.	71	29	71	29	0
Total	1,857	2,268	26,272,225	46,365	41,860	47,865	44,128	5

5.155 Planted Area & Number of Crop Growing Households by Organic Fertilizer use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Arusha

Crop	Organic Fertilizer use							% of Planted area using Organic Fertilizer
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Cost of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Without Organic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	597	336	5,126,264	1,875	1,643	2,472	1,979	17.0
Paddy	0	0	.	0	.	0	-	0.0
Sorghum	0	0	.	0	.	0	-	0.0
Finger Millet	0	0	.	0	.	0	-	0.0
Wheat	0	0	.	0	.	0	-	0.0
Barley	0	0	.	0	.	0	-	0.0
CEREALS		336	5,126,264		1,643	2,472	1,979	17.0
Cassava	0	0	.	0	.	0	-	0.0
Sweet Potato	43	4	213,097	0	.	43	-	0.0
Irish potatoes	0	0	.	0	.	0	-	0.0
ROOTS & TUBERS		4	213,097		.	43	-	0.0
Mung Bean	0	.	.	0	.	0	-	0.0
Beans	511	239	3,208,390	1,662	1,147	2,174	1,386	17.2
Cowpeas	85	9	596,672	128	95	213	104	9.1
Green gram	43	4	51,143	85	17	128	22	20.0
Chick peas	43	104	681,911	384	381	426	485	21.4
Field Peas	0	.	.	0	.	0	-	0.0
PULSES	682	356	4,538,116	2,259	1,640	2,941	1,996	17.9
Sunflower	43	9	255,717	0	.	43	-	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	0	0	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		9	255,717		.	43	-	0.0
Okra	0	0	.	0	.	0	-	0.0
Radish	0	0	.	43	9	43	9	0.0
Turmeric	0	0	.	0	.	0	-	0.0
Bitter Aubergine	0	0	.	0	.	0	-	0.0
Onion	128	28	745,840	0	.	128	-	0.0
Cabbage	0	0	.	0	.	0	-	0.0
Tomatoes	0	0	.	0	.	0	-	0.0
Spinach	170	21	433,013	0	.	170	-	0.0
Carrot	0	0	.	0	.	0	-	0.0
Chillies	85	11	177,297	0	.	85	-	0.0
Amaranths	43	2	170,478	43	4	85	6	32.4
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	43	17	6,819	0	.	43	-	0.0
FRUITS & VEGETABLES		79	1,533,447		13	554	92	86.0
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS	0	0	.	0	.	0	-	0.0
Malay	0	0	.	0	.	0	-	0.0
Total	1,833	785	11,666,641	4,219	3,295	6,052	4,080	19.2

5.156 : Planted Area & Number of Crop Growing Households by Organic Fertilizer use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Karatu

Crop	Organic Fertilizer use							% of Planted area using Organic Fertilizer
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Cost of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Without Organic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	3,476	1,557	70,247,341	28,607	18,661	30,924	20,218	7.7
Paddy	0	0	.	446	198	446	198	0.0
Sorghum	713	50	2,539,866	1,871	457	2,228	507	9.9
Finger Millet	178	14	1,581,846	535	122	624	135	10.0
Wheat	89	36	1,604,126	1,426	1,021	1,515	1,057	3.4
Barley	0	0	.	356	180	356	180	0.0
CEREALS		1,656	75,973,179		20,640	36,093	22,296	7.4
Cassava	0	0	.	0	.	0	-	0.0
Sweet Potato	0	0	.	0	.	0	-	0.0
Irish potatoes	0	0	.	0	.	0	-	0.0
ROOTS & TUBERS		0	.		.	0	-	0.0
Mung Bean	0	0	.	0	.	0	-	0.0
Beans	1,515	131	9,401,959	9,803	3,200	10,070	3,331	3.9
Cowpeas	0	0	.	1,515	551	1,515	551	0.0
Green gram	0	0	.	0	.	0	-	0.0
Chick peas	0	0	.	89	36	89	36	0.0
Field Peas	0	0	.	0	.	0	-	0.0
PULSES	1,515	131	9,401,959	11,407	3,788	11,674	3,918	3.3
Sunflower	1,248	96	3,475,606	2,495	333	3,476	429	22.4
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	0	0	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		96	3,475,606		333	3,476	429	22.4
Okra	0	0	.	0	.	0	-	0.0
Radish	0	0	.	0	.	0	-	0.0
Turmeric	0	0	.	0	.	0	-	0.0
Bitter Aubergine	0	0	.	0	.	0	-	0.0
Onion	0	0	.	356	126	356	126	0.0
Cabbage	0	0	.	0	.	0	-	0.0
Tomatoes	0	0	.	0	.	0	-	0.0
Spinach	0	0	.	178	6	178	6	0.0
Carrot	0	0	.	0	.	0	-	0.0
Chillies	0	0	.	0	.	0	-	0.0
Amaranths	0	0	.	0	.	0	-	0.0
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	0	0	.	0	.	0	-	0.0
FRUITS & VEGETABLES		0	.		132	535	132	0.0
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS	0	0	.	0	.	0	-	0.0
Malay	0	0	.	0	.	0	-	0.0
Total	7,219	1,883	88,850,744	47,678	24,893	51,778	26,776	7.0

5.157 : Planted Area & Number of Crop Growing Households by Organic Fertilizer use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Ngorongoro

Crop	Organic Fertilizer use							% of Planted area using Organic Fertilizer
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Cost of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Without Organic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	71	14	909,448	10,018	9,035	10,089	9,049	0.2
Paddy	0	0	.	0	.	0	-	0.0
Sorghum	0	0	85,261	1,492	994	1,492	994	0.0
Finger Millet	0	0	.	0	.	0	-	0.0
Wheat	0	0	.	0	.	0	-	0.0
Barley	0	0	.	0	.	0	-	0.0
CEREALS		14	994,709		10,028	11,581	10,043	0.1
Cassava	0	0	.	0	.	0	-	0.0
Sweet Potato	0	0	.	71	14	71	14	0.0
Irish potatoes	0	0	.	142	20	142	20	0.0
ROOTS & TUBERS		0	.		35	213	35	0.0
Mung Bean	0	0	.	0	.	0	-	0.0
Beans	71	14	710,507	6,466	4,243	6,537	4,258	0.3
Cowpeas	0	0	.	71	29	71	29	0.0
Green gram	0	0	.	0	.	0	-	0.0
Chick peas	0	0	.	0	.	0	-	0.0
Field Peas	0	0	.	0	.	0	-	0.0
PULSES	71	14	710,507	6,537	4,272	6,608	4,287	0.3
Sunflower	0	0	.	71	29	71	29	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	0	0	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	.		29	71	29	0.0
Okra	0	0	.	0	.	0	-	0.0
Radish	0	0	.	0	.	0	-	0.0
Turmeric	0	0	.	0	.	0	-	0.0
Bitteer	0	0	.	0	.	0	-	0.0
Aubergine	0	0	.	0	.	0	-	0.0
Onion	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
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	0	0	.	0	.	0	-	0.0
FRUITS & VEGETABLES		0	.		.	0	-	0.0
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS	0	0	.	0	.	0	-	0.0
Malay	0	0	.	0	.	0	-	0.0
Total	142	29	1,705,216	18,331	14,364	18,473	14,393	0.2

5.158 : Planted Area & Number of Crop Growing Households by Organic Fertilizer use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Longido

Crop	Organic Fertilizer use							% of Planted area using Organic Fertilizer
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Cost of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Without Organic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	58	32	144,461	4,854	3,787	4,912	3,819	0.8
Paddy	0	0	.	29	12	29	12	0.0
Sorghum	0	0	.	0	.	0	-	0.0
Finger Millet	0	0	.	144	94	144	94	0.0
Wheat	29	257	462,274	376	339	404	597	43.1
Barley	0	0	.	0	.	0	-	0.0
CEREALS		290	606,735		4,231	5,490	4,521	6.4
Cassava	0	0	.	0	.	0	-	0.0
Sweet Potato	0	0	.	0	.	0	-	0.0
Irish potatoes	0	0	.	376	216	376	216	0.0
ROOTS & TUBERS		0	.		216	376	216	0.0
Mung Bean	0	0	.	0	.	0	-	0.0
Beans	58	117	2,499,171	3,236	2,164	3,294	2,281	5.1
Cowpeas	0	0	.	0	.	0	-	0.0
Green gram	0	0	.	0	.	0	-	0.0
Chick peas	0	0	.	0	.	0	-	0.0
Field Peas	0	0	.	0	.	0	-	0.0
PULSES	58	117	2,499,171	3,236	2,164	3,294	2,281	5.1
Sunflower	0	0	.	116	76	116	76	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	0	0	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	.		76	116	76	0.0
Okra	0	0	.	0	.	0	-	0.0
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
Cabbage	0	0	.	0	.	0	-	0.0
Tomatoes	0	0	.	87	50	87	50	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
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	0	0	.	0	.	0	-	0.0
FRUITS & VEGETABLES		0	.		50	87	50	0.0
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS	0	0	.	0	.	0	-	0.0
Malay	0	0	.	0	.	0	-	0.0
Total	144	406	3,105,906	9,217	6,738	9,361	7,144	5.7

5.159 : Planted Area & Number of Crop Growing Households by Organic Fertilizer use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Arusha Rural

Crop	Organic Fertilizer use							% of Planted area using Organic Fertilizer
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Cost of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Without Organic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	10,391	4,046	73,932,606	25,560	12,500	35,593	16,545	24.5
Paddy	0	0	.	0	.	0	-	0.0
Sorghum	0	0	.	0	.	0	-	0.0
Finger Millet	0	0	.	0	.	0	-	0.0
Wheat	119	99	597,194	1,194	919	1,314	1,018	9.7
Barley	0	0	.	0	.	0	-	0.0
CEREALS		4,145	74,529,800		13,418	36,907	17,563	23.6
Cassava	0	0	.	0	.	0	-	0.0
Sweet Potato	358	94	621,082	0	.	358	-	0.0
Irish potatoes	0	.	.	956	285	956	-	0.0
ROOTS & TUBERS		94	621,082		285	1,314	379	24.9
Mung Bean	0	0	.	0	.	0	-	0.0
Beans	8,838	2,143	46,855,834	23,529	8,415	32,010	10,558	20.3
Cowpeas	0	0	.	1,433	515	1,433	515	0.0
Green gram	836	331	2,388,776	2,628	848	3,344	1,179	28.1
Chick peas	119	19	83,607	1,194	532	1,314	551	3.5
Field Peas	119	48	119,439	0	.	119	-	0.0
PULSES	9,913	2,541	49,447,656	28,785	10,310	38,220	12,851	19.8
Sunflower	0	0	.	0	.	0	-	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	239	60	238,878	358	48	597	109	55.6
OIL SEEDS & OIL NUTS		60	238,878		48	597	109	55.6
Okra	119	29	358,316	119	39	239	68	42.9
Radish	0	0	.	119	12	119	12	0.0
Turmeric	0	0	.	0	.	0	-	0.0
Bitteer	0	0	.	239	73	239	73	0.0
Aubergine	0	0	.	119	48	119	48	0.0
Onion	0	0	.	358	109	358	109	0.0
Cabbage	0	0	.	358	87	358	87	0.0
Tomatoes	119	24	836,071	0	.	119	-	0.0
Carrot	0	0	.	0	.	0	-	0.0
Chillies	0	0	.	0	.	0	-	0.0
Amaranths	597	16	3,893,704	0	.	597	-	0.0
Cucumber	0	.	.	0	.	0	-	0.0
Egg Plant	0	.	.	0	.	0	-	0.0
FRUITS & VEGETABLES		70	5,088,092		368	2,150	437	15.9
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS	0	0	.	0	.	0	-	0.0
Malay	0	0	.	0	.	0	-	0.0
Total	21,857	6,911	129,925,507	58,167	24,429	79,188	31,339	22.1

5.160 : Planted Area & Number of Crop Growing Households by Organic Fertilizer use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Meru

Crop	Organic Fertilizer use							% of Planted area using Organic Fertilizer
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Cost of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Without Organic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	5,368	3,254	195,021,734	34,285	24,869	38,555	28,123	11.6
Paddy	0	0	.	732	210	732	210	0.0
Sorghum	122	15	610,047	244	99	366	114	13.0
Finger Millet	0	0	.	610	321	610	321	0.0
Wheat	0	0	.	0	.	0	-	0.0
Barley	0	0	.	0	.	0	-	0.0
CEREALS		3,269	195,631,781		25,499	40,263	28,768	11.4
Cassava	0	0	.	122	20	122	20	0.0
Sweet Potato	0	0	.	366	10	366	10	0.0
Irish potatoes	0	0	.	122	25	122	25	0.0
ROOTS & TUBERS		0	.		54	610	54	0.0
Mung Bean	0	0	.	122	49	122	49	0.0
Beans	1,952	568	27,422,339	21,108	7,005	22,816	7,573	7.5
Cowpeas	0	0	.	610	67	610	67	0.0
Green gram	0	0	.	488	222	488	222	0.0
Chick peas	0	0	.	122	12	122	12	0.0
Field Peas	0	0	.	0	.	0	-	0.0
PULSES		568	27,422,339		7,356	24,158	7,924	7.2
Sunflower	244	49	854,066	3,904	1,599	4,148	1,648	3.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	122	12	122	12	0.0
Soya Beans	0	0	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		49	854,066		1,611	4,270	1,661	3.0
Okra	0	0	.	122	12	122	12	0.0
Radish	0	0	.	0	.	0	-	0.0
Turmeric	0	0	.	122	49	122	49	0.0
Bitteer Aubergine	122	12	1,220,094	122	22	244	35	35.7
Onion	0	0	.	0	.	0	-	0.0
Cabbage	122	25	732,056	0	.	122	-	0.0
Tomatoes	0	.	.	854	277	854	-	0.0
Spinach	0	.	.	0	.	0	-	0.0
Carrot	0	.	.	122	49	122	-	0.0
Chillies	0	.	.	0	.	0	-	0.0
Amaranths	0	.	.	122	49	122	-	0.0
Cucumber	0	.	.	244	198	244	-	0.0
Egg Plant	0	.	.	0	.	0	-	0.0
FRUITS & VEGETABLES		37	1,952,150		657	1,952	694	5.3
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS		0	.		.	0	-	0.0
Malay	0	0	.	0	.	0	-	0.0
Total	7,931	3,923	225,860,335	64,665	35,177	71,253	39,101	10.0

5.161 Planted Area & Number of Crop Growing Households by Inorganic Fertilizer use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Monduli

Crop	Inorganic Fertilizer use							% of Planted area using Inorganic Fertilizer
	Number of Households using Inorganic Fertilizer	Planted Area Applied with Inorganic Fertilizer	Cost of Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area Without Inorganic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	214	105	7,144,045	21,504	26,374	21,504	26,479	0.4
Paddy	357	101	24,646,954	71	58	429	159	63.6
Sorghum	0	0	.	71	43	71	43	0.0
Finger Millet	0	0	.	0	.	0	-	0.0
Wheat	0	0	.	929	1,330	929	1,330	0.0
Barley	0	0	.	0	.	0	-	0.0
CEREALS		206	31,790,999		27,806	22,932	28,012	0.7
Cassava	0	0	.	0	.	0	-	0.0
Sweet Potato	0	0	.	0	.	0	-	0.0
Irish potatoes	0	0	.	0	.	0	-	0.0
ROOTS & TUBERS		0	.		.	0	-	0.0
Mung Bean	0	0	.	0	.	0	-	0.0
Beans	0	0	.	15,431	10,695	15,431	10,695	0.0
Cowpeas	0	0	.	2,715	1,342	2,715	1,342	0.0
Green gram	0	0	.	4,001	2,461	4,001	2,461	0.0
Chick peas	0	0	.	2,143	1,162	2,143	1,162	0.0
Field Peas	0	0	.	0	.	0	-	0.0
PULSES		0	.		15,661	24,290	15,661	0.0
Sunflower	0	0	.	0	.	0	-	0.0
Simsim	0	0	.	143	376	143	376	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	0	0	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	.		376	143	376	0.0
Okra	0	0	.	0	.	0	-	0.0
Radish	0	0	.	71	7	71	7	0.0
Turmeric	0	0	.	0	.	0	-	0.0
Bitteer	0	0	.	0	.	0	-	0.0
Aubergine	0	0	.	0	.	0	-	0.0
Onion	71	14	6,000,998	0	.	71	-	0.0
Cabbage	0	0	.	71	14	71	14	0.0
Tomatoes	0	0	.	0	.	0	-	0.0
Spinach	0	0	.	143	10	143	10	0.0
Carrot	0	0	.	71	5	71	5	0.0
Chillies	0	0	.	0	.	0	-	0.0
Amaranths	0	0	.	0	.	0	-	0.0
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	0	.	.	0	.	0	-	0.0
FRUITS & VEGETABLES		14	6,000,998		36	429	51	28.6
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS		0	.		.	0	-	0.0
Malay	0	0	.	71	29	71	29	0.0
Total	643	221	37,791,997	47,436	43,907	47,865	44,128	0.5

5.162 : Planted Area & Number of Crop Growing Households by Inorganic Fertilizer use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Arusha

Crop	Inorganic Fertilizer use							% of Planted area using Inorganic Fertilizer
	Number of Households using Inorganic Fertilizer	Planted Area Applied with Inorganic Fertilizer	Cost of Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area Without Inorganic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	0	0	.	2,472	1,979	2,472	1,979	0.0
Paddy	0	0	.	0	.	0	-	0.0
Sorghum	0	0	.	0	.	0	-	0.0
Finger Millet	0	0	.	0	.	0	-	0.0
Wheat	0	0	.	0	.	0	-	0.0
Barley	0	0	.	0	.	0	-	0.0
CEREALS	0	0	.	2,472	1,979	2,472	1,979	0.0
Cassava	0	0	.	0	.	0	-	0.0
Sweet Potato	0	0	.	43	4	43	4	0.0
Irish potatoes	0	0	.	0	.	0	-	0.0
ROOTS & TUBERS	0	0	.	43	4	43	4	0.0
Mung Bean	0	0	.	0	.	0	-	0.0
Beans	0	0	.	2,174	1,386	2,174	1,386	0.0
Cowpeas	0	0	.	213	104	213	104	0.0
Green gram	0	0	.	128	22	128	22	0.0
Chick peas	0	0	.	426	485	426	485	0.0
Field Peas	0	0	.	0	.	0	-	0.0
PULSES	0	0	.	2,941	1,996	2,941	1,996	0.0
Sunflower	0	0	.	43	9	43	9	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	0	0	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS	0	0	.	43	9	43	9	0.0
Okra	0	0	.	0	.	0	-	0.0
Radish	0	0	.	43	9	43	9	0.0
Turmeric	0	0	.	0	.	0	-	0.0
Bitteer	0	0	.	0	.	0	-	0.0
Aubergine	0	0	.	0	.	0	-	0.0
Onion	0	0	.	128	28	128	28	0.0
Cabbage	0	0	.	0	.	0	-	0.0
Tomatoes	0	0	.	0	.	0	-	0.0
Spinach	0	0	.	170	21	170	21	0.0
Carrot	0	0	.	0	.	0	-	0.0
Chillies	0	0	.	85	11	85	11	0.0
Amaranths	0	0	.	85	6	85	6	0.0
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	0	0	.	43	17	43	17	0.0
FRUITS & VEGETABLES	0	0	.	43	92	554	92	0.0
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS	0	0	.	0	.	0	-	0.0
Malay	0	0	.	0	.	0	-	0.0
Total	0	0	.	6,052	4,080	6,052	4,080	0.0

5.163 Planted Area & Number of Crop Growing Households by Inorganic Fertilizer use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Karatu

Crop	Inorganic Fertilizer use							% of Planted area using Inorganic Fertilizer
	Number of Households using Inorganic Fertilizer	Planted Area Applied with Inorganic Fertilizer	Cost of Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area Without Inorganic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	624	242	29,328,766	30,300	19,976	30,924	20,218	1.2
Paddy	89	36	712,945	356	162	446	198	18.2
Sorghum	0	0	.	2,228	507	2,228	507	0.0
Finger Millet	0	0	.	624	135	624	135	0.0
Wheat	178	72	338,649	1,337	985	1,515	1,057	6.8
Barley	0	0	.	356	180	356	180	0.0
CEREALS		350	30,380,360		21,946	36,093	22,296	1.6
Cassava	0	0	.	0	.	0	-	0.0
Sweet Potato	0	0	.	0	.	0	-	0.0
Irish potatoes	0	0	.	0	.	0	-	0.0
ROOTS & TUBERS		0	.		.	0	-	0.0
Mung Bean	0	0	.	0	.	0	-	0.0
Beans	267	108	6,060,031	9,803	3,223	10,070	3,331	3.2
Cowpeas	89	3	891,181	1,426	548	1,515	551	0.5
Green gram	0	0	.	0	0	0	-	0.0
Chick peas	0	0	.	89	36	89	36	0.0
Field Peas	0	0	.	0	.	0	-	0.0
PULSES	356	111	6,951,212	11,318	3,807	11,674	-	0.0
Sunflower	0	0	.	3,476	429	3,476	429	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	0	0	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	.		429	3,476	429	0.0
Okra	0	0	.	0	.	0	-	0.0
Radish	0	0	.	0	.	0	-	0.0
Turmeric	0	0	.	0	.	0	-	0.0
Bitteer	0	0	.	0	.	0	-	0.0
Aubergine	0	0	.	0	.	0	-	0.0
Onion	356	117	58,443,649	89	9	356	126	92.9
Cabbage	0	0	.	0	.	0	-	0.0
Tomatoes	0	0	.	0	.	0	-	0.0
Spinach	178	6	1,782,362	0	.	178	-	0.0
Carrot	0	0	.	0	.	0	-	0.0
Chillies	0	0	.	0	.	0	-	0.0
Amaranths	0	0	.	0	.	0	-	0.0
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	0	0	.	0	.	0	-	0.0
FRUITS & VEGETABLES		123	60,226,011		9	535	132	93.2
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS	0	0	.	0	.	0	-	0.0
Malay	0	0	.	0	.	0	-	0.0
Total	1,782	584	97,557,582	50,084	26,192	51,778	26,776	2.2

5.164 Planted Area & Number of Crop Growing Households by Inorganic Fertilizer use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Ngorongoro

Crop	Inorganic Fertilizer use							% of Planted area using Inorganic Fertilizer
	Number of Households using Inorganic Fertilizer	Planted Area Applied with Inorganic Fertilizer	Cost of Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area Without Inorganic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	0	0	.	10,089	9,049	10,089	9,049	0.0
Paddy	0	0	.	0	.	0	-	0.0
Sorghum	0	0	.	1,492	994	1,492	994	0.0
Finger Millet	0	0	.	0	.	0	-	0.0
Wheat	0	0	.	0	.	0	-	0.0
Barley	0	0	.	0	.	0	-	0.0
CEREALS		0	.		10,043	11,581	10,043	0.0
Cassava	0	0	.	0	.	0	-	0.0
Sweet Potato	0	0	.	71	14	71	14	0.0
Irish potatoes	0	0	.	142	20	142	20	0.0
ROOTS & TUBERS		0	.		35	213	35	0.0
Mung Bean	0	0	.	0	.	0	-	0.0
Beans	0	0	.	6,537	4,258	6,537	4,258	0.0
Cowpeas	0	0	.	71	29	71	29	0.0
Green gram	0	0	.	0	.	0	-	0.0
Chick peas	0	0	.	0	.	0	-	0.0
Field Peas	0	0	.	0	.	0	-	0.0
PULSES	0	0	.	6,608	4,287	6,608	4,287	0.0
Sunflower	0	0	.	71	29	71	29	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	0	0	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	.		29	71	29	0.0
Okra	0	0	.	0	.	0	-	0.0
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
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
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	0	0	.	0	.	0	-	0.0
FRUITS & VEGETABLES		0	.			0	-	0.0
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS	0	0	.	0		0	-	0.0
Malay	0	0	.	0	.	0	-	0.0
Total	0	0	.	18,473	14,393	18,473	14,393	0.0

5.165 Planted Area & Number of Crop Growing Households by Inorganic Fertilizer use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Longido

Crop	Inorganic Fertilizer use							% of Planted area using Inorganic Fertilizer
	Number of Households using Inorganic Fertilizer	Planted Area Applied with Inorganic Fertilizer	Cost of Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area Without Inorganic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	202	155	9,751,101	4,738	3,664	4,912	3,819	4.1
Paddy	0	0	.	29	12	29	12	0.0
Sorghum	0	0	.	0	.	0	-	0.0
Finger Millet	0	0	.	144	94	144	94	0.0
Wheat	29	105	2,166,911	376	491	404	597	17.6
Barley	0	0	.	0	.	0	-	0.0
CEREALS		260	11,918,013		4,261	5,490	4,521	5.8
Cassava	0	0	.	0	.	0	-	0.0
Sweet Potato	0	0	.	0	.	0	-	0.0
Irish potatoes	202	114	15,977,360	173	102	376	216	52.7
ROOTS & TUBERS		114	15,977,360		102	376	216	52.7
Mung Bean	0	0	.	0	.	0	-	0.0
Beans	173	281	4,232,700	3,120	2,000	3,294	2,281	12.3
Cowpeas	0	0	.	0	.	0	-	0.0
Green gram	0	0	.	0	.	0	-	0.0
Chick peas	0	0	.	0	.	0	-	0.0
Field Peas	0	0	.	0	.	0	-	0.0
PULSESES	173	281	4,232,700	3,120	2,000	3,294	2,281	12.3
Sunflower	29	18	2,166,911	87	58	116	76	23.1
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	0	0	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		18	2,166,911		58	116	76	23.1
Okra	0	0	.	0	.	0	-	0.0
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
Cabbage	0	0	.	0	.	0	-	0.0
Tomatoes	87	50	1,863,544	0	.	87	-	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
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	0	0	.	0	.	0	-	0.0
FRUITS & VEGETABLES		50	1,863,544		.	87	-	0.0
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS	0	0	.	0	.	0	-	0.0
Malay	0	0	.	0	.	0	-	0.0
Total	722	722	36,158,528	8,668	6,422	9,361	7,144	10.1

5.166 : Planted Area & Number of Crop Growing Households by Inorganic Fertilizer use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Arusha Rural

Crop	Inorganic Fertilizer use							% of Planted area using Inorganic Fertilizer
	Number of Households using Inorganic Fertilizer	Planted Area Applied with Inorganic Fertilizer	Cost of Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area Without Inorganic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	1,553	664	38,632,474	34,637	15,881	35,593	16,545	4.0
Paddy	0	0	.	0	.	0	-	0.0
Sorghum	0	0	.	0	.	0	-	0.0
Finger Millet	0	0	.	0	.	0	-	0.0
Wheat	0	0	.	1,314	1,018	1,314	1,018	0.0
Barley	0	0	.	0	.	0	-	0.0
CEREALS		664	38,632,474		16,899	36,907	17,563	3.8
Cassava	0	0	.	0	.	0	-	0.0
Sweet Potato	0	0	.	358	94	358	94	0.0
Irish potatoes	597	151	27,470,920	597	134	956	285	53.1
ROOTS & TUBERS		151	27,470,920		228	1,314	379	39.9
Mung Bean	0	0	.	0	.	0	-	0.0
Beans	717	370	12,212,615	31,412	10,188	32,010	10,558	3.5
Cowpeas	0	0	.	1,433	515	1,433	515	0.0
Green gram	0	0	.	3,344	1,179	3,344	1,179	0.0
Chick peas	0	0	.	1,314	551	1,314	551	0.0
Field Peas	0	0	.	119	48	119	48	0.0
PULSES	717	370	12,212,615	37,623	12,481	38,220	12,851	2.9
Sunflower	0	0	.	0	.	0	-	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	0	.	0	-	0.0
Soya Beans	119	12	4,777,551	478	97	597	109	11.1
OIL SEEDS & OIL NUTS		12	4,777,551		97	597	109	11.1
Okra	0	0	.	239	68	239	68	0.0
Radish	119	12	716,633	0	.	119	-	0.0
Turmeric	0	0	.	0	.	0	-	0.0
Bitteer Aubergine	119	48	1,433,265	119	24	239	73	66.7
Onion	0	0	.	119	48	119	48	0.0
Cabbage	358	109	5,404,605	0	.	358	-	0.0
Tomatoes	358	87	11,137,666	0	.	358	-	0.0
Spinach	0	0	.	119	24	119	24	0.0
Carrot	0	0	.	0	.	0	-	0.0
Chillies	0	0	.	0	.	0	-	0.0
Amaranths	0	0	.	597	16	597	16	0.0
Cucumber	0	0	.	0	.	0	-	0.0
Egg Plant	0	0	.	0	.	0	-	0.0
FRUITS & VEGETABLES		256	18,692,169		181	2,150	437	58.6
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS	0	0	.	0	.	0	-	0.0
Malay	0	0	.	0	.	0	-	0.0
Total	3,941	1,454	101,785,730	76,202	29,886	79,188	31,339	4.6

5.167 : Planted Area & Number of Crop Growing Households by Inorganic Fertilizer use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Meru

Crop	Inorganic Fertilizer use							% of Planted area using Inorganic Fertilizer
	Number of Households using Inorganic Fertilizer	Planted Area Applied with Inorganic Fertilizer	Cost of Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area Without Inorganic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	10,615	5,352	599,761,474	28,550	22,771	38,555	28,123	19.0
Paddy	732	210	18,545,425	0	.	732	-	0.0
Sorghum	0	0	.	366	114	366	114	0.0
Finger Millet	0	0	.	610	321	610	321	0.0
Wheat	0	0	.	0	.	0	-	0.0
Barley	0	0	.	0	.	0	-	0.0
CEREALS		5,562	618,306,899		23,205	40,263	28,768	19.3
Cassava	0	0	.	122	20	122	20	0.0
Sweet Potato	0	0	.	366	10	366	10	0.0
Irish potatoes	0	0	.	122	25	122	25	0.0
ROOTS & TUBERS		0	.		54	610	54	0.0
Mung Bean	122	49	5,490,422	0	.	122	-	0.0
Beans	1,098	293	14,787,536	21,840	7,281	22,816	7,573	3.9
Cowpeas	0	0	.	610	67	610	67	0.0
Green gram	0	0	.	488	222	488	222	0.0
Chick peas	0	0	.	122	12	122	12	0.0
Field Peas	0	0	.	0	.	0	-	0.0
PULSES	1,220	0	20,277,958	23,060	7,582	24,158	7,582	0.0
Sunflower	0	0	.	4,148	1,648	4,148	1,648	0.0
Simsim	0	0	.	0	.	0	-	0.0
Groundnut	0	0	.	122	12	122	12	0.0
Soya Beans	0	0	.	0	.	0	-	0.0
OIL SEEDS & OIL NUTS		0	.		1,661	4,270	1,661	0.0
Okra	0	0	.	122	12	122	12	0.0
Radish	0	0	.	0	.	0	-	0.0
Turmeric	0	0	.	122	49	122	49	0.0
Bitter Aubergine	0	0	.	244	35	244	35	0.0
Onion	0	0	.	0	.	0	-	0.0
Cabbage	0	0	.	122	25	122	25	0.0
Tomatoes	732	252	67,044,150	122	25	854	277	91.1
Spinach	0	0	.	0	.	0	-	0.0
Carrot	122	49	15,251,172	0	.	122	-	0.0
Chillies	0	0	.	0	.	0	-	0.0
Amaranths	122	49	5,856,450	0	.	122	-	0.0
Cucumber	244	198	6,344,487	0	.	244	-	0.0
Egg Plant	0	0	.	0	.	0	-	0.0
FRUITS & VEGETABLES		548	94,496,259		146	1,952	694	79.0
Cotton	0	0	.	0	.	0	-	0.0
Tobacco	0	0	.	0	.	0	-	0.0
CASH CROPS	0	0	.	0	.	0	-	0.0
Malay	0	0	.	0	.	0	-	0.0
Total	13,787	6,453	733,081,116	58,198	32,648	71,253	39,101	16.5

PERMANENT CROPS

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

District	Have Crops/Fruit Trees		Does Not Have Crops/Fruit Trees		Total	
	Number	Row N %	Number	Row N %	Number	Row N %
Monduli	1,715	5.9	27,219	94.1	28,933	100.0
Arusha	1,108	43.3	1,449	56.7	2,557	100.0
Karatu	9,268	25.7	26,825	74.3	36,093	100.0
Ngorongoro	142	.5	28,633	99.5	28,776	100.0
Longido	144	1.2	11,499	98.8	11,644	100.0
Arusha Rural	9,316	19.3	39,056	80.7	48,373	100.0
Meru	27,940	56.7	21,352	43.3	49,292	100.0
Total	49,634	24.1	156,033	75.9	205,667	100.0

5.169: Planted Area and Area Harvested by Type of Planting and District

District	Area of Plants/Trees/Bushes in Mono Crop (ha)		Area Covered by Permanent Crop in Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)
	Number of household	Area	Number of household	Area	Number of household	Area	
Monduli	1,429	593	500	296	1,715	889	596
Arusha	298	46	980	431	1,108	477	401
Karatu	5,525	2,055	3,921	1,471	9,268	3,526	3,441
Ngorongoro	71	56	142	28	142	84	84
Longido	87	7	144	34	144	41	36
Arusha Rural	3,105	795	7,405	2,959	9,316	3,754	2,868
Meru	9,639	3,510	20,986	10,521	27,940	14,031	13,262
Total	20,154	7,062	34,079	15,740	49,634	22,802	20,689

5.170: Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop- Monduli

Crop	Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)	Quantity Harvested (kgs)	Yield (tons/Ha)	Yield (Kg/Ha)
	Number of households	Area					
Banana	1,214	540	313	2,470	2,470,196.4	7.9	7,893.8
Coffee	71	28	28	0	0.0	0.0	0.0
Mango	143	42	7	127	127,164.0	18.1	18,084.8
Pigeon pea	429	150	150	43	42,864.3	0.3	286.5
Coconut	71	8	2	2	2,143.2	1.1	1,071.6
Orange	71	32	32	4	4,286.4	0.1	132.2
Avocado	214	53.90	38	160	160,027	4.2	4,245.3
Sugar Cane	71	28	28	0	0.0	0.0	0.0
Lime Lemon	71	7.39	7.39	1	1,429	0.2	193.4
Other	286	61	38	161	161,455.4	4.3	4,283.2
Total	2,358	889	596	2,808	2,808,109.7	4.7	4,712.0

5.171: Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop- Arusha

Crop	Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)	Quantity Harvested (kgs)	Yield (tons/Ha)	Yield (Kg/Ha)
	Number of households	Area					
Cassava	85	6.31	5	11	10,655	2.1	2081.4
Pigeon pea	213	27.18	27	10	9,675	0.4	355.9
Cashewnut	43	16.78	17	1	1,023	0.1	61.0
Coffee	43	1.88	1.88	1	852	0.5	454.3
Sugar Cane	85	35.74	35	43	43,472	1.3	1258.9
Tamarin	43	1.27	1.27	0	426	0.3	336.9
Nutmeg	128	8.75	9	0	341	0.0	39.0
Jack Fruit	213	23.64	19	2	1,875	0.1	98.3
Mpesheni	128	13.48	13	10	10,229	0.8	759.0
Banana	639	131.85	92	474	473,843	5.1	5130.3
Avocado	597	62.45	52	32	32,391	0.6	621.1
Mango	554	53.56	47	22	22,375	0.5	474.3
Papaw	256	21.94	20	6	5,967	0.3	294.0
Orange	213	16.77	16	6	5,754	0.4	351.7
Grape	43	.76	.76	2	2,131	2.8	2797.4
Guava	426	35.25	29	5	5,498	0.2	187.5
Lime Lemon	213	19.46	19	4	3,836	0.2	205.2
Total	3,921	477.04	401	630	630,341	1.6	1570.9

5.172: Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop- Karatu

Crop	Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)	Quantity Harvested (kgs)	Yield (tons/Ha)	Yield (Kg/Ha)
	Number of households	Area					
Banana	535	30	20	77	76,998.0	3.8	3,808.7
Coffee	178	9	9	6	6,060.0	0.7	690.9
Mango	89	1	1	58	57,926.8	43.2	43,194.8
Pigeon pea	8,912	3,457	3,383	2,187	2,186,958.1	0.6	646.4
Avocado	89	17.54	18	0	0.0	0.0	0.0
Guava	178	10.98	10	23	22,725	2.4	2,351.9
Lime Lemon	89	.35	0.35	12	11,585	33.1	33,101.0
Other	356	29	27	34	34,310.5	1.3	1,261.2
Total	10,070	3,526	3,441	2,362	2,362,253.4	0.7	686.5

5.173: Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop- Ngorongoro

Crop	Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)	Quantity Harvested (kgs)	Yield (tons/Ha)	Yield (Kg/Ha)
	Number of households	Area					
Banana	142	50	50	37	36,946.3	0.7	735.7
Papaw	71	34	34	7	7,105.1	0.2	208.9
Total	213	84	84	44	44,051.4	0.5	523.0

5.174: Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop- Longido

Crop	Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)	Quantity Harvested (kgs)	Yield (tons/Ha)	Yield (Kg/Ha)
	Number of households	Area					
Banana	116	19	15	36	36,375.2	2.4	2,372.2
Mango	29	1	1	23	23,373.8	25.7	25,685.8
Pigeon pea	29	15	15	6	5,778.4	0.4	395.4
Orange	29	1	1	17	17,335.3	12.7	12,700.0
Nutmeg	29	.80	1	1	867	1.1	1,088.6
Mpesheni	29	1.02	1	1	1,156	1.1	1,128.9
Avocado	58	2.59	1	12	11,672	15.7	15,690.5
Papaw	29	.68	1	1	867	1.3	1,270.0
Mandarine tangerine	29	.45	0	17	17,335	38.1	38,100.0
Total	376	41	36	115	114,759.6	3.2	3,194.6

5.175: Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop- Arusha Rural

Crop	Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)	Quantity Harvested (kgs)	Yield (tons/Ha)	Yield (Kg/Ha)
	Number of households	Area					
Cassava	239	61.41	61	54	53,747	0.9	875.3
Pigeon pea	358	450.43	421	105	104,987	0.2	249.5
Sisal	119	35.27	35	31	31,054	0.9	880.5
Coffee	2,389	483.35	406.24	415	415,289	1.0	1022.3
Mpesheni	119	1.54	2	12	11,944	7.8	7767.6
Banana	8,600	2179.62	1712.22	16037	16,036,568	9.4	9366.0
Avocado	1,792	466.98	164	1,090	1,089,998	6.7	6665.5
Mango	358	35.89	30	36	35,832	1.2	1176.0
Papaw	119	4.52	2	4	3,583	1.5	1500.0
Orange	239	17.35	17	45	45,387	2.6	2649.5
Guava	358	17.43	17	57	57,331	3.3	3289.3
Total	14,691	3,754	2,868	17,886	17,885,719	6.2	6,235

5.176: Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop- Meru

Crop	Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)	Quantity Harvested (kgs)	Yield (tons/Ha)	Yield (Kg/Ha)
	Number of households	Area					
Cassava	1,342	366.88	367	1,339	1,339,419	3.7	3650.8
Pigeon pea	4,514	1339.12	1,339	1,112	1,111,505	0.8	830.0
Star Fruit	244	28.01	24	85	85,407	3.5	3533.4
Coconut	244	36.86	36	59	58,564	1.6	1618.7
Coffee	13,055	4923.88	4,601	7,175	7,175,493	1.6	1559.6
Sugar Cane	122	4.68	5	0	0	0.0	0.0
Banana	20,986	5989.24	5,906	40,520	40,520,411	6.9	6861.0
Avocado	5,856	848.08	593	2,610	2,609,536	4.4	4399.7
Mango	2,074	147.36	111	801	800,503	7.2	7195.6
Papaw	2,318	170.99	114	1,130	1,129,929	9.9	9890.2
Orange	1,952	142.83	137	1,223	1,223,266	8.9	8919.8
Guava	732	22.00	19	275	274,643	14.8	14835.3
Lime Lemon	366	11.12	10	87.846	87,847	8.8	8834.8
Total	53,806	14031.04	13,262	56416	56,416,524	4.3	4254.0

5.177: Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District - ARUSHA

District	Cashew nut								Banana							
	Area of Permanent Monocrop (ha)		Area of Permanent Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area Harvested (ha)	Quantity Harvested (kgs)	Area of Permanent Monocrop (ha)		Area of Permanent Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area Harvested (ha)	Quantity Harvested (kgs)
	Number of Household	Area	Number of Household	Area	Number of Household	Area			Number of Household	Area	Number of Household	Area	Number of Household	Area		
Monduli	0	.	0	.	0	.	.	.	929	330	500	210	1,214	540	313	2,470,196
Arusha	43	17	43	0	43	17	17	1,023	85	6	639	126	639	132	92	473,843
Karatu	0	.	0	.	0	.	.	.	178	9	446	21	535	30	20	76,998
Ngorongoro	0	.	0	.	0	.	.	.	71	28	142	22	142	50	50	36,946
Longido	0	.	0	.	0	.	.	.	87	7	116	11	116	19	15	36,375
Arusha Rural	0	.	0	.	0	.	.	.	2,747	496	6,689	1,684	8,600	2,180	1,712	16,036,568
Meru	0	.	0	.	0	.	.	.	6,711	2,338	16,593	3,651	20,986	5,989	5,906	40,520,411
Total	43	17	43	0	43	17	17	1,023	10,808	3,215	25,124	5,724	32,231	8,939	8,109	59,651,337

5.178: Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District - ARUSHA

District	Coffee								Mango							
	Area of Permanent Monocrop (ha)		Area of Permanent Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area Harvested (ha)	Quantity Harvested (kgs)	Area of Permanent Monocrop (ha)		Area of Permanent Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area Harvested (ha)	Quantity Harvested (kgs)
	Number of Household	Area	Number of Household	Area	Number of Household	Area			Number of Household	Area	Number of Household	Area	Number of Household	Area		
Monduli	71	28	0	0	71	28	28	0	0	0	143	42	143	42	7	127,164
Arusha	0	0	43	2	43	2	.	852	43	2	554	51	554	54	47	22,375
Karatu	0	0	178	9	178	9	9	6,060	89	0	89	1	89	1	1	57,927
Ngorongoro	0	.	0	.	0	.	.	.	0	.	0	.	0	.	.	.
Longido	0	.	0	.	0	.	.	.	0	0	29	1	29	1	1	23,374
Arusha Rural	239	59	2,389	425	2,389	483	406	415,289	0	0	358	36	358	36	30	35,832
Meru	2,196	533	11,957	4,391	13,055	4,924	4,601	7,175,493	0	0	2,074	147	2,074	147	111	800,503
Total	2,506	620	14,567	4,827	15,736	5,447	5,044	7,597,694	132	3	3,247	278	3,247	281	198	1,067,175

5.179: Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District - ARUSHA

District	Pigeon pea								Coconut							
	Area of Permanent Monocrop (ha)		Area of Permanent Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area Harvested (ha)	Quantity Harvested (kgs)	Area of Permanent Monocrop (ha)		Area of Permanent Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area Harvested (ha)	Quantity Harvested (kgs)
	Number of Household	Area	Number of Household	Area	Number of Household	Area			Number of Household	Area	Number of Household	Area	Number of Household	Area		
Monduli	429	150	0	0	429	150	150	42,864	71	0	71	8	71	8	.	2,143
Arusha	170	19	43	8	213	27	27	9,675	0	.	0	.	0	.	.	.
Karatu	5,347	2,020	3,565	1,437	8,912	3,457	3,383	2,186,958	0	.	0	.	0	.	.	.
Ngorongoro	0	.	0	.	0	.	.	.	0	.	0	.	0	.	.	.
Longido	0	0	29	15	29	15	15	5,778	0	.	0	.	0	.	.	.
Arusha Rural	239	212	239	239	358	450	421	104,987	0	.	0	.	0	.	.	.
Meru	1,830	545	2,806	794	4,514	1,339	1,339	1,111,505	244	0	244	37	244	37	36	58,564
Total	8,015	2,945	6,681	2,493	14,455	5,438	5,335	3,461,768	315	0	315	44	315	44	36	60,708

5.180: Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District - ARUSHA

District	Orange								Sisal							
	Area of Permanent Monocrop (ha)		Area of Permanent Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area Harvested (ha)	Quantity Harvested (kgs)	Area of Permanent Monocrop (ha)		Area of Permanent Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area Harvested (ha)	Quantity Harvested (kgs)
	Number of Household	Area	Number of Household	Area	Number of Household	Area			Number of Household	Area	Number of Household	Area	Number of Household	Area		
Monduli	71	28	71	4	71	32	32	4,286	0	.	0	.	0	.	.	.
Arusha	0	0	213	17	213	17	16	5,754	0	.	0	.	0	.	.	.
Karatu	0	.	0	.	0	.	.	.	0	.	0	.	0	.	.	.
Ngorongoro	0	.	0	.	0	.	.	.	0	.	0	.	0	.	.	.
Longido	0	0	29	1	29	1	1	17,335	0	.	0	.	0	.	.	.
Arusha Rural	0	0	239	17	239	17	17	45,387	0	0	119	35	119	35	35	31,054
Meru	0	0	1,952	143	1,952	143	137	1,223,266	0	.	0	.	0	.	.	.
Total	71	28	2,504	183	2,504	211	204	1,296,028	0	0	119	35	119	35	35	31,054

5.181: Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District - ARUSHA

District	Sugar cane								Other							
	Area of Permanent Monocrop (ha)		Area of Permanent Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area Harvested (ha)	Quantity Harvested (kgs)	Area of Permanent Monocrop (ha)		Area of Permanent Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area Harvested (ha)	Quantity Harvested (kgs)
	Number of Household	Area	Number of Household	Area	Number of Household	Area			Number of Household	Area	Number of Household	Area	Number of Household	Area		
Monduli	71	28	0	0	71	28	28	0	286	28	286	33	286	61	38	161,455
Arusha	0	0	85	36	85	36	35	43,472	2,131	2	2,131	191	2,131	193	167	73,348
Karatu	0	.	0	.	0	.	.	.	356	26	356	3	356	29	27	34,310
Ngorongoro	0	.	0	.	0	.	.	.	71	28	71	6	71	34	34	7,105
Longido	0	.	0	.	0	.	.	.	173	0	173	5	173	6	4	31,897
Arusha Rural	0	.	0	.	0	.	.	.	2,628	28	2,628	524	2,628	552	246	1,216,603
Meru	0	0	122	5	122	5	5	0	10,859	94	10,859	1,353	10,859	1,447	1,127	5,526,781
Total	71	28	207	40	279	69	67	43,472	16,504	207	16,504	2,115	16,504	2,322	1,643	7,051,500

ACCESS TO AGRICULTURAL EQUIPMENTS

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

District	Equipment/Asset Name												Total number of Agricultural Households
	Sword		Hand Hoe		Hand Sprayer		Grater, Chiper, Oil Press na Oil Mill		Oxplough		Oxplanter		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Monduli	28,076	24.0	25,933	22.1	6,644	5.7	357	0.3	10,287	8.8	500	0.4	28,933
Arusha	2,515	25.9	2,387	24.6	1,108	11.4	0	0.0	938	9.6	43	0.4	2,557
Karatu	32,261	28.9	33,330	29.8	5,080	4.5	178	0.2	7,932	7.1	624	0.6	36,093
Ngorongoro	18,757	29.7	16,342	25.9	6,608	10.5	213	0.3	6,252	9.9	0	0.0	28,776
Longido	9,477	27.0	8,639	24.6	2,080	5.9	202	0.6	2,109	6.0	29	0.1	11,644
Arusha Rural	47,178	30.1	47,656	30.4	9,077	5.8	478	0.3	8,002	5.1	717	0.5	48,253
Meru	48,438	28.5	48,926	28.7	24,890	14.6	854	0.5	12,445	7.3	366	0.2	49,292
Total	186,701	28.1	183,212	27.6	55,487	8.4	2,283	0.3	47,966	7.2	2,278	0.3	205,547

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

District	Equipment/Asset Name												Total number of Agricultural Households
	Ox cart		Trekta		Tractor plough		Tractor Harrow		Castrated bulls		Uncastrated bulls		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Monduli	1,072	.9	572	.5	500	.4	1,214	1.0	10,073	8.6	10,359	8.8	28,933
Arusha	256	2.6	85	.9	85	.9	43	.4	1,023	10.5	554	5.7	2,557
Karatu	3,743	3.3	1,426	1.3	1,515	1.4	891	.8	6,327	5.7	5,704	5.1	36,093
Ngorongoro	639	1.0	142	.2	71	.1	568	.9	5,755	9.1	2,060	3.3	28,776
Longido	347	1.0	144	.4	58	.2	231	.7	2,774	7.9	2,398	6.8	11,644
Arusha Rural	2,030	1.3	1,314	.8	956	.6	717	.5	8,600	5.5	7,644	4.9	48,253
Meru	3,416	2.0	244	.1	244	.1	610	.4	9,151	5.4	5,978	3.5	49,292
Total	11,503	1.7	3,927	.6	3,429	.5	4,275	.6	43,702	6.6	34,698	5.2	205,547

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

District	Equipment/Asset Name										Total number of Agricultural Households
	Cow		Donkey		Thrasher		Power tiller		Rigder		
	Number	%	Number	%	Number	%	Number	%	Number	%	
Monduli	10,716	9.1	10,073	8.6	286	.2	143	.1	357	.3	28,933
Arusha	128	1.3	511	5.3	43	.4	0	.0	0	.0	2,557
Karatu	7,575	6.8	4,456	4.0	356	.3	267	.2	89	.1	36,093
Ngorongoro	2,132	3.4	3,410	5.4	142	.2	71	.1	0	.0	28,776
Longido	3,612	10.3	2,571	7.3	144	.4	87	.2	231	.7	11,644
Arusha Rural	13,735	8.8	7,047	4.5	1,075	.7	119	.1	239	.2	48,253
Meru	7,687	4.5	5,368	3.2	1,342	.8	122	.1	122	.1	49,292
Total	45,584	6.9	33,438	5.0	3,388	.5	809	.1	1,038	.2	205,547

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

District	Equipment/Asset Name											
	Sword		Hand Hoe		Hand Sprayer		Grater, Chipper, Oil Press na Oil Mill		Oxplough		Oxplanter	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Monduli	49,508	13.1	73,155	19.4	6,930	1.8	3,786	1.0	12,073	3.2	8,430	2.2
Arusha	5,200	23.7	7,075	32.3	1,193	5.4	.	.	1,449	6.6	170	0.8
Karatu	59,976	22.2	96,337	35.7	5,704	2.1	2,139	0.8	11,140	4.1	2,317	0.9
Ngorongoro	34,957	21.2	43,270	26.2	9,379	5.7	1,705	1.0	8,455	5.1	.	.
Longido	17,595	15.9	24,529	22.2	3,005	2.7	1,676	1.5	2,745	2.5	29	0.0
Arusha Rural	88,146	26.6	129,949	39.2	10,272	3.1	956	0.3	9,436	2.8	836	0.3
Meru	97,974	27.0	150,194	41.3	26,964	7.4	2,074	0.6	15,007	4.1	366	0.1
Total	353,356	21.6	524,509	32.0	63,446	3.9	12,336	0.8	60,305	3.7	12,149	0.7

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

District	Equipment/Asset Name											
	Ox cart		Treкта		Tractor plough		Tractor Harrow		Castrated bulls		Uncastrated bulls	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Monduli	6,573	1.7	572	.2	500	.1	5,072	1.3	38,364	10.2	40,221	10.7
Arusha	256	1.2	85	.4	85	.4	170	.8	3,452	15.8	1,236	5.6
Karatu	6,417	2.4	1,426	.5	1,515	.6	3,832	1.4	19,071	7.1	14,526	5.4
Ngorongoro	2,487	1.5	1,492	.9	71	.0	5,968	3.6	21,102	12.8	5,187	3.1
Longido	404	.4	1,300	1.2	1,185	1.1	780	.7	8,090	7.3	7,743	7.0
Arusha Rural	2,269	.7	1,553	.5	1,075	.3	2,030	.6	21,141	6.4	15,049	4.5
Meru	10,981	3.0	366	.1	366	.1	976	.3	19,399	5.3	10,981	3.0
Total	29,386	1.8	6,794	.4	4,797	.3	18,830	1.1	130,619	8.0	94,943	5.8

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

District	Equipment/Asset Name									
	Cow		Donkey		Thrasher		Power tiller		Rigder	
	Number	%	Number	%	Number	%	Number	%	Number	%
Monduli	76,727	20.4	45,293	12.0	6,001	1.6	3,286	.9	429	.1
Arusha	341	1.6	1,151	5.3	43	.2	.	.	.	.
Karatu	24,597	9.1	13,992	5.2	3,030	1.1	3,743	1.4	89	.0
Ngorongoro	16,839	10.2	13,571	8.2	284	.2	213	.1	.	.
Longido	28,343	25.6	7,685	6.9	1,849	1.7	2,600	2.4	1,069	1.0
Arusha Rural	34,279	10.3	12,422	3.7	1,553	.5	119	.0	358	.1
Meru	14,031	3.9	9,517	2.6	1,464	.4	2,684	.7	122	.0
Total	195,157	11.9	103,630	6.3	14,224	.9	12,646	.8	2,067	.1

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

District	Oxen		Bulls		Cows		Donkeys		Tractor		Power Tiller	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Monduli	15,288	53.0	5,501	19.1	429	1.5	3,000	10.4	4,501	15.6	143	0.5
Arusha	1,492	43.2	384	11.1	0	0.0	469	13.6	1,108	32.1	0	0.0
Karatu	13,368	50.8	5,258	20.0	980	3.7	1,782	6.8	4,456	16.9	446	1.7
Ngorongoro	6,039	72.0	639	7.6	0	0.0	1,350	16.1	355	4.2	0	0.0
Longido	3,034	53.8	636	11.3	693	12.3	636	11.3	636	11.3	0	0.0
Arusha Rural	16,244	56.4	3,464	12.0	717	2.5	1,314	4.6	6,927	24.1	119	0.4
Meru	18,057	60.4	6,344	21.2	366	1.2	1,464	4.9	3,416	11.4	244	0.8
Total	73,522	56.0	22,226	16.9	3,185	2.4	10,015	7.6	21,399	16.3	952	0.7

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

District	Oxen		Bulls		Cows		Donkeys		Tractor		Power Tiller	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Monduli	36,792	22.60	21,432	13.16	74,441	45.72	29,076	17.86	1,072	0.66	.	.
Arusha	3,452	57.45	1,023	17.02	426	7.09	980	16.31	128	2.13	.	.
Karatu	17,824	36.56	11,853	24.31	11,051	22.67	4,634	9.51	1,604	3.29	1,782	3.66
Ngorongoro	34,673	69.22	2,558	5.11	4,831	9.65	7,460	14.89	568	1.13	.	.
Longido	8,032	20.07	3,958	9.89	23,172	57.91	4,045	10.11	173	0.43	636	1.59
Arusha Rural	21,260	25.11	12,661	14.95	35,712	42.17	13,735	16.22	1,314	1.55	.	.
Meru	17,203	38.42	9,639	21.53	8,053	17.98	4,148	9.26	5,246	11.72	488	1.09
Total	139,236	31.85	63,123	14.44	157,686	36.07	64,080	14.66	10,106	2.31	2,906	0.66

IRRIGATION

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

District	Households practicing irrigation		Households not practicing irrigation		Total Number of Households	
	Number	%	Number	%	Number	%
Monduli	3,000	10	25,933	90	28,933	100
Karatu	2,406	7	33,687	93	36,093	100
Ngorongoro	853	3	27,923	97	28,776	100
Longido	433	4	11,210	96	11,644	100
Arusha Rural	4,419	9	43,953	91	48,373	100
Meru	10,005	20	39,287	80	49,292	100
Total	21,372	10	184,295	90	205,667	100

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

District	Main Source of Irrigation Water							Total
	River	Borehole	Lake	Canal	Dam	Tap Water	Well	
Monduli	2,643	71	0	0	0	286	0	3,000
Karatu	535	0	0	0	0	1,782	89	2,406
Ngorongoro	568	0	0	0	0	284	0	853
Longido	404	0	0	0	0	0	29	433
Arusha Rural	1,314	0	0	0	119	2,150	478	4,061
Meru	7,443	0	0	0	0	2,562	0	10,005
Total	12,907	71	0	0	119	7,320	596	21,014

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

District	Main method of Obtaining Water					Total
	Gravity	Hand bucket	Hand pump	motor pump	Other	
Monduli	3,000	0	0	0	0	3,000
Karatu	2,317	89	0	0	0	2,406
Ngorongoro	853	0	0	0	0	853
Longido	404	0	0	29	0	433
Arusha Rural	4,061	0	0	0	0	4,061
Meru	10,005	0	0	0	0	10,005
Total	20,896	89	0	29	0	21,014

AGRICULTURE CREDIT

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

District	Households Receiving Credit					
	borrowed money for agriculture		Did not borrow money for agriculture		Total	
	Number	%	Number	%	Number	%
Monduli	714	2.5	28,219	97.5	28,933	100.0
Arusha	298	11.7	2,259	88.3	2,557	100.0
Karatu	713	2.0	35,380	98.0	36,093	100.0
Ngorongoro	639	2.2	28,136	97.8	28,776	100.0
Longido	29	.2	11,615	99.8	11,644	100.0
Arusha Rural	119	.2	48,253	99.8	48,373	100.0
Meru	1,220	2.5	48,072	97.5	49,292	100.0
Total	3,734	1.8	201,933	98.2	205,667	100.0

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

Region	Male		Female		Total	
	Number	%	Number	%	Number	%
Monduli	357	50	357	50	714	100
Arusha	85	29	213	71	298	100
Karatu	535	75	178	25	713	100
Ngorongoro	568	89	71	11	639	100
Longido	0	0	29	100	29	100
Arusha Rural	119	100	0	0	119	100
Meru	610	50	610	50	1,220	100
Total	2,275	61	1,459	39	3,734	100

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

District	Family, friend or relative		Bank		Cooperative		Savings & credit Soc		Private individual		Trader/trade store		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Monduli	71	10.0	214	30.0	0	0.0	143	20.0	143	20.0	0	0	714	100
Arusha	0	0.0	85	28.6	43	14.3	85	28.6	43	14.3	0	0	298	100
Karatu	267	37.5	178	25.0	89	12.5	89	12.5	0	0.0	0	0	713	100
Ngorongoro	142	22.2	142	22.2	0	0.0	0	0.0	0	0.0	0	0	639	100
Longido	29	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0	29	100
Arusha Rural	119	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0	119	100
Meru	122	10.0	488	40.0	0	0.0	244	20.0	122	10.0	0	0	1,220	100
Total	751	20.1	1,108	29.7	132	3.5	561	15.0	308	8.2	0	0	3,734	100

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

District	Not needed		Not available		Did not want to go into debt		Interest rate/cost too high		Did not know how to get credit		Difficult bureaucratic procedure		Credit granted too late		Other (specify)		Dont know about credit		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Monduli	2,500	8.9	1,786	6.3	3,501	12.4	857	3.0	8,859	31.4	1,572	5.6	214	0.8	429	1.5	8,501	30.1	28,219	100
Arusha	256	11.3	43	1.9	213	9.4	0	0.0	1,620	71.7	0	0.0	43	1.9	0	0.0	85	3.8	2,259	100
Karatu	3,386	9.6	12,387	35.0	4,723	13.4	802	2.3	7,129	20.2	535	1.5	89	0.3	178	0.5	6,149	17.4	35,380	100
Ngorongoro	1,847	6.6	6,466	23.0	3,339	11.9	71	0.3	9,663	34.3	782	2.8	142	0.5	142	0.5	5,684	20.2	28,136	100
Longido	578	5.0	3,438	29.6	1,213	10.4	58	0.5	3,149	27.1	58	0.5	58	0.5	0	0.0	3,063	26.4	11,615	100
Arusha Rural	7,166	14.9	3,225	6.7	11,944	24.8	1,792	3.7	15,288	31.7	1,194	2.5	358	0.7	0	0.0	7,286	15.1	48,253	100
Meru	6,466	13.5	6,466	13.5	5,246	10.9	3,538	7.4	16,959	35.3	244	0.5	610	1.3	122	0.3	8,419	17.5	48,072	100
Total	22,201	11.0	33,811	16.7	30,180	14.9	7,118	3.5	62,667	31.0	4,384	2.2	1,514	0.7	871	0.4	39,187	19.4	201,933	100

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

District	Family, friend or relative		Bank		Savings & credit Soc		Cooperative		Savings & credit Soc		Trader/trade store		Private individual		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Monduli	0	0.0	71	100.0	0	0	0	0	0	0	0	0	0	0	71	100
Arusha	89	50.0	89	50.0	0	0	0	0	0	0	0	0	0	0	178	100
Karatu	0	0.0	71	100.0	0	0	0	0	0	0	0	0	0	0	71	100
Ngorongoro	0	0.0	29	100.0	0	0	0	0	0	0	0	0	0	0	29	100
Longido	0	0.0	239	100.0	0	0	0	0	0	0	0	0	0	0	239	100
Arusha Rural	122	100	0	0.0	0	0	0	0	0	0	0	0	0	0	122	100
Meru	211	29.7	499	70.3	0	0	0	0	0	0	0	0	0	0	711	100
Total	422	29.7	999	70.3	0	0	0	0	0	0	0	0	0	0	1,421	100

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

District	Family, friend or relative		Bank		Savings & credit Soc		Cooperative		Savings & credit Soc		Trader/trade store		Private individual		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Monduli	0	0	143	100	0	0	0	0	0	0	0	0	0	0.0	143	8.0
Arusha	89	33	178	67	0	0	0	0	0	0	0	0	0	0.0	267	15.0
Karatu	0	0	71	100	0	0	0	0	0	0	0	0	0	0.0	71	4.0
Ngorongoro	29	17	144	83	0	0	0	0	0	0	0	0	0	0.0	173	9.7
Longido	119	50	119	50	0	0	0	0	0	0	0	0	0	0.0	239	13.4
Arusha Rural	0	0	0	0	0	0	0	0	0	0	0	0	122	0.0	0	0.0
Meru	237	27	656	73	0	0	0	0	0	0	0	0	122	0.0	894	50.0
Total	475	27	1,312	73	0	0	0	0	0	0	0	0	244	0	1,787	100.0

7.7: Provision of credit A by sex and District During the 2007/08 Agriculture Year

District	Male		Female		Total	
	Number	%	Number	%	Number	%
Monduli	357	50	357	50	714	100
Arusha	85	29	213	71	298	100
Karatu	535	75	178	25	713	100
Ngorongoro	568	89	71	11	639	100
Longido	0	0	29	100	29	100
Arusha Rural	119	100	0	0	119	100
Meru	610	50	610	50	1,220	100
Total	2,275	61	1,459	39	3,734	100

7.8 : Provision of credit B by sex and District During the 2007/08 Agriculture Year

District	Male		Female		Total	
	Number	%	Number	%	Number	%
Monduli	0	0	143	100	143	100
Arusha	0	0	0	0	0	0
Karatu	0	0	178	100	178	100
Ngorongoro	0	0	0	0	0	0
Longido	0	0	178	100	178	100
Arusha Rural	119	100	0	0	119	100
Meru	0	0	122	100	122	100
Total	119	18	530	82	649	100

CROP EXTENSION

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

District	Households that received Crop Advices		Households that did NOT receive Crop advices		Crop Growing Households
	Number	%	Number	%	
Monduli	18,789	77.1	5,572	22.9	24,361
Arusha	2,174	85.0	384	15.0	2,557
Karatu	26,290	77.8	7,486	22.2	33,776
Ngorongoro	7,176	66.0	3,695	34.0	10,871
Longido	5,143	75.1	1,705	24.9	6,847
Arusha Rural	40,370	86.4	6,330	13.6	46,701
Meru	39,043	80.4	9,517	19.6	48,560
Total	138,984	80.0	34,688	20.0	173,673

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

Region	Number of Households Participated in Out Grower Agreement		Number of Households NOT Participated in Out Grower Agreement		Total Number of Households	
	Number	%	Number	%	Number	%
Monduli	143	0.5	28,791	99.5	28,933	100
Arusha	0	0.0	2,557	100.0	2,557	100
Karatu	713	2.0	35,380	98.0	36,093	100
Ngorongoro	71	0.2	28,704	99.8	28,776	100
Longido	144	1.2	11,499	98.8	11,644	100
Arusha Rural	956	2.0	47,417	98.0	48,373	100
Meru	5,734	11.6	43,557	88.4	49,292	100
Total	7,761	3.8	197,906	96.2	205,667	100

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

District	Number of Hholds Participated in Production Agreement		Number of Hholds NOT Participated in Production Agreement		Total Number of Households	
	Number	%	Number	%	Number	%
Monduli	429	1.5	28,505	98.5	28,933	100
Arusha	0	0.0	2,557	100.0	2,557	100
Karatu	1,248	3.5	34,845	96.5	36,093	100
Ngorongoro	142	0.5	28,633	99.5	28,776	100
Longido	87	0.7	11,557	99.3	11,644	100
Arusha Rural	956	2.0	47,417	98.0	48,373	100
Meru	976	2.0	48,316	98.0	49,292	100
Total	3,837	1.9	201,830	98.1	205,667	100

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

District	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		Total Households that received advices	%
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%		
Monduli	18,146	85.8	3,072	3.8	0	0.0	214	0.2	1,572	1.9	4,787	8.3	71	0.1	18,789	100
Arusha	1,534	56.3	85	0.7	43	0.3	1,065	20.0	298	3.7	1,023	17.0	256	2.0	2,174	100
Karatu	25,131	86.6	2,050	2.1	1,337	2.1	2,050	2.4	2,406	2.2	4,010	4.4	267	0.2	26,290	100
Ngorongoro	6,892	88.0	497	3.1	0	0.0	213	1.0	284	1.7	782	6.2	0	0.0	7,176	100
Longido	4,449	79.2	404	1.7	29	0.1	289	2.0	491	3.0	2,051	13.5	144	0.5	5,143	100
Arusha Rural	38,459	84.0	11,586	8.1	1,075	0.4	1,433	1.1	4,061	2.5	5,733	3.6	478	0.2	40,370	100
Meru	38,311	82.7	13,177	7.3	244	0.1	1,098	0.4	9,883	4.6	8,053	4.7	732	0.2	39,043	100
Total	132,923	83.9	30,871	5.7	2,727	0.5	6,363	1.3	18,995	3.1	26,438	5.3	1,949	0.2	138,984	100

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

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Monduli	14,502	95.3	286	1.9	0	0.0	0	0.0	214	1.4	214	1.4	0	0.0	15,217
Arusha	938	53.7	0	0.0	0	0.0	426	24.4	128	7.3	213	12.2	43	2.4	1,747
Karatu	20,675	87.9	267	1.1	446	1.9	267	1.1	356	1.5	1,426	6.1	89	0.4	23,527
Ngorongoro	5,400	91.6	142	2.4	0	0.0	0	0.0	142	2.4	213	3.6	0	0.0	5,897
Longido	3,380	80.1	58	1.4	0	0.0	173	4.1	58	1.4	549	13.0	0	0.0	4,218
Arusha Rural	30,337	92.0	1,194	3.6	119	0.4	119	0.4	478	1.4	717	2.2	0	0.0	32,965
Meru	32,699	91.2	1,586	4.4	122	0.3	0	0.0	366	1.0	976	2.7	122	0.3	35,871
Total	107,932	90.4	3,534	3.0	687	0.6	986	0.8	1,742	1.5	4,308	3.6	254	0.2	119,443

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

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Monduli	10,859	93.8	429	3.7	0	0.0	0	0.0	71	0.6	214	1.9	0	0.0	11,573
Arusha	469	57.9	43	5.3	0	0.0	85	10.5	43	5.3	170	21.1	0	0.0	810
Karatu	13,100	88.6	267	1.8	267	1.8	446	3.0	267	1.8	446	3.0	0	0.0	14,794
Ngorongoro	3,197	93.8	0	0.0	0	0.0	0	0.0	0	0.0	213	6.3	0	0.0	3,410
Longido	2,254	77.2	58	2.0	0	0.0	29	1.0	29	1.0	491	16.8	58	2.0	2,918
Arusha Rural	15,646	87.9	956	5.4	119	0.7	239	1.3	358	2.0	358	2.0	119	0.7	17,796
Meru	28,184	92.4	1,220	4.0	122	0.4	244	0.8	122	0.4	488	1.6	122	0.4	30,502
Total	73,710	90.1	2,972	3.6	509	0.6	1,043	1.3	891	1.1	2,381	2.9	299	0.4	81,804

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

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Monduli	12,359	94.5	286	2.2	0	0.0	71	0.5	214	1.6	143	1.1	0	0.0	13,074
Arusha	810	67.9	0	0.0	0	0.0	128	10.7	0	0.0	213	17.9	43	3.6	1,193
Karatu	17,289	86.6	891	4.5	446	2.2	178	0.9	446	2.2	713	3.6	0	0.0	19,962
Ngorongoro	1,918	87.1	213	9.7	0	0.0	0	0.0	0	0.0	71	3.2	0	0.0	2,203
Longido	1,647	79.2	29	1.4	0	0.0	0	0.0	87	4.2	318	15.3	0	0.0	2,080
Arusha Rural	18,871	82.7	3,105	13.6	0	0.0	119	0.5	358	1.6	358	1.6	0	0.0	22,813
Meru	23,792	85.2	3,050	10.9	0	0.0	122	0.4	244	0.9	732	2.6	0	0.0	27,940
Total	76,686	85.9	7,575	8.5	446	0.5	619	0.7	1,349	1.5	2,548	2.9	43	0.0	89,265

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

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Monduli	10,287	86.7	357	3.0	0	0.0	71	0.6	143	1.2	1,000	8.4	0	0.0	11,859
Arusha	767	50.0	0	0.0	43	2.8	341	22.2	43	2.8	298	19.4	43	2.8	1,534
Karatu	15,061	87.1	89	0.5	356	2.1	446	2.6	267	1.5	1,069	6.2	0	0.0	17,289
Ngorongoro	2,487	87.5	213	7.5	0	0.0	0	0.0	71	2.5	71	2.5	0	0.0	2,842
Longido	1,849	82.1	58	2.6	29	1.3	29	1.3	116	5.1	173	7.7	0	0.0	2,254
Arusha Rural	22,335	72.5	4,658	15.1	0	0.0	597	1.9	1,194	3.9	2,030	6.6	0	0.0	30,815
Meru	25,622	78.1	2,928	8.9	0	0.0	122	0.4	1,342	4.1	2,806	8.6	0	0.0	32,821
Total	78,408	78.9	8,304	8.4	428	0.4	1,606	1.6	3,176	3.2	7,449	7.5	43	0.0	99,414

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

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Monduli	7,073	77.3	286	3.1	0	0.0	0	0.0	357	3.9	1,429	15.6	0	0.0	9,144
Arusha	767	81.8	0	0.0	0	0.0	0	0.0	0	0.0	170	18.2	0	0.0	938
Karatu	10,872	84.7	356	2.8	89	0.7	535	4.2	535	4.2	446	3.5	0	0.0	12,833
Ngorongoro	1,279	90.0	71	5.0	0	0.0	0	0.0	0	0.0	71	5.0	0	0.0	1,421
Longido	2,022	92.1	58	2.6	0	0.0	0	0.0	29	1.3	87	3.9	0	0.0	2,196
Arusha Rural	17,438	83.4	1,194	5.7	119	0.6	239	1.1	836	4.0	1,075	5.1	0	0.0	20,902
Meru	25,622	82.4	2,074	6.7	0	0.0	244	0.8	1,952	6.3	1,220	3.9	0	0.0	31,112
Total	65,074	82.8	4,040	5.1	209	0.3	1,018	1.3	3,709	4.7	4,498	5.7	0	0.0	78,546

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

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Monduli	8,930	79.6	643	5.7	0	0.0	0	0.0	429	3.8	1,214	10.8	0	0.0	11,216
Arusha	1,236	67.4	0	0.0	0	0.0	213	11.6	0	0.0	298	16.3	85	4.7	1,833
Karatu	18,982	88.0	535	2.5	446	2.1	356	1.7	446	2.1	713	3.3	89	0.4	21,567
Ngorongoro	3,908	94.8	142	3.4	0	0.0	0	0.0	0	0.0	71	1.7	0	0.0	4,121
Longido	2,947	87.9	0	0.0	0	0.0	116	3.4	116	3.4	173	5.2	0	0.0	3,351
Arusha Rural	27,949	88.6	1,314	4.2	119	0.4	478	1.5	836	2.7	836	2.7	0	0.0	31,532
Meru	28,062	85.5	1,708	5.2	0	0.0	0	0.0	2,074	6.3	976	3.0	0	0.0	32,821
Total	92,014	86.4	4,342	4.1	565	0.5	1,163	1.1	3,900	3.7	4,282	4.0	174	0.2	106,440

8.11: Number of households receiving extension advice on Mechanization and Labor Saving Technologies by District during the 2007/08 agriculture year

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Monduli	11,788	85.9	714	5.2	0	0.0	0	0.0	71	0.5	1,143	8.3	0	0.0	13,717
Arusha	725	60.7	0	0.0	0	0.0	170	14.3	43	3.6	213	17.9	43	3.6	1,193
Karatu	13,813	84.2	267	1.6	446	2.7	980	6.0	356	2.2	535	3.3	0	0.0	16,398
Ngorongoro	4,121	92.1	71	1.6	0	0.0	0	0.0	0	0.0	284	6.3	0	0.0	4,476
Longido	1,907	78.6	0	0.0	0	0.0	87	3.6	144	6.0	289	11.9	0	0.0	2,427
Arusha Rural	21,857	90.1	956	3.9	119	0.5	119	0.5	239	1.0	956	3.9	0	0.0	24,246
Meru	20,010	76.6	2,074	7.9	0	0.0	122	0.5	1,952	7.5	1,830	7.0	122	0.5	26,110
Total	74,220	83.8	4,082	4.6	565	0.6	1,479	1.7	2,806	3.2	5,250	5.9	165	0.2	88,567

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

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Monduli	6,787	84.8	500	6.3	0	0.0	0	0.0	143	1.8	572	7.1	0	0.0	8,001
Arusha	128	15.0	0	0.0	0	0.0	511	60.0	43	5.0	170	20.0	0	0.0	852
Karatu	7,129	87.0	356	4.3	267	3.3	89	1.1	267	3.3	89	1.1	0	0.0	8,199
Ngorongoro	1,847	74.3	71	2.9	0	0.0	71	2.9	142	5.7	355	14.3	0	0.0	2,487
Longido	1,242	75.4	58	3.5	0	0.0	29	1.8	87	5.3	202	12.3	29	1.8	1,647
Arusha Rural	11,705	81.0	1,911	13.2	119	0.8	119	0.8	478	3.3	119	0.8	0	0.0	14,452
Meru	18,057	77.1	3,416	14.6	0	0.0	122	0.5	854	3.6	976	4.2	0	0.0	23,426
Total	46,896	79.4	6,313	10.7	387	0.7	942	1.6	2,013	3.4	2,484	4.2	29	0.0	59,064

8.13: Number of households receiving extension advice on 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	%	
Monduli	8,501	88.8	572	6.0	0	0.0	0	0.0	286	3.0	214	2.2	0	0.0	9,573
Arusha	1,023	60.0	0	0.0	0	0.0	426	25.0	128	7.5	128	7.5	0	0.0	1,705
Karatu	15,774	85.9	356	1.9	446	2.4	267	1.5	446	2.4	1,069	5.8	0	0.0	18,358
Ngorongoro	2,629	82.2	71	2.2	0	0.0	71	2.2	71	2.2	355	11.1	0	0.0	3,197
Longido	1,907	73.3	29	1.1	0	0.0	29	1.1	87	3.3	549	21.1	0	0.0	2,600
Arusha Rural	21,260	82.0	2,269	8.8	358	1.4	358	1.4	478	1.8	1,194	4.6	0	0.0	25,918
Meru	23,182	84.8	976	3.6	0	0.0	244	0.9	1,830	6.7	1,098	4.0	0	0.0	27,330
Total	74,276	83.8	4,273	4.8	804	0.9	1,396	1.6	3,325	3.7	4,608	5.2	0	0.0	88,682

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

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Monduli	9,859	75.8	572	4.4	0	0.0	71	0.5	286	2.2	2,215	17.0	0	0.0	13,002
Arusha	213	33.3	0	0.0	0	0.0	213	33.3	43	6.7	170	26.7	0	0.0	639
Karatu	9,268	83.9	178	1.6	267	2.4	267	2.4	356	3.2	624	5.6	89	0.8	11,051
Ngorongoro	2,487	87.5	0	0.0	0	0.0	142	5.0	0	0.0	213	7.5	0	0.0	2,842
Longido	1,589	64.7	116	4.7	0	0.0	0	0.0	58	2.4	693	28.2	0	0.0	2,456
Arusha Rural	17,796	87.6	836	4.1	0	0.0	239	1.2	478	2.4	956	4.7	0	0.0	20,305
Meru	16,959	76.0	854	3.8	0	0.0	0	0.0	1,708	7.7	2,684	12.0	122	0.5	22,328
Total	58,172	80.1	2,555	3.5	267	0.4	933	1.3	2,929	4.0	7,555	10.4	211	0.3	72,622

EROSION CONTROL

8.15: 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	%
Monduli	7,930	27.4	21,003	72.6	28,933	100.0
Arusha	767	30.0	1,790	70.0	2,557	100.0
Karatu	9,981	27.7	26,112	72.3	36,093	100.0
Ngorongoro	1,705	5.9	27,070	94.1	28,776	100.0
Longido	1,791	15.4	9,852	84.6	11,644	100.0
Arusha Rural	5,853	12.1	42,520	87.9	48,373	100.0
Meru	6,833	13.9	42,459	86.1	49,292	100.0
Total	34,860	16.9	170,807	83.1	205,667	100.00

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

District	Presence of Erosion Control/Water Harvesting Facilities					
	Have any erosion control/water harvesting facilities		Do not have any erosion control/water harvesting facilities		Total	
	Number	%	Number	%	Number	%
Monduli	5,715	19.8	23,218	80.2	28,933	100.0
Arusha	597	23.3	1,960	76.7	2,557	100.0
Karatu	9,447	26.2	26,646	73.8	36,093	100.0
Ngorongoro	711	2.5	28,065	97.5	28,776	100.0
Longido	838	7.2	10,806	92.8	11,644	100.0
Arusha Rural	6,091	12.6	42,281	87.4	48,373	100.0
Meru	7,443	15.1	41,849	84.9	49,292	100.0
Total	30,841	15	174,826	85	205,667	100

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

District	Terraces	Erosion Control Bunds	Gabions / Sandbag	Vetiver Grass	Tree Belts	Water Harvesting Bunds	Drainage Ditches	Others
Monduli	4,787	23,718	7,644	4,001	429	5,072	357	214
Arusha	0	426	511	298	256	0	256	1,023
Karatu	12,566	19,339	4,278	0	3,654	4,456	3,386	178
Ngorongoro	1,350	782	355	0	142	355	639	0
Longido	14,966	1,329	87	578	87	404	1,300	260
Arusha Rural	23,649	5,375	358	1,194	1,911	0	1,792	597
Meru	19,155	6,833	13,055	4,514	976	2,562	5,246	0
Total	76,473	57,801	26,288	10,586	7,454	12,850	12,977	2,273

CATTLE PRODUCTION

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

District	Households rearing cattle		Households not rearing cattle		Total Agriculture households	Total Number of Households Rearing Livestock
	Number	%	Number	%		
Monduli	23,218	80	5,715	20	28,933	25,647
Arusha	2,216	87	341	13	2,557	2,387
Karatu	20,319	56	15,774	44	36,093	24,507
Ngorongoro	25,365	88	3,410	12	28,776	27,355
Longido	10,083	87	1,560	13	11,644	11,008
Arusha Rural	34,637	72	13,735	28	48,253	37,982
Meru	32,210	65	17,081	35	49,292	38,677
Total	148,049	72	57,617	28	205,547	167,562

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

District	Indigenous			Improved Beef			Improved Dairy			Total		
	Number of households	Number of Cattle	%	Number of households	Number of Cattle	%	Number of households	Number of Cattle	%	Number of households	Number of Cattle	
Monduli	23,075	438,073	99.5	71	71	0.0	572	2,000	0.5	23,718	440,145	100
Arusha	1,705	18,710	83.6	298	1,023	4.6	895	2,642	11.8	2,898	22,375	100
Karatu	19,784	148,738	97.0	89	713	0.5	1,426	3,832	2.5	21,299	153,283	100
Ngorongoro	25,365	707,309	99.8	213	426	0.1	284	924	0.1	25,862	708,659	100
Longido	10,054	191,959	99.0	116	809	0.4	404	1,098	0.6	10,575	193,866	100
Arusha Rural	24,007	128,636	71.8	2,747	13,735	7.7	13,497	36,907	20.6	40,251	179,278	100
Meru	20,986	83,088	71.6	1,098	1,708	1.5	14,763	31,234	26.9	36,847	116,031	100
Total	124,977	1,716,514	94.6	4,633	18,486	1.0	31,841	78,637	4.3	161,450	1,813,637	100

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

Herd size	Cattle Rearing Households	%	Herd of Cattle	Average Per Household
1 - 5	81,762	55.2	217,669	2.7
6 - 10	30,036	20.3	228,683	7.6
11 - 15	11,853	8.0	151,955	12.8
16 - 20	5,812	3.9	105,914	18.2
21 - 30	6,786	4.6	172,020	25.4
31 - 40	3,217	2.2	112,839	35.1
41 - 50	2,387	1.6	108,942	45.6
51 - 60	1,314	0.9	72,629	55.3
61 -100	2,722	1.8	207,058	76.1
101 -150	1,205	0.8	157,186	130.5
151+	955	0.6	278,742	291.9
Total	148,049	100.0	1,813,637	12.3

9.4: Total Number of indigenous Cattle by Category of cattle and District During the 2007/08 Agricultural Year

District	Cattle Type															
	Castrated Bulls (Oxen)		Uncastrated Bulls		Cows		Steers		Heifers		Male Calves		Female Calves		Total	
	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%
Monduli	51,509	13	52,652	15	172,814	23	15,717	5	42,793	12	46,365	14	56,224	18	438,073	100
Arusha	4,731	21	2,174	15	5,924	24	43	1	1,492	9	2,344	16	2,003	15	18,710	100
Karatu	29,765	16	25,310	17	49,282	28	4,456	5	9,892	7	14,794	12	15,239	14	148,738	100
Ngorongoro	84,692	13	57,196	16	302,463	22	16,200	4	69,914	11	85,403	18	91,442	17	707,309	100
Longido	16,035	11	14,822	15	78,789	24	8,032	4	26,494	11	21,525	17	26,263	18	191,959	100
Arusha Rural	26,754	15	16,960	15	40,012	32	3,583	2	15,766	11	13,258	12	12,302	13	128,636	100
Meru	24,158	21	11,835	14	26,232	31	122	0	6,344	11	6,466	10	7,931	12	83,088	100
Total	237,644	15	180,947	15	675,516	26	48,152	3	172,695	11	190,154	14	211,404	16	1,716,514	100

9.5: Total Number of Improved Beef Cattle by Category of cattle and District During the 2007/08 Agricultural Year

District	Cattle Type															
	Castrated Bulls (Oxen)		Uncastrated Bulls		Cows		Steers		Heifers		Male Calves		Female Calves		Total	
	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%
Monduli	.	0	.	0	71	100	.	0	.	0	.	0	.	0	71	100
Arusha	85	13	298	38	170	13	.	0	128	13	128	13	213	13	1,023	100
Karatu	356	33	178	33	178	33	.	0	.	0	.	0	.	0	713	100
Ngorongoro	.	0	71	33	142	33	.	0	213	33	.	0	.	0	426	100
Longido	29	11	116	33	173	11	29	11	347	22	116	11	.	0	809	100
Arusha Rural	956	6	1,194	19	3,105	22	3,703	14	1,911	11	1,792	17	1,075	11	13,735	100
Meru	488	25	244	17	.	0	.	0	610	33	244	17	122	8	1,708	100
Total	1,914	11	2,102	22	3,841	18	3,731	9	3,209	16	2,279	15	1,410	9	18,486	100

9.6: Total Number of Improved Dairy Cattle by Category of cattle and District During the 2007/08 Agricultural Year

District	Cattle Type															
	Castrated Bulls (Oxen)		Uncastrated Bulls		Cows		Steers		Heifers		Male Calves		Female Calves		Total	
	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%
Monduli	.	0	357	6	643	31	214	13	143	13	286	19	357	19	2,000	100
Arusha	.	0	43	2	1,492	49	170	5	170	10	384	17	384	17	2,642	100
Karatu	356	6	356	13	1,604	45	267	3	535	13	535	13	178	6	3,832	100
Ngorongoro	.	0	.	0	213	33	213	17	.	0	284	33	213	17	924	100
Longido	116	16	58	11	491	42	116	5	173	11	.	0	144	16	1,098	100
Arusha Rural	119	1	956	4	21,021	48	.	0	4,539	14	4,658	13	5,614	21	36,907	100
Meru	244	1	2,196	7	15,251	46	1,952	5	4,758	15	3,538	13	3,294	12	31,234	100
Total	835	1	3,966	6	40,715	46	2,933	3	10,318	14	9,685	13	10,185	16	78,637	100

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

District	Branding		Cattle Clan		Ear notching		Colour		Earings		Others		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Monduli	17,789	74	786	3	4,215	18	500	2	0	0	643	3	23,933	100
Arusha	767	35	43	2	597	27	597	27	85	4	128	6	2,216	100
Karatu	9,268	37	3,565	14	1,337	5	8,110	32	178	1	2,584	10	25,042	100
Ngorongoro	21,955	85	426	2	2,487	10	142	1	213	1	497	2	25,720	100
Longido	5,316	52	896	9	1,907	19	1,589	15	318	3	260	3	10,286	100
Arusha Rural	10,033	28	1,194	3	7,286	21	13,377	38	836	2	2,628	7	35,354	100
Meru	1,220	4	5,856	18	13,665	41	10,127	30	854	3	1,586	5	33,309	100
Total	66,348	43	12,766	8	31,493	20	34,442	22	2,485	2	8,326	5	155,859	100

9.8: Number of Milked Cows by Category of Cattle, Season and District, During the 2007/08 Agricultural Year

District	Wet Season			Dry Season		
	Improved Breed	Indigenous	Total	Improved Breed	Indigenous	Total
Monduli	1,000	102,446	103,446	65,511	67,797	133,308
Arusha	5,583	3,495	9,078	6,009	2,941	8,950
Karatu	7,486	25,042	32,528	1,515	19,517	21,032
Ngorongoro	.	288,395	288,395	213	130,946	131,160
Longido	549	50,359	50,908	2,225	24,472	26,696
Arusha Rural	21,380	30,337	51,717	18,752	26,396	45,148
Meru	15,251	14,153	29,404	16,715	11,469	28,184
Total	51,249	514,227	565,476	110,940	283,537	394,478

9.9: Average milk production per cow per day, by Category of Cow, Season and District, During the 2007/08 Agricultural Year

District	Wet Season			Dry Season		
	Improved Breed	Indigenous	Total	Improved Breed	Indigenous	Total
	Mean (ltr)	Mean (lts)	Mean (lts)	Mean (lts)	Mean (lts)	Mean (lts)
Monduli	3	2	2	3	1	1
Arusha	5	3	4	4	2	3
Karatu	6	2	2	4	1	2
Ngorongoro	.	2	2	1	1	1
Longido	5	2	2	2	1	1
Arusha Rural	6	2	4	5	1	3
Meru	6	3	5	5	2	4
Total	6	2	3	5	1	2

9.10: Average number of days for cows on milked, by category of Cattle, Season and District, During the 2007/08 Agricultural Year

District	Wet Season			Dry Season		
	Improved Breed	Indigenous	Total	Improved Breed	Indigenous	Total
	Mean	Mean	Mean	Mean	Mean	Mean
Monduli	153	141	141	224	120	124
Arusha	284	196	232	287	162	213
Karatu	171	138	141	134	118	120
Ngorongoro	60	138	137	95	108	107
Longido	150	137	137	144	107	110
Arusha Rural	214	185	198	201	161	179
Meru	169	174	171	137	143	139
Total	193	152	162	173	129	142

9.11: Average Cattle Milk price (Tshs/litre) per season by category of cow and District, During the 2007/08 Agricultural Year

District	Wet Season			Dry Season		
	Improved Breed	Indigenous	Total	Improved Breed	Indigenous	Total
	Mean	Mean	Mean	Mean	Mean	Mean
Monduli	307	314	314	529	458	460
Arusha	439	427	432	451	475	464
Karatu	420	448	444	436	494	486
Ngorongoro	700	465	467	400	658	657
Longido	408	394	395	536	563	560
Arusha Rural	453	449	451	484	503	493
Meru	412	397	405	434	469	448
Total	432	411	416	460	532	510

9.12: Average Cattle Milk price (Tshs/litre) per season by category of cow and Region, During the 2007/08 Agricultural Year

District	Number of milked cows		Average milk production per cow per day (lts)		Average number of days cows milked		Average price per litre per season (Tshs)	
	Wet Season	Dry Season	Wet Season	Dry Season	Wet Season	Dry Season	Wet Season	Dry Season
	Monduli	103,446	133,308	2	1	141	124	366	551
Arusha	9,078	8,950	4	3	232	213	432	464
Karatu	32,528	21,032	2	2	141	120	488	528
Ngorongoro	288,395	131,160	2	1	137	107	481	669
Longido	50,908	26,696	2	1	137	110	404	560
Arusha Rural	51,717	45,148	4	3	198	179	517	502
Meru	29,404	28,184	5	4	171	139	425	448
Total	565,476	394,478	3	2	162	142	453	534

GOAT PRODUCTION

9.13: Number of Agriculture Households Rearing Goats by District during the 2007/08 Agricultural Year

	Raising goats		Not raising goats		Total	Total livestock keeping households
	No of households	%	No of households	%		
Monduli	23,504	81	5,429	19	28,933	25,647
Arusha	1,577	62	980	38	2,557	2,387
Karatu	20,052	56	16,041	44	36,093	24,507
Ngorongoro	24,868	86	3,908	14	28,776	27,355
Longido	10,286	88	1,358	12	11,644	11,008
Arusha Rural	20,185	42	28,188	58	48,373	37,982
Meru	22,206	45	27,086	55	49,292	38,677
Total	122,677	60	82,990	40	205,667	167,562

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

District	Indigenous			Improved for Meat			Improved Dairy			Total	
	Number of households	Number of Goats	%	Number of households	Number of Goats	%	Number of households	Number of Goats	%	Number of households	Number of Goats
Monduli	23,504	427,142	99.6	0	0	0.0	286	1,572	0.4	23,790	428,714
Arusha	1,577	24,080	100.0	0	0	0.0	0	0	0.0	1,577	24,080
Karatu	20,052	173,602	99.4	0	0	0.0	178	980	0.6	20,230	174,582
Ngorongoro	24,868	654,519	99.9	0	0	0.0	355	568	0.1	25,223	655,087
Longido	10,257	228,652	98.4	29	520	0.2	347	3,120	1.3	10,632	232,293
Arusha Rural	19,349	128,038	90.7	0	0	0.0	1,194	13,138	9.3	20,543	141,177
Meru	20,742	128,476	79.1	122	244	0.2	2,928	33,797	20.8	23,792	162,516
Total	120,348	1,764,510	97.0	151	764	0.0	5,289	53,176	2.9	125,787	1,818,450

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

Herd Size	Goat rearing households		Herd of Goats		Average Goats per household
	Number	%	Number	%	
1 - 4	40,806	33.26	111,041	6.1	2.72
5 - 9	30,571	24.92	196,772	10.8	6.44
10 - 14	16,798	13.69	188,712	10.4	11.23
15 - 19	7,501	6.11	124,065	6.8	16.54
20 - 24	7,519	6.13	156,839	8.6	20.86
25 - 29	3,583	2.92	95,907	5.3	26.77
30 - 34	3,577	2.92	110,878	6.1	31.00
35 - 39	1,568	1.28	57,821	3.2	36.88
40+	10,754	8.77	776,413	42.7	72.20
Total	122,677	100.00	1818450	100.0	14.82

9.16: Total Number of Goats by Category and Type of Goat as of 1st October 2008 - ARUSHA REGION

Category	Indigenous		Improved Meat		Improved Dairy		Total	
	Number	%	Number	%	Number	%	Number	%
Billy Goats	234,956	95.6	180	0.1	10,692	4.3	245,828	100.0
She Goats	226,318	98.8	87	0.0	2,560	1.1	228,964	100.0
Castrated Goat	796,910	97.0	0	0.0	24,683	3.0	821,593	100.0
Male Kid	251,477	97.8	266	0.1	5,435	2.1	257,178	100.0
She Kid	254,849	96.2	231	0.1	9,806	3.7	264,887	100.0
Total	1,764,510	97.0	764	0.0	53,176	2.9	1,818,450	100.0

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

District	Goat Type											
	Billy Goat		Castrated Goat		She Goat		Male Kid		She Kid		Total	
	Total Goat	%	Total Goat	%	Total Goat	%	Total Goat	%	Total Goat	%	Total Goat	%
Monduli	58,581	14	53,437	13	172,672	40	68,369	16	74,084	17	427,142	100
Arusha	3,111	13	2,259	9	13,042	54	3,069	13	2,600	11	24,080	100
Karatu	31,548	18	18,180	10	83,771	48	21,210	12	18,893	11	173,602	100
Ngorongoro	75,314	12	95,918	15	300,260	46	92,508	14	90,519	14	654,519	100
Longido	22,825	10	27,448	12	107,219	47	34,699	15	36,462	16	228,652	100
Arusha Rural	21,738	17	15,288	12	56,136	44	16,005	13	18,871	15	128,038	100
Meru	21,840	17	13,787	11	63,811	50	15,617	12	13,421	10	128,476	100
Total	234,956	13	226,318	13	796,910	45	251,477	14	254,849	14	1,764,510	100

9.18: Number of Improved Goats for Meat by Category and District as of 1st October 2008

District	Goat Type											
	Billy Goat		Castrated Goat		She Goat		Male Kid		She Kid		Total	
	Total Goat	%	Total Goat	%	Total Goat	%	Total Goat	%	Total Goat	%	Total Goat	%
Monduli	0	0	0	0	0	0	0	0	0	0	0	0
Arusha	0	0	0	0	0	0	0	0	0	0	0	0
Karatu	0	0	0	0	0	0	0	0	0	0	0	0
Ngorongoro	0	0	0	0	0	0	0	0	0	0	0	0
Longido	58	11	87	17	0	0	144	28	231	44	520	100
Arusha Rural	0	0	0	0	0	0	0	0	0	0	0	0
Meru	122	50	0	0	0	0	122	50	0	0	244	100
Total	180	24	87	11	0	0	266	35	231	30	764	100

9.19: Number of Improved Dairy Goats by Category and District as of 1st October 2008

District	Goat Type											
	Billy Goat		Castrated Goat		She Goat		Male Kid		She Kid		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Monduli	0	0.0	0	0.0	857	54.5	0	0.0	714	45.5	1,572	100
Arusha	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	.
Karatu	0	0.0	0	0.0	0	0.0	980	100.0	0	0.0	980	100
Ngorongoro	71	12.5	0	0.0	497	87.5	0	0.0	0	.	568	100
Longido	58	1.9	0	0.0	578	18.5	1,531	49.1	953	30.6	3,120	100
Arusha Rural	2,389	18.2	119	0.9	8,719	66.4	239	1.8	1,672	12.7	13,138	100
Meru	8,175	24.2	2440	7.2	14,031	41.5	2,684	7.9	6,466	19.1	33,797	100
Total	10,692	20.1	2,560	4.8	24,683	46.4	5,435	10.2	9,806	18.4	53,176	100

9.20: Milk Production from Goat By Season and District, During the 2007/08 Agricultural Year

District	Number of Milked goat		Average milk production per goat per day (lts)		Average number of days for goats on milked		Average price per litre per season (Tshs)	
	Wet Season	Dry Season	Wet Season	Dry Season	Wet Season	Dry Season	Wet Season	Dry Season
	Sum	Sum	Mean	Mean	Mean	Mean	Mean	Mean
Monduli	45,936	20,575	.7	.5	64	56	331	473
Arusha	.	.	.	.	.	.	.	.
Karatu	4,545	2,852	.5	.3	59	47	432	375
Ngorongoro	90,447	49,380	.9	.5	68	56	353	530
Longido	40,045	9,506	.6	.4	69	56	388	624
Arusha Rural	9,913	5,255	1.0	.7	65	66	461	529
Meru	8,297	6,222	1.2	.8	69	51	439	453
Total	199,183	93,790	.8	.6	66	56	379	498

SHEEP PRODUCTION

9.21: Number of Households Rearing Sheep by District during the 2007/08 Agriculture Year

District	Number of households raising or managing sheep	%	Number of households not raising or managing sheep	%	Number of agriculture households	Total livestock keeping households
Monduli	18,289	63.2	10,645	36.8	28,933	25,647
Arusha	1,492	58.3	1,065	41.7	2,557	2,387
Karatu	14,348	39.8	21,745	60.2	36,093	24,507
Ngorongoro	21,528	74.8	7,247	25.2	28,776	27,355
Longido	8,639	74.2	3,005	25.8	11,644	11,008
Arusha Rural	18,394	38.0	29,979	62.0	48,253	37,982
Meru	15,861	32.2	33,431	67.8	49,292	38,677
Total	98,550	47.9	107,117	52.1	205,547	167,562

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

District	Total			
	Number of households raising or managing sheep	%	Total Sheep	%
Monduli	18,289	18.6	308,837	22
Arusha	1,492	1.5	15002	1
Karatu	14,348	14.6	87,692	6
Ngorongoro	21,528	21.8	599,099	43
Longido	8,639	8.8	152,493	11
Arusha Rural	18,394	18.7	148,582	11
Meru	15,861	16.1	90,531	6
Total	98,550	100.0	1,402,236	100

9.23: Total Number of Indigenous Sheep by Category of Sheep and District as of 1st October 2007/08 Agriculture year

District	Number of Indigenous					Total
	Ram	Castrated Sheep	She Sheep	Male Lamb	She Lamb	
Monduli	44,007	31,362	147,167	35,649	50,651	308,837
Arusha	2,728	639	7,032	1,833	2,770	15,002
Karatu	21,299	10,159	39,747	8,644	7,842	87,692
Ngorongoro	77,872	76,379	299,834	62,738	82,277	599,099
Longido	18,578	17,191	74,715	20,253	21,756	152,493
Arusha Rural	21,141	11,227	54,703	11,944	49,567	148,582
Meru	11,469	5,734	36,969	30,014	6,344	90,531
Total	197,093	152,693	660,167	171,075	221,208	1,402,236

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

Herd size	Sheep Rearing Households	%	Herd of sheep	Average Per Household
1 - 4	44,874	46	109,881	2
5 - 9	24,325	25	156,879	6
10 - 14	8,505	9	94,637	11
15 - 19	4,296	4	69,694	16
20 - 24	4,004	4	82,993	21
25 - 29	1,910	2	49,881	26
30 - 34	2,290	2	72,244	32
35 - 39	428	0	15,577	36
40+	7,918	8	750,449	95
Total	98,550	100	1,402,236	14

9.25: Total Number of Sheep by Breed Type During the 2007/08 Agriculture Year - ARUSHA REGION

Category	Number of Indigenous	%	Number of Improved	%	Total	%
Rams	197,093	100	0	0	197,093	14
Castrated Sheep	152,693	100	0	0	152,693	11
She Sheep	660,167	100	0	0	660,167	47
Male Lamb	171,075	100	0	0	171,075	12
Female Lamb	221,208	100	0	0	221,208	16
Total	1,402,236	100	0	0	1,402,236	100

PIG PRODUCTION

9.26: Number of Households Raising Pigs by District during 2007/08 Agriculture Year

District	During the 2007/2008 Agriculture Year					
	Number of households raising Pigs	%	Number of households not raising pigs	%	Total	%
Monduli	286	1.0	28,648	99.0	28,933	100.0
Arusha	170	6.7	2,387	93.3	2,557	100.0
Karatu	7,040	19.5	29,052	80.5	36,093	100.0
Ngorongoro	0	0.0	28,776	100.0	28,776	100.0
Longido	260	2.2	11,384	97.8	11,644	100.0
Arusha Rural	478	1.0	47,895	99.0	48,373	100.0
Meru	244	0.5	49,048	99.5	49,292	100.0
Total	8,478	4.1	197,189	95.9	205,667	100.0

9.27 : Number of Households Rearing Pigs, Heard of Pigs and Average Heard per Household by Heard Size as of 1st October 2008 - ARUSHA

Heard Size	Pig rearing households		Heard of pigs		Average per household
	Number	%	Number	%	
1-4	7,234	85	13,130	47.8	2
5-9	767	9	4,942	18.0	6
10-14	114	1	1,440	5.2	13
15-19	279	3	4,426	16.1	16
20-24	43	1	1,406	5.1	33
25-29	0	0	0	0.0	0
30-39	0	0	0	0.0	0
40+	43	1	2,131	7.8	50
Total	8,478	100	27,475	100.0	3

9.28: Total Number of Pigs by Type of Pigs and District as of 1st October 2008

District	Pig Type					Total
	Boar	Castrated Male	Sow / Gilt	Male Piglet	She Piglet	
Monduli	214	357	500	357	1,143	2,572
Arusha	1,023	0	1,747	554	1,065	4,390
Karatu	2,763	2,050	7,308	2,406	3,386	17,913
Ngorongoro	0	0	0	0	0	0
Longido	173	144	578	144	231	1,271
Arusha Rural	239	119	239	0	0	0
Meru	244	0	488	0	0	732
Total	4,656	2,671	10,860	3,462	5,826	27,475

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

District	Number of households	Number of pigs	Average per household
Monduli	286	2,572	9
Arusha	170	4,390	16
Karatu	7,040	17,913	65
Ngorongoro	0	0	0
Longido	260	1,271	5
Arusha Rural	478	597	2
Meru	244	732	3
Total	8,478	27,475	100

CHICKEN AND OTHER LIVESTOCK

9.30: Number of CHICKEN by Type and District as of 1st October 2008

District	Indigineous chicken			Layers			Broilers			Total		
	Number of Households	Number of Indigineous Chicken	%	Number of Households	Number of Layers	%	Number of Households	Number of Broilers	%	Households Realing Chicken	Number of Chicken	%
Monduli	12,574	129,450	98	286	1,072	1	143	1,143	1	12,931	131,665	100
Arusha	1,875	18,284	100	0	0	0	0	0	0	1,875	18,284	100
Karatu	20,943	154,442	100	0	0	0	178	535	0	21,121	154,976	100
Ngorongoro	4,121	42,346	100	0	0	0	71	71	0	4,121	42,417	100
Longido	1,271	20,513	99	29	289	1	0	0	0	1,271	20,802	100
Arusha Rural	24,843	196,835	99	119	2,389	1	119	119	0	24,843	199,343	100
Meru	35,749	387,746	100	122	732	0	0	0	0	35,749	388,478	100
Total	101,376	949,616	99	556	4,481	0	512	1,868	0	101,911	955,966	100

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

Heard Size	Indigineous chicken				Layers				Broilers			
	Number of Households	Number of Indigineous Chicken	%	Number of Chicken Per Household	Number of Households	Number of Layers	%	Number of Chicken Per Household	Number of Households	Number of Broilers	%	Number of Chicken Per Household
1-49	100,734	908,949	99.3	9	556	4,481	0.5	8	512	1,868	0.2	4
50-99	613	37,778	100.0	62	0	0	0.0	0	0	0	0.0	0
100-299	29	2,889	100.0	100	0	0	0.0	0	0	0	0.0	0
Total	101,376	949,616	99.3	9	556	4,481	0.5	8	512	1,868	0.2	4

9.32 : Total Number of Other Livestock by Type as of 1st October 2008

Type	Chicken		Others	
	Number	%	Type	Number
Indigenous Chicken	949,616	99.3	Ducks	7,410
Layer	4,481	0.5	Guinea pigs	3,689
Broiler	1,868	0.2	Turkeys	3,053
		0	Rabbits	3,487
		0	Donkey	105,023
		0	Horses	71
		0	Dogs	81,213
TOTAL	955,966	100		

PESTS AND PARASITES

9.33: : Number of Livestock Rearing households deworming Livestock by District during 2007/08 Agriculture Year

District	Deworming Livestock		Not Deworm Livestock		Total	
	Number	%	Number	%	Number of Livestock Rearing households	%
Monduli	26,576	99	357	1	25,647	15
Arusha	2,429	95	128	5	2,387	1
Karatu	28,518	94	1,961	6	24,507	15
Ngorongoro	26,573	96	1,066	4	27,355	16
Longido	10,892	97	347	3	11,008	7
Arusha Rural	36,907	85	6,330	15	37,982	23
Meru	42,459	95	2,318	5	38,677	23
Total	174,354	93	12,507	7	167,562	100

9.34: : Number of Livestock Rearing households that dewormed Livestock by type of livestock and District, 2007/08 Agricultural Year

District	Cattle				Goats/Sheep				Pigs				Chicken			
	Households that dewormed	Households that DID NOT deworm	Not Applicable	Total	Households that dewormed	Households that DID NOT deworm	Not Applicable	Total	Households that dewormed	Households that DID NOT deworm	Not Applicable	Total	Households that dewormed	Households that DID NOT deworm	Not Applicable	Total
Monduli	20,932	2,358	3,286	26,576	23,718	572	2,286	26,576	714	2,715	23,147	26,576	4,358	10,788	11,430	26,576
Arusha	2,216	128	128	2,472	1,790	128	511	2,429	170	0	2,259	2,429	810	895	725	2,429
Karatu	18,804	1,871	8,021	28,696	20,586	1,782	6,327	28,696	6,149	3,208	19,339	28,696	11,853	8,199	8,644	28,696
Ngorongoro	22,097	2,700	1,847	26,644	22,168	3,410	995	26,573	213	4,831	21,528	26,573	995	7,531	18,047	26,573
Longido	8,437	1,618	925	10,979	10,257	260	491	11,008	376	693	9,910	10,979	578	1,329	9,101	11,008
Arusha Rural	30,935	1,911	4,300	37,145	21,977	4,061	11,108	37,145	358	4,658	31,890	36,907	8,361	16,960	12,541	37,862
Meru	32,454	610	9,517	42,581	26,842	3,294	12,445	42,581	488	4,758	37,335	42,581	16,471	19,033	7,077	42,581
Total	135,875	11,196	28,023	175,094	127,338	13,507	34,164	175,009	8,469	20,864	145,408	174,741	43,425	64,736	67,565	175,725

9.35 : Number of Livestock Rearing Households Normally Encountering Tick Problems by District during 2007/08 Agriculture Year

District	Tick Problem		No Tick Problem		Not Applicable		Total	
	Number	%	Number	%	Number	%	Number	%
Monduli	24,718	92	1,286	5	1,000	4	27,004	100
Arusha	1,875	76	597	24	0	0	2,472	100
Karatu	19,160	63	6,506	21	4,812	16	30,478	100
Ngorongoro	24,015	87	2,842	10	782	3	27,639	100
Longido	9,448	84	1,473	13	289	3	11,210	100
Arusha Rural	25,202	58	13,497	31	4,419	10	43,117	100
Meru	31,478	70	6,711	15	6,711	15	44,899	100
Total	135,897	73	32,911	18	18,013	10	186,821	100

9.36 : Number of Livestock Rearing Households by Method of Tick Control and District during 2007/08 Agriculture Year

District	Dipping		Spraying		Smearing		None		Other		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Monduli	3,358	12.4	20,718	76.7	500	1.9	2,286	8.5	143	0.5	27,004	100
Arusha	43	1.7	1,875	75.9	128	5.2	426	17.2	0	0.0	2,472	100
Karatu	1,248	4.1	16,665	54.7	1,069	3.5	11,318	37.1	178	0.6	30,478	100
Ngorongoro	3,481	12.6	20,463	74.0	426	1.5	2,771	10.0	497	1.8	27,639	100
Longido	1,502	13.4	7,916	70.6	318	2.8	1,416	12.6	58	0.5	11,210	100
Arusha Rural	2,269	5.3	26,515	61.5	3,703	8.6	10,630	24.7	0	0.0	43,117	100
Meru	2,562	5.7	27,330	60.9	1,098	2.4	13,787	30.7	122	0.3	44,899	100
Total	14,463	7.7	121,483	65.0	7,242	3.9	42,634	22.8	998	0.5	186,821	100

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

District	Households Encountering Tsetse problems		Households Without Tsetse Problems		Not Applicable		Total	
	Number	%	Number	%	Number	%	Number	%
Monduli	19,575	72	6,001	22	1,429	5	27,004	100
Arusha	1,321	53	1,108	45	43	2	2,472	100
Karatu	12,209	40	12,744	42	5,525	18	30,478	100
Ngorongoro	14,494	52	10,942	40	2,203	8	27,639	100
Longido	2,658	24	7,801	70	751	7	11,210	100
Arusha Rural	14,572	34	23,529	55	5,016	12	43,117	100
Meru	25,988	58	12,201	27	6,711	15	44,899	100
Total	90,817	49	74,326	40	21,677	12	186,821	100

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

District	Dipping		Spraying		Trappig		None		Other		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Monduli	2,715	10	14,502	54	714	3	7,501	28	1,572	6	27,004	100
Arusha	213	9	1,236	50	170	7	767	31	85	3	2,472	100
Karatu	802	2.6	10,427	34.2	1,069	3.5	16,754	55.0	1,426	4.7	30,478	100
Ngorongoro	1,279	4.6	7,745	28.0	1,492	5.4	15,134	54.8	1,989	7.2	27,639	100
Longido	433	3.9	1,994	17.8	347	3.1	8,234	73.5	202	1.8	11,210	100
Arusha Rural	1,194	2.8	15,527	36.0	2,628	6.1	23,410	54.3	358	0.8	43,117	100
Meru	2,562	5.7	15,861	35.3	1,220	2.7	21,596	48.1	3,660	8.2	44,899	100
Total	9,199	4.9	67,292	36.0	7,641	4.1	93,396	50.0	9,293	5.0	186,821	100

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

District	Households Encountering Newcastle Disease problems		Households NOT Encountering Newcastle Disease problems		Not Applicable		Total	
	Number	%	Number	%	Number	%	Number	%
Monduli	11,573	43	4,215	16	11,216	42	27,004	100
Arusha	1,918	78	341	14	213	9	2,472	100
Karatu	13,279	44	8,823	29	8,377	27	30,478	100
Ngorongoro	1,492	5	4,618	17	21,528	78	27,639	100
Longido	925	8	867	8	9,419	84	11,210	100
Arusha Rural	21,021	49	9,675	22	12,422	29	43,117	100
Meru	26,598	59	10,493	23	7,809	17	44,899	100
Total	76,806	41	39,031	21	70,984	38	186,821	100

9.40 : Number of Livestock Rearing Households by Method of Newcastle Disease Control and District during 2007/08 Agriculture Year

District	Vaccination		Local Herbs		None		Total	
	Number	%	Number	%	Number	%	Number	%
Monduli	2,072	8	9,716	36	15,217	56	27,004	100
Arusha	554	22	1,321	53	597	24	2,472	100
Karatu	3,386	11	9,714	32	17,378	57	30,478	100
Ngorongoro	284	1	1,492	5	25,862	94	27,639	100
Longido	376	3	491	4	10,343	92	11,210	100
Arusha Rural	11,347	26	10,749	25	21,021	49	43,117	100
Meru	11,103	25	11,347	25	22,450	50	44,899	100
Total	29,122	16	44,831	24	112,868	60	186,821	100

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

District	Households Encountering Fowl Typhoid Disease problems		Households NOT Encountering Fowl Typhoid Disease problems		Not Applicable		Total	
	Number	%	Number	%	Number	%	Number	%
Monduli	7,001	26	8,573	32	11,430	42	27,004	100
Arusha	980	40	1,236	50	256	10	2,472	100
Karatu	6,417	21	15,328	50	8,734	29	30,478	100
Ngorongoro	497	2	4,618	17	22,523	81	27,639	100
Longido	433	4	1,213	11	9,563	85	11,210	100
Arusha Rural	10,391	24	17,677	41	15,049	35	43,117	100
Meru	12,079	27	24,768	55	8,053	18	44,899	100
Total	37,799	20	73,414	39	75,608	40	186,821	100

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

District	Vaccination		Local Herbs		None		Total	
	Number	%	Number	%	Number	%	Number	%
Monduli	429	2	6,787	25	19,789	73	27,004	100
Arusha	170	7	980	40	1,321	53	2,472	100
Karatu	980	3	5,525	18	23,973	79	30,478	100
Ngorongoro	71	0	1,776	6	25,791	93	27,639	100
Longido	202	2	347	3	10,661	95	11,210	100
Arusha Rural	3,344	8	9,913	23	29,860	69	43,117	100
Meru	4,026	9	6,955	15	33,919	76	44,899	100
Total	9,223	5	32,283	17	145,314	78	186,821	100

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

District	Households Encountering Foot and Mouth Disease		Households NOT Encountering Foot and Mouth Disease		Not Applicable		Total	
	Number	%	Number	%	Number	%	Number	%
Monduli	3,786	14	19,789	73	3,429	13	27,004	100
Arusha	511	21	1,790	72	170	7	2,472	100
Karatu	3,476	11	17,556	57	9,536	31	30,568	100
Ngorongoro	4,547	16	20,392	74	2,700	10	27,639	100
Longido	1,936	17	8,176	73	1,098	10	11,210	100
Arusha Rural	8,002	19	27,232	63	7,883	18	43,117	100
Meru	9,151	20	24,036	54	11,713	26	44,899	100
Total	31,410	17	118,971	64	36,529	20	186,910	100

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

District	Households Encountering Foot and Mouth Disease		Households NOT Encountering Foot and Mouth Disease		Not Applicable		Total	
	Number	%	Number	%	Number	%	Number	%
Monduli	3,786	14	19,789	73	3,429	13	27,004	100
Arusha	511	21	1,790	72	170	7	2,472	100
Karatu	3,476	11	17,556	57	9,536	31	30,568	100
Ngorongoro	4,547	16	20,392	74	2,700	10	27,639	100
Longido	1,936	17	8,176	73	1,098	10	11,210	100
Arusha Rural	8,002	19	27,232	63	7,883	18	43,117	100
Meru	9,151	20	24,036	54	11,713	26	44,899	100
Total	31,410	17	118,971	64	36,529	20	186,910	100

9.45 : Number of Livestock Rearing Households normally Encountering Lymphskin Disease Problems by District during 2007/08 Agriculture Year

District	Households Encountering Lymphskin Disease		Households NOT Encountering Lymphskin Disease		Not Applicable		Total	
	Number	%	Number	%	Number	%	Number	%
Monduli	13,359	49	10,287	38	3,358	12	27,004	100
Arusha	469	19	1,790	72	213	9	2,472	100
Karatu	2,584	8	18,447	60	9,536	31	30,568	100
Ngorongoro	5,329	19	19,965	72	2,345	8	27,639	100
Longido	2,196	20	8,032	72	982	9	11,210	100
Arusha Rural	11,108	26	24,604	57	7,405	17	43,117	100
Meru	9,517	21	23,670	53	11,713	26	44,899	100
Total	44,562	24	106,796	57	35,552	19	186,910	100

LIVESTOCK EXTENSION

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

District	Receiving Livestock services		Not Receiving Livestock Extension services		Total Livestock Keepers
	Number	%	Number	%	
Monduli	19,575	73	7,287	27	26,862
Arusha	1,449	60	980	40	2,429
Karatu	20,675	70	9,001	30	29,676
Ngorongoro	16,129	58	11,652	42	27,781
Longido	7,512	67	3,640	33	11,152
Arusha Rural	34,040	80	8,600	20	42,640
Meru	32,332	72	12,567	28	44,899
Total	131,712	71	53,727	29	185,440

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

Region	Source of Livestock Extension												Number of Household receiving Extension
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbour		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Monduli	18,789	96.0	4,215	21.5	857	4.4	143	0.7	2,429	12.4	4,144	21.2	19,575
Arusha	1,193	82.4	170	11.8	0	0.0	554	38.2	85	5.9	469	32.4	1,449
Karatu	19,784	95.7	1,782	8.6	1,515	7.3	2,584	12.5	1,159	5.6	1,782	8.6	20,675
Ngorongoro	15,063	93.4	4,547	28.2	1,137	7.0	213	1.3	142	0.9	1,350	8.4	16,129
Longido	6,674	88.8	1,040	13.8	58	0.8	231	3.1	404	5.4	1,242	16.5	7,512
Arusha Rural	32,487	95.4	12,183	35.8	597	1.8	717	2.1	3,225	9.5	2,389	7.0	34,040
Meru	30,502	94.3	8,907	27.5	2,074	6.4	1,464	4.5	6,833	21.1	3,416	10.6	32,332
Total	124,493	94.5	32,845	24.9	6,238	4.7	5,906	4.5	14,277	10.8	14,792	11.2	131,712

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

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Monduli	4,501	76.8	214	3.7	71	1.2	0	0.0	929	15.9	143	2.4	0	0.0	5,858
Arusha	384	81.8	0	0.0	0	0.0	0	0.0	0	0.0	85	18.2	0	0.0	469
Karatu	3,208	87.8	178	4.9	0	0.0	0	0.0	178	4.9	89	2.4	0	0.0	3,654
Ngorongoro	1,350	51.4	1,208	45.9	71	2.7	0	0.0	0	0.0	0	0.0	0	0.0	2,629
Longido	1,011	76.1	87	6.5	0	0.0	58	4.3	29	2.2	116	8.7	29	2.2	1,329
Arusha Rural	10,033	78.5	1,553	12.1	0	0.0	239	1.9	597	4.7	358	2.8	0	0.0	12,780
Meru	13,177	85.7	732	4.8	244	1.6	366	2.4	610	4.0	244	1.6	0	0.0	15,373
Total	33,664	80.0	3,972	9.4	387	0.9	663	1.6	2,343	5.6	1,035	2.5	29	0.1	42,092

FISH FARMING

9.49: Number of Agriculture Households Practising Fish Farming by District during the 2007/08 Agriculture Year

Was Fish farming carried out by this household during 2007/08

District	Yes	%	No	%	Total
Monduli	0	0	28933	100	28933
Arusha	0	0	2557	100	2557
Karatu	0	0	36093	100	36093
Ngorongoro	0	0	28776	100	28776
Longido	0	0	11644	100	11644
Arusha Rural	0	0	48373	100	48373
Meru	122	0	49170	100	49292
Total	122	0	205545	100	205667

BEE KEEPING

9.50: Number of Agricultural Households involved in Honey Production/Collection and District, 2007/08 Agricultural Year

District	Agricultural Households Involved in Honey Production/Collection		Agricultural Households NOT Involved in Honey Production/Collection		Total	
	Number	%	Number	%	Number	%
Monduli	1,143	4	27,790	96	28,933	100
Arusha	170	7	2,387	93	2,557	100
Karatu	1,069	3	35,023	97	36,093	100
Ngorongoro	2,416	8	26,360	92	28,776	100
Longido	376	3	11,268	97	11,644	100
Arusha Rural	1,075	2	47,178	98	48,253	100
Meru	2,074	4	47,218	96	49,292	100
Total	8,323	4	197,224	96	205,547	100

9.51: Number of Agricultural Households By Honey production/Collection and District , 2007/08 Agricultural Year

District	Number of Agricultural Households that Produced/Collected Honey			Number of Agricultural Households that did NOT Produce/Collect Honey			Total		
	Stingless Bee	Sting Bee	Total	Stingless Bee	Sting Bee	Total	Stingless Bee	Sting Bee	Total
Monduli	143	786	929	214	0	214	357	786	1,143
Arusha	43	170	213	0	0	0	43	170	213
Karatu	178	802	980	0	89	89	178	891	1,069
Ngorongoro	71	2,203	2,274	142	142	284	213	2,345	2,558
Longido	0	347	347	29	0	29	29	347	376
Arusha Rural	358	597	956	239	0	239	597	597	1,194
Meru	732	1,220	1,952	0	0	0	732	1,220	1,952
Total	1,525	6,125	7,650	624	231	855	2,149	6,356	8,506

9.52: Number of Bee hives by Type, Size of Bees and District during the 2007/08 Agriculture Year

District	Number of Improved Bee Hives						Number of Local Bee Hives					
	Stingless Bee		Sting Bee		Total		Stingless Bee		Sting Bee		Total	
	Number households	Number of Hives	Number households	Number of Hives	Number households	Number of Hives	Number households	Number of Hives	Number households	Number of Hives	Number households	Number of Hives
Monduli	357	71,440	786	357	1,143	71,798	357	218,679	786	9,287	1,143	227,966
Arusha	43	0	170	0	213	0	43	85	170	469	213	554
Karatu	178	89	891	0	1,069	89	178	891	891	41,796	1,069	42,688
Ngorongoro	213	1,421	2,345	10,018	2,558	11,439	213	924	2,345	29,983	2,558	30,907
Longido	29	0	347	0	376	0	29	0	347	5,923	376	5,923
Arusha Rural	597	239	597	478	1,194	717	597	956	597	8,600	1,194	9,555
Meru	732	122	1,342	0	2,074	122	732	5,368	1,342	4,514	2,074	9,883
Total	2,149	73,311	6,478	10,853	8,628	84,165	2,149	226,903	6,478	100,573	8,628	327,476

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

District	Stingless Bee				Sting Bee				Total	
	Honey Harvested		Honey Sold		Honey Harvested		Honey Sold		Honey Sold	Honey Harvested
	Quantity (Its)	%	Quantity (Its)	%	Quantity (Its)	%	Quantity (Its)	%		
Monduli	294,335	49	291,120	60	303,408	51	191,318	40	482,437	597,742
Arusha	4,262	40	4,262	44	6,393	60	5,455	56	9,717	10,655
Karatu	4,278	17	1,782	20	20,586	83	7,129	80	8,912	24,864
Ngorongoro	6,395	5	9,237	4	113,894	95	239,370	96	248,606	120,289
Longido	57,784	53	0	0	51,544	47	55,733	100	55,733	109,328
Arusha Rural	1,792	6	717	12	25,799	94	5,375	88	6,091	27,590
Meru	15,617	48	5,612	36	16,959	52	10,127	64	15,739	32,577
Total	384,462	42	312,730	38	538,583	58	514,506	62	827,236	923,045

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

District	Stingless Bee (Price per Litre)	Sting Bee (Price per Litre)	Average Price Per Litre
Monduli	1,860	1,068	1,316
Arusha	5,000	2,125	2,700
Karatu	2,500	1,900	2,000
Ngorongoro	4,333	2,333	2,500
Longido	0	1670.00	1,542
Arusha Rural	0	1,800	900
Meru	1,833	1,850	1,844
Total	1,670	1,932	1,865

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

District	Neighbour		Local market		Secondary market		Processing industry		Large scale farm		Trade at farm		Did not sell		Other		Total	
	Stingless bee	Sting Bee	Stingless bee	Stin g Bee	Stingless bee	Sting Bee	Stinglessbee	Sting Bee	Stinglessbee	Sting Bee	Stingless bee	Sting Bee	Stingless bee	Sting Bee	Stingless bee	Sting Bee	Stingless bee	Sting Bee
Arusha	833	2,692	71	641	89	0	0	0	0	0	122	162	913	2,861	122	0	2,149	6,356
Monduli																		
Arusha																		
Karatu																		
Ngorongoro																		
Longido																		
Arusha Rural																		
Meru																		
Total	833	2,692	71	641	89	0	0	0	0	0	122	162	913	2,861	122	0	2,149	6,356

POVERTY MODULE

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

District	Roofing Materials								
	Number of rooms	Iron Sheets	Tiles	Concrete	Asbestos	Grass/Leaves	Grass & Mud	Other	Total
Monduli	2	6,358	71	214	643	20,218	1,429	0	28,933
Arusha	3	2,472	0	0	0	85	0	0	2,557
Karatu	3	19,428	713	89	802	13,457	1,604	0	36,093
Ngorongoro	2	2,913	0	0	0	15,560	10,018	284	28,776
Longido	2	1,647	29	0	0	7,830	2,051	87	11,644
Arusha Rural	2	34,996	956	119	478	10,391	1,314	0	48,253
Meru	3	45,998	244	488	488	1,830	244	0	49,292
Total	2	113,811	2,013	911	2,411	69,371	16,660	371	205,547
%		55.4	1.0	0.4	1.2	33.7	8.1	0.2	100.0

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

District	Number of rooms	Floor Materials						Total
		Earth, Sand, Dung	Wood Planks, Bamboo, Palm	Parquet Or Polished Wood	Ceramic Tiles, Terrazzo	Cement	Other	
Monduli	2	27,004	429	0	0	1,429	71	28,933
Arusha	3	1,364	43	0	85	1,023	43	2,557
Karatu	3	30,568	713	178	89	4,545	0	36,093
Ngorongoro	2	27,283	426	0	0	1,066	0	28,776
Longido	2	10,892	289	29	29	404	0	11,644
Arusha Rural	2	34,757	2,389	0	358	10,749	0	48,253
Meru	3	21,962	610	244	488	25,988	0	49,292
Total	2	153,830	4,898	451	1,050	45,204	114	205,547
%		74.8	2.4	0.2	0.5	22.0	0.1	100.0

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

District	Wall Materials								
	Grass	Poles and Mud	Sun-Dried Bricks	Baked Bricks	Wood, Timber	Cement Blocks	Stones	Other	Total
Monduli	4,144	23,147	143	286	0	1,143	0	71	28,933
Arusha	256	1,406	170	85	0	554	0	85	2,557
Karatu	7,129	16,843	6,506	4,812	446	267	0	89	36,093
Ngorongoro	10,800	17,123	0	284	213	284	0	71	28,776
Longido	3,380	7,107	87	58	953	29	0	29	11,644
Arusha Rural	10,869	21,738	3,583	4,778	1,433	5,733	0	119	48,253
Meru	2,562	10,127	7,931	16,349	3,050	9,029	0	244	49,292
Total	39,140	97,492	18,419	26,652	6,096	17,039	0	709	205,547
%	19.0	47.4	9.0	13.0	3.0	8.3	0.0	0.3	100.0

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

District	Radio			Landline phone			Mobile phone			Iron			Wheelbarrow		
	Yes	No	Total	Yes	No	Total	Yes	No	Total	Yes	No	Total	Yes	No	Total
Monduli	15,860	13,074	28,933	786	28,148	28,933	12,002	16,931	28,933	3,501	25,433	28,933	1,357	27,576	28,933
Arusha	2,216	341	2,557	43	2,515	2,557	1,790	767	2,557	1,236	1,321	2,557	639	1,918	2,557
Karatu	22,101	13,992	36,093	1,337	34,756	36,093	18,091	18,002	36,093	9,803	26,290	36,093	3,386	32,706	36,093
Ngorongoro	12,576	16,200	28,776	497	28,278	28,776	12,008	16,768	28,776	2,771	26,005	28,776	1,350	27,426	28,776
Longido	5,316	6,327	11,644	116	11,528	11,644	3,814	7,830	11,644	780	10,863	11,644	722	10,921	11,644
Arusha Rural	35,593	12,661	48,253	2,986	45,267	48,253	24,604	23,649	48,253	19,349	28,904	48,253	13,019	35,234	48,253
Meru	41,117	8,175	49,292	976	48,316	49,292	31,722	17,569	49,292	26,354	22,938	49,292	16,105	33,187	49,292
Total	134,779	70,768	205,547	6,740	198,807	205,547	104,031	101,516	205,547	63,794	141,754	205,547	36,579	168,968	205,547
%	65.6	34.4	100.0	3.3	96.7	100.0	50.6	49.4	100.0	31.0	69.0	100.0	17.8	82.2	100.0

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

District	Bicycle			Vehicle			Television / Video			Refrigerator			Motor Cycle		
	Yes	No	Total	Yes	No	Total	Yes	No	Total	Yes	No	Total	Yes	No	Total
Monduli	6,144	22,790	28,933	2,286	26,647	28,933	357	28,576	28,933	143	28,791	28,933	429	28,505	28,933
Arusha	1,492	1,065	2,557	256	2,301	2,557	341	2,216	2,557	213	2,344	2,557	170	2,387	2,557
Karatu	16,041	20,052	36,093	3,832	32,261	36,093	267	35,825	36,093	178	35,915	36,093	802	35,291	36,093
Ngorongoro	2,203	26,573	28,776	568	28,207	28,776	0	28,776	28,776	213	28,562	28,776	71	28,704	28,776
Longido	1,762	9,881	11,644	318	11,326	11,644	202	11,441	11,644	58	11,586	11,644	376	11,268	11,644
Arusha Rural	16,721	31,532	48,253	5,016	43,237	48,253	4,658	43,595	48,253	3,225	45,028	48,253	2,508	45,745	48,253
Meru	20,498	28,794	49,292	3,294	45,998	49,292	6,955	42,337	49,292	2,806	46,486	49,292	1,220	48,072	49,292
Total	64,861	140,687	205,547	15,571	189,977	205,547	12,780	192,767	205,547	6,836	198,711	205,547	5,576	199,971	205,547
%	31.6	68.4	100.0	7.6	92.4	100.0	6.2	93.8	100.0	3.3	96.7	100.0	2.7	97.3	100.0

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

District	Electricity	Solar	Gas (Biogas)	Hurricane Lamp	Pressure Lamp	Wick Lamp	Candles	Firewood	Total
Monduli	214	286	71	4,286	500	21,646	71	1,857	28,933
Arusha	128	469	0	1,279	0	682	0	0	2,557
Karatu	713	802	0	8,199	2,317	22,725	891	446	36,093
Ngorongoro	71	213	0	3,055	568	13,784	213	10,871	28,776
Longido	0	116	0	953	173	9,072	87	1,242	11,644
Arusha Rural	3,225	1,075	239	21,977	2,150	19,230	0	358	48,253
Meru	5,368	1,220	122	27,086	1,586	13,543	244	122	49,292
Total	9,719	4,180	432	66,835	7,295	100,682	1,506	14,896	205,547
%	4.7	2.0	0.2	32.5	3.5	49.0	0.7	7.2	100.0

10.6: 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
Monduli	8,359	429	214	714	1,143	17,003	286	714	0	0	0	71	28,933
Arusha	2,174	43	0	0	170	0	43	128	0	0	0	0	2,557
Karatu	16,754	2,495	535	8,288	2,852	4,367	446	178	0	178	0	0	36,093
Ngorongoro	7,673	711	142	2,345	4,831	9,876	0	2,913	0	0	71	213	28,776
Longido	5,923	202	982	925	780	1,965	116	722	0	29	0	0	11,644
Arusha Rural	38,459	478	239	1,792	1,075	5,375	358	239	0	239	0	0	48,253
Meru	33,675	1,342	244	610	2,928	8,297	244	0	0	0	0	1,952	49,292
Total	113,017	5,699	2,356	14,673	13,780	46,882	1,492	4,895	0	446	71	2,237	205,547
%	55.0	2.8	1.1	7.1	6.7	22.8	0.7	2.4	0.0	0.2	0.0	1.1	100.0

10.7: Number of Agricultural Households Reporting Distance to Main Source of Drinking Water during Wet Season by District, 2007/08 Agricultural Year

District	Less than 100m	100-299 m	300-499 m	500-999 m	1-1.99 Km	2-2.99 Km	3-4.99 Km	5-9.99 Km	10Km and above	Total
Monduli	2,143	1,072	0	5,358	12,859	1,072	3,215	3,215	0	28,933
Arusha	1,918	0	0	639	0	0	0	0	0	2,557
Karatu	0	12,031	0	5,347	16,041	2,674	0	0	0	36,093
Ngorongoro	4,263	0	0	6,395	10,658	2,132	3,197	1,066	1,066	28,776
Longido	867	1,300	0	2,109	4,334	2,167	433	433	0	11,644
Arusha Rural	14,213	10,749	1,792	14,333	3,583	0	3,583	0	0	48,253
Meru	10,981	10,859	3,660	12,811	1,830	5,490	0	3,660	0	49,292
Total	34,385	36,011	5,452	46,992	49,305	13,534	10,429	8,374	1,066	205,547
%	16.7	17.5	2.7	22.9	24.0	6.6	5.1	4.1	0.5	100.0

10.8: Number of Agricultural Households Reporting Time Spent to and from Main Source of Drinking Water during Wet Season by District, 2007/08 Agricultural Year

District	Less than 10	10-19 Minutes	20-29 Minutes	30-39 Minutes	40-49 Minutes	50-59 Minutes	1 Hour and Above	Total
Monduli	2,143	1,072	1,072	9,644	0	1,072	13,931	28,933
Arusha	1,279	0	639	639	0	0	0	2,557
Karatu	5,347	1,337	4,010	16,041	0	1,337	8,021	36,093
Ngorongoro	2,132	0	3,197	6,395	0	1,066	15,986	28,776
Longido	1,734	0	867	2,109	0	0	6,934	11,644
Arusha Rural	17,796	5,375	7,166	8,958	1,792	1,792	5,375	48,253
Meru	18,301	3,538	0	18,301	0	0	9,151	49,292
Total	48,732	11,321	16,952	62,088	1,792	5,266	59,397	205,547
%	23.7	5.5	8.2	30.2	0.9	2.6	28.9	100.0

10.9: 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	Other	Total HH
Monduli	11,359	1,072	500	786	1,643	13,145	71	143	0	143	0	71	28,933
Arusha	1,577	85	85	43	554	128	0	0	85	0	0	0	2,557
Karatu	20,230	3,119	535	1,337	4,010	4,991	446	1,159	178	89	0	0	36,093
Ngorongoro	8,739	924	568	1,989	4,831	8,668	71	2,842	0	71	0	71	28,776
Longido	6,587	491	1,127	780	2,051	462	0	116	0	29	0	0	11,644
Arusha Rural	38,579	358	358	717	2,150	5,733	0	0	0	358	0	0	48,253
Meru	32,088	1,952	244	976	4,514	7,199	122	0	122	0	0	2,074	49,292
Total	119,160	8,001	3,418	6,627	19,755	40,326	710	4,259	385	690	0	2,217	205,547
%	58.0	3.9	1.7	3.2	9.6	19.6	0.3	2.1	0.2	0.3	0.0	1.1	100.0

10.10: 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
Monduli	1,072	0	0	1,072	4,286	3,215	10,716	7,501	1,072	28,933
Arusha	639	0	0	0	1,279	639	0	0	0	2,557
Karatu	0	5,347	0	8,021	17,378	5,347	0	0	0	36,093
Ngorongoro	1,066	0	1,066	6,395	9,592	1,066	5,329	3,197	1,066	28,776
Longido	0	433	0	1,676	5,201	1,734	867	1,300	433	11,644
Arusha Rural	14,213	8,958	0	12,541	7,166	0	3,583	1,792	0	48,253
Meru	10,981	12,689	5,490	9,151	3,660	5,490	0	1,830	0	49,292
Total	27,971	27,427	6,556	38,854	48,562	17,491	20,495	15,620	2,571	205,547
%	13.6	13.3	3.2	18.9	23.6	8.5	10.0	7.6	1.3	100.0

10.11: Number of Agricultural Households Reporting Time Spent to and from Main Source of Drinking Water during Dry Season by District, 2007/08 Agricultural Year

District	Less than 10 Minutes	10 - 19 Minutes	20 - 29 Minutes	30 - 39 Minutes	40 - 49 Minutes	50 - 59 Minutes	above one Hour	Total
Monduli	1,072	1,072	0	3,215	0	0	23,575	28,933
Arusha	639	0	0	639	0	0	1,279	2,557
Karatu	2,674	1,337	4,010	10,694	1,337	0	16,041	36,093
Ngorongoro	0	0	3,197	6,395	1,066	1,066	17,052	28,776
Longido	0	0	433	867	0	0	10,343	11,644
Arusha Rural	14,213	3,583	7,166	10,749	1,792	0	10,749	48,253
Meru	14,641	3,538	1,830	16,471	1,830	0	10,981	49,292
Total	33,239	9,530	16,637	49,030	6,024	1,066	90,021	205,547
%	16.2	4.6	8.1	23.9	2.9	0.5	43.8	100.0

10.13: Number of Agricultural Households Reporting type of Toilet the household normally use by District, 2007/08 Agricultural Year

District	No Toilet / Bush	Flush Toilet	Traditional Pit Latrine	Improved Pit Latrine - hh Owned	Other Type	Total
Monduli	21,932	214	5,429	1,357	0	28,933
Arusha	0	213	1,875	469	0	2,557
Karatu	2,495	446	29,944	2,584	624	36,093
Ngorongoro	21,173	284	5,968	355	995	28,776
Longido	9,303	29	2,196	87	29	11,644
Arusha Rural	8,480	1,553	34,279	3,703	239	48,253
Meru	976	1,830	39,531	6,955	0	49,292
Total	64,360	4,569	119,222	15,510	1,886	205,547

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

District	One	Two	Three	Total
Monduli	1,572	16,431	10,930	28,933
Arusha	213	384	1,960	2,557
Karatu	446	15,774	19,873	36,093
Ngorongoro	213	19,255	9,308	28,776
Longido	1,387	4,305	5,952	11,644
Arusha Rural	4,419	20,424	23,410	48,253
Meru	1,098	22,572	25,622	49,292
Total	9,348	99,144	97,056	205,547

10.15 Number of Agricultural Households Reporting Number of days the household Consumed Meat during the Preceding Week by District, 2007/08 Agricultural Year

District	Not Eaten	One	Two	Three	Four	Five	Six	Seven	Total
Monduli	12,431	7,644	7,787	786	143	71	0	71	28,933
Arusha	597	1,065	511	298	0	85	0	0	2,557
Karatu	6,060	14,526	13,546	1,426	356	89	0	89	36,093
Ngorongoro	10,160	9,663	5,187	1,563	639	1,492	0	71	28,776
Longido	3,698	3,785	3,120	867	87	29	29	29	11,644
Arusha Rural	8,600	20,185	14,213	4,539	597	119	0	0	48,253
Meru	10,005	19,521	14,031	2,684	1,952	732	122	244	49,292
Total	51,550	76,390	58,396	12,163	3,775	2,618	151	505	205,547
%	25.1	37.2	28.4	5.9	1.8	1.3	0.1	0.2	100.0

10.16 :Number of Agricultural Households Reporting Number of days the household Consumed Fish during the Preceding Week by District, 2007/08 Agricultural Year

District	Not Eaten	One	Two	Three	Four	Five	Six	Seven	Total
Monduli	18,860	7,716	1,500	500	286	71	0	0	28,933
Arusha	1,108	852	256	298	43	0	0	0	2,557
Karatu	12,031	12,833	9,447	802	713	178	89	0	36,093
Ngorongoro	24,157	3,268	1,279	0	71	0	0	0	28,776
Longido	7,743	2,774	1,040	58	29	0	0	0	11,644
Arusha Rural	24,127	13,019	8,002	2,508	358	0	239	0	48,253
Meru	19,033	18,179	7,199	3,294	1,220	244	122	0	49,292
Total	107,060	58,641	28,722	7,461	2,720	494	450	0	205,547
%	52.1	28.5	14.0	3.6	1.3	0.2	0.2	0.0	100.0







10.17: Number of Agricultural Households Reporting the status of food satisfaction of the household during the Preceding Year by District, 2007/08 Agricultural Year

District	Never	Seldom	Sometimes	Often	Always	Total
Monduli	2,715	8,501	5,215	7,430	5,072	28,933
Arusha	1,620	341	213	341	43	2,557
Karatu	6,862	18,269	1,515	5,614	3,832	36,093
Ngorongoro	4,618	8,810	1,279	5,400	8,668	28,776
Longido	1,734	3,063	1,040	3,207	2,600	11,644
Arusha Rural	19,110	17,199	3,941	5,614	2,389	48,253
Meru	19,033	17,935	4,758	5,246	2,318	49,292
Total	55,692	74,119	17,962	32,852	24,922	205,547
%	27.1	36.1	8.7	16.0	12.1	100.0

10.18 :Number of Agricultural Households Reporting Main Source of Income by District, 2007/08 Agricultural Year

District	Sales of Food Crops	Sale of Livestock	Sale of Livestock Products	Sales of Cash Crops	Sale of Forest Products	Business Income	Wages & Salaries in Cash	Other Casual Cash Earnings	Cash Remittance	Fishing	Other	Not applicable	Total
Monduli	9,859	12,145	1,929	1,000	286	1,143	71	1,929	357	0	143	71	28,933
Arusha	1,747	128	85	0	0	213	170	170	43	0	0	0	2,557
Karatu	20,675	3,030	1,069	2,228	0	1,159	2,050	5,169	356	89	0	267	36,093
Ngorongoro	2,913	23,518	568	142	71	497	284	568	213	0	0	0	28,776
Longido	2,918	6,876	607	58	0	347	87	636	87	0	29	0	11,644
Arusha Rural	26,038	3,344	5,016	1,194	0	4,539	3,105	3,344	836	0	0	836	48,253
Meru	26,476	1,830	2,806	6,222	0	4,026	3,904	2,440	1,220	0	366	0	49,292
Total	90,626	50,871	12,081	10,845	357	11,924	9,672	14,257	3,112	89	538	1,175	205,547
%	44.1	24.7	5.9	5.3	0.2	5.8	4.7	6.9	1.5	0.0	0.3	0.6	100.0

Appendix III: QUESTIONNAIRES

United Republic of Tanzania							
							
							
Small holder/Small Scale Farmer questionnaire							
Identification <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>							
Agricultural Sample Census 2007/2008							
							
							
Enumerator Name Signature Date of Enumeration							
<input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> d d m m y y y y	Start Time End Time						
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Hour</th> <th style="width: 50%;">Minutes</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"><input type="text"/></td> <td style="text-align: center;"><input type="text"/></td> </tr> <tr> <td style="text-align: center;"><input type="text"/></td> <td style="text-align: center;"><input type="text"/></td> </tr> </tbody> </table>	Hour	Minutes	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Hour	Minutes						
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<input type="text"/>	<input type="text"/>						
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 Agriculture and Food Security, Ministry of Livestock and Fisheries Development, Ministry of Agriculture and Environment of Zanzibar, Ministry of Water and Irrigation, Prime Ministers' Office Regional Administration and Local Government, Ministry of Industry Trade and Marketing, National Bureau of Statistics, and the Office of the Government Statistician General of Revolution Governemnet of Zanzibar							

Definition and working page for page 1

General Definitions

Who is a Smallholder /Small Scale farmer?

Should have one or more of the following: in the 2007/08 farming season had one or more cultivated and planted farms. The farm land may either be owned, rented, borrowed. The farmer may also be raising 1 and 50 head of cattle and/or between 5 and 100 head of sheep/Goats/Pigs and/or between

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 members of the same household even if they stay in separate dwellings. An individual who lives and eat alone is

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

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.

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'

1.0 IDENTIFICATION DETAILS		
1.1 Location		Identification <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Na.	Location Name	Codes
1.1.1	Rgion	<input type="text"/> <input type="text"/>
1.1.2	District	<input type="text"/>
1.1.3	Ward	<input type="text"/> <input type="text"/> <input type="text"/>
1.1.4	Village	<input type="text"/> <input type="text"/> <input type="text"/>
1.2 Deetails of the respondent or household head		
Na.		Codes
1.2.1	Name and number of local leader	<input type="text"/> <input type="text"/> <input type="text"/>
1.2.2	Name and number of household head	<input type="text"/> <input type="text"/>
1.2.3	Sex of household head	<input type="text"/>
1.2.4	Name of respondent	/
1.2.5	Relationship of Respondent to household head	<input type="text"/> <input type="text"/>
<p>Relationship to household head codes (Q 1.2.5)</p> <p>Head of Household .....1 Son /Daughter .....3 Grandson/Granddaughter.....5 No relationship.....7</p> <p>Spouse.....2 Father/Mother.....4 Other relatives.....6</p>		
2.0 ACTIVITIES OF THE HOUSEHOLD		
2.1	Typeof Agriculture Household	<input type="text"/> <input type="text"/>
<p>Household agricultural activities codes(Q 2.1)</p> <p>Crops only.....1 Livestock only .....2 Pastoralist.....3 Crops and Livestock .....4</p>		

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 not complete his/her education at this level, then his/her highest education level reached is Standard Two. For those indicated under code 3 (not studied) in column 8 should be marked code 99 (Not applicable) in column 9.

Section 3.0 Note

Make sure that you define the hh proper to ensure that all the members of the hh are included. Ensure that you stress that the hh is not just the hh heads direct family and that it includes other people living and eating together with the family.

If you notice that the hh is large or you see many people around the hh and you have been given a smaller number of the hh members, make further enquiries until you are sure that you have captured all the hh members.

Section 3.0 Household information.

- ii) For each household member complete columns 1,2,3 and 3
After completing columns 1, 2, 3 and 3 for each household member, go back to the first household member and complete the remaining columns for that member.
- iii) Repeat step 2 for the rest of the household members.

3.0 HOUSEHOLD INFORMATION													
3.1 Give details of personal particulars of all hh members beginning with hh head											Identification		
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	Level 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											
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Relationship to household head (Col 2)

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

Marrital Status(Col 4)

Married.....1
 Single.....2
 Co-habiting3
 Divorced
 Separated.....4
 Widow/widower.....5

Survival of Parents(Col 6 & 7)

Yes.....1 No2
 Dont't know3

Ed.ucation Level(Col 9)

Studying1
 Has completed.....2
 Never been to school3

Reading and writing (Col 8)

Kiswahili.....1
 English2
 Kiswahili and English.....3
 Lugha nyingine.....4
 Cannot read or write.....5

Education Level (Col 10)

<u>Primary education</u>	<u>Secondary Education</u>
Below Standard One.....00	Form One.....11
Standard One .....01	Form Two .....12
Standard Two.....02	Form 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 Secondary Ed.....17
Standard Seven.....07	University and other Tertiary Ed...8
Standard Eight ..08	Adult Education.....19
Training after Primary Ed...09	Not applicable .....99
Pre Form One.....10	

Involvement in farming activities (Col 11)

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

Main activity (Col 12)

Crop farming:01.
 Livestock farming/herding:02.
 Pastoralist03
 Fishing04
 Fish farming05
 Paid employment /
 Government/parastatal.....06
 Private/NGOs07
 Self employee (Off-farm activities)
 - With employees08
 - Without employees09
 Non paid household member (off-farm activities)10.
 Unemployed but available for work11
 Unemployed but unavailable for work..12
 House mother13
 Student14
 Unable to work too old, too young, retired, disabled, child 15
 Others (specify)98

Off-farm Income (Col 13)

These are income made from activities NOT on the HH's farming activities. This can be from formal employment (e.g. in government etc.), temporary jobs, casual labourers and income generation activity and includes working for cash on other people's farms. Indicate whether each member was involved in an off farm income generating activity during 2007/08

Definitions and working page for page 3

Definitions for Key Specific Questions

Section 4.1 – Land Access/Ownership

These are areas that were used by the households for the 2007/08 farming season

Lease/Certificate of Ownership: Area under lease/certificate of ownership refers to the areas which were issued by the government. The household possesses government issued leasehold title or certificate of ownership. The land will normally be officially surveyed and boundaries marked. This includes leased land bought from others where the lease/certificate of ownership has been transferred.

Customary Law: This refers to the land which the household does not have an official government but its right of use is granted by the traditional leaders.

Bought: This refers to the areas of customary land that has been bought from others. This land does not have an official title and therefore is not leasehold.

Rented from others: Land rented from others for cash or for a fixed amount in crop produce (e.g. fixed number of bags at harvest).

Borrowed: use granted by land owner free of charge. Land owner can either be a lease holder or has right of access through customary law.

Share cropping: where the household is permitted to use land which is then paid for from a percentage of the harvested crop

Section 4.2 Land Use

Temporary crops: are sown and harvested during the same agricultural year

Permanent crops: are crops once sown or planted last for some years and need not to be replanted after each annual harvest.

Permanent crops /mixed crops: This is a mixture of permanent and seasonal crops. The two crops can either be randomly planted together or in a particular pattern e; for example intercropping (1 row of maize and 1 row of beans). A field that has been divided into plots for different crops is not mixed).

This is further subdivided into:

Mixture of Permanent crops – two or more permanent crops grown together

Mixture of Permanent and Temporary crops – permanent crop and annual crop together

Mixture of Temporary crops– two or more temporary, annual crops grown together

Pasture land: this is an area of owned/allocated land which is set aside for livestock grazing. It can be improved pasture where the farmer has planted grass, applied fertilized or where other means have been applied to improve the pasture. Or it can be natural pasture.

Natural Bush: Land which has naturally grown shrubs and trees and is considered productive but is not utilized for farming or livestock production.

Overview to section 4

Overview to section 4

Section 4.0: Preliminary note

Land Access/Ownership

Land access/ownership refers to the area utilized by the members of the household. This does not include communal land where the resources are shared between household members. It does not include official communal land that the household has sole access to for example a plot for crop farming in the communal area.

Procedures for questions

Section 4.0 – Land Ownership

1. Ask the respondent if he knows the total areas of land the household has sole access to. If he knows make a note in the calculation space
2. Ask the respondent the area of the different land ownership categories the household has sole access to (Q4.1, 1 to 4.1.7) and record in the appropriate spaces.
3. Add up the area of the different categories of land and compare it with the total area obtained in step 1 (if the respondent provided the information)
4. If the total area is different find out which one is correct and make

Section 4.2: Land Use

1. Ask the respondent the area of the different land use categories the household has sole access to (Q4.2.1 to 4.2.12) and record in the appropriate spaces.
2. Add up the area of the different categories of land and compare it with the total area obtained in section 4.0. The total area should be the same.
3. If the total area is different find out which one is correct and make amendments where appropriate.

4.0 LAND ACCESS/OWNERSHIP/TENURE			
4.1 LAND ACCESS/OWNERSHIP/TENURE		Identification <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	
Give details on Area owned by the household during 2007/08 agricultural season.			
Give area as reported by the respondent in acres		Area in Acre	
4.1.1	Area under certificate of ownership	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/>	4.1.8 Was the whole household area used during the 2007/08 agricultural season? (Yes=1, No=2) <input type="checkbox"/>
4.1.2	Area owned under customary law	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/>	4.1.9 Do you consider to have enough land for your household? (Yes=1, No=2) <input type="checkbox"/>
4.1.3	Area bought	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/>	
4.1.4	Area rented from others	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/>	
4.1.5	Area borrowed from others	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/>	
4.1.6	Area share cropped from others	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/>	4.1.10 Is there any female who owns land or has customary rights to land ownership in this household? (Yes=1, No=2) <input type="checkbox"/>
4.1.7	Area under other forms of tenure	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/>	
Total area		<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/>	
4.2 LAND USE			
Area used by the household for various agricultural activities during 2007/08 agricultural season			
Enter area as reported by the respondent in acres		Area in acre	Working space for calculations
4.2.1	Area planted temporary monocrops	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/>	
4.2.2	Area planted temporary mixed crops (e.g. maize and beans)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/>	
4.2.3	Area planted permanent monocrops	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/>	
4.2.4	Area planted permanent mixed crops (e.g. banana, coffee, trees)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/>	
4.2.5	Area planted permanent and temporary mixed crops (e.g. maize and banana)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/>	
4.2.6	Area under pasture	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/>	
4.2.7	Area under fallow	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/>	
4.2.8	Area under natural forest	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/>	
4.2.9	Area planted trees	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/>	
4.2.10	Area rented to others	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/>	
4.2.11	Area unsuitable for agriculture	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/>	
4.2.12	Uncultivated arable land (minus area under fallow)	<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/>	
Total area		<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/>	

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				%	Area for
				temporary	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				%	Area for
				temporary	temporary crop
Name of the crop temp/permanent 1					
Name of the crop temp/permanent 2					
Name of the crop temp/permanent 3					
Check total area			Check total area for temporary crops		

Planted Area: Area in acre the household was able to plant
Harvested Area: Area in acre the household was able to harvest a large portion of harvests. this is the same as the area planted minus the area that was destroyed by floods/ pests /

Temporary/Annual Crops
Crops planted and harvested within 12 months after which time the plants die. Most annual crops are planted and harvested on a seasonal base.

Cash crop codes:

Code	Crop
50	Cotton
51	Tobacco
53	Payrethrum
62	Jute
19	Seaweed

Crop Codes(Creal / Tubers/ Roots):

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

Vegetable Codes:

Code	Crop
86	Cabbage
87	Tomatoes
88	Spinach
89	Carrot
90	Chillies
91	Amaranths
92	Pumpkin
93	Cucumber
94	Egg plant
95	Water mellon
96	Cauliflower
06	Mellion
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 column b and enter the ground area per acre for each permanent crop (from instructions for page 8) in column d.
- (ii) Enter the number of permanent trees in the mix in column e as will be provided to you by the respondent
- (iii) Calculate the area occpied by each crop by multiplying column d and collumn e and sum up these to obatin the total area of permanent crops in the mix.
- iv) To obatin the area for temporary crops , subtract (-) the area fro permanent crops from thne total area of crop mix and enter the result in in the total area under temporary crops.
- (v) Proceed to step 1 to calculate the area under each temporary crop.

1. Enter the name of each temporary crop in tyhe crop mix and estimate percentages of each crop.

2. Using the percentage for each crop, calculate the are for each crop from the remaining area under temporary crop.

3. After completing the excrise for all the fields, sum the area of each crop in tyhe mix plus any monocrops and enter the totals in section 5.1.1 Collumn 3.

4. Once the quantity harvested is obtained , cakculate the yields (metric tonnes/acre) and compare the figures with the norms given in the crops code box. If there is significantly differentece, check the area and the amount harvested..

5.0	PERMANENT AND TEMPORARY CROP PRODUCTION													Identificatioon									
5.1	ANNUAL CROPS AND VEGATBLE PRODUCTION-SHORT RAINY SEASON																						
Did your household palnted any crop duding short rainy season for 2007/08 agricultural year? Yes = 1, No = 2,(If the answer is yes proceed to Section 5.3)																							
5.1.1	Provide the following details for each crop planted during the short rainy season for 2007/08 agricultural year																						
Name of Crop	Planting		Main crop owner: Enetr the number of the hh member from page 2 on informati on for hh members	Use of Seeds					Irriga ted area	Pembejeo					Use of chemicals agaistn weeds (If 6 is the answer in col 11 proceed to col 20)								
	Crop code	Actual area plnated (acre)		The type of seed planted	Use of seeds	Quantity		Cost (Tshs)		Cultiv ated area	Tye p of fertili sers used	Quantity of fertilisers		Coist (Ths)	Cultiv ated areaE neolililot umika	Quanaity of agrochemicals		Cost					
						Quant ity	Quantity used					Meas urement	Quantity used			Quant ity	Quantity used						
	(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19)																						
Total area planted																							
Type of seeds planted (Col 5) Local seeds ...1 Improved seeds.....2					Use of agricultural seeds (Col 6) For the whole crop.....1 3/4 of the whole crop.....2 1/2 of tyhe whole crop.....3 1/4 ofd the whole crop.....4 Under 1/4 of the whole crop...5					Qunatity (Col 7) Kg .....1 Seedlings...2 Gram.....3			Use of farm inputs (SCol10,11 & 16) For the whole crop.....1 3/4 of the wholecrop.....2 1/2 of tyhe whole crop.....3 1/4 ofd the whole crop.....4 Under 1/4 of the whole crop...5 Not used .....6					Type of fertilisers (Col 12) Organic fertiliser.....1 inorganic fertilisers.....2			Kipimo (S/wima 13) Kilo .....1 Lita.....2 Milli-lita..3		
Main crop owner: (Col 4) Enter number of hh member from page 2 on details on hh members in Q. 3					Quantity (Col 17) Kig .....1 Litre.....2 Gram.....3 Millilitre....6																		

5.2 ANNUAL CROPS AND VEGETABLE 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 <input type="text"/>															
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 whole crop.....2
 1/2 of the whole crop.....3
 1/4 of the whole crop.....4
 Under 1/4 of the whole crop...5
 Not used6

Quantity (Col 21&25)

Kilogram.....1
 Litre.....2
 Gram.....3
 Millilitre.....6

Main Storage mechanisms (Col 30)

Local storage facilities.....1
 Improved Local storage facilities2
 Modern store.....3
 Open drums/sacks.....4
 Cealed drums.....5
 In heaps.....6
 not Stored.....7
 Other means (Specify).....8

Where the crop was sold(Col 32)

Neighbours.....01 Private Businessman.....08
 Open markets02 Contract farming.....09
 Auctions.....03 Not sold.....10
 Main Market.....04 Others98
 Cooperative Union.....05
 Farmers Association.....06
 Large Scale farm.....07

Marketing problems (Col 33)

Very low prices.....01 No problem11
 No transport.....02 Others (Specify).....98
 High transport costs.....03 Not applicable99
 Lack of crop buyers04
 Markets located far away .05
 Problems with farmers Associations 06
 Problems with cooperative Unions7
 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 structures:** The design of storage structures villagers have inherited from forefathers .
- **Improved Traditionally made structures:** The design of traditional storagesrutures improved through modern technology.

Marketing Challenges Q 5.1.1 Col. 33:

- **Farmers' Association:** Village farmers who came together and started an association for the puporses of purchasing inputs/selling/storage of crops aiming at fetching better prices.
- **Cooperative Union:** A large inter-village/community set up in the district/ region or at national level for providing inputs, markets and storage of farmers' crops.
- **Government Regulatory laws for crops marketing:** Government instituted laws for reulatina transpotation and sellina of crops.

Inputs (Q 5.1.1)

- Farm Yard Manure:** An organics fertiliser made on farm from animal dung. .
- Compost:** An organic fertiliser made on farm from decomposed plant materials.
- Insecticides:** This is the chemical usde in protecting plants or killing pests.
- Fungicides:** Protects plants from fungi attack.
- Herbicide:** Chemicals used to control or kills weeds.
- Improved seeds:** Scientifically attested to be suitable for agricultural use.

Questions specific definitions

Q 5.1.1. Instructions on crops storage:

1. For the listed crops establish whether or not the household stored crops for 2007/2008 agricultural season.
2. For the listed crops give explanations on storage.

Crops storage is keeping/reserving crops in a container or a special place for future use.

Q 5.1.1 Col 31

1. For each of crops listed indicate major marketing problems for 2007/2008 agricultural season.

Working area/calculation space

Definitions and working page for page 6

Working table for the calculation area for annual mixed crops

Mixed crops 1	Crop Name	Total area of mixed (acre)	Area for plants (acre)	Total number of plants	Total area of plants (acre)
(a)	(b)	(c)	(d)	(e)	(f)=(d)*(e)
Permanent crop 1		0.000			n
Permanent crop 2		0.000			n
Permanent crop 3		0.000			n
Permanent crop 4		0.000			n
Total Area for mixed crops			Total area for permanent crops		n
The remaining area for temp crops					
			%	Area for	
			temporary	permanent crop	
Name of the crop temp/permanent 1					. . . . .
Name of the crop temp/permanent 2					. . . . .
Name of the crop temp/permanent 3					. . . . .
Check total area			Check total area for temporary crops		

Mazao mchanganyiko 2	Name of plant	Total area mix (acre)	Area for the plant (acre)	Total of plants	Total area for plants (acre)
(a)	(b)	(c)	(d)	(e)	(f)=(d)*(e)
Permanent crop 1			0.000		n
Permanent crop 2			0.000		n
Permanent crop 3			0.000		n
Permanent crop 4			0.000		n
Total area for mixed crops			Total area for permanent crops		n
The remaining area for temp crops					
			%	Area for	
			temporary	temporary crop	
Name of the crop temp/permanent 1				
Name of the crop temp/permanent 2				
Name of the crop temp/permanent 3				
Check total area			Check total area for temporary crops		

Planted Area: Area in acre the household was able to plant
Harvested Area: Area in acre the household was able to harvest a large portion of harvests. this is the same as the area planted minus the area that was destroyed by floods/ pests /

Temporary/Annual Crops
 Crops planted and harvested within 12 months after which time the plants die. Most annual crops are planted and harvested on a seasonal base.

Cash crop codes:
 Code Crop
 50 Cotton
 51 Tobacco
 53 Payrethrum
 62 Jute
 19 Seaweed

Crop Codes(Creal / Tubers/ Roots):
 Code Crop
 11 Maize
 12 Paddy
 13 Sorghum
 14 Buirush Millet
 15 Finger Millet
 16 Wheat
 17 Barley
 22 Sweet Potatoes
 23 Insh Potatoes
 24 Yams
 25 Cocoyamsi
 26 Onions
 27 Gingeri

Vegetable Codes:
 Code Crop
 85 Cabbage
 87 Tomatoes
 88 Spinach
 89 Carrot
 90 Chillies
 91 Amaranths
 92 Pumpkin
 93 Cucumber
 94 Egg plant
 95 Water melon
 96 Cauliflower
 06 Melliton
 05 nyanyachungu
 02 Oca
 03 Radish
 01 Green Beans
 04 Bizari

Crop Codes Legumes and Oil
 Code Crop
 31 Beans
 32 Cowpeas
 33 Green Gram
 34 Chick Peas
 35 Dangu
 36 Bambara nuts
 37 Njegere
 41 Sun flower
 42 Simsim
 43 Ground uts
 47 Soya beans
 48 Caster Seed

Instructions for calculating the area of mixed crops in a mixture
A. If the mixed crop is mixed annual ly only enter the total area of the field in the remaining area under temporary Crop and go to step one of these instructions
B. If the mixed crop is mixed permanent and annual try to work tyhe percent age taken by the different crops and calcaulet the area of annual crops outlined in step 1. Otherwise use the number of trees method to calculate the area of annula crops in the mix.
C: Number of trees method to calculate annual crop areas in a permanent-annual crop mix.:
 (i) List each of tyhe permanent crop in collumn b and enter the ground area per acre for each permanent crop (from instructions for page 8) in colum d.
 (ii) Enter the number of permanent trees in the mix in collumn e as will be provided to you by the respondent.
 (iii) Calculate the area occupied by each crop by multiplying collumn d and collumn e and sum up these to obtain the total area of permanent crops in the mix.
 iv) To obtain the area for temporary crops , subtract (-) the area fro permanent crops from thne total area of crop mix and enter the result in in the total area under temporary crops.
 (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 tenporary crop.
3. After completing the excrise for all the fields, sum the area of each crop in tyhe mix plus any monocrops and uenter the totals in section 5.1.1 Collumn 3.
4. Once the quantity harvested is obtained , calculate the yields (metric tonnes/acre) and compare the figures with the norms given in the crops code box. If there is significantly difference, check the area and the amount harvested..

5.3 PERMANENT/PERENNIAL CROPS AND FRUIT TREE PRODUCTION											Identification <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>						
Does your household have any permanent/perennial crops or fruit trees Yes =1, No = 2, (If answer is NO proceed to Section 6.0) <input type="text"/>																	
5.3.1 Give details on permanent/perennial crops or fruit trees																	
Production Section																	
		Monocrops			Mixed crops			Main crop owner:		Farm inputs							
Name of permanent/perennial crop	crop code of permanent / perennial crop/ fruit trees	Area for trees/seedling/branch/bushes	Area for mixed crops (Acre)		Number of Tplants/ trees in the crop mix of permanent and perennial crop		Enter the number of the hh member from page 2 on information for hh	Uses of seeds			Uses of Fertilisers (If 6 is the answer in col 13 proceed to col. 17)						
								Type of planted seeds	Cultivated area	Size		Cost (Ths)	Irrigation	Area used	The type of fertiliser used	Quantity of fertiliser (kg)	Cost (Ths)
										Quantity	Used						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)		
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>		
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>		
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>		
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>		
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>		
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>		
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>		
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>		
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>		
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>		
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>		
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	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>		

Type of seed planted (Col 7)

Local seeds.....1

Improved seeds.....2

Don't know/ Not applicable...3

Main crop owner (Col 6):

Enter 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)

Kg1

Seedlings...2

Gram.....3

Use of farm inputs (Col 12 & 13)

For the whole crop.....1

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

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

1/4 ofd the whole crop.....4

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

Not used 6

Type of fertilers (Col 14)

Organic fertiliser... .. 1

Definitions and working page for page 7

Storage (Col. 30, Q 5.2.1):

- **Traditionally Made structures:** The design of storage structures villagers have inherited from forefathers .
- **Improved Traditionally made structures:** The design of traditional storage structures improved through modern technology.

Marketing Challenges Q 5.2.1 Col. 33:

- **Farmers' Association:** Village farmers who came together and started an association for the purposes of purchasing inputs/selling/storage of crops aiming at fetching better prices.
- **Cooperative Union:** A large inter-village/community set up in the district/ region or at national level for providing inputs, markets and storage of farmers' crops.
- **Government Regulatory laws for crops marketing:** Government instituted laws for regulating transportation and selling of crops.

Inputs (Q 5.2.1)

- Farm Yard Manure:** An organic fertilizer made on farm from animal dung. .
- Compost:** An organic fertilizer made on farm from decomposed plant materials.
- Insecticides:** This is the chemical used in protecting plants or killing pests.
- Fungicides:** Protects plants from fungi attack.
- Herbicide:** Chemicals used to control or kills weeds.
- Improved seeds:** Scientifically attested to be suitable for agricultural use.

Questions specific definitions

Q 5.2.1. Instructions on crops storage:

1. For the listed crops establish whether or not the household stored crops for 2007/2008 agricultural season.
2. For the listed crops give explanations on storage.

Crops storage is keeping/reserving crops in a container or a special place for future use.

Q 5.2.1 Col 33

1. For each of crops listed indicate major marketing problems for 2007/2008 agricultural season.

Working area/calculation space

Definitions and working page for page 8

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 trees such as coconut trees, 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 trees (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 column 3.
- B. For a field with a permanent crop mix or a temporary crop mix, enter the number of trees only in column 4.
- C. For a field with a permanent crop mix /temporary annual crops, either:
 - Enter the area in column 4, if the total area for permanent crops was obtained through calculation of percentages of each crop
 - OR
 - Enter the number of tree in column 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 tree	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	Cinamon	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 structures:** The design of storage structures villagers have inherited from forefathers .
- **Improved Traditionally made structures:** The design of traditional storagesrutures improved through modern technology.

Marketing Challenges Q 5.3.1 Col. 35:

- **Farmers' Association:** Village farmers who came together and started an association for the puporses of purchasing inputs/selling/storage of crops aiming at fetching better prices.
- **Cooperative Union:** A large inter-village/community set up in the district/ region or at national level for providing inputs, markets and storage of farmers' crops.
- **Government Regulatory laws for crops marketing:** Government instituted laws for regulatina transportation and selling of crops.

Inputs (Q 5.3.1)

- Farm Yard Manure:** An organics fertliser made on farm from animal dung. .
- Compost:** An organic fertliser made on farm from decomposed plant materials.
- Insecticides:** This is the chemical usde in protecting plants or killing pests.
- Fungicides:** Protects plants from fungi attack.
- Herbicide:** Chemicals used to control or kills weeds.
- Improved seeds:** Scientifically attested to be suitable for agricultural use.

Questions specific definitions

Q 5.3.1. Instructions on crops storage:

1. For the listed crops establish whether or not the household stored crops for 2007/2008 agricultural season.
2. For the listed crops give explanations on storage.

Q 5.3.1 Col 35

1. For each of crops listed indicate major marketing problems for 2007/2008 agricultural season.

Working area/calculation space

Definitions and working page for page 10**Investment in agriculture****Investment activities:**

Investment activities refer to medium to long term farm development structures and projects. This can be irrigation structures, erosion control and water harvesting structures or other permanent or semi-permanent investment made on the land that the household owns.

Irrigated farming: Section 6.5:

Source of irrigation water (Col 1): The main source of the water used for irrigation.

Method of obtaining water (Col 2): The mechanism by which the water is extracted from the source

Irrigatable area (Col 3): The area the irrigation system is designed to cover in acreage

Area of irrigated land during the 2007/08 (Col 5): Area of land under irrigation during the 2007/08 agricultural year. This is the actual area and NOT the cumulative areas recultivated in 2 or more cropping seasons.

Farm Implements (Col. 1):

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

Sprinkler: The pump carried on the back or a hand used water pump

Hand used small tractor: A small tractor used in cultivation while the user walks on foot (see photo).

**Section 6.2 Use of draft animals**

Animals used in agricultural activities by the household during 2007/08 agricultural season.

Castrated Bulls: Castrated oxen meant for use in agricultural production.
Uncastrated Bulls: mature bulls used for garicultural 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 donkeys are also used for agricultural production.

Q 6.5 Irrigation.

1. If a household uses irrigated farming give explanations on source and method of obtaining 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. Column 2 Indicate whether or not inputs were used

2. Complete column 3 by entering the number of inputs used.

Farm inputs: Sections 6.3 and 6.4

1. Column 2 Indicate whether or not inputs were used.

2. Complete column 3 by indicating where the inputs were obtained and column 4 by indicating the distance from where the inputs were obtained

Compost: An organic fertiliser made on farm from decomposed plant materials.

Insecticides: This is the chemical used in protecting plants or killing pests.

Fungicides: Protects plants from fungi attack.

Herbicide: Chemicals used to control or kills weeds.

Improved seeds: Scientifically attested to be suitable for agricultural use.

Tractor tiller	<input type="checkbox"/>	<input type="checkbox"/>			6.2.6 Power Tiller	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																
Tractor hallow	<input type="checkbox"/>	<input type="checkbox"/>			6.3 USE OF ORGANIC FERTILISERS																																						
Castrated bulls	<input type="checkbox"/>	<input type="checkbox"/>			6.3.1 Give details on the use of organic fertilisers during 2007/08 agriculture year																																						
Uncastrated bulls	<input type="checkbox"/>	<input type="checkbox"/>			Type of fertiliser	Used	Yes=1, No=2	Quantity	Quantity used	Area used (Acre)																																	
Cows	<input type="checkbox"/>	<input type="checkbox"/>			(1)	(2)	(3)	(4)	(5)																																		
Donkeys	<input type="checkbox"/>	<input type="checkbox"/>			6.3.2 Manure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																
Shredding Machine	<input type="checkbox"/>	<input type="checkbox"/>			6.3.3 Compost	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																
Power Tiller	<input type="checkbox"/>	<input type="checkbox"/>			<p>ACCES TO INPUTS</p> <p>Give details on inputs used during 2007/08 agricultural year</p> <table border="1"> <thead> <tr> <th>Name of inputs</th> <th>Used (Yes=1, No=2)</th> <th>Source</th> <th>Distance</th> </tr> <tr> <th>(1)</th> <th>(2)</th> <th>(3)</th> <th>(4)</th> </tr> </thead> <tbody> <tr> <td>Inorganic fertilisers</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Farm yard manure</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Compost</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Insecticides/Fungicide</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Pest and weeds control chemicals</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Improved seeds</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table> <p>Source (Col.3)</p> <p>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 Others98 Not applicable.....99</p> <p>Quantity (Col.3)</p> <p>Kg.....1 Ton.....2</p> <p>Distance from the source (Col.4)</p> <p>Under 1 kilometre1 Between One and three kilometres2 Between three and 10 kilometres3 Between 10 and 20 Kilometres4 Over 20 Kilometres.....5 Not applicable.....9</p>							Name of inputs	Used (Yes=1, No=2)	Source	Distance	(1)	(2)	(3)	(4)	Inorganic fertilisers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Farm yard manure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Compost	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Insecticides/Fungicide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pest and weeds control chemicals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Improved seeds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Name of inputs	Used (Yes=1, No=2)	Source	Distance																																								
(1)	(2)	(3)	(4)																																								
Inorganic fertilisers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																								
Farm yard manure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																								
Compost	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																								
Insecticides/Fungicide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																								
Pest and weeds control chemicals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																								
Improved seeds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																								
Oxen pulled plough for making terraces	<input type="checkbox"/>	<input type="checkbox"/>																																									
IRRIGATED FARMING					<p>Source of irrigation water (Col 1)</p> <p>River.....1 Wells.....4 Lake2 Deep wells.....5 Dams.....3 Cannals6 Tape water.....7</p>																																						
Did the household use irrigated farming during 2007/08 agriculture year? Yes=1, No = 2 <input type="checkbox"/>					<p>Means of obtaining water(C0I2)</p> <p>Flwoing- (gravity).....1 Using a bucket.....2 Water pump (using hand or leg).....3 Electric /fuel driven pump/ mafuta.....4 Other (Specify).....8</p>																																						
If the answer is yes proceed to Section 6.6					<table border="1"> <thead> <tr> <th>Na.</th> <th>Main source of water for irrigation</th> <th>Main source of obtaining water</th> <th>Area that can be irrigated (Acre)</th> <th>Area irrigated during 2007/08 agriculture year (Acre)</th> </tr> <tr> <th></th> <th>(1)</th> <th>(2)</th> <th>(3)</th> <th>(4)</th> </tr> </thead> <tbody> <tr> <td>6.5.2</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>							Na.	Main source of water for irrigation	Main source of obtaining water	Area that can be irrigated (Acre)	Area irrigated during 2007/08 agriculture year (Acre)		(1)	(2)	(3)	(4)	6.5.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																	
Na.	Main source of water for irrigation	Main source of obtaining water	Area that can be irrigated (Acre)	Area irrigated during 2007/08 agriculture year (Acre)																																							
	(1)	(2)	(3)	(4)																																							
6.5.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																							

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 down the speed of water and thus preventing soil erosion. Its differs from terraces in that the soils on these banks are not at ground level .

Gabions: A box like structure made of wire and filled with large stones to prevent gully erosion.

Sand bags: Are used in controlling and preventing gully erosion

Tree belt/wind breaks: Trees planted against the wind direction for breaking wind speed..

Section 7.0 Acces to credit for crop or livestock production

Credit refers to something provided in cash or in kind (such as farm inputs, machines, livestock and other things) for crop or livestock production. The value of the credit must be repaid back to the lender. An Interest may or may not be attached to the value of the credit

The credit may be repaid either in cash or through farm produce to be harvested .

In this question the enumerator is at liberty to inquire up to three sources of credit where the farmer accessed credit from more than one source.

Section 8.0 Agricultural Extension Services

Agricultural Extension Services: Refers to educational services provided to farmers by exetsion officers for the purposes of increasing crop and livestock production.

Share-cropping: Refers to farming where smallholder / Smallscale farmer enters into an agreement with large scale farmer where the former sells produce to the latter in exchange of provisions of farm inputs and the like. .

Contract farming Farming: Farming agreement entered between smallscale and large scale farmerswith regards to markets of farm produce and provision of farm inputs

Q 6.6 Number of water harvestin structures and year of construction

1. The number water haversting structures refers to the number of wokring / maintained structures and does not include derelict or iireparable structures.

2. Year of construction refers to the year in which the structures were built, and not the year the structures were last repaired.The year should be written in figures e.g. 1998, 2006.

Section 7.0 Source of agriculture credit

If tghe farmer obtained credit from more than one source the use the code from the list provided. Start with the main source of credit in Section "7.1.1".a

Section 8.0 Agricultural extension services

1. Ask if the household did receive agricultural extension services during 2007/08 agricultural season from the respondents listed in collumn 1, then enter column 2.

2. Complete all columns for every extension officer.

6.6 SOIL EROSION Identification <input type="checkbox"/>						
6.6.1 Did the household experience soil erosion during 2007/08 agriculture year? (Yes=1, No=2) <input type="checkbox"/>						
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) <input type="checkbox"/>						
Na.	Mechanisms of controlling erosion/ Water harvesting (1)	Number of water harvesting (2)	Year of construction (3)	Type of erosion control/water harvesting (1)	Number of water harvesting (2)	Year of construction (3)
6.6.3	Terraces	<input type="checkbox"/>	<input type="checkbox"/>	6.6.7	Tree belt	<input type="checkbox"/>
6.6.4	Bunks for erosion control	<input type="checkbox"/>	<input type="checkbox"/>	6.6.8	Soil bunks of water harvesting	<input type="checkbox"/>
6.6.5	Gabions/sand bags	<input type="checkbox"/>	<input type="checkbox"/>	6.6.9	Trenches	<input type="checkbox"/>
6.6.6	Vetiva leaves	<input type="checkbox"/>	<input type="checkbox"/>	6.6.10	Other	<input type="checkbox"/>
7.0 ACCESS TO ON FARM CREDITS						
7.1 Is there any household member who accessed on farm credit during 2007/08 agriculture year? Yes=1, No=2 (If answer is NO, Proceed to Section 7.2) <input type="checkbox"/>						
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 projectsl.....7 Bank.....2 Busineman/Shop.....5 Cooperative Union.....3 Private individuaks.....6 Other.....9				Source of credit		
				7.1.1a	7.1.2a	7.1.3a
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				Credit provided to		
				7.1.1b	7.1.2b	7.1.3b
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				(Male=1, Female=2)		
7.2 IF THE ANSWER TO QUESTION 7.1 IS NO						
Give reasons for not accessing credit Reasons for not accessing credit (Q 7.2)COL Not 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) <input type="checkbox"/>						
8.2 Did the household participate in the contract farming during 2007/08 agriculture year? (Yes=1, No=2) <input type="checkbox"/>						
8.3 Did your household receive agricultural advise on the following : (IF THE ANSWER IS NO IN COL 2 PROCEED TO THE FOLLOWING QUESTION						
Na.	Advise on agriculture (1)	Received advice (Yes=1, No=2) (2)		Source of advise (3)		
8.3.1	Spacing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.3.2	Use of agrochemicals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.3.3	Soil erosion control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.3.4	Use of organic manure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.3.5	Matumizi ya mbolea za viwandani	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.3.6	Use of improved seeds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.3.7	Use of modern farm implements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.3.8	Irrigation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.3.9	Crop Storage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.3.10	Pest control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.3.11	Other (Specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Source of agricultural advice (Caki. 3) Government.....1 NGO/Development project.....2 Cooperative.....3 Large Scale farmer.....4 Radio/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 livestock during 2007/08 agricultural season (i.e. from October 2007 to September 2008). Also to establish the number of livestock as of 1st October 2008

Keeping or raising livestock is to to keep livestock at home while providing the livestock with animal feeds and medication and other services. The livestock could be owned by the farmer or kept on behalf of relatives or neighbours .

Sections 9.1.1 to 9.1.7 Cattle

Note:

Q 9.1 is for the actual number of cattle owned or kept by the household (as of 1st October 2008). This number does not include herds of cattle kept on behalf by relatives or neighbours; that is, the cattle outside the residential area of the household under survey.

1. If the the household keep mature fecund female cattle, it is expected that such a household will have calves which will be entered in question 9.1.6 or 9.1.7

Type of cattle (section 9.1.1 to 9.1.7)

Bull: Mature uncastrated male cattle used for breeding

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

Ox: Castrated male cattle used for farm work

Steer: Castrated male cattle used for meat

Heifer: Female cattle of 1 year up to the first calving

Section 9.3 Goat

Note:

Question 9.3 is for the actual number of owned or raised by the household (as of 1st October 2008) This number does not include goats kept on behalf by relatives or neighbours, that is the goat outside the residential area of the household under survey.

1. If the household has she goats, you would normally expect them to have kids

Type of Goat (Qs 9.3.1 to 9.3.5)

Billy Goat (he-goat): Mature Uncastrated male goat used for breeding

Castrated goat: Male goat that has been castrated

She Goat: Mature female goat over 9 months of age

9.0 LIVESTOCK (LIVESTOCK AND FISH)																								
9.1 CATTLE Identification <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>																								
Did your household keep or raise cattle during 2007/08 agriculture year? Yes=1, No= 2 (If the answer is No proceed to Section 9.3) <input type="checkbox"/>																								
Number of cattle as of 1.10.2008																								
No.	Type of cattle	Number of indigenous cattle (2)	Number of improved cattle		Total (5)																			
			for meat (3)	Dairy (4)																				
9.1.1	Castrated bulls	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>																			
9.1.2	uncastrated bulls	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>																			
9.1.3	Cows	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>																			
9.1.4	Steers	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>																			
9.1.5	Heifer	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>																			
9.1.6	Male calves	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>																			
9.1.7	Female calves	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>																			
					Grand total	<input type="text"/>																		
9.1.8 What main methods do you use to identify your cattle? <input type="checkbox"/>																								
<table border="1"> <tr> <th colspan="6">Cattle identificatio methods</th> </tr> <tr> <td>Iron stamp (chapa moto).....1</td> <td>Throat.....2</td> <td>Ear/tail cutting.....3</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Colour.....4</td> <td>Earrings...5</td> <td>Other8</td> <td></td> <td></td> <td></td> </tr> </table>							Cattle identificatio methods						Iron stamp (chapa moto).....1	Throat.....2	Ear/tail cutting.....3				Colour.....4	Earrings...5	Other8			
Cattle identificatio methods																								
Iron stamp (chapa moto).....1	Throat.....2	Ear/tail cutting.....3																						
Colour.....4	Earrings...5	Other8																						
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	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>																		
9.2.2		Indigenous	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>																		
9.2.3	Dry	Improved	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>																		
9.2.4		Indigenous	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>																		
9.3 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) <input type="checkbox"/>																								
Number of goats as of 1.10.2008																								
Na.	Type of goat (1)	Number of indigenous goat (2)	Number of improved		Total (5)																			
			for meat (3)	Dairy (4)																				
9.3.1	Male uncastrated goat	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>																			
9.3.2	Male castrated goat	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>																			
9.3.3	She goat	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>																			
9.3.4	Male kid	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>																			
9.3.5	She kid	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>																			
					Grand total	<input type="text"/>																		
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	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>																		
9.3.7	Dry	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>																		

Definitions and working page for page 13

Q 9.1 and 9.3 : What is required is to establish whether or not the household kept or raised the listed livestock during 2007/08 agricultural season (i.e. from October 2007 to September 2008). Also to establish the number of livestock as of 1st October 2008

Keeping or raising livestock is to 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 lttter of pigs.

Gilt; Female pig of over 3 months up to the first farrowing

Piglet: Young pig less than 3 months of age

Identification <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>								
9.4 SHEEP				9.5 PIGS				
Did your household keep or raise cattle during 2007/08 agriculture year? Yes=1, No=2 (If the answer is No proceed to Section 9.5) <input type="checkbox"/>				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) <input type="checkbox"/>				
Number of sheep as of 1.10.2008				Number of pigsp as of 1.10.2008				
Na.	Type of sheep	Number of indigenous sheep	Number of improved	Total	Na.	Type Pigs	Number of pigs	
	(1)	(2)	(3)	(5)		(1)	(2)	
9.4.1	Ram	<input type="text"/>	<input type="text"/>	<input type="text"/>	9.5.1	Boar	<input type="text"/>	
9.4.2	Castrated sheep	<input type="text"/>	<input type="text"/>	<input type="text"/>	9.5.2	Castrated male	<input type="text"/>	
9.4.3	She sheep	<input type="text"/>	<input type="text"/>	<input type="text"/>	9.5.3	Sow/Gilt	<input type="text"/>	
9.4.4	Male lamb	<input type="text"/>	<input type="text"/>	<input type="text"/>	9.5.4	Male piglet	<input type="text"/>	
9.4.5	Female lamb	<input type="text"/>	<input type="text"/>	<input type="text"/>	9.5.5	Female piglet	<input type="text"/>	
Grand total				<input type="text"/>	Grand total		<input type="text"/>	
9.6 OTHER LIVESTOCK								
	Type of animal	Number as of 1 October 2008	Number of eggs			Type of animal	Number as of 1 October 2008	Number of Eggs
	(1)	(2)	2007/08 agriculture year (3)			1	(2)	(3)
9.6.1	Local chicken	<input type="text"/>	<input type="text"/>		9.6.6	Turkeys	<input type="text"/>	<input type="text"/>
9.6.2	Layers	<input type="text"/>	<input type="text"/>		9.6.7	Rabbit	<input type="text"/>	
9.6.3	Broilers	<input type="text"/>	<input type="text"/>		9.6.8	Donkeys	<input type="text"/>	
9.6.4	Ducks	<input type="text"/>	<input type="text"/>		9.6.9	Horses	<input type="text"/>	
9.6.5	Guinea pigs	<input type="text"/>	<input type="text"/>		9.6.10	Dogs	<input type="text"/>	

Definitions and working page for page 14**Control of livestock diseases causing bugs**

Livestock worm control medicine: Medicine used to kill or control livestock on livestock . It is often used for cattle, goats, sheep and pigs.

Tiick: Is a dangerous bug that sucks blood 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)		<input type="checkbox"/>	<input type="checkbox"/>
9.7.1	Which animals did your deworm? (Yes=1, No =2, Not applicable=3 in the relevant box) Cattle <input type="checkbox"/> 9.7.2 Goat/Sheep <input type="checkbox"/> 9.7.3 Pigs <input type="checkbox"/> 9.7.4 Poultry <input type="checkbox"/>		<input type="checkbox"/>
9.7.5	Do you experience tick problem with your livestock? (Yes =1, No = 2, Not applicable 3)	<input type="checkbox"/>	<input type="checkbox"/>
9.7.6	How did you control tick problem? Control method (Q. 9.7.6): Dipping.....1 Spaying.....2 Application of medicine on back bone.....3 None..4 Other.....8	<input type="checkbox"/>	<input type="checkbox"/>
9.7.7	Do you experience Tse tse problem with your livestock? (Yes =1, No = 2, Not applicable 3)	<input type="checkbox"/>	NOTE : If answers to Qs 9.1 to 9.6 is No (THAIS THE HOUSEHOUSE DOES NOT RAISE LIVESTOCK,) Proceed to q.9.9
9.7.8	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	<input type="checkbox"/>	
9.7.9 9.7.7	Do you experience Newcastle disease problem with your poutry? (Yes =1, No = 2, Not applicable 3)	<input type="checkbox"/>	
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	<input type="checkbox"/>	
9.7.11	Did you experience Fowl Typhoid with your poutry? Yes=1, No=2 , Not applicanlei=3	<input type="checkbox"/>	
9.7.12	How did you control/ cure Fowl Typhoid with your poutry? Control/curative methods(Swall 9.7.12) Vaccination..1 Herbs....2 Noe..3	<input type="checkbox"/>	
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 <input type="checkbox"/> 9.7.13B: Skin disease <input type="checkbox"/>		
9.8 Extension services on livestock			
Did you receive the following extension advice on the followinge? (IF THE ANSWER IS NO IN COL 2 PROCEED TO THE FOLLOWING QUESTION)			
Na.	Livestock extension advice	Received Extension advice (Yes=1, No=2)	Source of Extension
	(1)	(2)	(3)
9.8.1	Feed and better feeding methods	<input type="checkbox"/>	<input type="checkbox"/>
9.8.2	Improved livestock shed (Goat, Dairy cattle, Poutry and pigs)	<input type="checkbox"/>	<input type="checkbox"/>
9.8.3	Milking and hygiene	<input type="checkbox"/>	<input type="checkbox"/>
9.8.4	Cattle fattening	<input type="checkbox"/>	<input type="checkbox"/>
9.8.5	Livetsock diseases control	<input type="checkbox"/>	<input type="checkbox"/>
9.8.6	Livestock keeping in line with land availability	<input type="checkbox"/>	<input type="checkbox"/>
9.8.7	Pasture establisihment and maintenace	<input type="checkbox"/>	<input type="checkbox"/>
9.8.8	Forming and strengthening groups/cooperatives	<input type="checkbox"/>	<input type="checkbox"/>
9.8.9	Calf rearing	<input type="checkbox"/>	<input type="checkbox"/>
9.8.10	Basics of production and use of improved bulls (AI)	<input type="checkbox"/>	<input type="checkbox"/>
9.8.11	Animals feed production	<input type="checkbox"/>	<input type="checkbox"/>
9.8.12	Other extension advice (Specify)	<input type="checkbox"/>	<input type="checkbox"/>
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

Definitions and working page for page 16**10.0 Household poverty indicators****Number of rooms used for sleeping in the household (Q 10.1.4)**

Include sitting room, dining room, kitchen, etc if used for sleeping.

It also includes rooms outside the main dwelling

A room is defined as a space which is separate from the rest of the building by a permanent wall or division. A building / house that is not divided into rooms is considered to have one room.

Household assets (Q 10.2):

These assets must be functional. Do not include if broken.

Access to drinking water (Q 10.4):

If there is more than one source use the one, which the hh uses most frequently.

Main source of hh cash income:(Q 10.7:





Activity that provides the hh with the most cash during 2007/08 agricultural season.

10.0 POVERTY INDICATORS		Identification <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>																																			
<p>10.1 HOUSE CONSTRUCTION Specify materials used in the construction of the following sehemu zifuatazo</p> <p>10.1.1 Roof <input type="checkbox"/> 10.1.2 Floor <input type="checkbox"/> 10.1.3 Wall <input type="checkbox"/></p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>Roofing materials</p> <p>Iron sheets.....1 Tiles.....2 Concrete.....3 Asbestos.....4 Grass/Makuli.....5 Grass and mud.....6 Other.....8</p> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>Floor materials</p> <p>Earthen material.....1 Wood.....2 Wooden tiles.....3 Tiles.....4 Cement.....5 Other.....8</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>Main materials</p> <p>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</p> </div> <p>10.1.4 Number of bedrooms <input type="text"/></p>	<p>10.2 Household property Does your household own the following?, (Yes=1 No=2)</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Number</th> <th style="width: 70%;">Property</th> <th style="width: 20%;">Yes=1, No=2</th> </tr> <tr> <th colspan="2" style="text-align: center;">(1)</th> <th style="text-align: center;">(2)</th> </tr> </thead> <tbody> <tr><td>10.2.1</td><td>Radio (Radio, Radio Casette, music system)</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>10.2.2</td><td>Land line</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>10.2.3</td><td>Celkl phone</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>10.2.4</td><td>Iron</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>10.2.5</td><td>Trolley</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>10.2.6</td><td>Bycicle</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>10.2.7</td><td>Vehicle</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>10.2.8</td><td>TV/ Video</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>10.2.9</td><td>Refrigerator</td><td style="text-align: center;"><input type="checkbox"/></td></tr> <tr><td>10.2.10</td><td>Motorbike/vespa</td><td style="text-align: center;"><input type="checkbox"/></td></tr> </tbody> </table>	Number	Property	Yes=1, No=2	(1)		(2)	10.2.1	Radio (Radio, Radio Casette, music system)	<input type="checkbox"/>	10.2.2	Land line	<input type="checkbox"/>	10.2.3	Celkl phone	<input type="checkbox"/>	10.2.4	Iron	<input type="checkbox"/>	10.2.5	Trolley	<input type="checkbox"/>	10.2.6	Bycicle	<input type="checkbox"/>	10.2.7	Vehicle	<input type="checkbox"/>	10.2.8	TV/ Video	<input type="checkbox"/>	10.2.9	Refrigerator	<input type="checkbox"/>	10.2.10	Motorbike/vespa	<input type="checkbox"/>
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10.2.9	Refrigerator	<input type="checkbox"/>																																			
10.2.10	Motorbike/vespa	<input type="checkbox"/>																																			
<p>10.3 Energy use and availability in the household</p> <p>Main source of energy</p> <p>10.3.1 Lightining <input type="checkbox"/> 10.3.2 Cooking <input type="checkbox"/></p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>Nishati za Kuangazia</p> <p>Umeme.....01 Sola.....02 Gesi (biogas).....03 Taa ya kandili.....04 Karabai.....05 Kibatai.....06 Mishumaa.....07 kuni.....08 Nyingine.....98</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>Nishati za kupikia</p> <p>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</p> </div>	<p>10.4 Availability of drinking water</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;"></th> <th style="width: 20%;">Season</th> <th style="width: 10%;">Main source of water</th> <th style="width: 15%;">Distance from source (km)</th> <th style="width: 45%;">Time spent waiting going to and from the source (Hours)</th> </tr> <tr> <th></th> <th style="text-align: center;">(1)</th> <th style="text-align: center;">(2)</th> <th style="text-align: center;">(3)</th> <th style="text-align: center;">(4)</th> </tr> </thead> <tbody> <tr> <td>10.4.1</td> <td>Rainy</td> <td style="text-align: center;"><input type="text"/></td> <td style="text-align: center;"><input type="text"/></td> <td style="text-align: center;"><input type="text"/></td> </tr> <tr> <td>10.4.2</td> <td>Dry period</td> <td style="text-align: center;"><input type="text"/></td> <td style="text-align: center;"><input type="text"/></td> <td style="text-align: center;"><input type="text"/></td> </tr> </tbody> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>Main source of drinking water</p> <p>Col. 2</p> <p>Tape water.....01 Water venders.....09 Artificial well.....02 Boozer.....10 Artificial spring.....03 Bottled water.....11 Openwell.....04 Other (Specify).....98 Natural spring.....05 Lake water, pond, river, stream n etc.....06 Covered Rain water harvesting well.....07</p> </div>		Season	Main source of water	Distance from source (km)	Time spent waiting going to and from the source (Hours)		(1)	(2)	(3)	(4)	10.4.1	Rainy	<input type="text"/>	<input type="text"/>	<input type="text"/>	10.4.2	Dry period	<input type="text"/>	<input type="text"/>	<input type="text"/>																
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10.4.2	Dry period	<input type="text"/>	<input type="text"/>	<input type="text"/>																																	
<p>10.5 Toilet facilities</p> <p>10.5.1 What type of toilet does your household use? <input type="checkbox"/></p> <div style="border: 1px solid black; padding: 5px;"> <p>Typ of toilet</p> <p>No toilet/in the bush.....1 Pit latrine.....4 Flash toilet.....2 Other type (Specify).....8 Ordinal pit latrine.....3</p> </div>	<p>10.6 Eating patterns</p> <p>10.6.1 How many meals does your household usually get per day? <input type="checkbox"/></p> <p>10.6.2 How days did the household eat meat last week? <input type="checkbox"/></p> <p>10.6.3 How days did the household eat fish last week? <input type="checkbox"/></p> <p>10.6.4 How many times did the household experience food shortages last year? <input type="checkbox"/></p> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>Food shortage problems (Swali 10.6.4)</p> <p>Never.....1 Few times.....2 Sometimes.....3 Many times.....4 Often.....5</p> </div>																																				
<p>10.7 Main source of household cash income?</p> <p>10.7.1 What are the sources of household income? <input type="checkbox"/></p> <div style="border: 1px solid black; padding: 5px;"> <p>Code for source of income</p> <p>Selling food crops.....01 Sales of foerst products.....05 Cash assinatce.....09 Sales of livestock.....02 Business.....06 Fishing.....10 Sales of livestock products.....03 Salaries.....07 Other.....98 Sales of cash crops.....04 Casual labour.....08 None.....99</p> </div>	<div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>TIME OF FINISHING THE INTERVIEW</p> <table style="width:100%;"> <tr> <th style="width: 80%;">Hour</th> <th style="width: 20%;">Minutes</th> </tr> <tr> <td style="text-align: center;"><input type="text"/></td> <td style="text-align: center;"><input type="text"/></td> </tr> </table> </div>	Hour	Minutes	<input type="text"/>	<input type="text"/>																																
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<input type="text"/>	<input type="text"/>																																				

Average/maximum yields per area											
Use this table to compare the yields calculated in Sections 5.1, 5.2 and 5.3.											
These stats are strictly to be used as a guide for the purpose of assisting to get the correct area and yields for each crop.											
Name of Crop	Kilogram/ha		Kilogram/acre		Name of Crop	Kilogram/ha		Kilogram/acre			
	Average	Max	Average	Max		Average	Max	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	Maharɛ Beans	400	1,300	304	3,441	56	Cocoa	150	1,000	4,049	8,097
32	Cow peas	300	1,750	121	709	57	Rubber	400	1,400	6,883	8,097
33	Green gram	1,500	1,800	1,012	2,024	58	Wattle			324	10,121
34	Pigeon peas	600	1,500	243	607	59	Kapok			0	0
35	Chick peas	500	1,500	202	607	60	Sugar cane	60,000	150,000	24,291	60,729
36	Bambara nuts	600	4,000	243	1,619	61	Cardamon	3,000		1,215	0
41	Sun flower	600	1,700	243	688	71	Banana	10,000	50,000	4,049	20,243
42	Simsim	300	1,000	121	405	72	Avocado			0	0
43	Gound nuts	600	4,000	243	1,619	73	Mango	10,000	25,000	4,049	10,121
47	Soyabeans	1,300	2,500	526	1,012	74	Pawpaw	50,000	70,000	20,243	28,340
48	Caster seeds	300	750	121	304	76	Orrage	15,000	40,000	6,073	16,194
75	Pineapple	25,000	60,000	10,121	24,291	77	Grape fruit	30,000	50,000	12,146	20,243
50	Cotton	300	1,500	121	607	78	Grapes	5,000	30,000	2,024	12,146
51	Tobacco	500	1,500	202	607	79	Mandarin	15,000	40,000	6,073	16,194
53	Pyrethrum			0	0	80	Quava	7,000	35,000	2,834	14,170
62	Jute	800	3,500	324	1,417	81	Plums			0	0
44	Palm oil	1,150	5,000	466	2,024	82	Tufaha		20,000	0	8,097
45	Cononut	1,500	8,000	607	3,239	83	Pea	15,000	27,000	6,073	10,931
46	Cashw nut	9	60/tree	4	24	84	Pitches	14,000	57,000	5,668	23,077
						66	Clove	4,500	5,000	1,772	1,969
							Black pepper	2,000	3,750		
							Mung'unye				
							Ocra	1,000	1,500		

Appendix V

Community Level Questionnaire United Republic of Tanzania

ACQ 3		CONFIDENTIAL																						
	Village/Community Level Formats Access to and Use of Community Resources Farm Gate Prices of commodities produced by the village																							
 Agricultural Sample Census 2007/2008		NUMBER OF FARMERS HH IN THE VIALLAGE <i>To be filled by the enumerator after completing form ACLF2</i>																						
NUMBER OF HH MEMBERS <i>To be filled by the enumerator after completing form ACLF2</i>																								
Region	<input type="text"/>	Ward																						
District	<input type="text"/>	Village																						
Enumerator Name _____ Signature _____ Date of Enumeration <table style="display: inline-table; border: 1px solid black; margin-right: 20px;"> <tr><td><input type="text"/></td><td><input type="text"/></td></tr> <tr><td style="text-align: center;">d</td><td style="text-align: center;">d</td></tr> </table> <table style="display: inline-table; border: 1px solid black; margin-right: 20px;"> <tr><td><input type="text"/></td><td><input type="text"/></td></tr> <tr><td style="text-align: center;">m</td><td style="text-align: center;">m</td></tr> </table> <table style="display: inline-table; border: 1px solid black;"> <tr><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td></tr> <tr><td style="text-align: center;">y</td><td style="text-align: center;">y</td><td style="text-align: center;">y</td><td style="text-align: center;">y</td></tr> </table> Start Time End Time		<input type="text"/>	<input type="text"/>	d	d	<input type="text"/>	<input type="text"/>	m	m	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	y	y	y	y	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">Hour</th> <th style="width: 50%;">Minutes</th> </tr> <tr> <td><input type="text"/></td> <td><input type="text"/></td> </tr> <tr> <td><input type="text"/></td> <td><input type="text"/></td> </tr> </table>	Hour	Minutes	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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y	y	y	y																					
Hour	Minutes																							
<input type="text"/>	<input type="text"/>																							
<input type="text"/>	<input type="text"/>																							
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																						
District checking in Office District Supervisor Name _____ Signature _____ Date ____/____/____		All questionnaires must be checked at the district office.																						
For Use at Regional Level Only Data entered by: Name _____ Signature _____ Date ____/____/____ Queried Name _____ Signature _____ Date ____/____/____		See the back page for details of queries																						
Ministry of Agriculture and Food Security, Ministry of Livestock and Fisheries Development, Ministry of Agriculture and Environment of Zanzibar, Ministry of Water and Irrigation, Prime Ministers' Office Regional Administration and Local Government, Ministry of Industry Trade and Marketing, National Bureau of Statistics, and the Office of the Government Statistician General of Revolution Government of Zanzibar																								

Definitions and working page for page 3

Question Specific Definitions:

Obtain answers to the following questions from the meeting between the enumerator and influential farmers in the village. Influential people can be Village Chairman, Village Government Executive Officer, Councillor, Ward Chairman, Extension Officer in the village or any other person in the village and who is well informed about village matters. It is important to not that these questions must be asked in groups (of more than one people) to obtain answers discussed and approved by many people.

Definitions of some specific terms

Access to community resources. Section 1.0

Community Resources: Resources in which the hh members have no individual claim to and which are shared together by all the village
Community Land: The area official demarcated by the village as shared/public land.

Squatting farmers Land: Communal land where individual hhs make sole claim to (for crop farming or fenced livestock) without official rights to ownership.

Available remaining Land: Official area of communal land minus areas of squatting farmers.

Government Land Reserve: Area set aside by the government as national reserve

Community tree planting scheme(Section 14.3)

Community Forest: A forest planted on the communal land which is planted, replanted or spt planted by the members of the village.

Plant Planting: An area designated by the village for planting a block of trees.

Spot Planted: Replanting an area where selective logging has been carried out. A tree is planted to replace the one that has been cut.

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/R region. Its function is to provide deveopment assistance to the farmer and is free from direct government links.

Village level organization: is managed by members of the village. Its purpose is normally to access/provide development assistance to the village


ACCESS TO COMMUNAL RESOURCES

1. ACCESS TO COMMUNITY RESOURCES										
1.1 Does the village set aside an area for communal resources e.g. forest, grazing, etc. (Yes=1 No=2) <input type="checkbox"/>										
<i>(If the answer is no proceed to 1.2)</i>										
Area of Community, Village, Ward resources					Area in acre					
1.1.1 Total area of communal land					<input type="text"/>					
1.1.2 Area of squatting farmers in communal land					<input type="text"/>					
1.1.3 Remaining available communal land					<input type="text"/>					
1.1.4 Government reserve land					<input type="text"/>					
1.2 UPATIKANAJI NA MATUMIZI YA MALIASILI ZA JUMUIYA/KIJI/SHEHIA										
Community Resources		Distance from the resource in Km- season			Main Use		Instructions on distance from the resource (Cols 2 and 3): Distance is estimated from the centre of the village. If under 1 km 1, enter 0 If above 1 km 1 enter whole number , eg. 1.5km= 2km, 1.25km= 1km			
		Dry	Rainy							
1.2.1 Water for human consumption		<input type="text"/>	<input type="text"/>		<input type="text"/>		Main uses (Col. 4) Home or farm livestock consumption...1 Sold to traders in the village.....2 Sold to the village market.....3 Sold to local wholesalers.....4 Sold to Big wholesalers.....5 Not available.....6			
1.2.2 Water for livestock		<input type="text"/>	<input type="text"/>		<input type="text"/>					
1.2.3 Communal grazing land		<input type="text"/>	<input type="text"/>		<input type="text"/>					
1.2.4 Communal firewood		<input type="text"/>	<input type="text"/>		<input type="text"/>					
1.2.5 Wood for charcoal burning		<input type="text"/>	<input type="text"/>		<input type="text"/>					
1.2.6 Wood for building poles		<input type="text"/>	<input type="text"/>		<input type="text"/>					
1.2.7 Forest for bee keeping (honey)		<input type="text"/>	<input type="text"/>		<input type="text"/>					
1.2.8 Hunting		<input type="text"/>	<input type="text"/>		<input type="text"/>					
1.2.9 Fishing		<input type="text"/>	<input type="text"/>		<input type="text"/>					
2.0 COMMUNITY PLANTED TREES										
2.1 Did your village have community planted trees during 2007/08 agriculture year? (Yes=1, No=2) <input type="checkbox"/>										
<i>If the answer is no proceed to Section 3.0</i>										
Details of the community tree planting scheme										
No.	Distance from the community forest	Forest Area (acre)	Type of Planting	Type of Trees	Source of seeds/ Seedlings	Number of Years since the start of planting	Main uses 2007/08 agriculture year	Main uses of communal products		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>		
2.2		Type of planting (Col. 3) P/Orchard planting.....1 Spot planting.....2			Source of seedlings (Col. 5) Seeds collection and planting.....1 Village Nursery.....2 Department of Forestry.....3 Private Individuals.....4		Main Uses (Col. 7) Poles.....1 Wood.....2 Charcoal.....3 Firewood.....4 Other (Specify).....8		Main use of revenue (Col. 8) Village development fund.....1 Household use.....2 Household income.....3	
		Type of trees (Col. 4) Indigenous trees.....1 Exotic tree.....2 Both types.....3								
3.0 Non governmental Organisation (NGOs) Contact					4.0 Community Based Organisation					
3.1 Did any NGO visit the village during 2007/08 agriculture year? (Yes=1, No=2) (If no proceed to Section 4) <input type="checkbox"/>					4.1 Did the village have any CBO during the 2007/08 agriculture year? (Yes=1, No=2) <input type="checkbox"/>					
Na.	Type of NGO	Visited Yes=1, No=2	Number of visits	Distance to the Office (km)	Na.	Type of CBO	Na=1, Hap=2			
3.2	Extension/ Research	<input type="text"/>	<input type="text"/>	<input type="text"/>	4.2	Extension/ Research	<input type="text"/>			
3.3	Service /input provision	<input type="text"/>	<input type="text"/>	<input type="text"/>	4.3	Service /input provision	<input type="text"/>			
3.4	Community Development	<input type="text"/>	<input type="text"/>	<input type="text"/>	4.4	Community Development	<input type="text"/>			
3.5	Other	<input type="text"/>	<input type="text"/>	<input type="text"/>	4.5	Other	<input type="text"/>			
5.1 Did the village have Field farm schools during 2007/08 agriculture year? (Yes=1, No=2) <input type="checkbox"/>					5.2 Did the village participate in any research on crops/ improved livestock during in the village during 2007/08 agriculture year? (Yes=1, No=2) <input type="checkbox"/>					
5.3 Did the village have local ironsmiths during 2007/08 agriculture year? (Yes=1, No=2) (If the answer is 2 proceed to q. 5.5) <input type="checkbox"/>					5.5 Did the village have any training centres on draft animals during 2007/08 agriculture year? (Yes=1, No=2) If number 2 is the answer conclude the enumeration. <input type="checkbox"/>					
5.4 Number of local ironsmiths <input type="text"/>					5.6 Number of training centres for draft animals <input type="text"/>					

Appendix V


Village Community Level formats

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KILIMO
KILIMO MIFUGO


ACLIF 1

Sub-village /ward leader listing from

Region _____ Code Ward _____ Code
 District _____ Code Village _____ Code


Sub village leader Number (1)	Name of Ward village leader (2)	Number of Households		Comments (5)
		Form Office Register (3)	After enumeration (4)	
<input type="text"/>		<input type="text"/>	<input type="text"/>	
<input type="text"/>		<input type="text"/>	<input type="text"/>	
<input type="text"/>		<input type="text"/>	<input type="text"/>	
<input type="text"/>		<input type="text"/>	<input type="text"/>	

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ACLIF 2

Household listing from-for listing hh heads and agriculture activities

Region _____ Code Name of sub village leader _____
 District _____ Code Name of sub village _____
 Ward _____ Code
 Village _____ Code


Household number (1)	Household head name (2)	Fields a (3)	Number of								If the Respondent Qualifies X (13)	Farmer Serial Number (14)	
			Cattle				Goats (8)	Sheep (9)	Pigs (10)	Kuku/Bata/ (11)			Rabbit (12)
			Total (4)	Bulls (5)	Cows (6)	Calves (7)							
<input type="text"/>													
<input type="text"/>													
<input type="text"/>													

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ACLIF 3

Household listing for 15 selected farmers



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	Poultry
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)