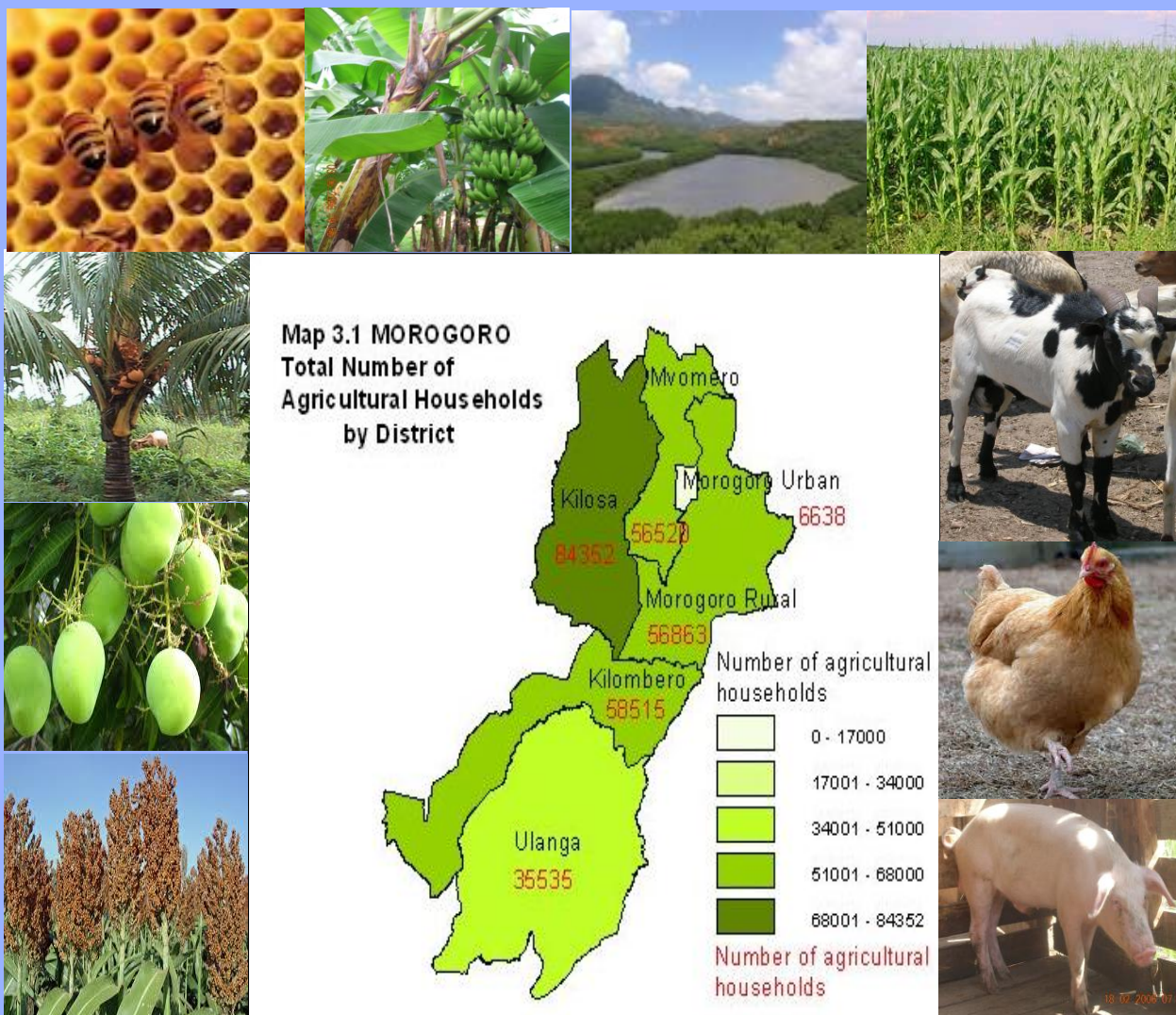




The United Republic of Tanzania

NATIONAL SAMPLE CENSUS OF AGRICULTURE 2007/08

Volume Ve: REGIONAL REPORT: **MOROGORO REGION**



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

OCTOBER, 2012



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ACRONYMS AND ABBREVIATIONS

ASDP	Agricultural Sector Development Programme
CSPro	Census and Survey Processing Program
CSTWG	Censuses and Surveys Technical Working Group
DADIPS	District Agricultural Development and Investment Projects
DADO	District Agricultural Development Officer
DfID	Department for International Development
DIAS	District Integrated Agricultural Survey
DS	District Supervisor
EAS	Expanded Agricultural Survey
EAs	Enumeration Areas
EU	European Union
FE	Field Enumerator
GDP	Gross Domestic Product
GIS	Geographical Information System
ha	Hectares
hh	Household
IAS	Integrated Agricultural Survey
ICR	Intelligent Character Recognition
ID	Identity
IEC	Information, Education and Communication
JICA	Japanese International Cooperation Agency
LRS	Long Rainy Season
MAFC	Ministry of Agriculture, Food Security and Cooperatives
MITM	Ministry of 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 the Office of the Chief Government Statistician, (OCGS), Ministries of Agriculture and Natural Resources; Livestock and Fisheries conducted the Agricultural Sample Census. This is the fourth Agricultural Census to be carried out in Tanzania, the first one was conducted in 1971/72, the second in 1993/94 and 1994/95 (during 1993/94 data on household characteristics and livestock count were collected and data on crop area and production in 1994/95), and the third was conducted in 2002/03.

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

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

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

My appreciation also goes to all those who in one-way or the other have contributed to the success of the census. In particular, I would also like to mention the enormous effort made by the Planning Group composed of professionals from the Agriculture Statistics Department of the National Bureau of Statistics, Ministry of Agriculture, Food Security and Cooperatives, Ministry of Livestock and Fisheries Development, Ministry of Water and Irrigation, Ministry of Agriculture, Livestock and Environment, Zanzibar, the Prime Minister's Office, Regional Administration and Local Government, Ministry of Industries, Trade and Marketing and the Office of the Chief Government Statistician, Zanzibar, the Food and Agriculture Organization of the United Nations and the Censuses and Surveys Technical Working Group (CSTWG).

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

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

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EXECUTIVE SUMMARY

This report presents survey results for Morogoro Region as part of the National Sample Census of Agriculture 2007/08. The report covers small-scale agriculture households in rural areas of Morogoro region who were selected using sampling techniques. The results in the report exclude large-scale farmers. The results are presented under relevant subheadings relating to agricultural production, production practices, productivity, access to resources and levels of involvement in agricultural related activities. A section on poverty indicators is also included to provide an overall picture of the level of poverty among agricultural households in the region.

i. Household Characteristics

The total number of agricultural households in Morogoro region was 298,421 of which 253,187, (85%) cited crop production as their only agricultural activity. An estimated 43,777 households (15%) engaged in mixed crop and livestock production; 1,377 households (0.4%) kept livestock only and about 140 households (0.05%) engaged in pastoral activities. Of the households engaged in crop production only (71,022hh, 28%) were in Kilosa district, followed by Kilombero (49,846hh, 20%), Morogoro Rural (49,562hh, 20%), Mvomero (46,751hh, 18%), Ulanga (30,183hh, 12%) and Morogoro Urban (5,823hh, 2%) .and Among the districts with households rearing livestock-only, Morogoro Rural with 562 households (43 % of the households keeping livestock only in the Region) was leading followed by Mvomero (279hh, 21%), Kilosa (208 hh ,16%), Kilombero (144hh, 11%) and Morogoro Morogoro Urban (124 hh, 9%). Ulanga had no such households. The age distribution of the agricultural households indicated that less than half of the population was in the age bracket of 25-29 years with the remainder in older age brackets.

Literacy refers to the ability to read and write. For members of agricultural households aged 5 years and above, Kilombero had the highest literacy rate of 81 percent and Kilosa had the lowest at 73 percent. Male heads of households, in all districts, were more literate than female heads with their literacy rates ranging from 80 to 88 percent compared to 46 to 84 percent for female heads of households. Kilombero district had the highest proportion of population aged 5 years and above attending school (38%, 95,646 persons). In regard to school attendance, followed by Ulanga (37%, 62,471 persons). However, Mvomero district had the largest proportion of persons who had completed school (51%) while all other districts were in the range of 44-47%.

The level of education attained by the majority of the household members in the region was Standard Seven (77.6 %, 451,743 household members). The proportion of household members who had completed university or other tertiary education was, 0.1% (406 members Kilosa district had the largest number of members (208, 51.2%) with this level of education. No household members had attained university or other tertiary education in Morogoro Rural, Ulanga and Mvomero districts.

ii) Crop Production

Land Area

The total usable land available was 655,471 ha of which Kilosa, Kilombero and Mvomero districts combined accounted for 70.8% (464,086 ha). The planted area with annual crops was distributed in a similar way and. Kilosa, Kilombero and Mvomero districts combined account for 70. % (332,927 ha of the total 475,566 ha planted). The usable land area per household was on average 2.2 ha, the highest being 2.6 ha in Kilombero and the lowest being 1.5 ha in Morogoro Rural District. However, in all districts land utilization was in the range of 80-88% except in Morogoro urban district where 75. % utilization was recorded.

Land Use Types

A wide range land uses were recorded but, land use for crop production was the most dominant. In crop production, the largest part of the land was planted with temporary (annual) crops in monoculture (370,762 ha, 55.7%). Other relatively common land use types with at least 40,000 ha allocated, in decreasing order, were fallow (61,141 ha, 9.2%), temporary mixed crops (57,793 ha, 8.7%) and areas left uncultivated (42,079 ha, 6.4%). The least common land use was planting of trees (2,581 ha, 0.4%).

Planted Area

In Kilosa, Morogoro rural, Morogoro Urban and Mvomero districts, larger areas were planted with annual crops during the long rainy season than during the short rainy season. However, in Kilosa District production of annual crops during the short rainy season was practiced to the greatest extent compared to other districts. the average area planted with annual crops per household was 1.3 ha during the short rainy season and 1.23 ha during the long rainy season.

iii) Crop Types

Cereals were the main type of crops grown in the region occupying 413,949 ha (85.2% of the planted area with annual crops) followed by oil seeds and oil nuts (25,313 ha, 5.2%) and pulses (23,772, 5%). Other field and vegetable crops recorded and the largest area was planted with simsim (17,577 ha, 3.2%), roots and tubers (17,039 ha, 3.5%), fruits and vegetables (5,612ha, 1.2%) and cash crops (347ha, 0.1%).

Cereal Production

Maize and paddy were the two most important cereal crops planted on a total area of 413,949 ha (85% of total 475,566 ha planted with annual crops in the region). Of the two, maize was the most dominant crop planted on 232,377 ha equivalent to (56% of the area under maize and paddy).

Other cereals planted were sorghum (11,530 ha, 3%) bulrush millet (253ha, 0.1%) and wheat (28 ha, 0.01%). Most of the cereals were planted during both short and long rainy seasons except wheat which was planted only in long rainy season. The total production of cereals was 542,383 tonnes and paddy contributed most of the harvested grains (294,715tonnes, 54% of total harvested cereals).

Maize

Maize was the most important cereal in the region and was planted in all districts. Kilosa had the largest area planted (98,185 ha, 42.3%) and the largest number of households that planted the crop (83,102, 30.5% of households growing maize) followed by Mvomero in which maize was planted on 53,225 ha (22.9%) by 58,753 households (21.6% of growing households). Planted areas in other districts were Morogoro rural (33,308 ha), Kilombero (23,673 ha), Ulanga (19,140 ha) and Morogoro urban (4,846 ha). Maize planted areas per maize growing households were generally low; the highest was 1.2 ha in Kilosa and lowest, 0.59 ha per household in Morogoro Rural and Ulanga districts. Maize productivity was 1.03t/ha an improvement compared to 2002/03 when the average maize yield were 0.6t/ha. Yield was highest in Kilombero (1.45 t/ha) followed by Ulanga (1.32 t/ha), Morogoro Urban (1.19 t/ha), Mvomero (1.096t/ha), Kilosa (0.89t/ha) and Morogoro Rural (0.82t/ha,)

Paddy

Paddy was planted in all districts of the region on a total area of 169,762 ha. Kilombero had the largest planted area among all the districts contributed close to half of the regional planted area

(80,207 ha 47.2%). The district also had the largest number of paddy growing households (56,925, 36.9%). Kilombero and Ulanga districts combined accounted for 72% of the total area planted and 57.4% of the total 154,132 households that planted the crop. Highest paddy yield (1.94 t/ha) was just under 2 t/ha recorded in Kilombero and the lowest (0.86t/ha) in Morogoro Urban

Other Cereals

Generally, other cereals (sorghum, bulrush millet, and wheat) were planted by fewer households on a smaller land area (11,811 ha) compared to maize and paddy and mostly in Morogoro Rural District (5,769 ha, 49%), Kilosa (2,703 ha, 23%) and Mvomero (2,583 ha, 22%). Ulanga, Kilombero and Morogoro Urban districts had very small land areas planted with other cereals. Morogoro rural district was the most important district for growing other cereals as the 11,372 households that planted other cereals accounted for 48.7% of the total households that planted these cereals.

Root and Tuber Crop production

Root and tuber crops were planted both during the short and long rainy seasons. A total of 44,745 households planted a variety of root crops of which cassava was planted by the largest number of households (28,535hh, 63.8%) followed by sweet potatoes (12,575hh, 28.1%), Irish potatoes (2,111hh, 4.7 %) and coco yams (1,471hh, 3.3%). Yams were planted by only 53 households (0.1% of households growing roots and tuber crops in the region.

Cassava

The total area planted with cassava in the region was 10,646 ha distributed among 28,535 cassava growing households. The planted areas per households was 0.37 ha and the total production was 23,804 tonnes. Morogoro Rural District had the largest area planted with cassava (3,882 ha), the largest percent of land area planted with the crop (37%) and the largest average area planted per household (0.4 ha). In 2007/08 there was a significant decline in cassava production compared to in 2002/03 when the area planted with cassava was much larger and Morogoro Rural District planted 5,564 hectare.

Sweet Potato

The total area planted with sweet potato in the region was 5,125 ha, planted by a total of 12,575 households. Kilosa District accounted for 63.4% of the planted area (3,251 ha out of a total 5,125 ha); 67.6% of the total production (11,003 tonnes out of a total 16,284 tons) and the largest planted

area per household (0.7 ha). Sweet potatoes were most productive in Kilombero (4.1 t/ha) and lowest in Ulanga (1.1 t/ha).

Pulse crops

Among the pulses, (beans, mung bean, cowpeas, green grams, chick peas, bambaranuts or bambara and field peas that are grown in Morogoro region) Beans were the most popular. Beans were planted on the largest area (15,469 ha, 65.1%); by the largest number of households (35,194, 57.8%) and its share of total production was the largest (9,408 tonnes, 64.6%). Cowpeas were the second most common pulse, in regard the number of households, area planted and production. They were planted on 5,541 ha (23.3%), by 17,672 households (29%) and the quantity harvested was 3,264 tonnes (22.4% of total quantity of pulses harvested).

Beans Production

Beans were planted in all districts. The largest area planted and the highest proportion of land planted with beans were in Mvomero District (8,535 ha, 55.2% of the total area planted). It was followed by Kilosa (3,571 ha, 23.1%), Morogoro Rural (1,829 ha, 11.8%), Ulanga (1,183ha, 7.6%), Morogoro Urban (234ha, 1.5%) and Kilombero (117ha, 0.8%). The largest bean planted area per household was in Kilosa (0.55 ha),

Oil Seeds and Oil Nuts' Production

A total of 25,313 ha (equivalent to 5.3% of the total 475,566 ha planted with annual crops in the region), were planted with oil seed and oil nut crops. The largest planted area (17,577 ha or 69.4% of the total planted area) was under sim sim, followed by sunflower (5,260 ha, 20.8%) and groundnuts (2,476 ha, 9.8%). A total of 10,942 tonnes of oil seed and oil nut crops were harvested of which sim sim had the largest share (6,671 tonnes, 61%). However, the highest yields were obtained from sunflower (0.59 t/ha) followed by groundnuts (0.47t/ha) and simsim (0.38t/ha)

Groundnut Production

Land area under groundnut production in Morogoro Region has been decreased slightly from 2,527 ha in 2002/03 to 2,476 ha in 2007/08. Kilosa district had the largest proportion of the area planted with groundnut (1,455 ha, 58.8%) and the largest planted area per household (0.63 ha/household). Yields were generally low except in Kilombero District where it was 1.12 t/ha.

Fruits and Vegetables

A wide range of annual or temporary fruit crops and vegetables were produced in Morogoro Region. Tomato was the most dominant vegetable crop accounting for 43.5% (2,442 ha) of the planted area. Other vegetable crops planted were Okra (609 ha, 10.9%), bitter aubergine or African eggplant (493 ha, 8.8%), onion (439 ha, 7.8%), cabbage (310 ha, 5.5%), chillies (308 ha, 5.5%), amaranths (216 ha, 3.8%) and pumpkins (238 ha, 4.2%).

The largest proportion of the households (7,280, 31.5%) planted tomatoes as compared to other vegetables (okra, bitter aubergine, onion, chillies, pumpkins and amaranths) for which 5 - 10% of the growing fruits and vegetables households were involved. The results for both 2002/03 and 2007/08 show that tomatoes accounted for most of the total production of fruits and vegetables with a share of 51% in 2002/03 and 56% in 2007/08. The highest yields were for carrot (7.7 t/ha) followed by tomato (5.9 t/ha).

Tomato

The largest planted areas of tomato were in Mvomero (59% of the planted area equivalent to 1,441 ha) and in Kilosa District (725 ha, 29.7%) but even in these districts land planted with tomato was equivalent to only 1.3% in Mvomero and 0.5% in Kilosa District. The yields were highest in Ulanga (11.9 t/ha) and lowest in Mvomero (5.1 t/ha).

Cabbage

Total area planted with cabbage in the region was 0.064% of the total area planted with annual crops. Cabbage was mainly planted in Mvomero District (226 ha, 72.9% of the planted area under this crop) followed by Morogoro Urban (52 ha, 16.8%) and Ulanga (32 ha, 10.3%).

Onions

Onions were planted in all districts except Morogoro Urban. Mvomero District had the largest planted area (184 ha) and the largest percentage of land (41.8%) planted with onions while Kilombero had the smallest planted area (15 ha, 3.4%). The total production 1,706 tonnes obtained mostly from Kilosa (885.4 tonnes, 51.9%) and Mvomero Districts (559.3 tonnes, 32.8%).

Production of Other Annual Crops

Other annual crops planted in the region were cotton and tobacco. This census results show that the planted area for the two crops declined from 698 ha planted in 2002/03 to 347 ha with the trend

reversed indicating an increase in the popularity of tobacco over cotton. The area planted with tobacco was 311 ha (90%) compared to 36 ha (10%) for with cotton.

iv) Perennial or Permanent Crops

Land with perennial crops in the region was 66,182 hectares equivalent to 12.2 percent of the area planted with the all crops compared to 475,566 hectares (87.8%) of annual crops. the major crops were sugar cane (12,215ha, 23%), of the area planted with perennial crops), bananas (10,770ha, 21%), coconuts (5,562ha, 11%), oranges (4,582ha, 9%) ,pigeon peas (3,581ha, 7%) , mangoes(3,412ha, 7%) coffee(746ha, 1.4%), palm oil (542ha, 1.0%), cloves (497ha, 0.9%), cashewnuts(418ha, 0.8%) and others (10,099ha, 19%). Bananas were planted by the largest number of households (24% of all households growing perennial crops) followed by mangoes (15%, coconuts (12%), oranges (8%), sugar cane (6%), pigeon peas (5%), palm oil (3%), cashewnuts (1%), coffee (1%) , cloves (1%) and others (25%).

Coffee

Coffee was planted in three districts on a limited scale but mainly in Mvomero (719 ha, 96.4% of the total area planted with coffee), Morogoro Urban (18 ha, 2.4%) and Morogoro Rural (9 ha, 1.2%).

Bananas

The two most important districts for banana production were Morogoro Rural and Mvomero districts which combined accounted for 53.1% of the planted area (5,711 ha). Morogoro Rural had the largest planted area (3,356 ha, 31.2% of the total area planted with bananas) and Kilosa had the smallest planted area (650 ha, 6.0%). Planted areas per banana growing household were less than one hectare in all districts.

Orange

Oranges were planted mostly in Kilombero (1,757 ha, 38.4% of the total area planted with oranges) Morogoro Rural District (1,751 ha, 38.2%), and Mvomero (745 ha, 16.3%). The area planted per households were generally below one hectare with growers in Kilombero and Morogoro Rural districts having the largest planted area per household averaging 0.7 ha each.

Mango

Mango was planted in all districts by a total of 22,859 households (9.0% of total 253,187 households that planted crops only in the region). The largest numbers of mangoes growing households (6,502) were in Kilombero District, It followed by Ulanga (6,317) and Mvomero (5,861). Mvomero had the largest planted area (876 ha, 25.7% of the total area planted with mango followed by; Kilombero (776 ha, 22.7%), Ulanga (669 ha, 19.6%), Kilosa (584 ha, 17.1%) and Morogoro rural (484 ha, 14.2%). The area planted per mango growing household was generally low in the range of 0.11- 0.2 ha in all districts except Morogoro Rural (0.57 ha.) Yields were highest in Mvomero (31.17 t/ha) and lowest in Morogoro Urban (1.75 t/ha).

v) Use of Inputs

Use of Improved Seed

Improved seed were used for planting during both the short and long rainy seasons on relatively small areas. The combined area planted with improved seed for the short and long rains was 60,151 ha (12.6% of total area planted with annual crops) while the rest of the area (87.4%) equivalent to 415,415 ha was planted without using improved seed. Cereals had the largest planted area using improved seed (52,479 ha, 87%) with very small areas for the other crop types: oil seeds and oil nuts (3,421 ha, 6%), fruits and vegetables (3,214 ha, 5%) and pulses (943 ha, 2%). Very few improved seeds were used for planting roots and tubers and no improved seeds were used for cash crops.

Use of Inorganic Fertilizer

Inorganic fertilizers were used mainly on cereals (33,689 ha, 89% of the planted area applied with inorganic fertilizer) followed by fruits and vegetables (2,894 ha, 8%), roots and tubers (561ha , 1.5%) and pulses (378 ha1%). Between districts, the largest planted area applied with inorganic fertilizers was in Kilombero (26,420 ha, 70% of the planted area applied withinorganic fertilizer) and others were Kilosa (6,188 ha, 16%) and Mvomero (4,411 ha, 12%). In Ulanga and Morogoro Urban district inorganic fertilizers were hardly applied.

Use of Pesticides

Pesticides (insecticides, herbicides and fungicides) were applied on a total 98,537 ha. Herbicides were the most dominant pesticides used and applied on 80% of the planted area, (79,135 ha).

Herbicides

Herbicides were used almost entirely on area planted with (cereals (78,108 ha, 98.7 % of the planted area applied with herbicides) with the remaining 2% divided between pulses, fruits and vegetables (0.5% each) and oil seeds and nuts (0.3%). Most of the herbicides (84%) were applied in Kilombero and Ulanga districts of which Kilombero accounted for 52% (41,118 ha) of the planted area and Kilosa 32% (25,263 ha).

Insecticides

The largest area applied with insecticides was planted with pulses (4,641 ha, 34.7% of the total planted area applied with insecticides), followed by fruits and vegetables (3,142 ha, 23.5%), cereals (2,870 ha, 21.5%) and oil seeds and oil nuts (2,547 ha, 19.1%). Planted area applied with insecticides was largest in Kilosa District (4,091 ha, 30.6% of the planted area applied with insecticides), then Ulanga (3,919 ha, 29.3%) and Mvomero (3,483 ha, 26.1%). In Kilombero, insecticides were applied on 1,491ha (11.2%) and in Morogoro Urban it was applied on 337ha (2.5%). The district with the smallest area applied with insecticides was Morogoro Rural (43ha, 0.3%).

Fungicides

Fungicides, are chemical substances used for the control of plant disease pathogens, They were applied on a total of 6,037 ha. Most of the fungicides were applied on cereals (2,365ha, 39% of the total area applied with fungicides) followed by fruits and vegetables (2,106ha, 35%), pulses (996 ha, 17%), roots and tubers (357 ha, 6%) and oil seeds and oil nuts (212 ha, 4%). Fungicides were not applied on areas planted with cash crops. Fungicides were applied in all districts and the largest planted area applied was in Mvomero (2,833 ha, 47% of the planted area applied with fungicides and smallest in Morogoro Urban district (205 ha, 3%)

vi) Irrigation

The area under irrigation was 18,655 ha equivalent to 3.9% of the area planted with annual crops in the region. The largest proportion of irrigated area was in Kilosa (7,885ha, 42.3% of the total irrigated area), then Mvomero (3,691ha, 19.8%), Kilombero (2,939ha, 15.8%), Ulanga (2,664ha, 14.3%), Morogoro Urban (978ha, 5.2%) and Morogoro Rural (497ha, 2.7%).

The main source of water for irrigation was river (76%, 13,640 households) and other sources reported were tap water (2,286 households, 13%), canal (1,209hh, 7%) lake (453 households, 2.5%)

dam (284 households 1.6%) and well (88 households, 0.5). The majority of users obtained irrigation water by gravity (14,379 households, 80%) and the remaining households used hand buckets (2,719 households, 15%), motorized pump (699 households, 4%) and hand pump (162 households, 1%).

vii) Crop Storage, Processing and Marketing

Storage

The most common storage structures in the region and in individual districts were sacks and open drums (331,697 households, 55% of the total households) and others were locally made traditional structures (142,130 households, 23.7%), improved local structures (16,482, 2.7%) and airtight drums (3,722 households, 0.6%), unprotected piles (3,161 households, 0.5%), modern stores (685hh, 0.1%) and other types of storage (2,031 hh, 0.3%). About 100,974 households (16.8%) did not store any crops.

Crop Sales

Households in all districts reported selling crops and the most active districts were Kilosa (26%, 73,730 households) and Kilombero (24%, 67,761 households). In the other districts, participation in crop sales were 20% in Mvomero (58,334 households), Morogoro Rural and Ulanga with 14% each (41,150 households for Ulanga and 40,436 households for Morogoro Rural). In Morogoro urban crop sales were at their lowest (2%, 4,319).

Marketing Problems

The major challenge that hindered households from participating in crop sales was low price in the open market (265,123 households, 65%). Other challenges included crop market being too far (30,373 households, 7.5%), high transport costs (28,167hh, 6.9%), lack of transport (18,200hh, 4.5%), lack of market information (10,568hh, 2.6%) and lack of buyers (2,840hh, 0.7%).

viii) Credit

A limited number of households (4,105 of the total 298,421 agricultural households or 1.4%) had access to credit from varying sources. The majority (1,195 households, 29%) received credit from members of the family, friends or relatives followed by those who borrowed from savings and credit societies (907, 22% households), NGOs/development projects (894, 21.8%), bank (441, 10.8%), others borrowed from individuals (353 households, 8.6%) and traders (315hh, 7.7%). In all districts, both male and female heads of households received credit but most of the credits were

received by male heads (3,270hh, 79.7%) as compared to 835 female heads of households (20.3%). In Mvomero and Morogoro districts, only male heads of households received the credit.

Reasons for not using credit were varied but lack of knowledge on how to get credit was cited by the largest proportion of the household (29% or 87,467 households) and other reasons were lack of availability of credits (58,124 households, 20%); not wanting to get into debt (45,969 households, 16%) and not knowing about credit (42,221 households, 14%).

ix) Access to Extension Services

Within the region, the number of households that received extension service were (189,731 households, 64%) the number of households that did not receive extension services (107,232). In all districts except Morogoro Rural, more than 50% of crop producing households received crop extension services. The district with the largest proportion of households receiving extension was Kilombero (86.9%) followed by Morogoro Urban (70.7%), Mvomero (70%), Ulanga (66.7%) and Kilosa (62.1%). The proportion receiving extension was lowest in Morogoro Rural District.

x) Soil Erosion Control and Rain Water Harvesting

Total of 12,702 households (4.3% of total 298,421 agricultural households in the region) applied some measure of soil erosion control and rain water harvesting facilities. However, in all districts, the number of households applying erosion control measures and rain water harvesting facilities were less than 10% of the total households, the highest being 4,326 (7.7%) in Mvomero and lowest (0.7%) in Kilombero District.

xi) Tree Planting

Tree planting was limited In Kilosa, Kilombero, and Ulanga districts about 1% of the total households each planted trees. Mvomero District was the leader in this aspect and 1,396 households that planted trees was the highest in any one district and was equivalent to about 2% of the total households that planted trees.

xii) Livestock Production

The livestock types found in the region were comprised of animals (cattle, goats, sheep and pigs), birds (chicken) and fish.

Cattle Population

Cattle production was carried out in all districts and the total cattle population in the region was 639,764 heads. Mvomero had the largest cattle population (236,685, 37% of the cattle population in the region) and Mvomero and Kilombero combined accounted for 60.4% of the total cattle population in the region. The cattle population was of mixed types dominated by the indigenous type (628,475 heads, 98.2% of the cattle population) compared to improved dairy (9,414, 1.5%) and improved beef type (0.3%). The largest population of improved dairy (4,425 heads, 47% of total dairy population) was in Morogoro Urban.

Goat

Goats were found in all districts. The total goat population in the region was 377,572 and the largest number was found in Mvomero District (107,038, 28.3%). Goat density, reflecting the number per square kilometer was highest in Morogoro urban (791) and lowest in Ulanga (249).

Sheep

The total number of sheep in the region was 118,793 of which 42,333 (35.6%) were in Kilombero District and the sheep population in other districts were 27,200 in Ulanga (22.9%) 22,324 in Morogoro Rural (18.8%), Kilosa (11,247, 9.5%), 9,211 in Mvomero (7.8%) and Morogoro Urban (6,478, 5.5%). Sheep were most densely populated in Morogoro Urban (387 sheep per sq. km) and least densely populated in Kilosa (63).

Pigs

The total pig population in the region was 88,462. Kilombero, Mvomero and Kilosa districts combined had a total pig population of 68,143 equivalents to 77% of the entire pig population in the region of which Kilombero accounted for 31.8%. Morogoro Urban had the smallest pig population (1,646, 1.9%). The highest pig density was in Kilombero District (178 pigs per sq km) and the lowest was in Ulanga District (80 pigs per sq km).

Chicken

The total population of chicken, comprising both local and improved types, in the region was 2,766,862. The largest chicken population was found in Kilosa (773,327, 27.9%) and the least population was in Morogoro Urban (75,899 chicken, 2.7%).

The total population of the improved chickens was 82,988 of which the larger proportion (61,610, 74.2%) was broilers and the remaining 25.8% (21,378) were layers. Improved chicken were not recorded in Kilosa District. The largest number of broilers was found in Ulanga (27,989, 45.4%) and layer were kept mostly in Morogoro Urban District (12,390 chicken, 58% of the total layer in the region). Chicken density (number of chicken per sq km) was generally comparable in all districts in the range of 3,568 to 4,870.

Fish Farming

Compared to other livestock types, fish farming was practiced by a very small proportion of the agricultural households (246 households equivalent to 0.08% of the total 298,421 agricultural households in the region) with 140 households in Morogoro Rural (56.9%), Ulanga (88 households, 35.8%,) and Morogoro Urban District (18 households, 7.3%). All the fish produced in the region were Tilapia type.

xiii) Incidences of Ticks and Tsetse Flies

Tick-borne diseases were reported to affect livestock in all districts at the highest level of 13.7% in Morogoro urban and lowest level 7.3% in Morogoro Rural. Incidences of tsetse were highly variable between districts from as low as 2% in Kilosa to as high as 11% in Kilombero District. Deworming was done in all districts for all major livestock types at various levels within districts. Total of 70,268 households (28%) dewormed their livestock. The largest proportion dewormed chickens (29,536 households, 42%). Deworming of other livestock types was at the rate of 20.5% for goats and sheep (14,412 households), 21.6% for pigs (15,195 households) and 15.8% for cattle (11,126 households).

xiv) Use of Organic Fertilizer

The number of households using organic fertilizers was estimated at 6,528 equivalents to about 2% of the total 298,421 agricultural households. Organic manure was applied in all districts on varying planted areas. The total area applied was 4,073 ha (0.86% of the total area planted in the region). About 64.4% of the planted area applied with organic manure was in two districts Mvomero (1,599 ha, 39.3% of the planted area applied with organic fertilizer in the region) and Morogoro Rural (1,023 ha, 25.1%).

xv) Poverty Indicators**Toilet Facilities**

The traditional pit latrine was the most widely used facility (264,312, 88.6% of all agricultural households). Flush toilets were used by only 6,299 households (2.1%) while another 7,663 households (2.6%) had no toilet facilities. Overall, 20,148 households (6.8%) used improved pit latrines.

Access to Drinking Water

During the dry season, main source of drinking water was piped water (25% of the total households) followed by surface water from a lake, dam or river (24%), protected well (23% of the total households), unprotected well (16%), unprotected springs (7%) and uncovered rainwater catchment (2%). Overall, 94% of the households, in the wet season, and 93%, in the dry season, accessed the main source of drinking water from a maximum of 2 km or nearer. The longest distance covered to access drinking water being 10km or above affected very few households. Affected were 0.1% of the households during the wet season and 0.2% during the dry season.

Roofing Material

A total of 11,013 main dwellings in the region were roofed using grass or mud. The highest proportion for grass and mud roofs was in Morogoro Rural (6.7% of the main dwellings roofed using grass or mud), followed by Kilosa (5.2%). In other districts, the proportion was 3% or less.

Number of Meals per Day

The majority of households in Morogoro Region normally took three meals per day (56.3%) followed by two meals per day (42.2%) and one meal (1.5%).

Meat Consumption Frequencies

More households consumed fish (248,808, 83% of the total 298,421 agricultural households) as compared to meat (195,462 households, 65.5%). However, a larger proportion of the households consumed meat once a week (96,269, 32.3%) compared with fish (78,974 households, 26.5%). Overall, more households consumed fish more frequently than meat; twice a week (26.7% for meat and 23.4% for fish); thrice a week (6.6% for meat and 16.7% for fish), four times a week (2.4% for meat and 7.3% for fish) and five or more than five times a week (0.6% for meat and 2.6% for fish).

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

Morogoro region is located in the Mid- Eastern part of Tanzania Mainland. The region lies between latitudes 5° 58' and 10' south of the equator and between longitude 35° 25' and 38° 30' East Greenwich. It is bordered by seven other Regions. To the north Morogoro region shares borders with Arusha and Tanga regions, To the east and southeast, it shares borders with Ruvuma and Lindi regions respectively. To the west and southwest it shares borders with Dodoma and Iringa regions.

1.3 Land Area

Morogoro Region occupies a total of 72,939 square kilometres which is approximately 8.2% of the total area of Tanzania mainland.

1.4 Climate

1.4.1 Temperature

Morogoro region has an average temperature of 24° C. The minimum is 18° C in mountainous areas and has a maximum of 30° C in lowland areas. The coolest months are May, June and July, while the hottest months are September and October.

1.4.2 Rainfall

Altitudes vary considerably from one district to another. The main rain season is from November to May, while the dry season is from June to October. The topographical variations in different parts of the region explain the existing variations in the climatic conditions. The variation in rainfall is between 500 mm in low areas and 2,200 mm in the mountainous areas.

1.5 Population

According to the projections based on 2002 Population and Housing Census, there were 2,021,713 inhabitants in Morogoro region. The population of Morogoro region ranked 7th of the 21 regions in Tanzania.

1.6 Socio - Economic Indicators

The regional Gross Domestic Product (GDP) at current prices for the year 2008 was estimated to be TShs 1,255,325 million with a per capita income of shillings 620,921. The region held 6th position among regions on GDP and contributed about 5.07 percent to the national GDP

The region headquarter can easily be reached by road from Dar es Salaam, Dodoma and Iringa towns. It is also the centre for travelers going to Dodoma, Tabora, Lake Zone and Kigoma by train.

The region has a tourist attraction – Mikumi National Park that is about 100 kilometers from Morogoro town and about 300 kilometers from Dar es salaam and Selous game reserve.

The region is famous for producing both food and cash crops. The main food crops produced in Morogoro region include: maize, paddy, sorghum, bulrush millets and beans. The main cash crops include cotton and tobacco. 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 Ve) 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 Vi series), Zanzibar Livestock Report (Volume VI) and Zanzibar Crop Sector Report (Volume VII). Unlike the 2002/03 Agricultural Sample Census, the 2007/08 Sample Census does not have a separate report for Smallholder Household Characteristics and Access to Natural Resources Report. Other thematic reports will be produced depending on the demand and availability of funds.

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

2.1 The Rationale for Conducting the National Sample Census of Agriculture

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

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

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

2.2 Census Objectives

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

The census was carried out in order to:

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

2.2.1 Census Scope and Coverage

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

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

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

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

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

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

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

2.3 Census Methodology

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

- Census organization;
- Tabulation plan preparation;
- Sample design;

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

2.3.1 Census Organization

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

At the national level, the Census was headed by the Director General of the National Bureau of Statistics, Tanzania Mainland in collaboration with the Chief Government Statistician, Tanzania Zanzibar. The planning Group formed by the Director General of NBS and the Chief Government Statistician consisted of staff from the Department of Agriculture Statistics of NBS, Department of Economic Statistics of OCGS, Department of Policy and Planning of the Ministry of Agriculture, Food Security and Cooperatives, Department of Policy and Planning of the Ministry of Livestock and Fisheries Development in the Mainland; Ministry of Livestock and Fisheries and the Ministry of Agriculture and Natural Resources in Zanzibar.

The Planning Group was responsible for all the census operations. Implementation of the census activities at the regional level was overseen by the Regional Statistical Managers of NBS and the Regional Agricultural Supervisors from the Prime Minister's Office, Regional Administration and

Local Government. At the district level, the census activities were managed by two supervisors from the Prime Minister's Office, Regional Administration and Local Government (PMO-RALG). The supervisors managed the enumerators who also came from PMO-RALG. As for Zanzibar, implementation of the census activities at the regional level was overseen by the Regional Statistical Officers and Regional Agricultural Officers. At District level, implementations of the census activities were managed by District Agricultural Development Officers (DADOs). In addition, there was a national mobile team to supervise the census operations.

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

2.3.2 Tabulation Plan Preparation

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

2.3.3 Sample Design

The Mainland sample consisted of 3,192 villages. These villages were drawn from the National Master Sample (NMS) developed by the National Bureau of Statistics (NBS) to serve as national framework for the conduct of household based surveys in the country. The National Master Sample was developed from the 2002 Population and Housing Census. The total Mainland sample was 47,880 agricultural households. In Zanzibar, a total of 317 Enumeration Areas (EAs) were selected and 4,755 agricultural households were covered. National wide, all regions and districts were sampled except four urban districts (three from Mainland and one from Zanzibar).

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

Table 2.1: Census Sample size

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

2.3.4 Questionnaire Design and Other Census Instruments

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

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

Three other instruments were used:

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

2.3.5 Field Pilot-Testing of the Census Instruments

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

2.3.6 Training of Trainers, Supervisors and Enumerators

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

2.3.7 Information, Education and Communication (IEC) Campaign

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

2.3.8 Data Collection

Data collection activities for the 2007/08 Agricultural Sample Census lasted for three months from June to August 2009. The direct interview method was used to collect data during the enumeration. Data collection was monitored by a hierarchical system of supervisors which included the Mobile Response Team, Regional and District Supervisors. The Mobile Response Team headed by the Manager of Agriculture Statistics Department, provided the overall direction to the field operations

and responded to queries arising outside the scope of the training exercise. Decisions made on the definitions and procedures were then communicated back to all the enumerators via the Regional and District Supervisors. On the Mainland, each region had 2 Regional Supervisors (total of 42) and 2 district supervisors per district, (Total 266).

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

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

2.3.9 Field Supervision and Consistency Checks

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

2.3.10 Data Processing

Data processing involved the following process:

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

Data Entry

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

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

Batch Validation

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

Tabulation

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

Report Writing

The report 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.

2.4 Funding Arrangements

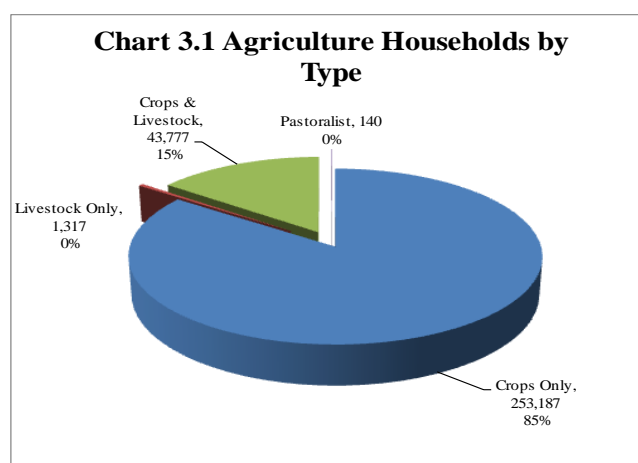
The 2007/08 Agricultural Sample Census was supported mainly by the Department for International Development (DFID) and the Japan International Cooperation Agency (JICA) which together, financed most of the operational activities. Other funds for the census activities were from the Government of Tanzania.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

3 CENSUS RESULTS

This report is a summary of results of the Agriculture Census data for Morogoro region for the year 2007/08. The census data was derived from a sample population engaged in different components of the agriculture sector covering all important aspects of land use patterns for crop and livestock production, storage and marketing, livestock types and systems, input availability and use, irrigation and extension services. Where appropriate, comparisons to the past census survey data have been made, particularly the 2002/03 census results, to determine the nature and extent of changes that have taken place over the years. The census data which were collected from sample of rural agricultural households drawn from all six districts, are reported in the main body of the report after undergoing some limited analysis and subsequently summarized and presented in the form of charts, graphs, maps and a few selected tables. The detailed Tables are presented in Appendix II.

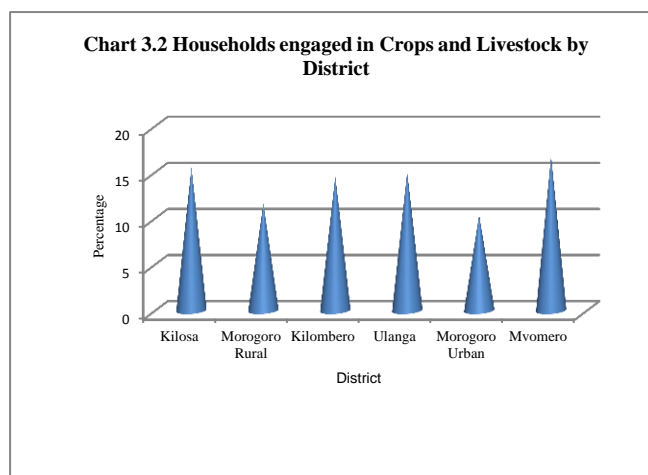
3.1 Household characteristics

The total number of agricultural households in Morogoro region was 298,421. The highest density of agricultural households was in Morogoro Rural (646 households/sq km) followed by Kilosa (474), Mvomero (413), Ulanga (405), Morogoro Urban (397) and Kilombero (370), (Map 3.1 and Map 3.2).



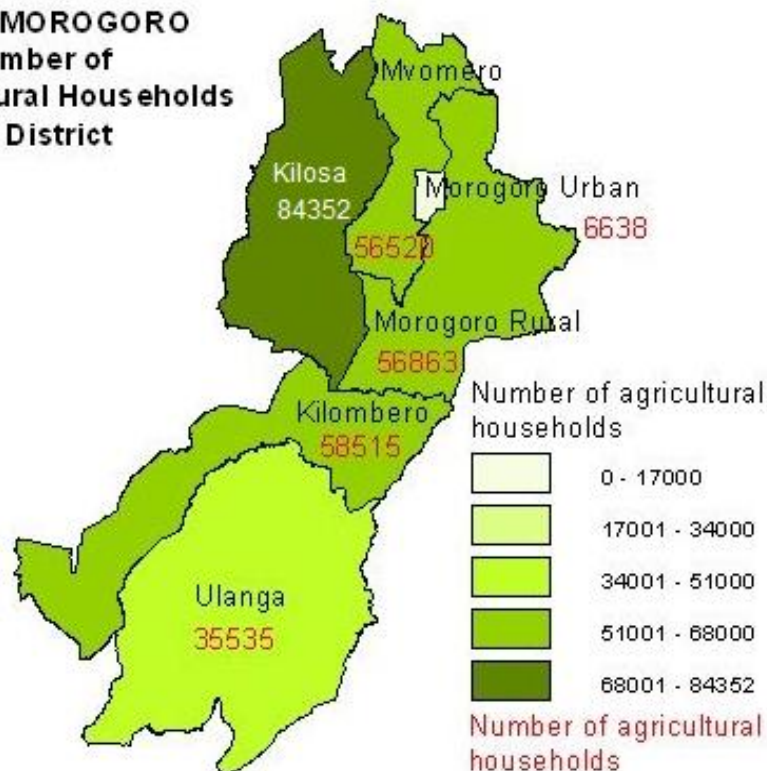
The majority of the households (253,187, 84.8%) engaged only in crop production followed, by households that engaged in crop and livestock production (43,777, 14.7%), livestock only (1,317, 0.4%) and a very small number of pastoral households (140, 0.05%). For crop producing households, the largest number (84,143 hh, 99.8% of all agricultural households in Kilosa) was in Kilosa district followed Kilombero (58,370hh, 99.8%) , Mvomero (56,241hh, 99.5%), Morogoro Rural (56,161hh, 98.8%) , Ulanga (35,535hh, 100.0%) and Morogoro Urban (6,514hh , 98.1%).

Households that engaged only in livestock production were found in all districts except Ulanga (Map 3.6). Among the districts with livestock-only households, Morogoro Rural was leading with 562 livestock-only households (1%) and Morogoro Urban had the lowest (124, 1.9%) and other districts were in between these numbers extremes. All districts had mixed crop and livestock producing

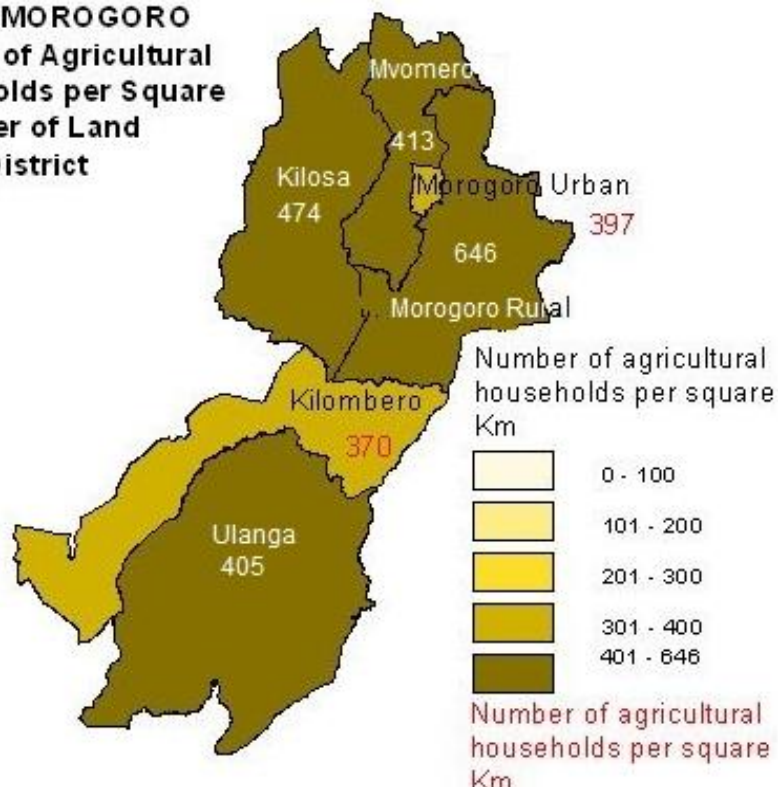


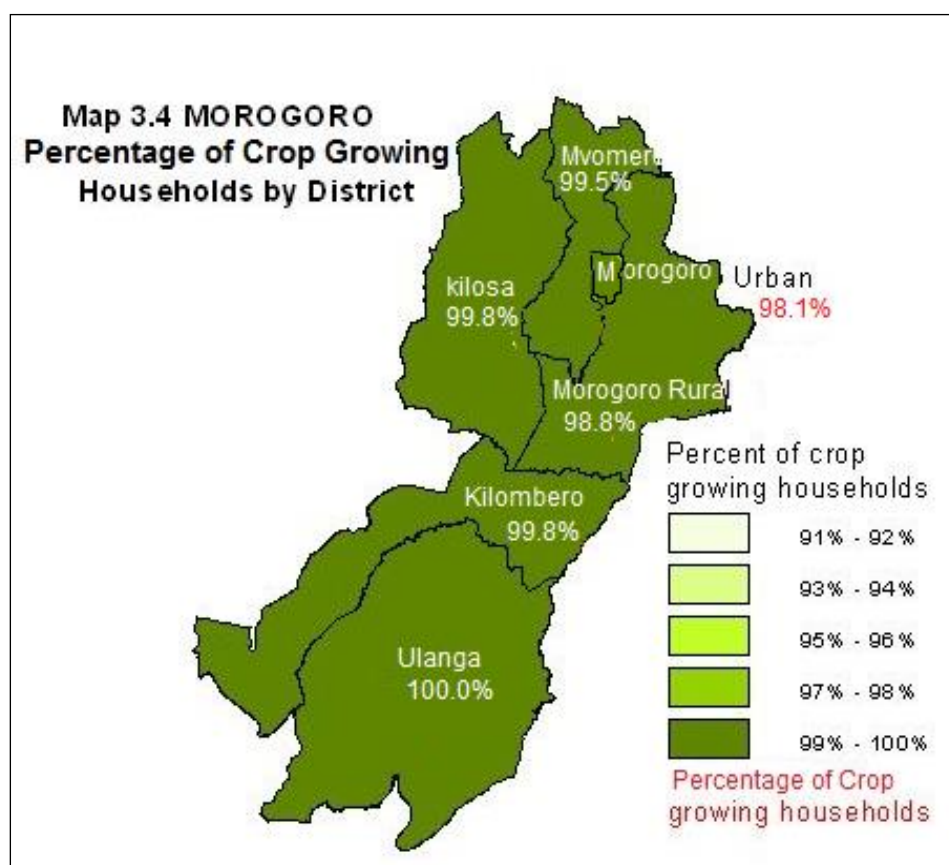
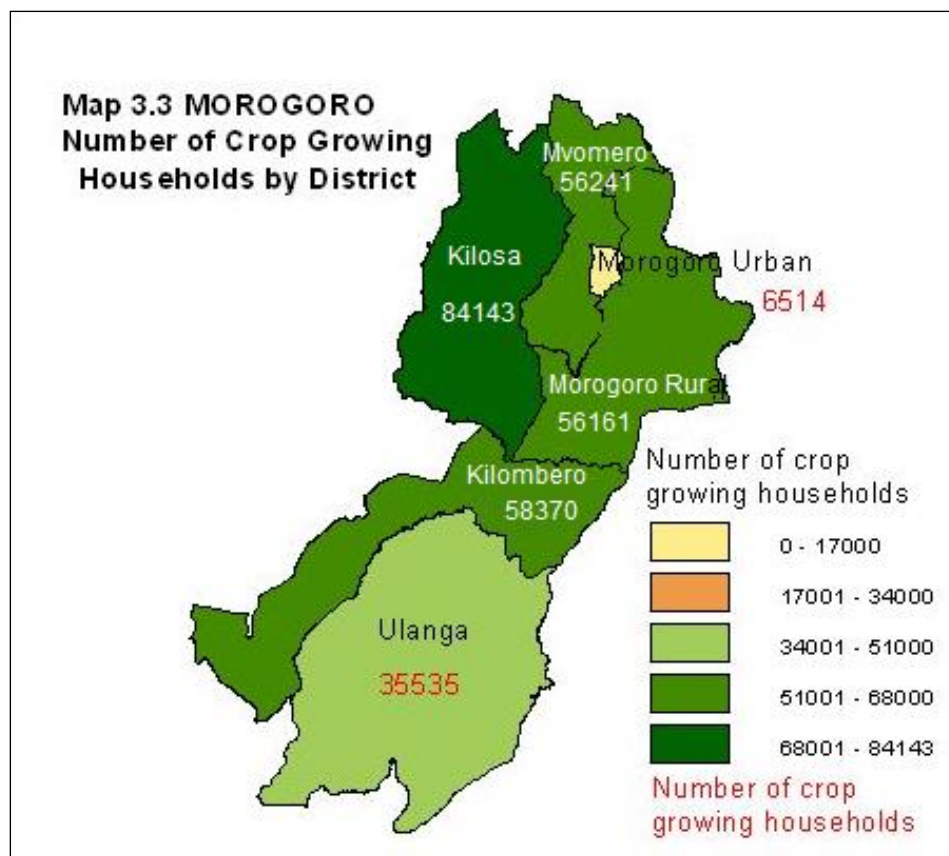
households. Mvomero had the largest proportion of households engaged in crop and livestock keeping (17%), Morogoro urban had the smallest number in this category (690hh, 10.4%) and the other districts were in between, (Maps 3.3, 3.4, 3.5 and 3.6). There was an increase of agricultural households from 260,746 in the 2002/03 to 298,421 in 2007/08 agricultural year

Map 3.1 MOROGORO
Total Number of
Agricultural Households
by District

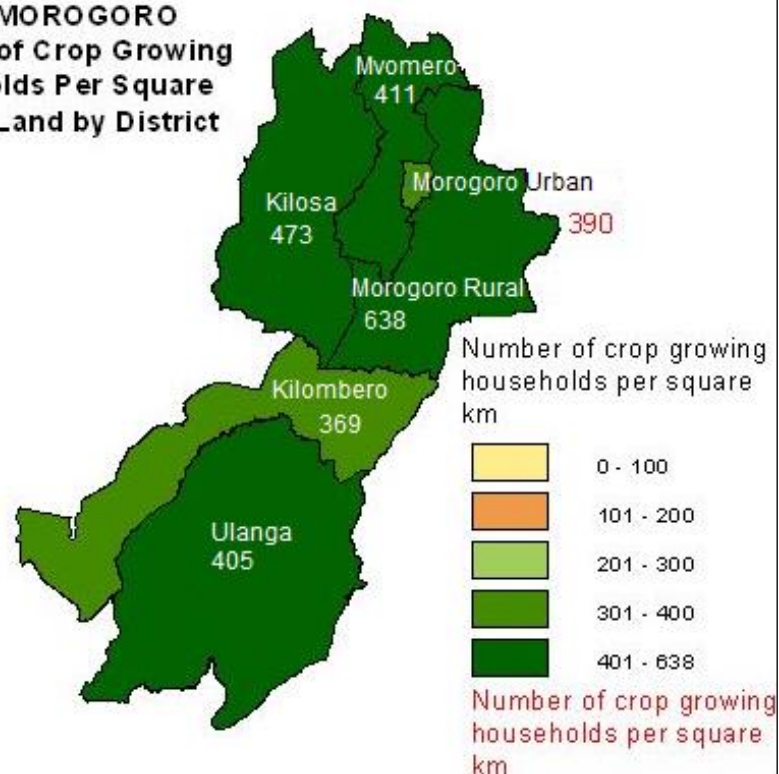


Map 3.2 MOROGORO
Number of Agricultural
Households per Square
Kilometer of Land
by District

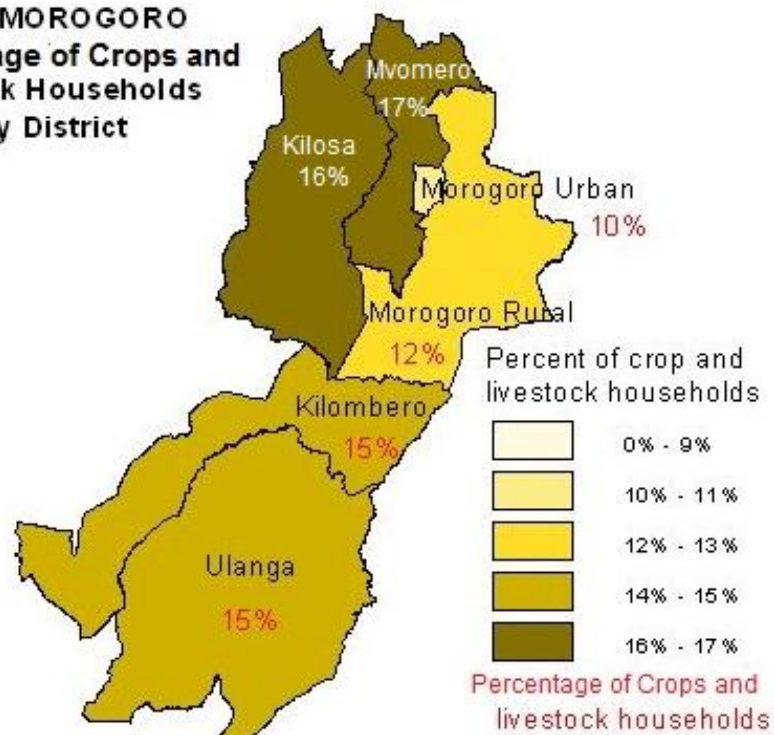




Map 3.5 MOROGORO
Number of Crop Growing
Households Per Square
Km of Land by District



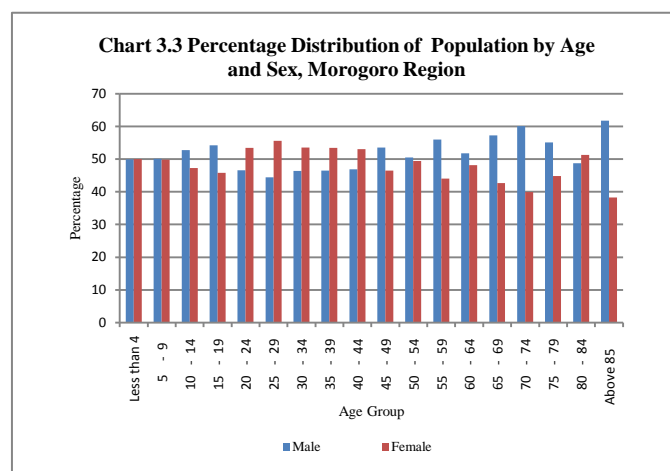
Map 3.6 MOROGORO
Percentage of Crops and
Livestock Households
by District



3.1.1 Household Characteristics

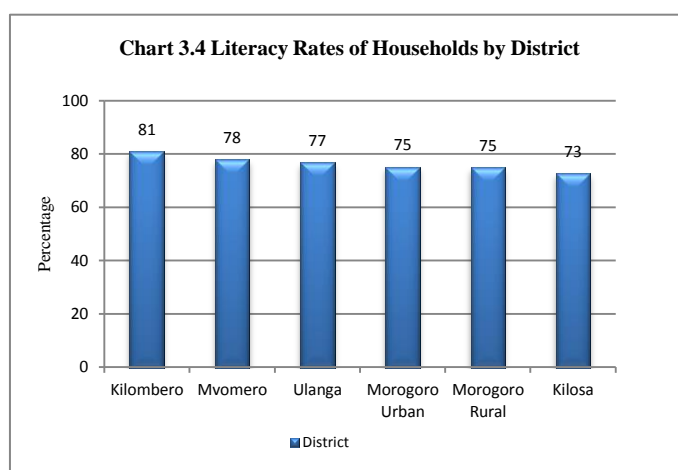
Distribution of the Population by Age and Sex

Morogoro Region had a total rural agricultural population of 1,411,875 persons of whom 710,826 (50.3%) were males and 701,049 (49.7%) were females. Age group 0-14 years accounted for 40 percent of the population, age group 15-64 years for 56 percent and the remaining 4 percent was accounted for by persons aged 65 years and above. The five years age groups covering the wider 20-44 age group had more females than males (chart 3.3).

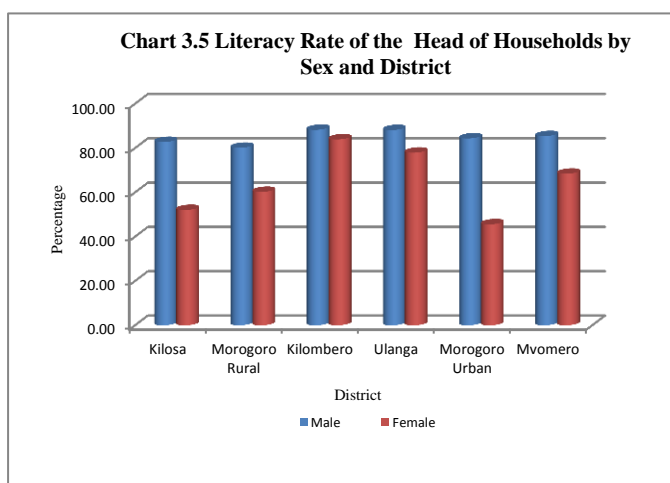


Literacy

Literacy, described as the ability to read and write, for the households members was above 70% in all districts. . Literacy of households members was highest in Kilombero (81%), followed by Mvomero (78%) and Ulanga (77%), Morogoro Urban and Morogoro Rural districts, (75% each) than Kilosa (73%), (Chart 3.4).

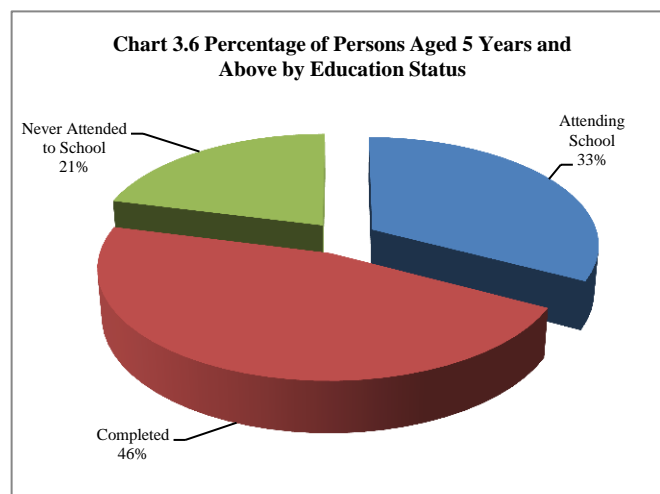


In all districts, literacy was higher for male heads than female heads (Chart 3.5). In the case of male heads, literacy rates were in the range of 80% to 88% and between 46% and 84% for female households heads. Kilombero district had the highest level of literacy for both male and female heads of households while Morogoro Rural had the lowest literacy rate male heads and Morogoro Urban had the lowest literacy rate for female heads (chart 3.5).



Educational status

The general education status of a persons was based on whether he had attended and completed studying (completed), was studying at the time of the Census (attending school) or had been to school (never attended school). Only persons aged five years and above were considered. The general indications was that about 33% of household members aged 5 years and above were attending school, 46% had completed school and 21% had never attended school (Chart 3.6).



There were, slight differences between districts (Table 3.1) whereby, Kilombero had the highest proportion of population attending school (38%, 95,646 persons) closely followed by Ulanga (37%, 62,471 persons). In the category those who had completed school, Mvomero was leading with 51% (124,204 persons) having completed school and other districts followed with 44-47%.of persons aged 5 years and above having completed school.

Education Attainment

Most of the household members aged 5 years and above in the region, had completed standard seven (77.6 %, 451,743hh members), followed by those who completed standard 4 (9.6%, 55,757) then those who had completed form IV (1.9%, 11,268). Those who had completed adult education were 5,469 (0.9%) and only 0.1% (406) had completed university or other tertiary education.

Table 3.1: Number of Household Members Five Years and Above by Education Status and District

District	Education Status						Total
	Attending number	%	Completed number	%	Never Attended number	%	
Kilosa	98,098	29	156,207	46	86,226	25	340,530
Morogoro	71,886	32	103,617	45	52,651	23	228,154
Kilombero	95,646	38	111,828	45	42,188	17	249,663
Ulanga	62,471	37	74,755	44	33,166	19	170,392
Morogoro U	7,222	29	11,647	47	5,717	23	24,586
Mvomero	76,197	31	124,204	51	45,355	18	245,756
Total	411,520	33	582,257	46	265,304	21	1,259,080

At district level, Kilosa had the largest number of household members who had completed university education or other tertiary education (208 persons, 0.1%); followed by Kilombero (144, 0.1%) and Morogoro Urban (53, 0.5%). There were no households with members who had attained university or other tertiary education in Morogoro Rural, Ulanga and Mvomero districts (Table 3.2).

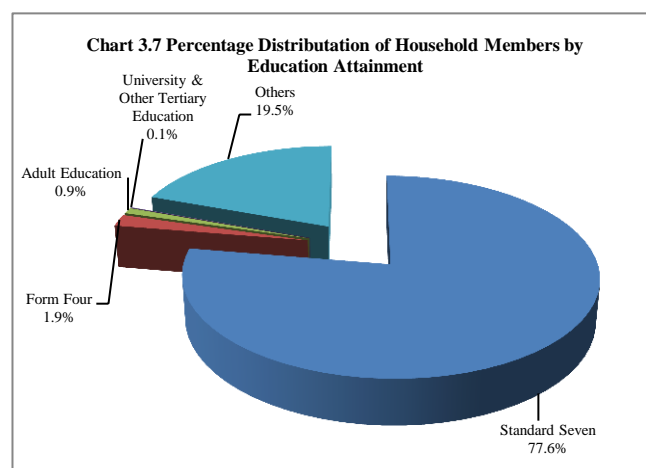


Table 3.2: Number of Agricultural Household members who had completed by Level of Education and District

District	Education Level										Total
	Standard Seven		Form Four		Adult Education		University & Other Tertiary Education		Others		
	Number	%	Number	%	Number	%	Number	%	Number	%	
Kilosa	123,091	78.8	3,957	2.5	2,083	1.3	208	0.1	26,868	17.2	156,207
Morogoro	85,084	82.1	983	0.9	1,544	1.5	0	0	16,006	15.4	103,617
Kilombero	86,255	77.1	2,601	2.3	144	0.1	144	0.1	22,684	20.3	111,828
Ulanga	54,838	73.4	1,141	1.5	351	0.5	0	0	18,425	24.6	74,755
Morogoro Ur	8,974	77.1	354	3	230	2	53	0.5	2,036	17.5	11,647
Mvomero	93,502	75.3	2,233	1.8	1,116	0.9	0	0	27,353	22.0	124,204
Total	451,743	77.6	11,268	1.9	5,469	0.9	406	0.1	113,372	19.5	582,257

3.2 Land Use

This section describes the situation with regard to the land area available for general use and the extent to which it was utilized for agricultural activities. Available land refers to the total area of land available to households through customary law and other forms of ownership. Usable land, on the other hand, is the parcel of land available minus the parcels that cannot be used for being rocky, water bodies, swampy or steep slopes. Within the usable land, the planted area is the total area planted with crops in a particular year

3.2.1 Area of Land Utilized

The total usable land available was 655,471 ha (Table 3.3). The biggest proportion of available usable land was within three districts: Kilosa, Kilombero and Mvomero (Table 3.3 and Chart 3.8). The three districts combined accounted for 70.8% (464,086 ha) of the usable land available in the region.

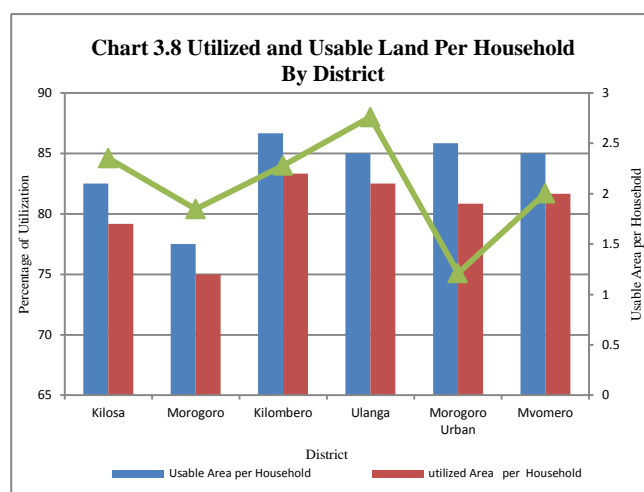
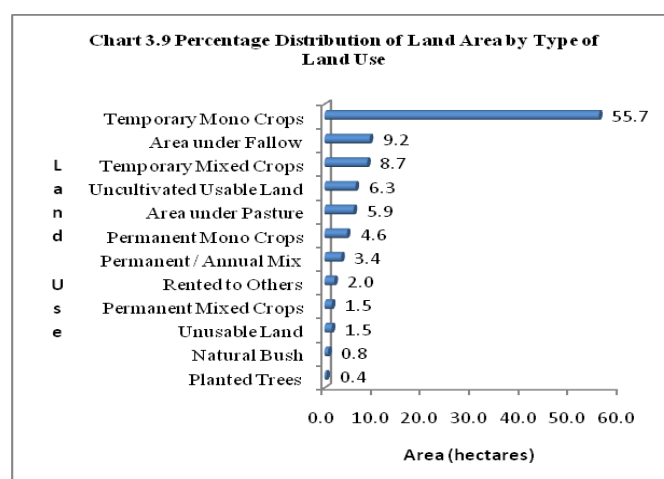


Table 3.3: Utilized and Usable Land per Household by District

District	Number of Households	Usable Area Available(ha)	Area utilized(ha)	Usable Area per Household	utilized Area per Household	Utilization (Percentage)
Kilosa	84,352	173,223	146,493	2.1	1.7	84.6
Morogoro	56,863	88,000	70,735	1.5	1.2	80.3
Kilombero	58,515	154,516	129,773	2.6	2.2	84.0
Ulanga	35,535	86,744	76,367	2.4	2.1	88.0
Morogoro Urban	6,638	16,641	12,497	2.5	1.9	75.1
Mvomero	56,520	136,347	111,346	2.4	2.0	81.7
Total	298,423	655,471	547,211	2.2	1.8	83.5

Among the other districts, Morogoro urban had the smallest usable land available (16,641 ha, 2.5%). Planted areas followed a similar trend (Chart 3.8). Kilosa, Kilombero and Mvomero districts combined accounting for 70.0% (332,927 ha of the total 475,566 ha planted) of which Kilosa had 138,275 ha (29.1%), Kilombero had 108,112 ha (22.7%) and Mvomero had 86,539 ha (18.2%).

The usable land area per household was on average 2.2 ha, the highest being 2.6 ha in Kilombero and the lowest being 1.5 ha in Morogoro Rural district. However, households in all districts planted less land than was available. The percentage of land utilization for the districts was generally high in the range of 80-88% except in Morogoro Urban district where it was 75.1% utilization was recorded (Chart 3.8, Map 3.7).



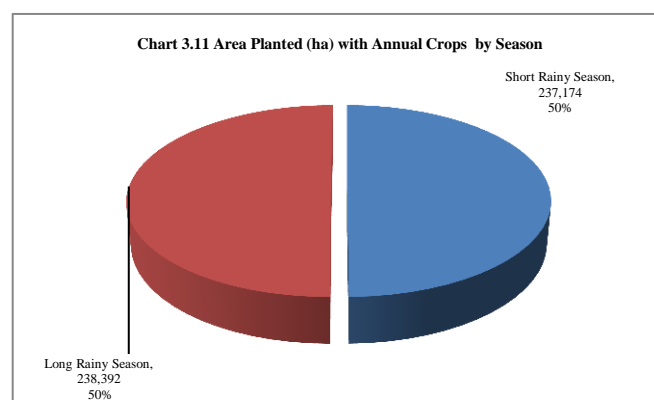
Land Use Types

Generally, most of the regional land was put under the use that is related to the production of crops and very limited land was devoted to other land uses. (Chart 3.9) .The single most dominant land use was the planting of temporary (annual) crops planted in monoculture (370,762 ha, 55.7% of total land available) and the least common land use was the planting of trees (2,581 ha, 0.4%).

A wide range of other land use were recorded in the region of which the three relatively common land use types with at least 40,000 ha allocated, in decreasing order, were fallow (61,141 ha, 9.2%), temporary mixed crops (57,793 ha, 8.7%) and areas that were not cultivated even though they were usable (42,079 ha, 6.3%). Generally, The relatively limited land area under natural bush (5,039 ha, 0.8%) coupled with the relatively small area planted with trees can be used as inferences of the extent of land clearing that has been done to give way to crop production.

3.3 Annual Crop Production

Agricultural households in the region planted crops in two seasons within a year: the long rainy season (November-December) and the short rainy season (March – May). Almost equal areas of land were planted with annual crops in the two rainy seasons (Chart 3.11).



3.3.1 Area Planted

In Kilosa, Morogoro Rural, Morogoro Urban and Mvomero districts, larger areas were planted with annual crops during the long rain season than during the short rainy season (Chart 3.12) while in all other districts, land areas planted with annual crops were larger during the short rainy season. However, in Kilosa District short rainy season production of annual crops was practiced to the greatest extent compared to other districts (Chart 3.12, Map 3.8, Map 3.9 and Table 3.4).

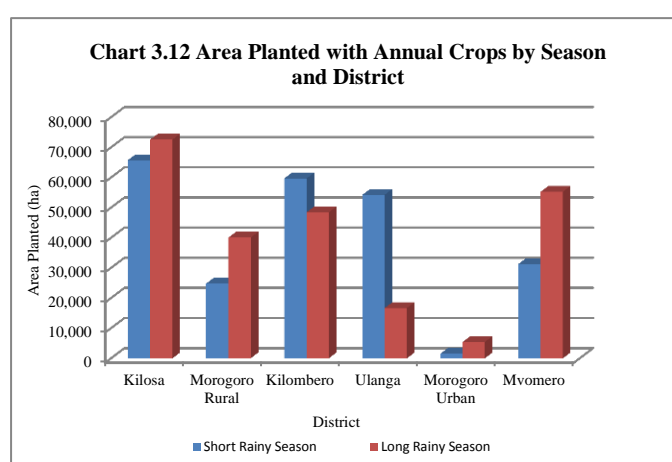


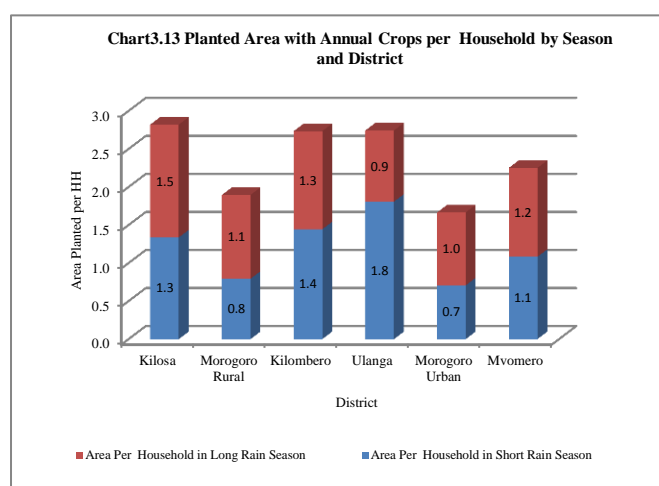
Table 3.4: Area Planted by Season

District	Short Rainy Season	Long Rainy Season	% Area Planted in Short Rainy season
Kilosa	65,712	72,563	48
Morogoro	24,760	40,042	38
Kilombero	59,679	48,433	55
Ulanga	54,237	16,673	76
Morogoro Urban	1,504	5,424	22
Mvomero	31,283	55,256	36
Total	237,174	238,392	50

The land areas planted with annual crops per household was below 2 ha in all districts (Chart 2.13). Generally planted areas per household were larger in the long rainy season than in the short rainy season. In the long rainy season Kilosa had the largest planted area per household (1.5 ha), followed by Kilombero (1.3 ha), Mvomero (1.2 ha) and Morogoro Rural (1.1 ha), Morogoro Urban (1.0 ha) and (Ulanga (0.9 ha). During short rains the district with the largest area planted with annual crops per household was Ulanga (1.8 ha) while Morogoro Rural had the smallest planted areas (0.8 ha)

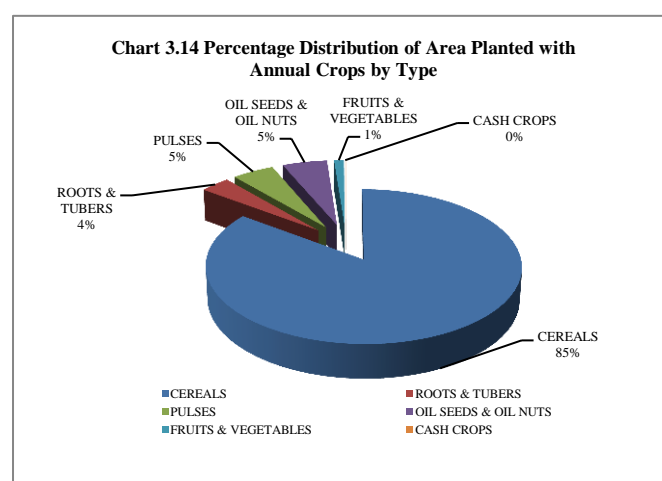
3.4 Analysis of Main Crops

The main crops produced in the region have been categorized first on the basis of relative importance, for both annual and permanent crops and thereafter followed by a more detailed analysis of individual crops by crop type.



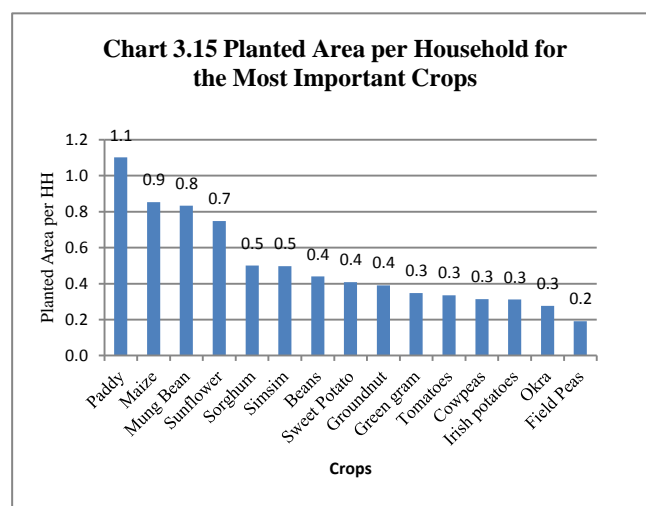
3.4.1 Main Crops

Cereals were the main of crops grown in the region occupying 413,949 ha (85.2% of the area planted with under annual crops) followed by oil seeds and oil nuts (25,313 ha, 5.2%), pulses (23,772ha, 4.9%); roots and tubers (17,039ha, 3.5%), fruits and vegetables (5,612ha, 1.2%) and cash crops (347ha, 0.1%) (Chart 3.14)

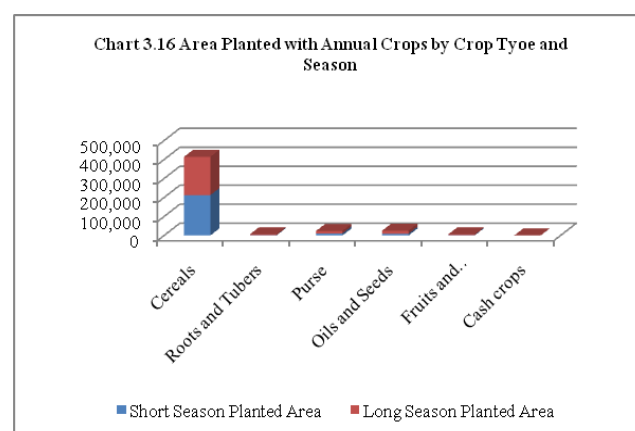


3.4.2 Crop Area Planted per Household

In terms of land allocation to different crops (Chart 3.15), paddy was the only crop planted on land areas larger than a hectare per household (1.1 ha/household) even though the crop was planted by fewer households (154,132) compared to maize (272,594). Other crops that were planted on areas larger than 0.5 ha were maize (0.85 ha), mung bean (0.83 ha) and sunflower (0.75 ha). The other important crops (sorghum, simsim, beans, sweet potatoes, okra and field peas etc) were planted on 0.5 ha or less.



All the annual crops planted in the region were planted in both the short and long rain seasons (Chart 3.16). For all crop types except cereals (212,470 ha in short rains and 201,479 ha in long rains). Larger areas were planted during the long rainy season than during the short rainy season



3.5 Cereal Crop Production

Maize, paddy and sorghum were planted in both the short and long rainy seasons but slightly more during the short rainy season (Table 3.5 and Chart 3.16). The combined total area planted with cereals during the short and long rain seasons was 413,949 ha of which 232,377 ha (56%) were planted with maize..

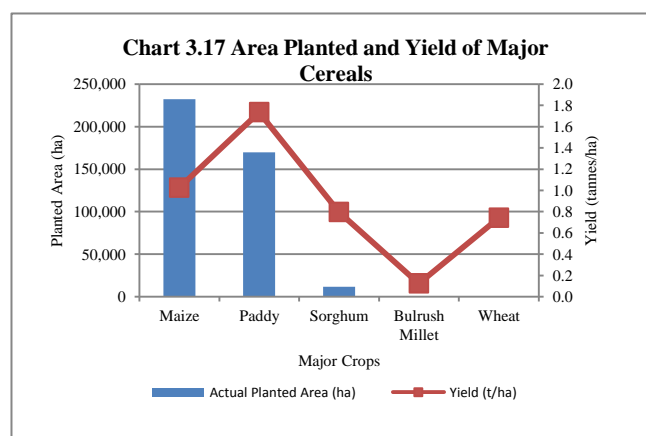
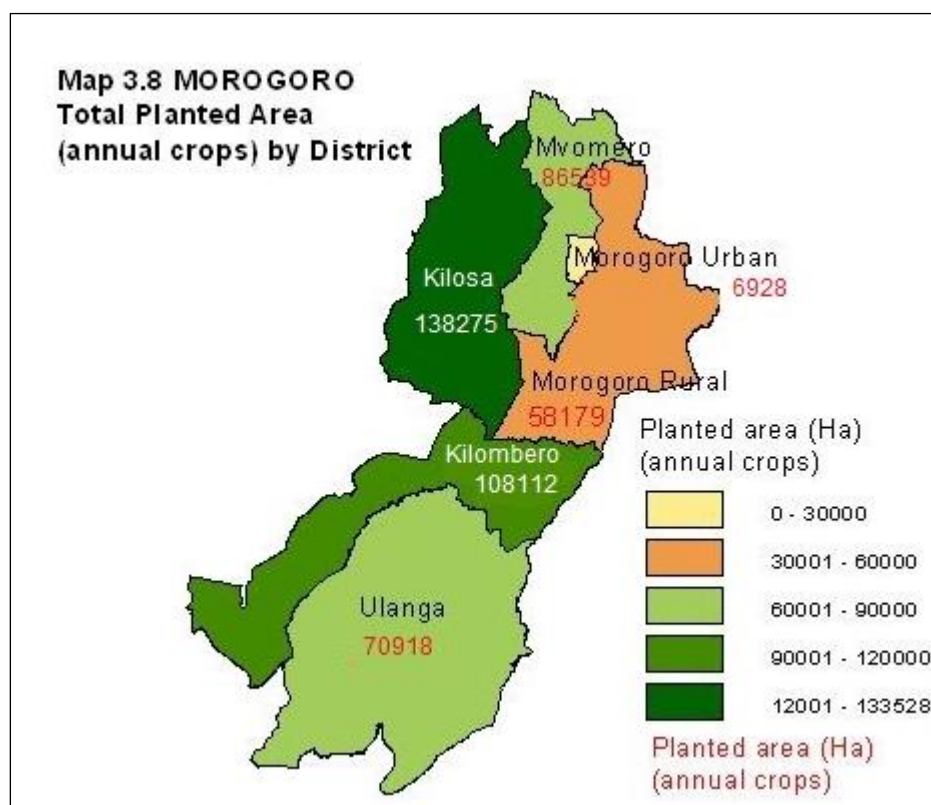
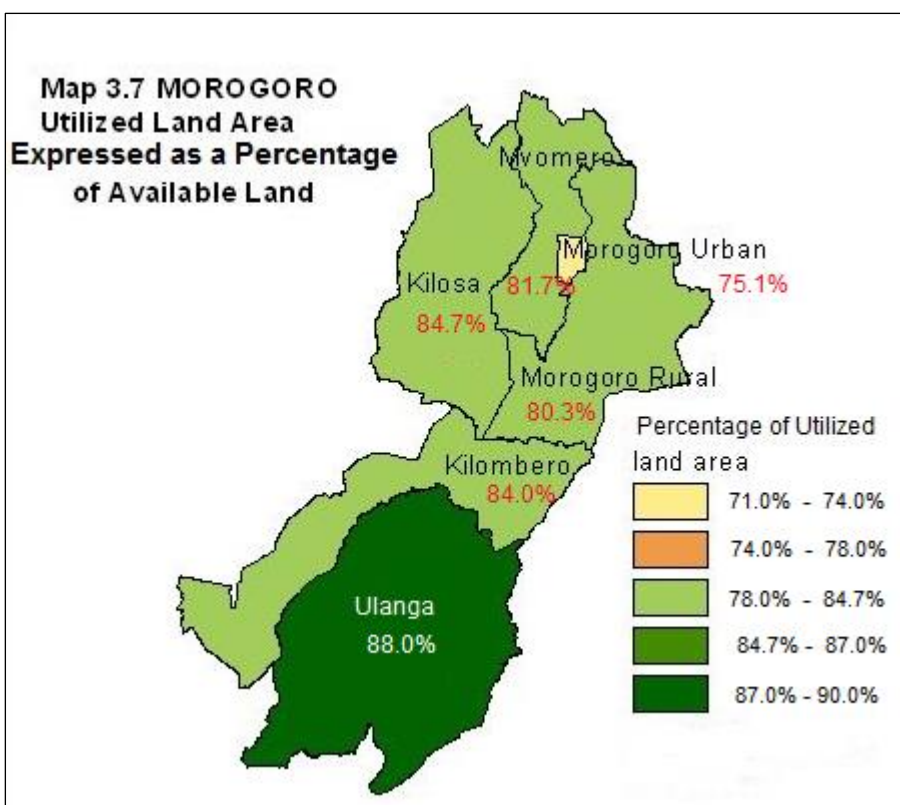
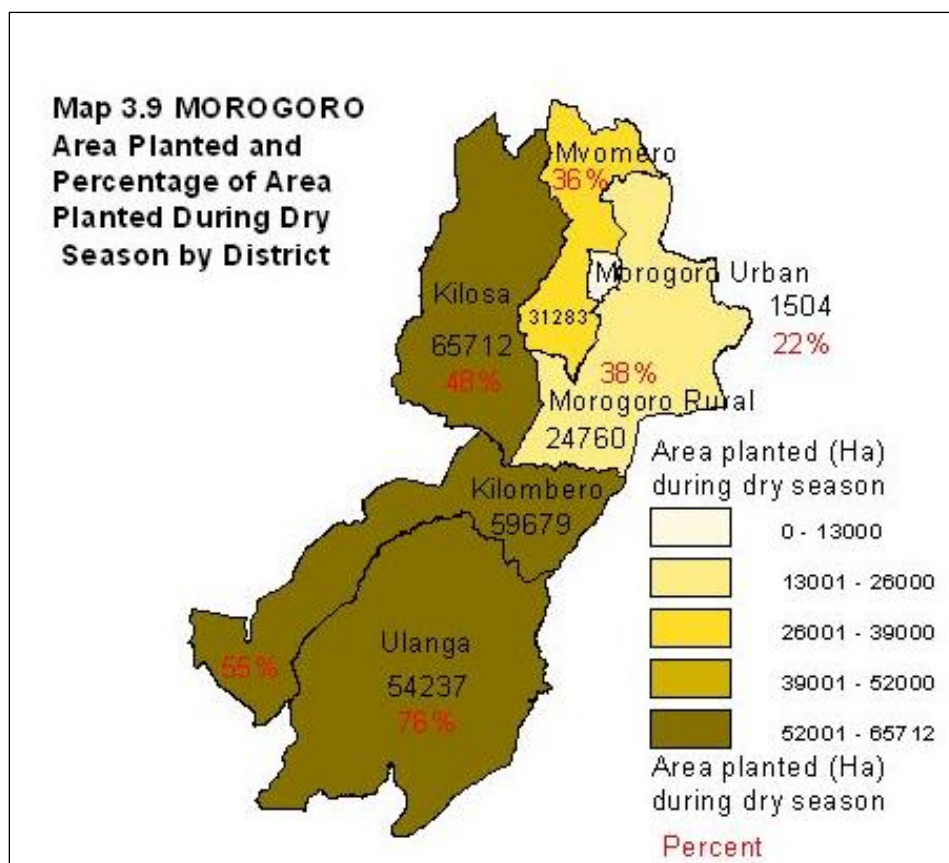


Table 3.5: Actual Planted Area, Production and Yield of Cereal Crops by Season

Crop	SHORT RAINY SEASON			LONG RAINY SEASON			SHORT & LONG RAINY SEASON		
	Actual Planted Area (ha)	Quantity Harvested (tonnes)	Yield (t/ha)	Actual Planted Area (ha)	Quantity Harvested (tonnes)	Yield (t/ha)	Actual Planted Area (ha)	Quantity Harvested (tonnes)	Yield (t/ha)
Maize	120,439	121,209	1.0	111,937	117,226	1.0	232,377	238,435	1.0
Paddy	87,774	160,938	1.8	81,988	133,777	1.6	169,762	294,715	1.7
Sorghum	4,004	2,668	0.7	7,526	6,513	0.9	11,530	9,181	0.8
Bulrush Millet	253	31	0.1	0	0	0.0	253	31	0.1
Wheat	0	0	0.0	28	21	0.7	28	21	0.7
Total	212,470	284,846		201,479	257,537		413,949	542,383	

Maize was the most important crop for the region followed by paddy (Chart 3.17 and Table 3.5). The two crops were planted on a total 402,139 ha (83% of the total 486,032 ha planted with annual crops in the region) with maize alone planted on 232,377 ha equivalent to 47% of the total planted area. Paddy was planted on 168,762 ha (35%), sorghum (11,530ha, 2%), bulrush millet (253ha, 0.1%) and very little wheat was planted during the long rain season. The total production of cereals was 542,383 tonnes comprised of paddy (294,715 tonnes, 54%) followed maize (238,435 tonnes; 44% of total harvested cereals), sorghum (9,181 tonnes, 1.7%), bulrush millet (31 tonnes, 0.006%) and wheat (21 tonnes, 0.004%). Yields were generally high in both long and short rainy seasons.

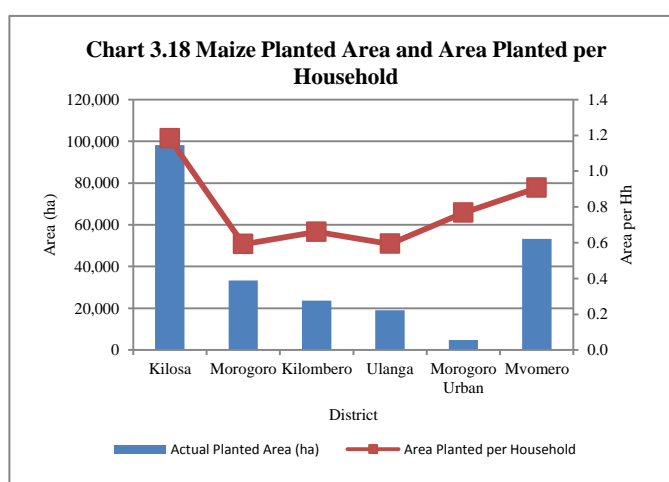




Maize

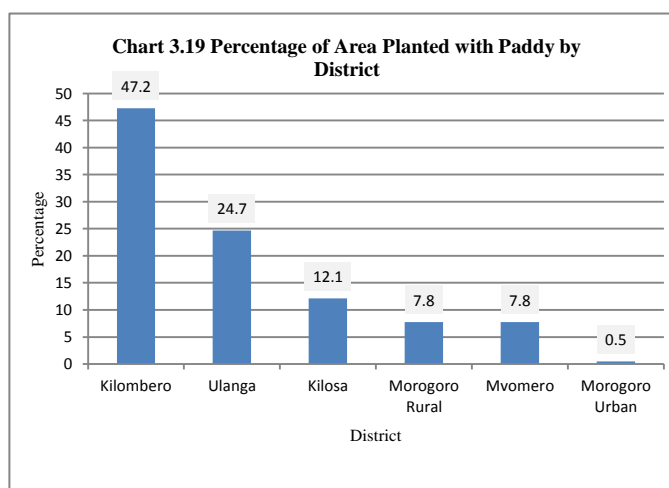
Maize was planted in all districts (Chart 3.18, Map 3.11) with Kilosa leading in the area planted (98,185 ha, 42.3%) and number of households that planted the crop (83,102, 30.5% of households growing maize) followed by Mvomero where maize was planted on 53,225 ha (22.9%) by 58,753 households (21.6% of maize growing households). The areas planted with maize and the number of households growing the crop was lower in the remaining districts as follows: Morogoro Rural (33,308 ha; 56,301 households), Kilombero (23,673 ha; 35,831 households) and Ulanga (19,140 ha; 32,288 households) and the lowest district with the smallest planted area and number of households was in Morogoro Urban (4,846 ha; 6,319 households). Maize productivity was generally below 1.5t/ha (Map 3.11).

It was highest in Kilombero (1.45 t /ha) followed by Ulanga (1.32 t/ha), Morogoro Urban (1.19 t/ha), Mvomero (1.09 t/ha), Kilosa (0.89t/ha) and Morogoro Rural (0.82t/ha). Maize planted areas per growing household were generally low being highest in Kilosa (1.2ha) and lowest in Morogoro Rural and Ulanga districts with (0.59 ha each (Chart 3.18 Map 3.12).



Paddy

Paddy was planted in all districts of the region (Chart 3.19). The total number of households that planted paddy 154,132 equivalent to about 51.9% of the households that engaged in crop production. Kilombero and Ulanga districts were the leading districts in paddy production accounting for 72% of the total area (169,762 ha) planted with paddy and 57.4% of the total number of paddy growing households (154,132). Kilombero had the largest planted area among all the districts and contributed close to half of the regional planted area (80,207 ha 47.2%). This district also had the largest number of paddy growing households (56,925, 36.9%). Ulanga



was second with 41,851 ha (24.7%) planted by 31,587 households (20.5%). Smaller land areas were planted by fewer households in the remaining districts.

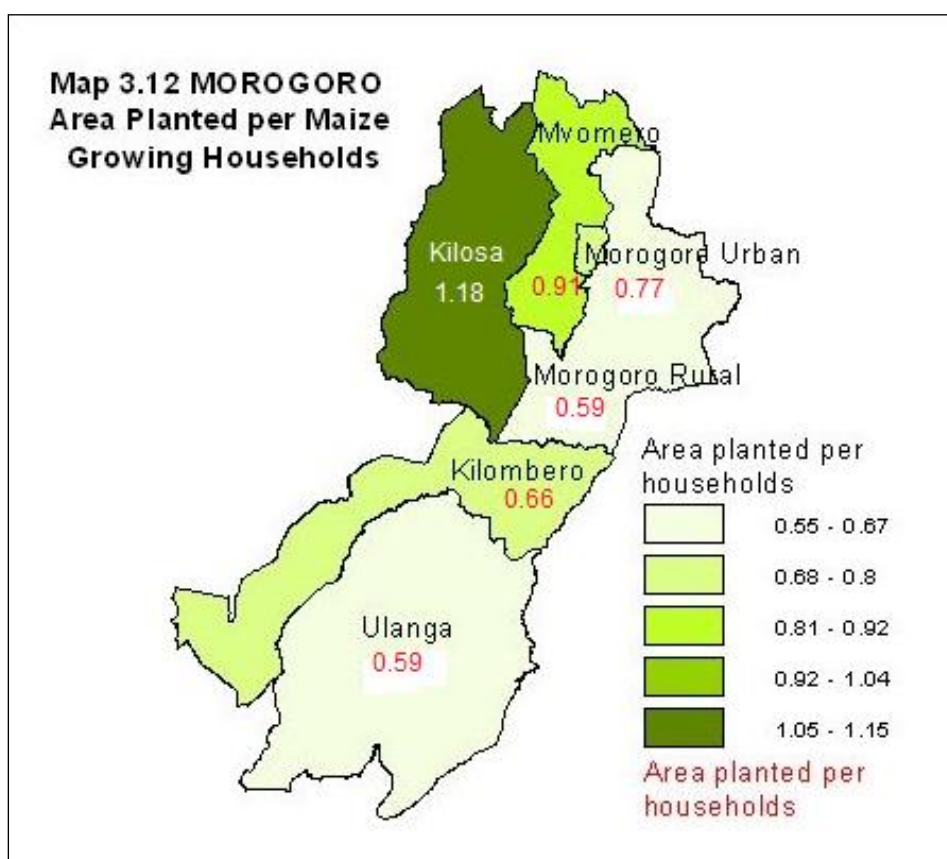
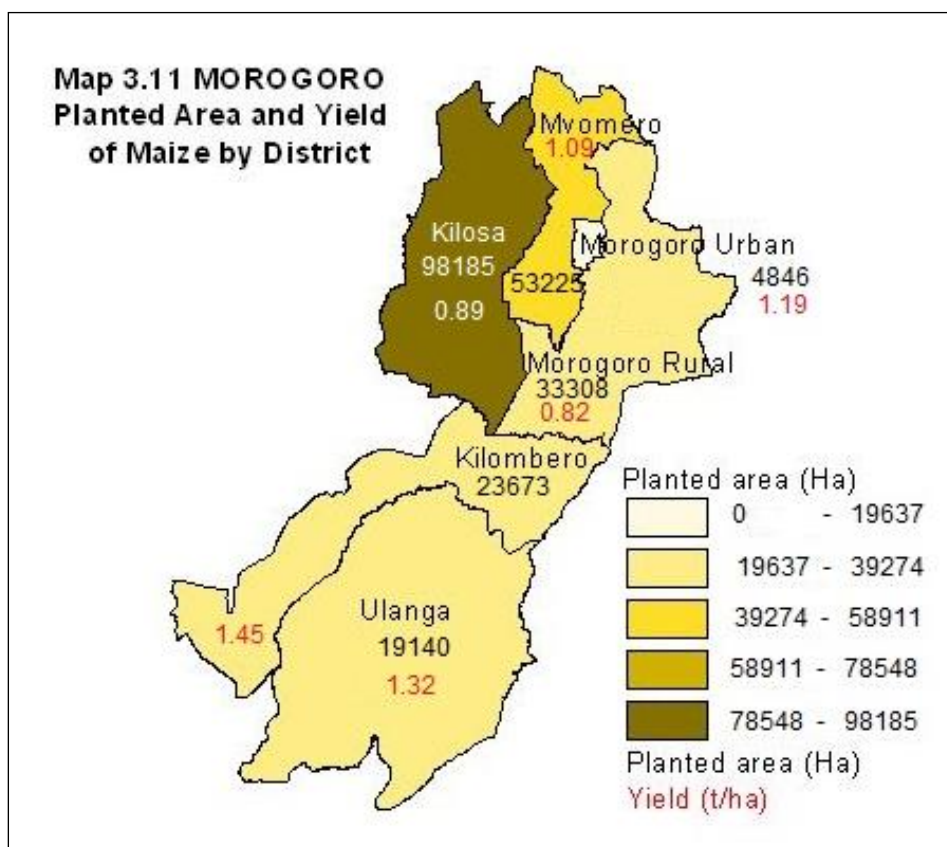
Paddy productivity was generally low below 2 t/ha. Paddy yield was highest in Kilombero (1.94 t/ha) followed by Ulanga (1.82 t/ha), Kilosa (1.46 t/ha) and Mvomero (1.49 t/ha). Yields were lowest in Morogoro Urban and Rural districts (0.86 and 0.89 t/ha respectively, (Map 3.13 and Map 3.14).

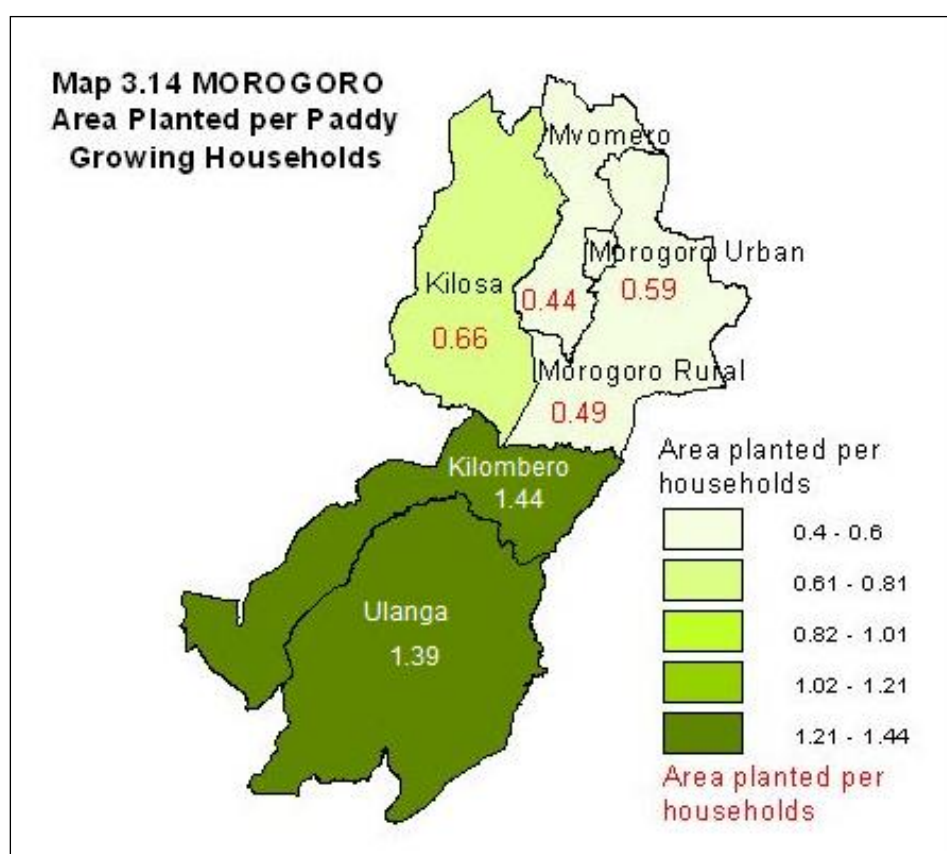
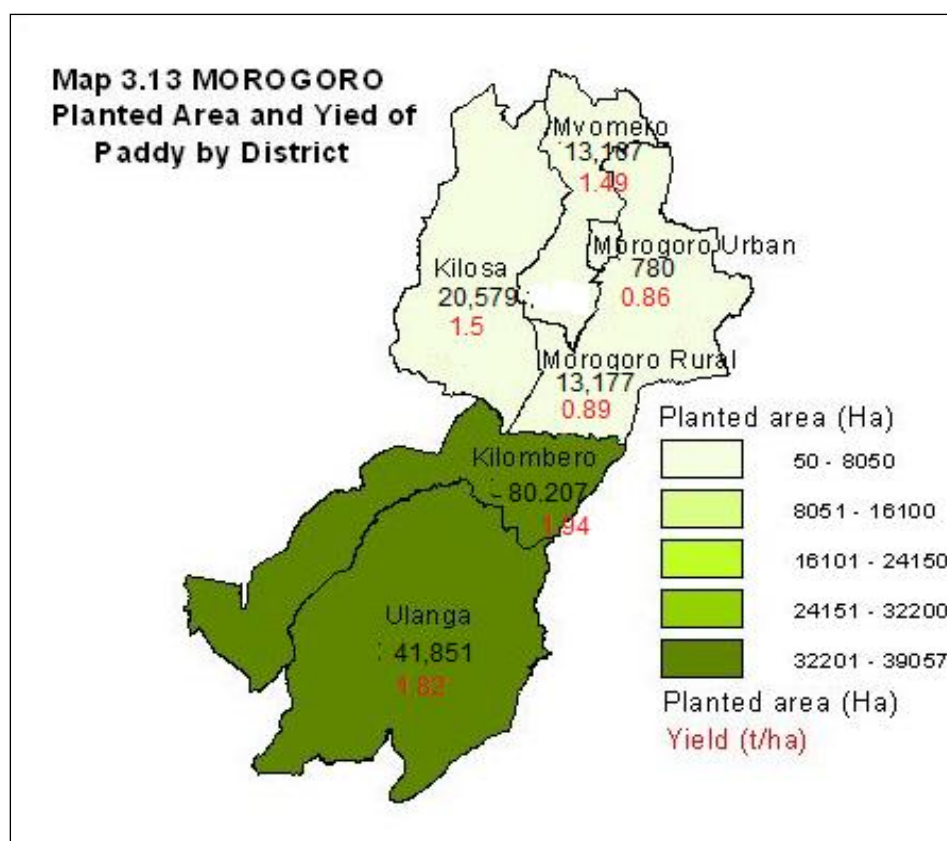
3.5.1 Production of Other Cereals

Other cereals (sorghum, bulrush millet, and wheat) were planted by fewer households on smaller land area (11,811 ha) compared to maize and paddy and mostly in Morogoro Rural District (5,769 ha, 49%), Kilosa (2,703 ha, 23%) and Mvomero (2,583 ha, 22%). Ulanga, Kilombero and Morogoro Urban districts had very small land areas planted with other cereals. Generally, the other cereals were planted by much fewer households on much smaller land areas compared to maize and paddy. Planted area per households was generally between 0.5 to 1.4 ha for all districts (Table 3.6).

Table 3.6: Area Planted with Other Cereals by District

District	Sorghum		Bulrush Millet		Wheat	
	Number of Household	Actual Planted Area (ha)	Number of Household	Actual Planted Area (ha)	Number of Household	Actual Planted Area (ha)
Kilosa	4,582	2,450	208	253	0	.
Morogoro Rural	11,373	5,769	0	.	0	.
Kilombero	289	292	0	.	0	.
Ulanga	965	407	0	.	0	.
Morogoro Urban	89	57	0	.	0	.
Mvomero	5,722	2,554	0	.	140	28
Total	23,019	11,530	208	253	140	28





3.5.2 Root and Tuber Crop Production

Root and tuber crops were planted both during the short and long rain seasons (Table 3.7 and Chart 3.21). A total of 44,745 households planted a variety of root and tuber crops of which cassava was planted by the largest number of households (28,535hh, 63.8%) followed by sweet potatoes (12,575hh, 28.1%), Irish potatoes (2,111 hh, 4.7%) and coco yams (1,471 hh, 3.3%). Yams were planted by only 53 households (0.1% of the households growing root and tuber crops in the region).

Table 3.7: Planted Area, Production and Yield of Major Root and Tuber Crops, Morogoro Region 2007/08

Crop	Number of Households	Actual Planted Area (ha)	Quantity Harvested (tonnes)	Yield (t/ha)
Cassava	28,535	10,646	23,804	2.2
Sweet Potatoes	12,575	5,125	16,284	3.2
Irish potatoes	2,111	657	1,712	2.6
Yams	53	10	12	1.2
Coco Yam	1,471	602	435	0.7
ROOTS & TUBERS		17,040	42,247	2/5

There was a slight decrease in the area planted with root and tuber crops from (17,067 ha in 2002/03 to 17,040 ha in 2007/08 agricultural year. From 2002/03 to 2007/08 the area planted decreased for cassava, Irish potatoes, yams, and coco yams but increased for sweet potatoes. On the other hand, over the same period, production increased for cassava and sweet potatoes but decreased for Irish potatoes, yams and coco yams (Table 3.8).

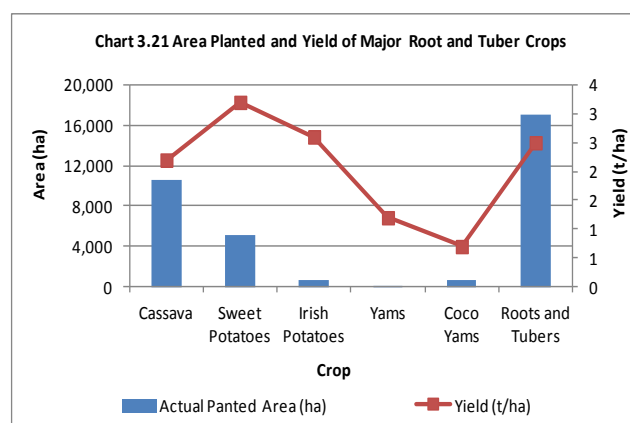


Table 3.8: Comparison of Area, Quantity Harvested and Yield of Root and Tuber Crops by Type of Crop

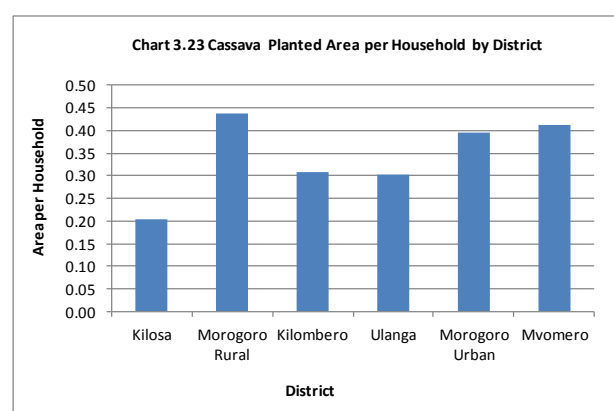
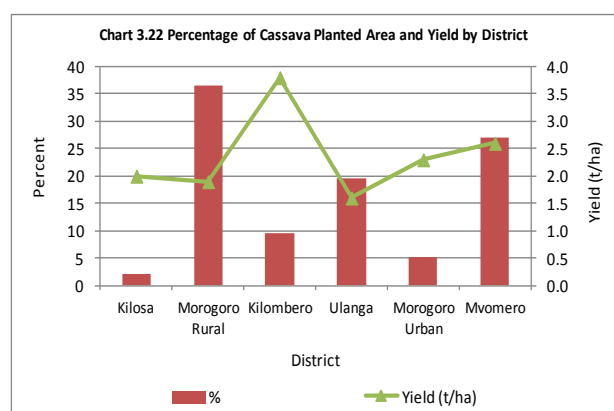
2002/03 Agricultural year				2007/08 Agricultural year		
Crop	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Cassava	11,940	23,625	1.4	10,646	23,804	2.2
Sweet Potato	2,950	4,883	1.7	5,125	16,284	3.2
Irish potatoes	733	724	1	657	1,712	2.6
Yams	77	322	4.2	10	12	1.2
Coco yam	1,367	1,598	1.2	602	435	0.7
Total	17,067	31,152	1.8	17,040	42,247	2.5

Cassava

The total area planted with cassava in the region was 10,646 ha distributed among 28,535 cassava growing households. The planted area per household was 0.37 ha and the total production was 23,804 tonnes.

In relation to planted area (Chart 3.22 and Chart 23), Morogoro Rural had the largest area planted with cassava (3,882 ha, 37%) of the total area planted with cassava in the region) followed by Mvomero (2,872 ha, 27%), Ulanga district (2,093 ha, 20%). Kilombero (1,026 ha, 10%), Morogoro urban (561 ha, 5%), and kilosa (211 ha, 2%).

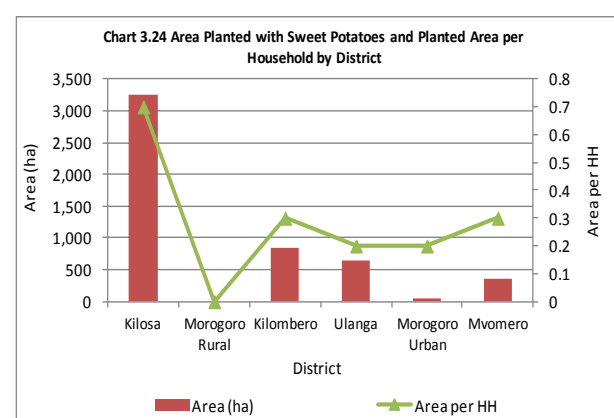
Variations between districts also existed in regard to the yield. Kilombero district was the most productive with a yields of 3.8 t/ha followed by Mvomero (2.6 t/ha) Morogoro urban (2.3t/ha), kilosa (2.0 t/ha), Morogoro rural (1.9 t/ha) and Ulanga (1.6 t/ha).



Sweet Potato

The total area planted with sweet potato in the region was 5,125 ha and a total of 12,575 household were involved (Table 3.9). Kilosa District alone (Chart 3.24) accounted for 63.4% of the planted area in the region (3,251 ha) and 67.6% of the total harvest of sweet potatoes (11,003.6 tonnes out of a total 16,284 tonnes).

Kilosa district was also the only district where households planted sweet potatoes on relatively larger areas (Chart 3.24) compared to all other districts (0.7ha/household). Kilombero had the second largest planted area (840ha) but this was only about 16.3% of the planted area in Morogoro region. The area planted per household in Kilombero was 0.3 ha. In third place was Ulanga with 635 ha (12.4%) with a planted area per



household of 0.2 ha then Mvomero (353 ha, 6.9% then Morogoro urban had the smallest planted area per household of 0.3 ha

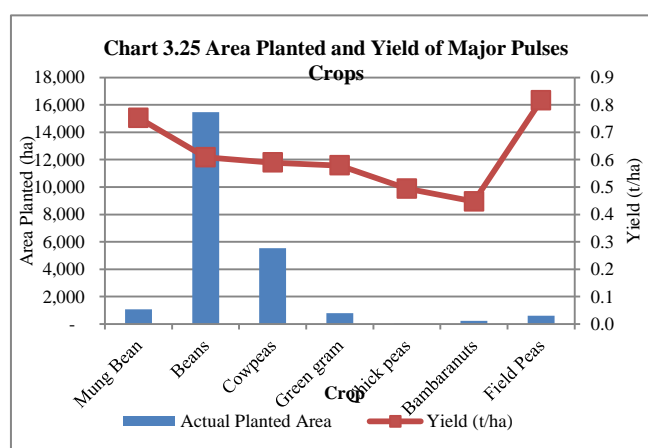
However, in terms of proportions of planted area allocated to sweet potatoes, Kilosa (2.2%) area of 47 ha (0.9%) at district had the largest proportion followed by Ulanga (0.8%) and Kilombero (0.7%). Sweet potatoes were most productive in Kilombero (4.1 t/ha), followed by Morogoro Urban (3.5 t/ha), Kilosa (3.4 t/ha), Mvomero (2.8 t/ha) and Ulanga (1.1 t/ha). Sweet potatoes were not planted in Morogoro Rural district.

Table 3.9: Sweet potatoes, Planted Area, Production, and Area Planted per Household, Morogoro Region, 2007/08

District	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Total Planted Area	Proportion of Land Planted with S\potatoes	Percentage Area Planted S\Potatoes	Area per Household
Kilosa	4,999	3,250	11,003.57	3.4	145,991	2.2	63	0.7
Morogoro	0	0	0	0	88,366	0	0	0
Kilombero	3,179	840	3,468	4.1	119,461	0.7	16	0.3
Ulanga	2,808	635	672	1.1	76,886	0.8	12	0.2
Morogoro Urban	195	47	165	3.5	9,796	0.5	1	0.2
Mvomero	1,396	353	977	2.8	101,796	0.3	7	0.3
Total	12,577	5,125	16,285	3.2	541,749	0.9	100	0.4

3.5.3 Pulse Crops

Pulses are leguminous crops that are primarily produced for grain which is used when dry. The main pulses planted in Morogoro were beans, mung bean, cowpeas, green grams, chick peas, bambaranuts (also called Bambara groundnuts) and field peas. The total area under pulses was 23,772ha. Yield levels for all pulses were below one tonne per hectare (Chart 3.25) of which the highest (0.82 t/ha) was recorded for field peas and the lowest (0.45 t/ha) was recorded for bambaranuts

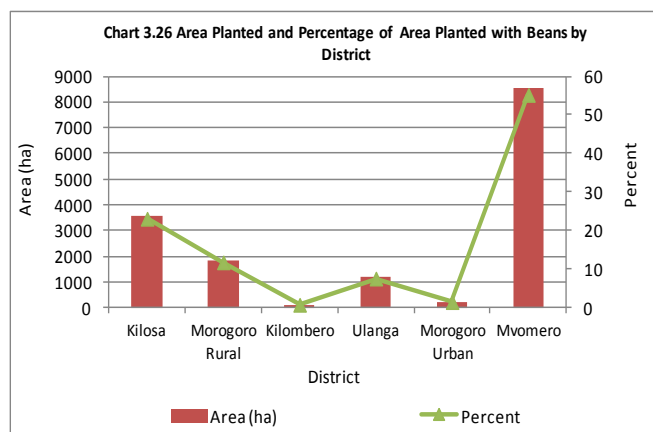


Among the pulses, beans (Chart 3.25) were planted on the largest area (15,469 ha, 65.1%); by the largest number of households (35,194, 57.8%) and contributed the largest tonnage to production (9,408 tonnes, 64.6%).

The second most common pulse, in all the three criteria, was the cowpeas which was planted on 5,541 ha (23.3%) by 17,672 households (29%) and the quantity harvested was 3,264 tons (18.6% of total quantity of pulses harvested).

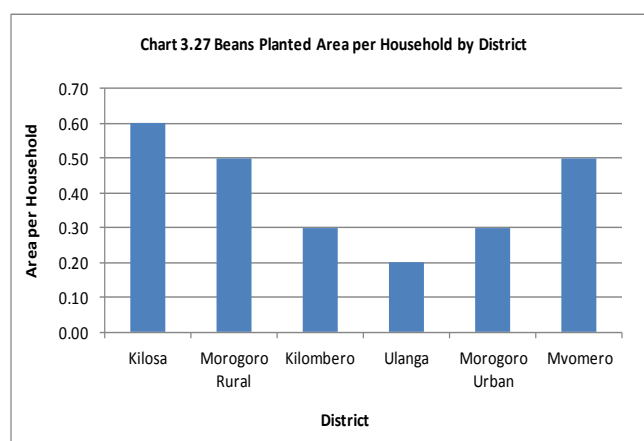
Beans production

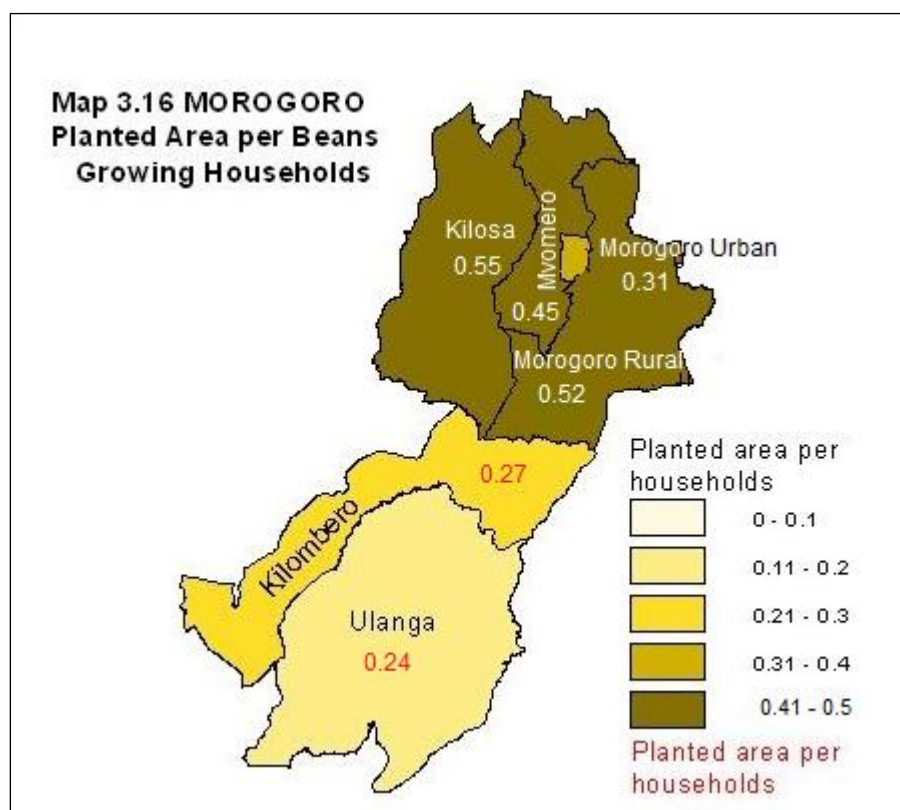
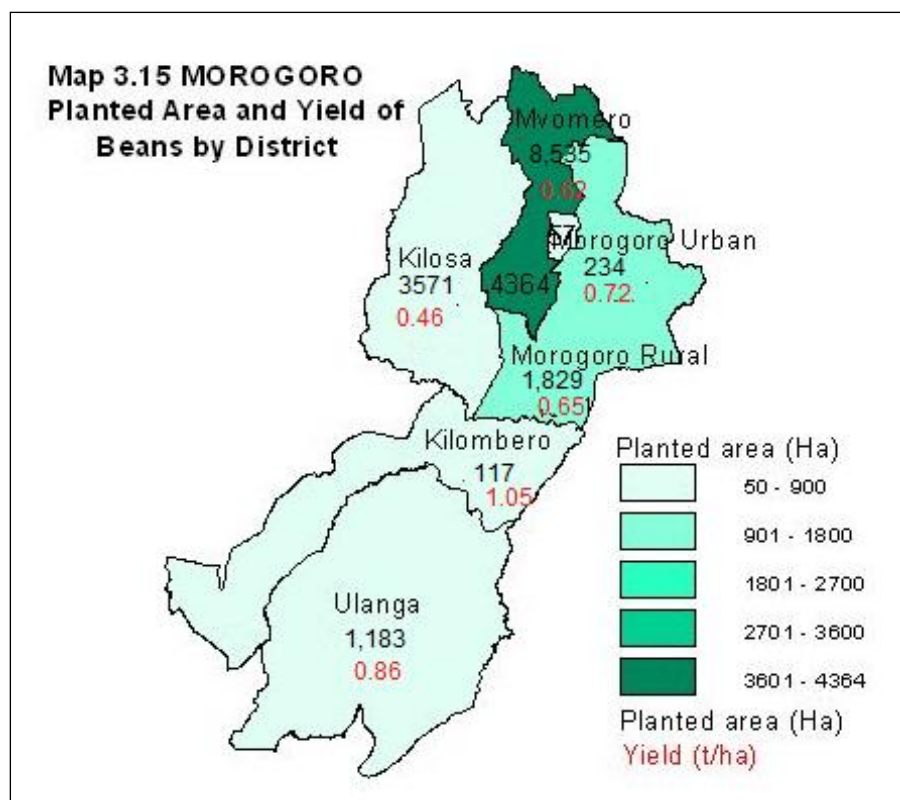
Beans were planted in all districts. However, the area planted and the proportion of land planted with beans was highest in Mvomero District (Chart 3.26 and Map 3.15). In this district, a total of 8,535 ha were planted (55.2% of the total area planted in the region) by 19,119 households (54.3% of total households that planted). Mvomero was followed with a large difference (Chart 3.26)



by Kilosa District (3,571 ha, 23.1%), Morogoro Rural (1,829 ha, 11.8% and Ulanga (1,183 ha, 7.6%). Morogoro Urban (234 ha, 1.5%) and Kilombero (117 ha, 0.8%) where as the least planted area was in Morogoro urban district.

Generally, the average area planted per household was below one hectare (Chart 3.27). The largest bean planted area per household was in Kilosa (0.55 ha), followed by Morogoro Rural (0.52 ha) and Mvomero (0.45 ha). Ulanga, Kilombero and Morogoro Urban districts had the smallest planted area per household all in the range of 0.24 – 0.31 ha.





3.5.4 Oil Seeds and Oil Nuts' Production

A total of 25,313 ha (equivalent to about 5.3% of the total 475,566 ha planted with annual crops in the region), were planted with oil seed and oil nut crops (Table 3.10). The largest planted area (17,577 ha or 69.4% of the total planted area) was under sim sim, followed by sunflower (5,260 ha, 20.8%) and groundnut (2,476 ha, 9.8%).

Similarly, the households that planted sim sim were the majority (35,313 hh, 72.6% of the total 48,671) households that planted oil seeds/nutscrops (Chart 3.28). A total of 10,942 tonnes of oil seed and oil nut crops were harvested of which simsim had the largest share (6,671tonnes, 61%). However, the highest yields were obtained from sunflower (0.59 t/ha) followed by groundnut (0.47 t/ha) and sim sim (0.38 t/ha).

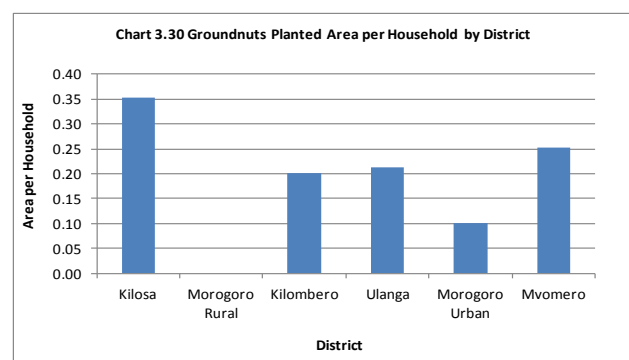
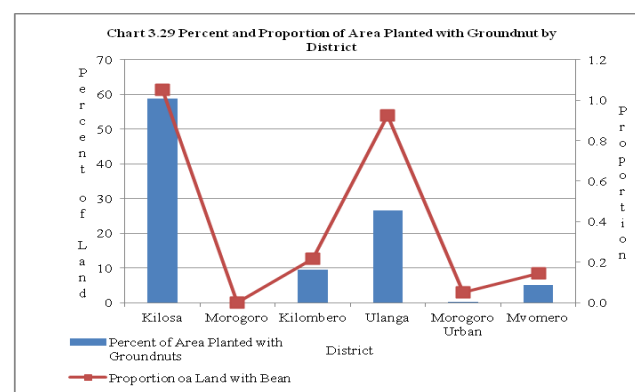
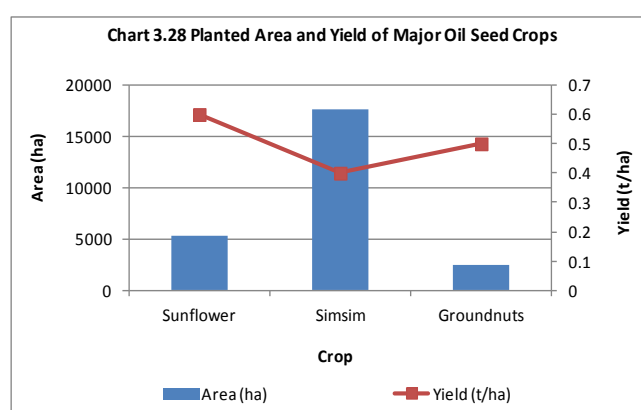
Groundnut Production

There was a slight decline in the area planted with groundnuts between 2002/03 (2,527 ha) and 2007/08 agricultural year (2,476 ha).

The largest share of the area planted with groundnut (Chart 3.29, Map 3.17) was in Kilosa District (1,455 ha, 58.8%), followed by Ulanga (657 ha, 26.5%), Kilombero (234 ha, 9.5%), Mvomero (127 ha, 5.1%) and Morogoro Urban (4 ha, 0.2%) Yields were generally low, for most of the districts, except in Kilombero District

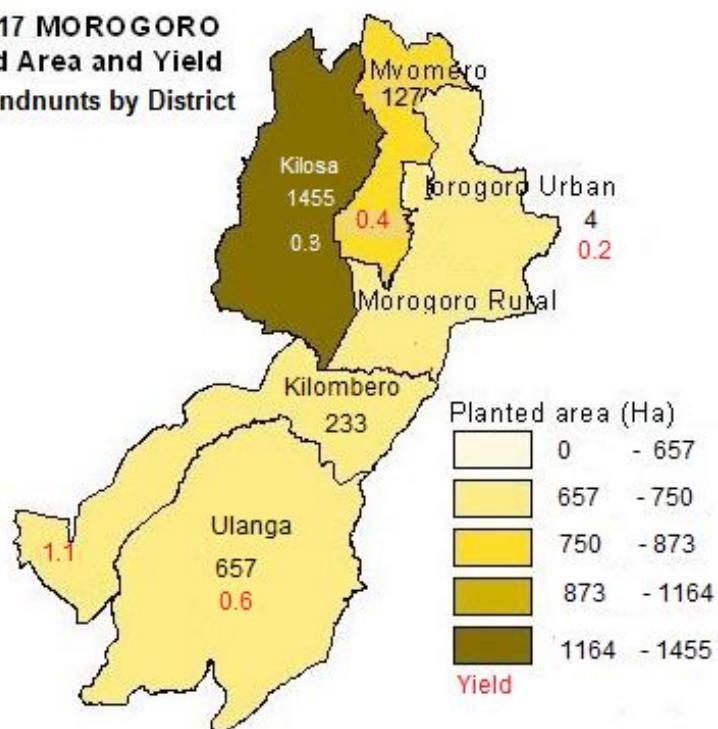
Table 3.10: Area and Yield of Oilseed Crop by Type of Crop, Morogoro Region, 2007/08

Crop	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Sunflower	7,026	5,260	3,103	0.6
Simsim	35,313	17,577	6,671	0.4
Groundnut	6,332	2,476	1,168	0.5
Total	48,671	25,313	10,942	0.4



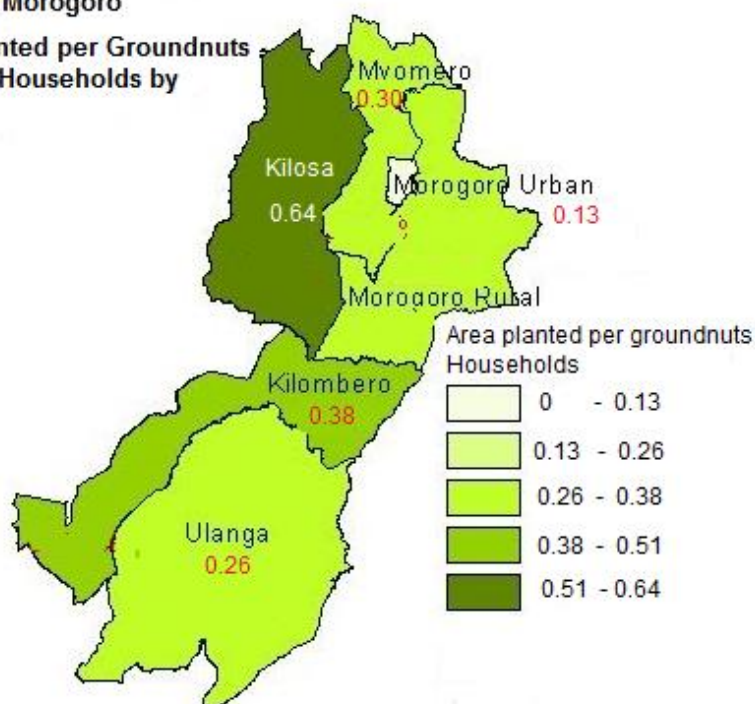
where the yields was 1.12t/ha. Planted areas per household were generally small except in Kilosa where the 0.63 ha/household was the largest (Chart 3.30, Map 3.18). Morogoro Urban District having the smallest area of 0.1 ha.

Map 3.17 MOROGORO
Planted Area and Yield
Of Groundnuts by District



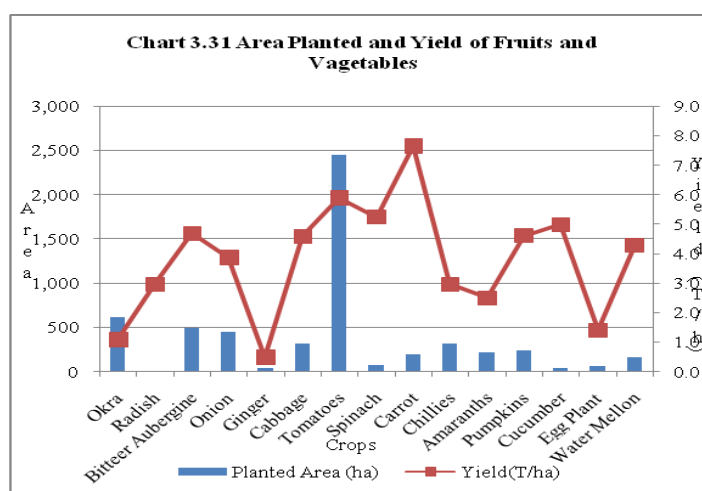
Map 3.18 Morogoro

Area planted per Groundnuts
growing Households by
District



3.5.5 Fruits and Vegetables

A wide range of fruits and vegetables were produced in Morogoro region. However, the fruit and vegetable crops indicated on Chart 3.31 are the annual or temporary crop types. Water melon is included here as it is a fruit crop and also annual. Other fruit crops are tree types categorized as perennial or permanent crops. Among the vegetable crops (Chart 3.31 and Table 3.11), tomatoes were the most dominant accounting for 43.5% (2,442 ha) of the planted area. Other vegetable crops planted on relatively large areas were Okra (609 ha, 10.9%), bitter aubergine or African eggplant (493 ha, 8.8%), onion (439 ha, 7.8%), cabbage (310 ha, 5.5%), chillies (308 ha, 5.5%), amaranths (216 ha, 3.8%) and pumpkins (238 ha, 4.2%). Other vegetables planted on much smaller areas were radish, ginger, carrot, cucumber and eggplant.



The distribution of growing households followed a similar trend to the planted area with the largest proportion of the households (7,280, 31.5%) planting tomatoes as compared to other vegetables for which 5 - 10% of the households growing fruits and vegetables were involved. These include bitter aubergine (9.8%), okra (9.5%), onions (9.3%), cabbage (7.9%), pumpkins (6.7%), chillies (6.5%) and amaranths (5.8%).

The general production trend indicates that the total production of fruits and vegetables declined from 42,229 tonnes (2002/03, Agriculture Census) to 25,867 tonnes in 2007/08. However, the result for both years

Table 3.11: Planted Area, Production and Yield of Fruits and Vegetables.

Crop	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Okra	2,203	609	681	1.1
Radish	18	2	5	3.0
Bitteer Aubergine	2,264	493	2,308	4.7
Onion	2,153	439	1,706	3.9
Ginger	88	36	18	0.5
Cabbage	1,819	310	1,422	4.6
Tomatoes	7,280	2,442	14,381	5.9
Spinach	833	72	376	5.3
Carrot	822	190	1,453	7.7
Chillies	1,504	308	916	3.0
Amaranths	1,349	216	538	2.5
Pumpkins	1,537	238	1,100	4.6
Cucumber	193	37	186	5.0
Egg Plant	644	60	85	1.4
Water Mellon	373	161	691	4.3
Total	23,079	5,612	25,867	4.6

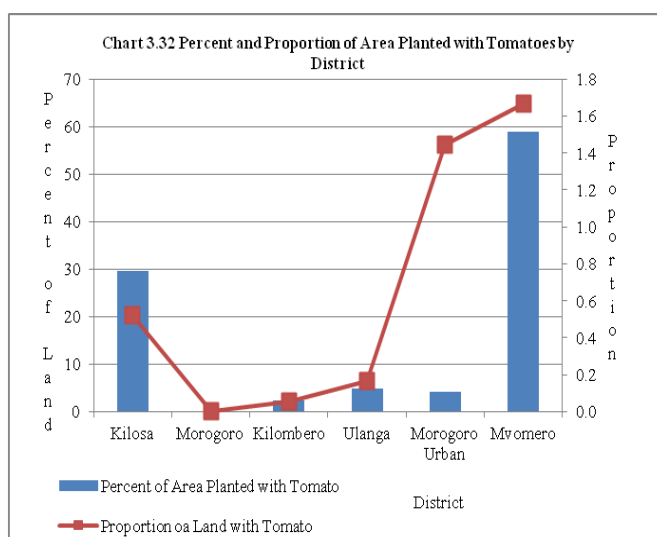
show that, tomatoes accounted for most of the total production of fruits and vegetables with a share of 51% in 2002/03 and 56% in 2007/08. This implies that tomato has continued to be the most

cultivated fruit and vegetable crop in the region. In this census (Table 3.11), production of tomatoes accounted for 55.6% (14,381 tons) of total harvested fruits and vegetables followed by a large margin bitter Aubergine (8.9%), onion (6.6%), carrot (5.6%), cabbage (5.5%), and pumpkins (4.3%).

Carrot had the highest yield (7.7 t/ha) followed by tomato (5.9 t/ha). Other annual fruit and vegetable crops that had relatively high yields include some that were planted on very small land areas (Chart 3. 31) such as spinach (5.3 t/ha) and cucumber (5 t/ha). The yields of most other annual fruit and vegetable yields were above 1.5 t/ha except for okra (1.1 t/ha) and egg plant (1.4 t/ha) and the lowest was that of ginger (0.5 t/ha).

Tomato

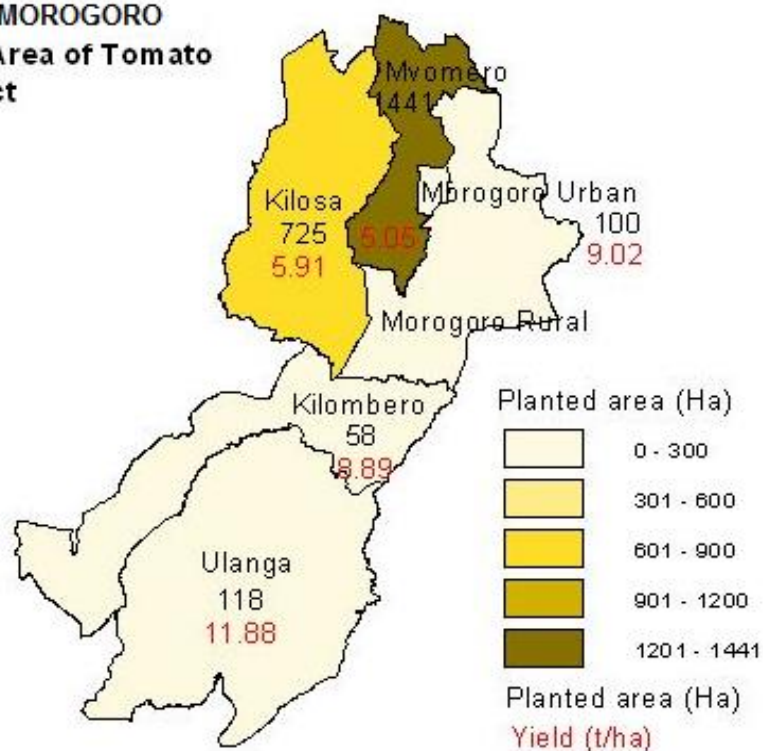
The largest planted area of tomatoes were in two districts, Mvomero followed by Kilosa (Chart 3.32 and Map 3.23) of which Mvomero accounted for 59% of the total area planted of 1,441 ha. Kilosa District had 725 ha (29.7%). The number of households that planted tomato was also largest in Mvomero (4,187 hh, 57.5%) followed by Kilosa (1,250 hh, 17.2%). Despite the large share by the two districts, the proportion of annuals' planted areas with tomato were small being 1.7% in Mvomero and 0.5% in Kilosa district. Very small areas were planted with tomatoes in Ulanga, Morogoro urban and Kilombero districts (4.8, 4.1 and 2.4% of the total area under tomatoes in the region respectively), (Chart 3.32). Morogoro Rural had no area planted with tomatoes.



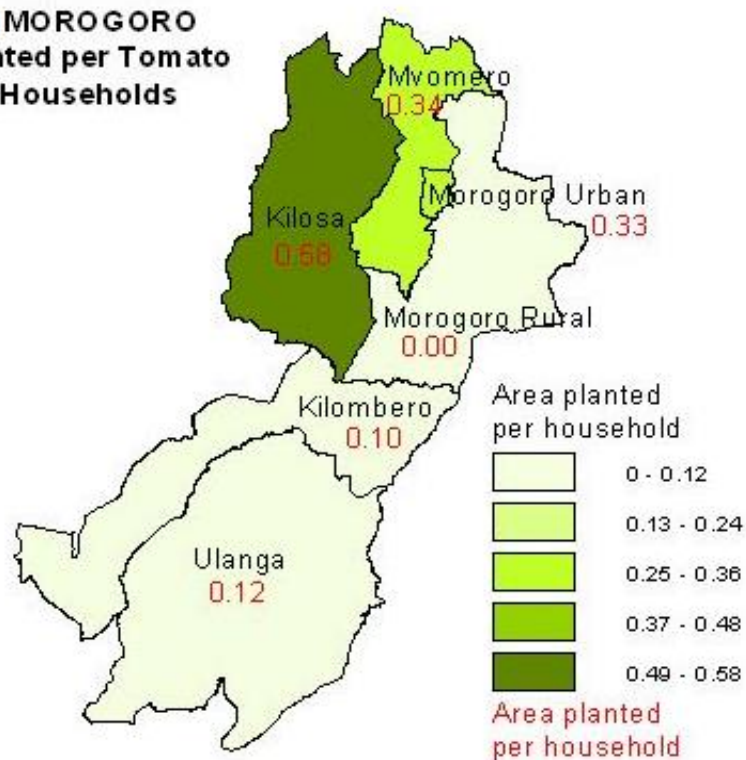
Mvomero district contributed 7,275 tonnes (50.6%) of the total harvested quantity followed by Kilosa (4,283 tonnes, 29.8%) and Ulanga (1,401 tonnes, 9.7%) and the three districts together accounted for 90.1% of all the tomatoes harvested in the region (Map 3.23). However, yield was highest in Ulanga (11.9 t/ha) followed by Morogoro Urban (9 t/ha) and Kilombero (8.0 t/ha). Planted area per household was generally small and below 0.5 ha in all districts except Kilosa where the planted area per household was largest at 0.58 ha (Map 3.20).

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Map 3.19 MOROGORO
Planted Area of Tomato
by District

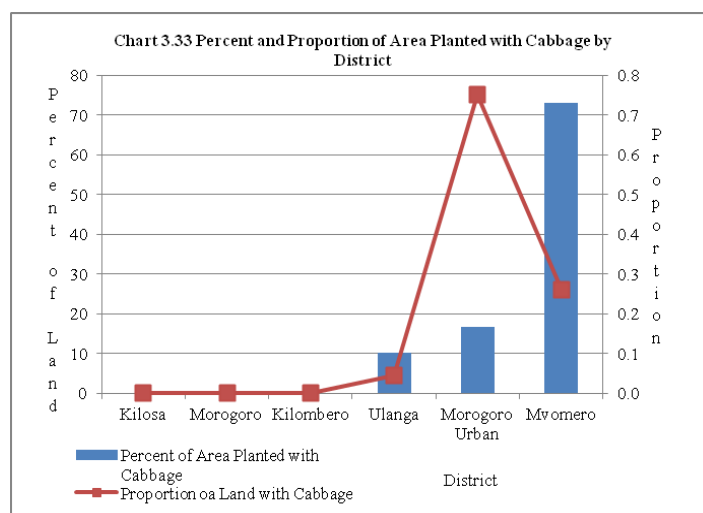


Map 3.20 MOROGORO
Area Planted per Tomato
Growing Households



Cabbages

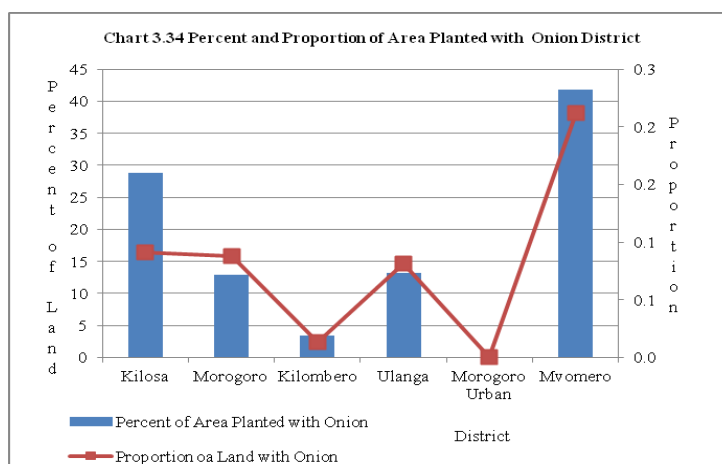
Cabbages (Chart 3.33) were planted predominantly in Mvomero District (226 ha, 72.9% of the total planted area under this crop) and a bit in Morogoro Urban (52 ha, 16.8%) also Ulanga (32 ha, 10.3%). However, proportionally, cabbage was given low priority in land allocation in all districts. Proportion of the area planted with annual crops in the region which was utilized for cabbage



was 0.1% and the highest proportion was only 0.75% in Morogoro Urban. Planted areas per household were very small with 0.24 ha, recorded in Morogoro Urban being the largest.

Onions

Onions were planted in all districts except Morogoro Urban (Chart 3.34) but in varying proportions. Mvomero district had the largest planted area (184 ha) and the largest percentage of land (41.8%) planted with onions in the region (Chart 3.34) followed by Kilosa (126 ha, 28.6%). Each remaining district had less than 14% of

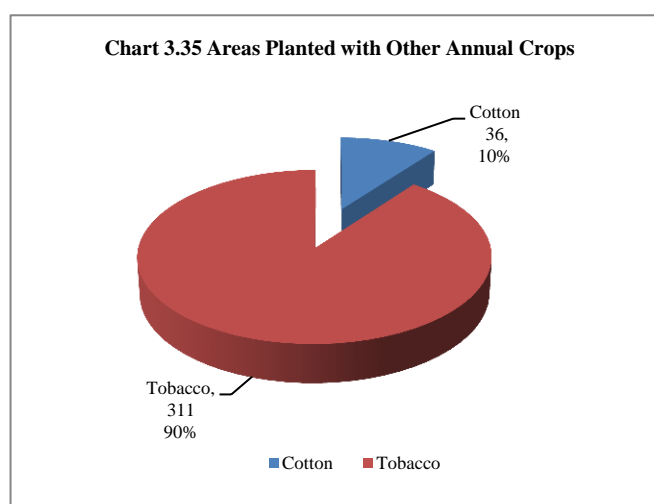


the total area planted with onions with Kilombero having the smallest planted area (15 ha, 3.4%) among the districts that planted onions.

The total production was 1,706 tonnes (Table 3.11) obtained mostly from Kilosa District (885.4 tonnes, 51.9%) followed by Mvomero (559.3, 32.8%), Ulanga (244.2 tons, 14.3%) and Kilombero (17 tonnes, 1%). Yield was highest in Kilosa District (7 t/ha) which also had the largest production (885.4 tonnes) followed by Ulanga (4.2 t/ha) and Mvomero (3.0 t/ha). Ulanga had the second largest number of households, after Mvomero, even though the district had the smallest planted area per household (0.09 ha).

3.5.6 Production of Other Annual Crops

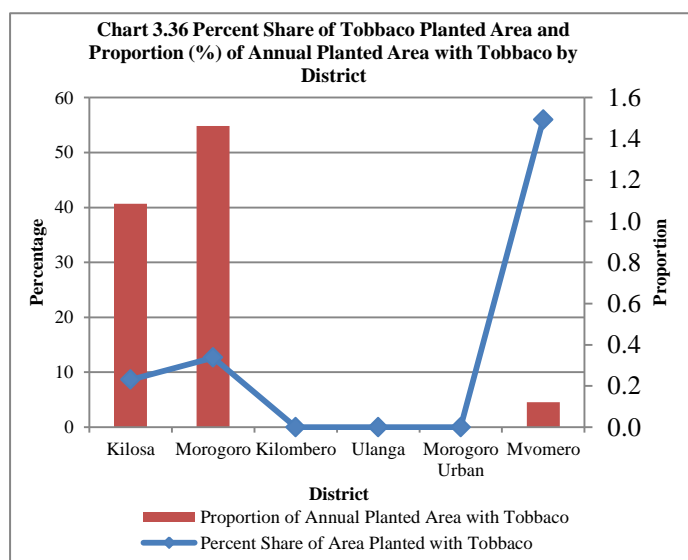
The other annual crops planted in the region, which are basically regarded as cash crops were cotton and tobacco. According to the 2002/03 Agriculture Census results, an area of 698 ha was planted with cotton and tobacco of which cotton was the most dominant (620 ha, 89%). In this census data, the planted area for the two crops declined to 347 ha and the dominance was also reversed indicating most planted area for tobacco



instead of cotton (Chart 3.35). In this census data, the area planted with tobacco was 311 ha planted (90%) compared to 36 ha (10%) planted with cotton, (Chart 3.35).

Tobacco

Tobacco was planted on 311 ha shared between three districts (Chart 3.36) as follows; Morogoro Rural District (171 ha, 55%), Kilosa (126 ha, 41%) and Mvomero (14 ha, 5%). According to 2002/03 Agriculture Census results the total planted area in Morogoro region was 78 ha. The area planted with tobacco in 2007/08 therefore increased by almost 299% over the 2002/03 figures. The total production was 107.8 tonnes (183.7%



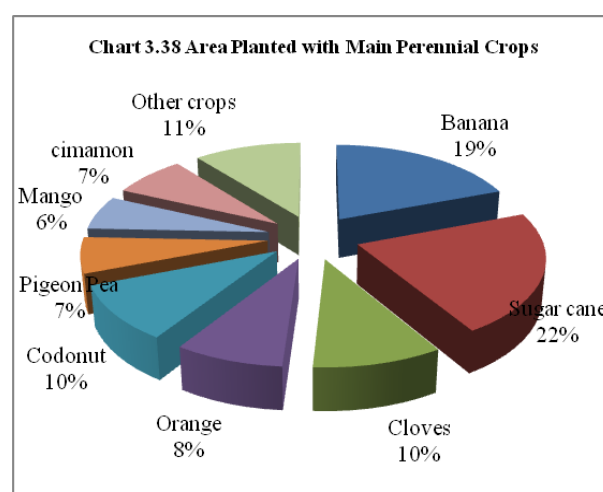
increase over 2002/03) with Morogoro Rural producing 54 % (57.7tonnes) of the total harvest.

The households that engaged in tobacco production were largest in Morogoro Rural (421) and smallest in Mvomero (140) but yields were 1.5 t/ha in Mvomero, 0.3 t/ha in Morogoro Rural and 0.2 t/ha in Kilosa.

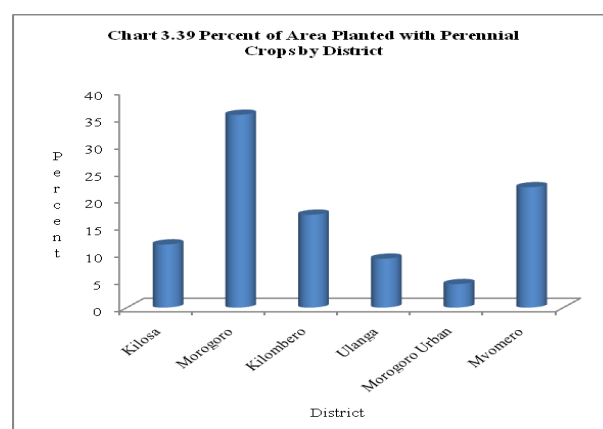
3.5.7 Perennial Crops

The area planted with perennial crops was 66,182 ha, (12% of the whole planted area) compared to annual crops (475,566 ha, 88%). Perennial crops are type of crops that normally require more than one season or year to mature and produce and would continue to do so for a number of seasons or years. Hence, perennial is synonymous with permanent crops. However, there are a number of crops which would normally mature and produce within one growing season or one year but as they are able to remain in the field and continue to produce over several seasons, they are also been included into this category. Crops of this nature include banana and pigeon peas which are discussed in this section.

A wide range of perennial crops were planted (Chart 3.38) of which the major crops were sugarcane (12,215 ha, 23% of the area planted with perennial crops), followed by banana (10,770 ha, 21%), coconuts (5,562 ha, 10%), oranges (4,582 ha, 9%), pigeon peas (3,581 ha, 6.4 %) mangoes (3,412 ha 7%), coffee (746 ha, 1.4%), palm oil (542 ha, 1.0%), cloves (497 ha 0.9%), cashewnuts (418 ha, 0.8%) and others (10,099 ha, 19%). Bananas were planted by the largest number of households (37,278, 24%), followed by mangoes (22,859, 15%), coconuts (19,258, 12%) oranges (12,469 8%), sugarcane (9,679 6%) and pigeon pea (8,242, 5%). The remaining perennial crops were planted by 47,084 households (30%).



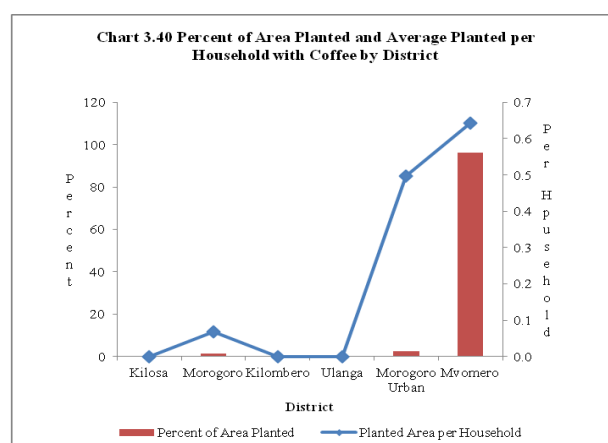
A total of 66,182 ha were planted with perennial crops in the region. Morogoro Rural District had the largest area planted with perennial crops (23,564 ha, 35.6% of the total planted area), followed by Mvomero (14,710 ha, 22.2%), Kilombero (11,349 ha, 17.1%) and Kilosa (7,716 ha, 11.7%). Ulanga (5,975 ha, 9.0%) and Morogoro Urban (2,868 ha, 4.3%), (Chart 3.39).



Planted areas per household were less than a hectare in all districts except in Morogoro Rural where it was 1.4 ha per household. Ulanga District had the smallest planted area per household (0.4 ha) implying a more serious situation of land shortage in this district compared to the other districts.

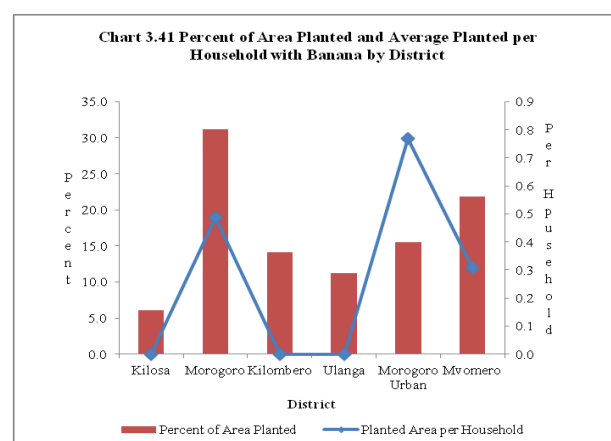
Coffee

Coffee was planted in three districts (Chart 3. 40) but predominantly in Mvomero (719 ha, 96.4% of the total area planted with coffee) with very small planted areas in Morogoro Urban (18 ha, 2.4%) and Morogoro Rural (9 ha, 1.2%). Similarly, the largest number of growers was in Mvomero (1116 households, 86.4%), followed by Morogoro Rural (140 households, 10.8 %) and Morogoro Urban (35 households, 2.7%). Less than one hectare per household were planted in all districts, the largest being 0.64 ha in Mvomero District.



Bananas

Bananas were planted in all districts of Morogoro Region in varying proportions (Chart 3. 41). Morogoro rural had the largest planted area (3,356 ha, 31.2% of the total area planted with banana) and Kilosa had the smallest planted area (650 ha, 6.0%). The following were planted areas of other districts: Mvomero (2,355 ha, 21.9%), Morogoro urban (1,676 ha, 15.6%), Kilombero (1,527 ha, 14.2%) and Ulanga (1,206 ha, 11.2%), (Chart 3.41). Morogoro Rural and Mvomero districts together accounted for 53.1% of the planted area (5,711 ha) implying that the two districts were the most important for banana production in region.

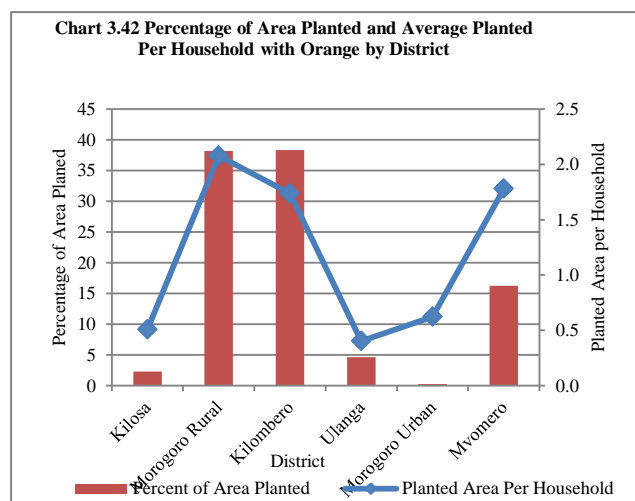


The planted area per banana growing household was largest in Morogoro Urban (0.77 ha) followed by Morogoro Rural (0.49 ha) and Mvomero (0.31 ha). Growing households in the remaining districts planted smaller areas with the smallest being in Ulanga (0.14 ha) (chart 3.41).

Orange

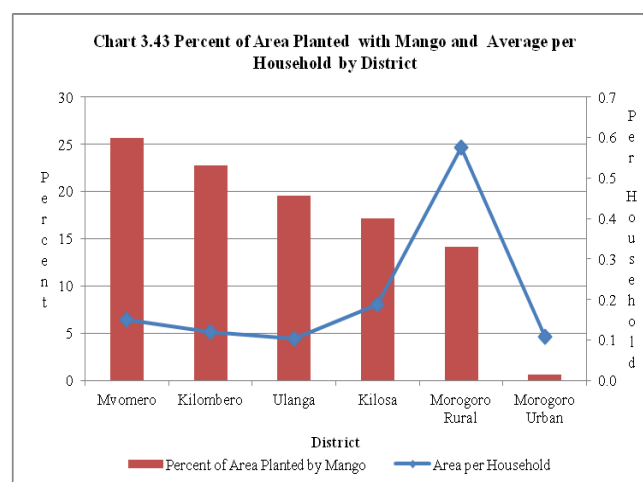
Oranges were planted mainly in Morogoro Rural District (1,751 ha, 38.2% of the total area planted with oranges) and Kilombero District (1,757 ha, 38.4%). Mvomero District with 745 ha (16.3%) was the third most important district for orange production. Other districts had very small areas planted with oranges (Chart 3.42)

The area planted per household was high in Morogoro Rural district (2.1 ha/ hh) followed by Mvomero (1.8 ha/hh) and Kilombero (1.7) Chart 3. 42). Growers in the other remaining districts planted much smaller areas, the smallest being 0.5 ha/household in Kilosa District.



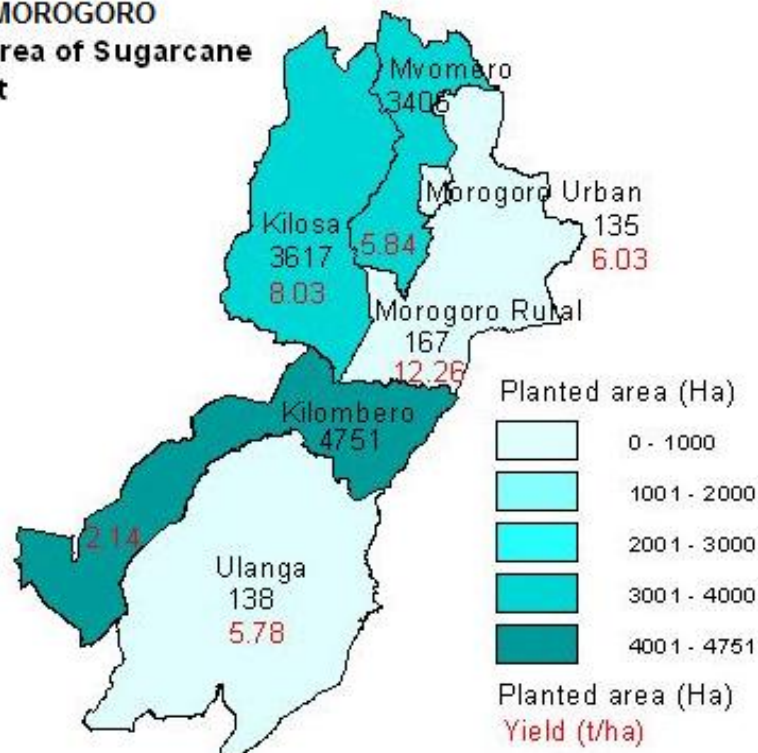
Mango

Mangoes were planted in all districts (Chart 3.43) by a total of 22,859 households (9.0% of total 253,187 households that planted crop only in the region) of which Kilombero had the largest number of mango growing households (6,502) followed by Ulanga (6,317) and Mvomero (5,861 households). Mvomero had the largest planted area (876 ha, 25.7% of the total area planted with mangoes) closely followed by Kilombero (776 ha, 22.7%), Ulanga (669 ha, 19.6%), Kilosa (584 ha, 17.1%) and Morogoro Rural (484 ha, 14.2%). Morogoro Urban had the smallest area planted with mangoes in the region (23 ha, 0.7%) and the smallest number of households growing the crop (Chart 3.43)

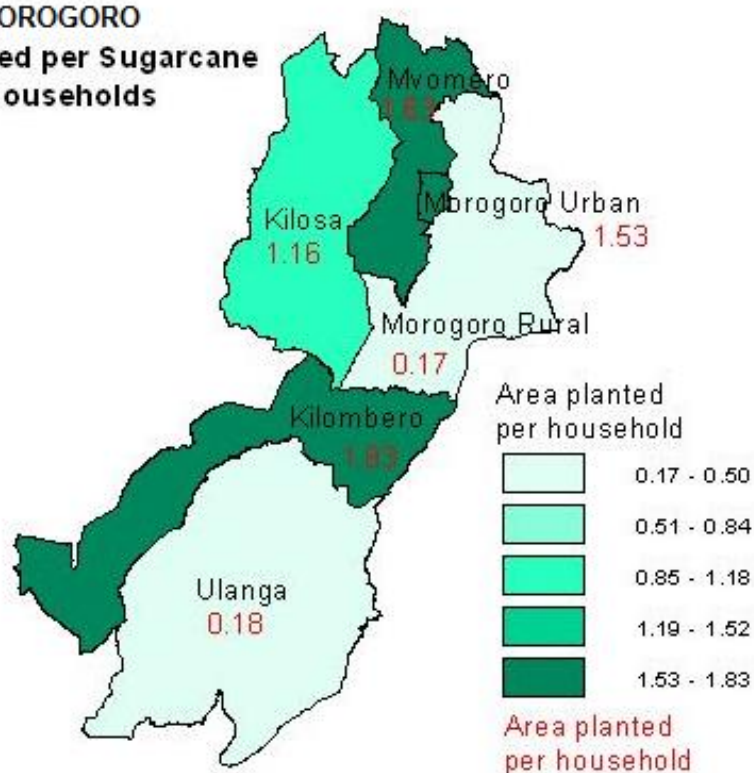


Yields were exceptionally high in Mvomero (31.2.1 t/ha) followed by far Kilombero with (10.9 t/ha) then Ulanga (6.2 t/ha), Kilosa (5.4 t/ha), Morogoro Rural (2.5 t/ha) and Morogoro Urban (1.8 t/ha), (Map 3.23). The area planted per growing household was generally low in the range of 0.11-0.2 ha per growing household in all districts except Morogoro Rural where households planted an average 0.57 ha (Chart 3.43, Map 3.24).

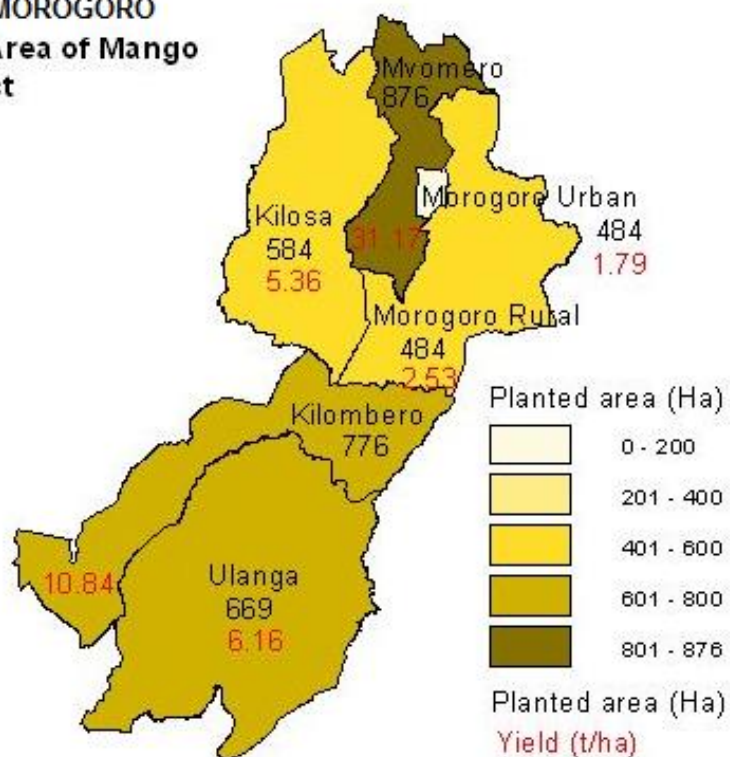
Map 3.21 MOROGORO
Planted Area of Sugarcane
by District



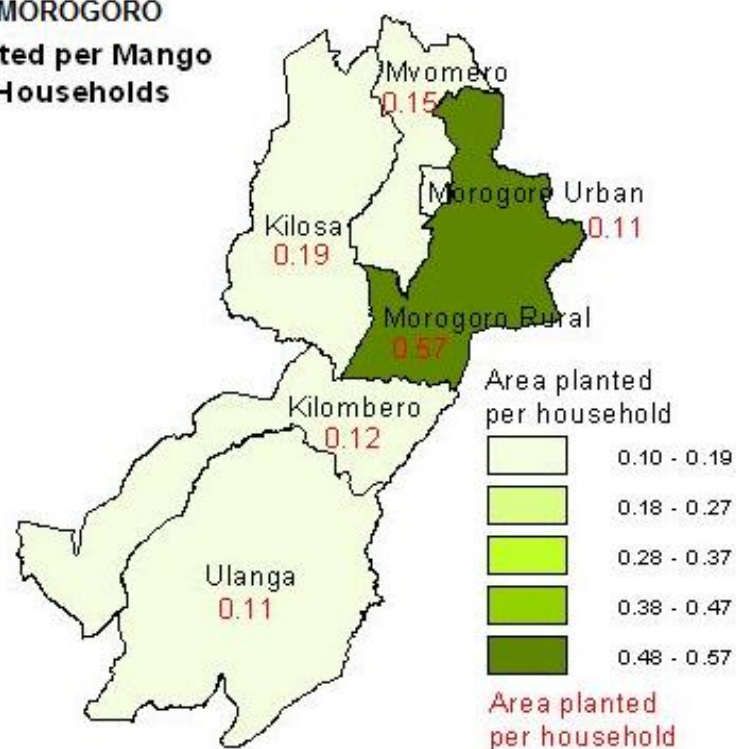
Map 3.22 MOROGORO
Area Planted per Sugarcane
Growing Households



Map 3.23 MOROGORO
Planted Area of Mango
by District



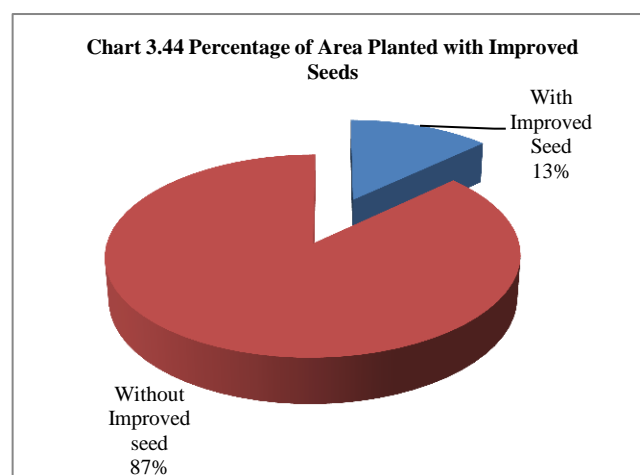
Map 3.24 MOROGORO
Area Planted per Mango
Growing Households



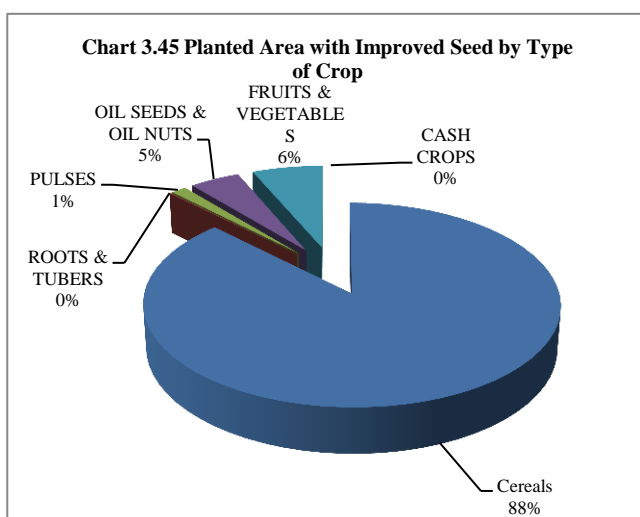
3.6 Use of Inputs and Implements

Use of Improved seed

Improved seed was used for planting during both the short and long rainy seasons. However, the use of such seeds was limited to relatively small areas (Chart 3.44). The combined area planted with improved seed for the short and long rains was 60,151 ha (12.6% of total planted area) while the rest of the area (87.4%) equivalent to 514,415 ha was planted without using improved seed.

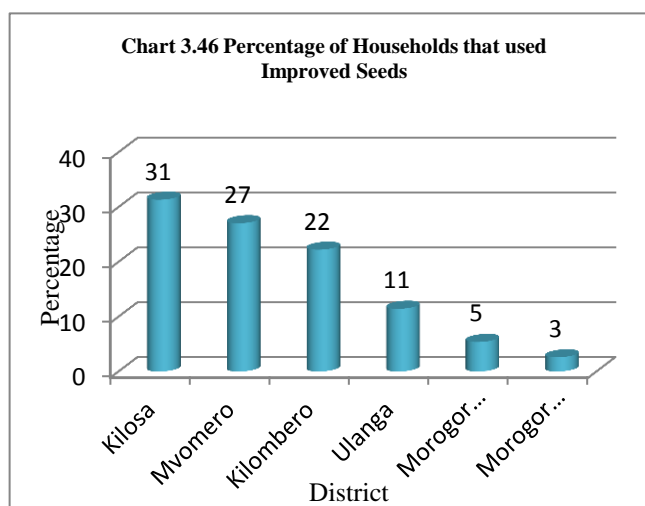


The variation in the use or non-use of improved seed between seasons was small but a slightly higher proportion of the area more land was planted with improved seed during the long rainy season (33,190 ha, 13.9%) compared to the short rainy season (26,962 ha, 11.4%). The situation with regard to use of improved seed has not changed much compared to 2002/03 when an estimated 55,330 ha (14% of the total planted with annual crops and vegetables) were planted using improved seed (14.1% of the planted area during the long rainy season and 13.6% of the planted area during the short rain season).



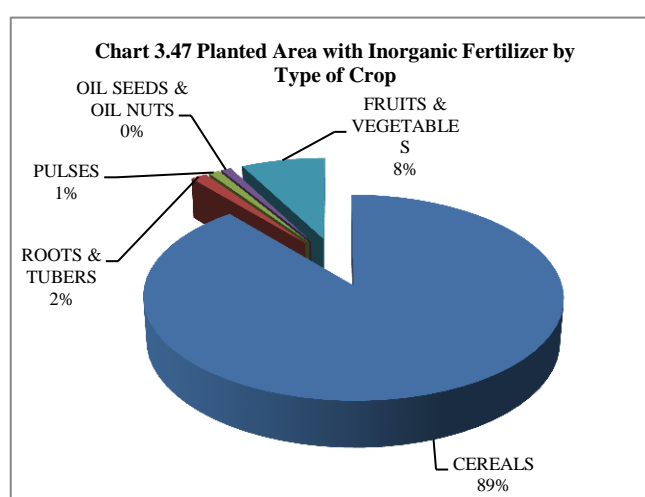
Amongst the different crop types (Chart 3.45), cereals had the largest planted area (52,479 ha) using improved seed (87%) while very small areas of the other crop types were planted using improved seed. These included oil seeds and oil nuts (3,421 ha, 6%), fruits and vegetables (3,214 ha, 5%) and pulses (943 ha, 2%). Improved seed was not used for planting roots and tubers and cash crops.

However, improved seed was used most extensively in Kilosa district (18,745 households, 31% of the total number of households that used improved seed in the region), followed by Mvomero (27%, 16,188 households), Kilombero (22%, 13,292 households), Ulanga (11%, 6,844), Morogoro Urban (5%, 3,221 households) and Morogoro Rural was the least (3%, 1,544 households), (Map 3.29).

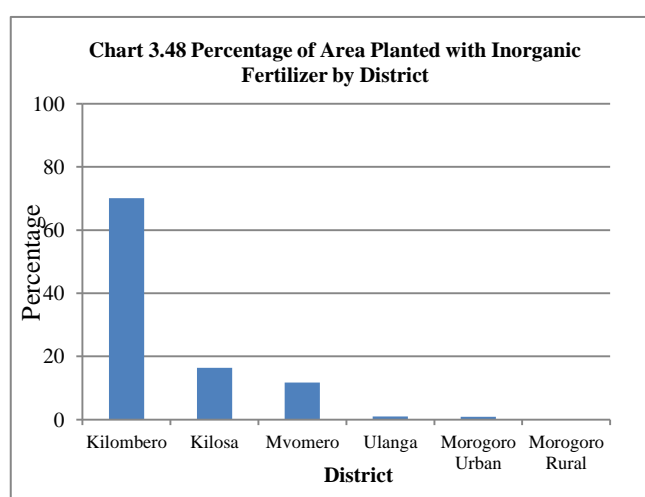


Use of Inorganic Fertilizer

Inorganic fertilizers were used mostly on cereals (33,689 ha, 89%) followed by fruits and vegetables (2,894 ha, 8%), roots and tubers (561 ha, 2%) and pulses (378 ha, 1% of the planted area applied with inorganic fertilizers) (Chart 3.47). Inorganic fertilizers were applied onto a very negligible areas planted with oil seed and oil nuts, roots and tubers and not at all on areas planted with cash crops.



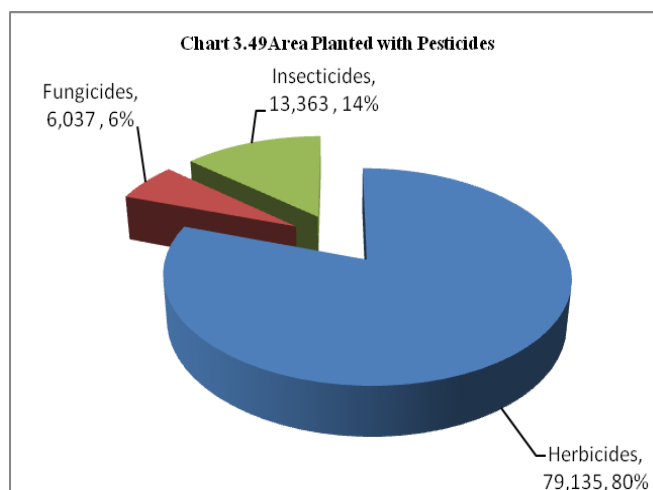
In the districts, the largest planted area applied with inorganic fertilizers (Chart 3.48) was in Kilombero where such fertilizers were applied on 26,420 ha (70% of the planted area applied with inorganic fertilizers in the region) followed by Kilosa (6,188 ha, 16%), Mvomero (4,411 ha, 12%), Ulanga (369 ha, 1%) and Morogoro Urban (311 ha, 1%). Overall, the application of inorganic fertilizers was not a common practice as the bigger proportions of the planted areas, were planted without fertilizer.

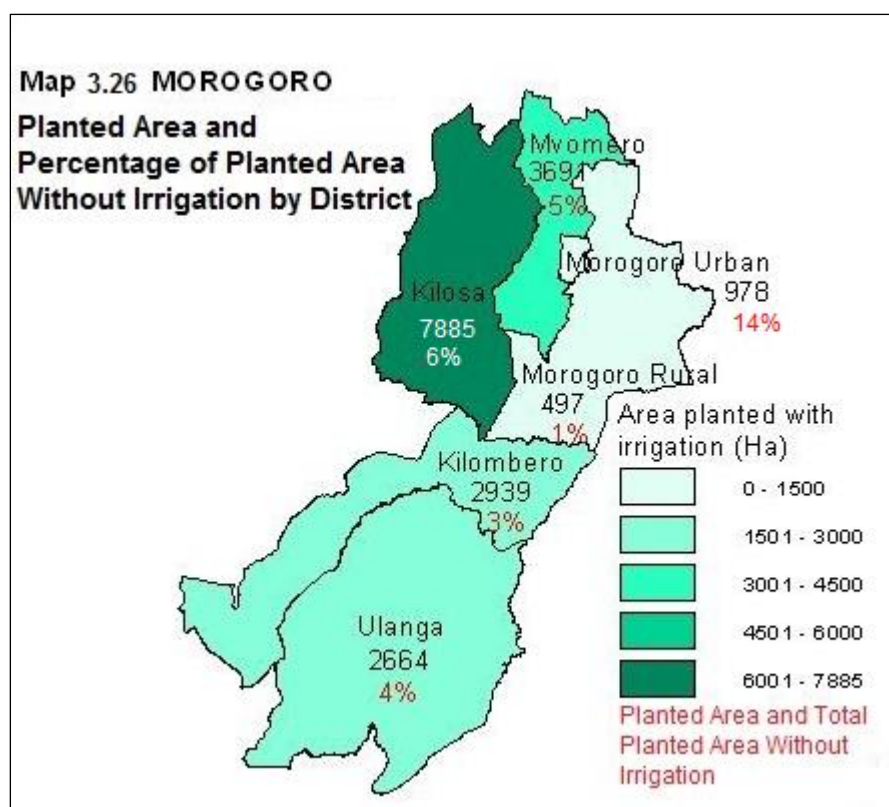


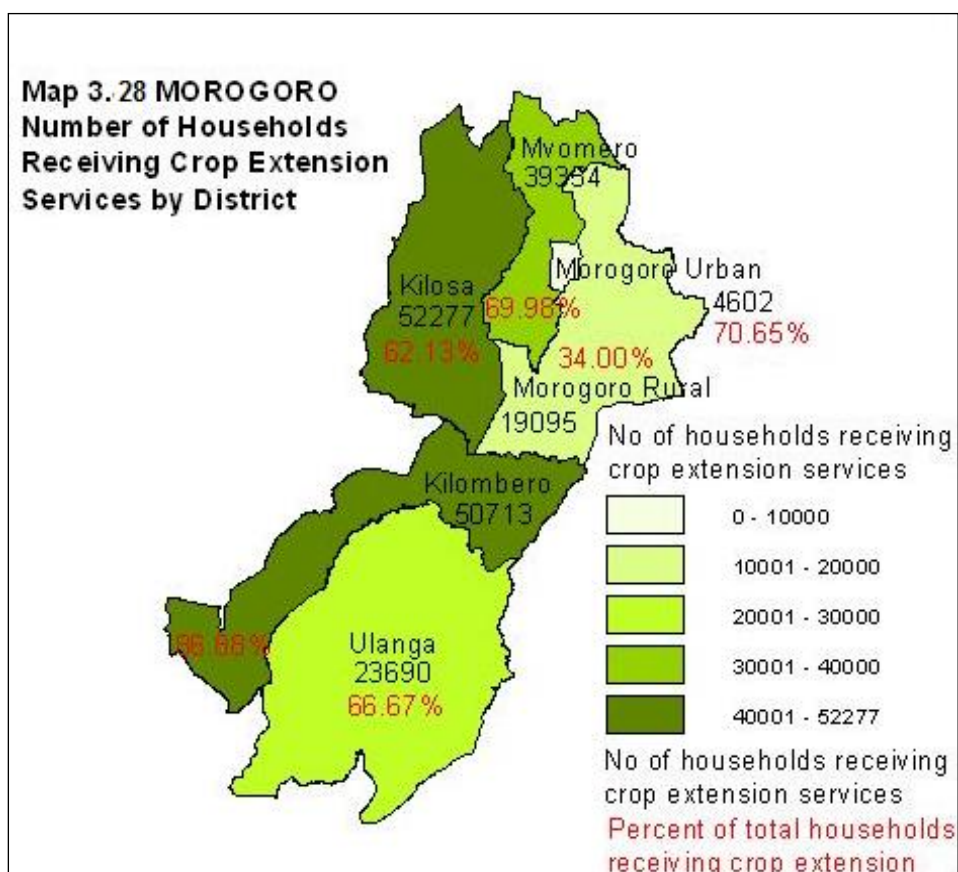
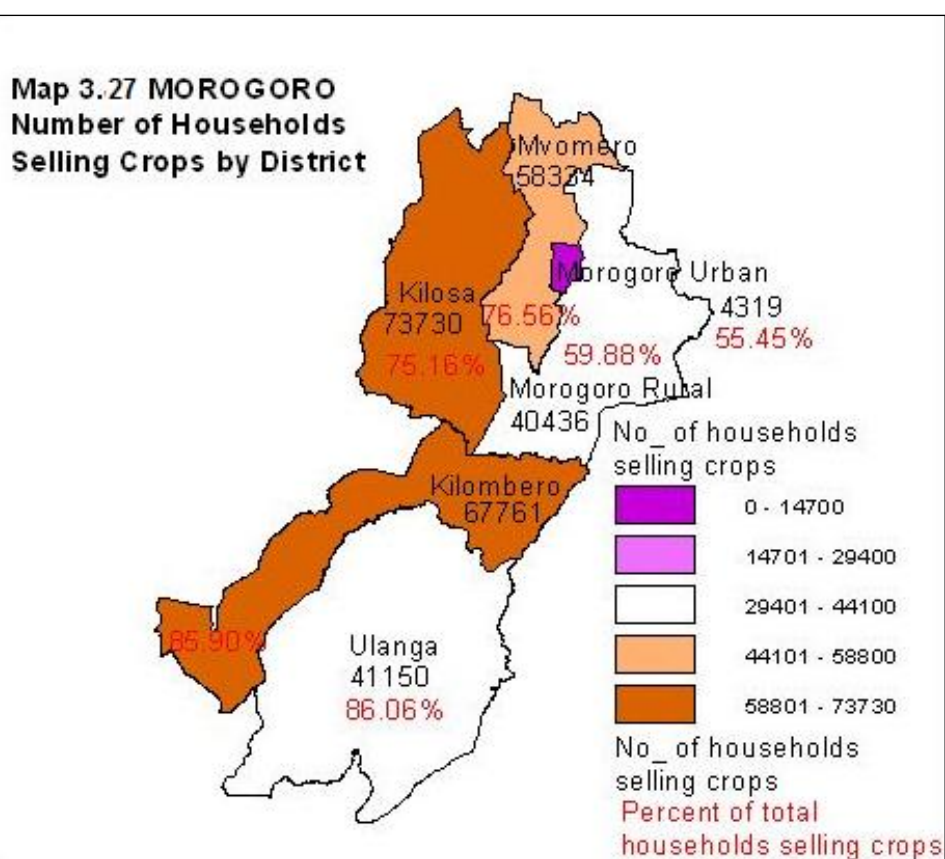
Use of Pesticides

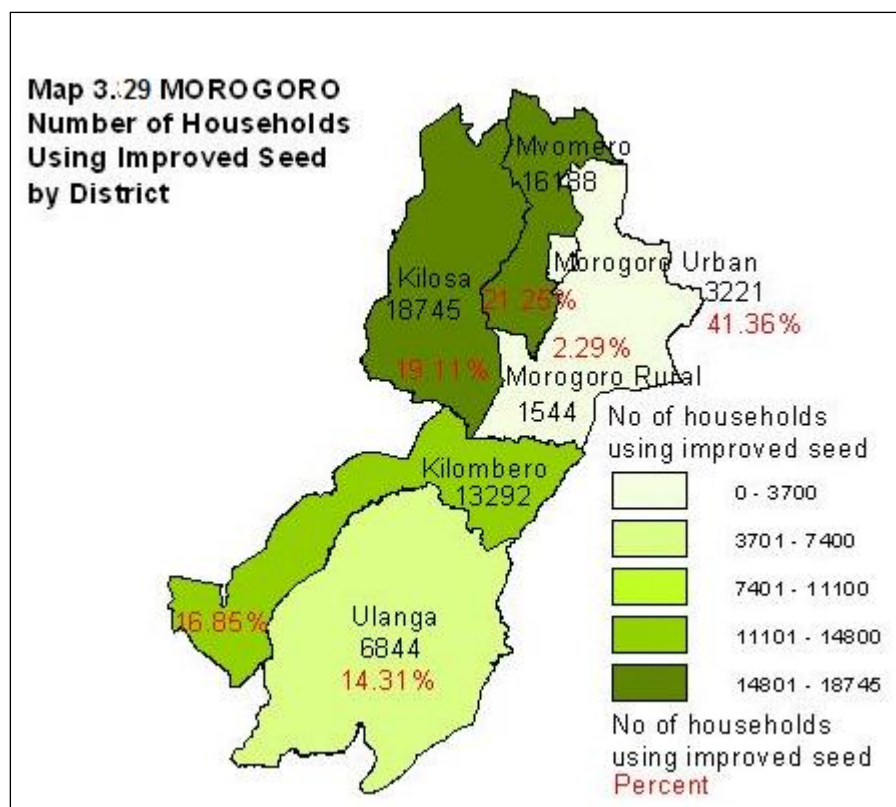
Pesticides comprise a diverse group of chemical substances used for the control of pests (insects, diseases, weeds, rodents, nematodes, birds and others).

Pesticides were applied on a total 98,534 ha. Herbicides were the most dominant pesticide used (Chart 3.50) on (79,135 ha, 80% of the planted area with pesticides). Insecticides and fungicides were much less used at 14% (13,363 ha) and 6% (6,037 ha), respectively.



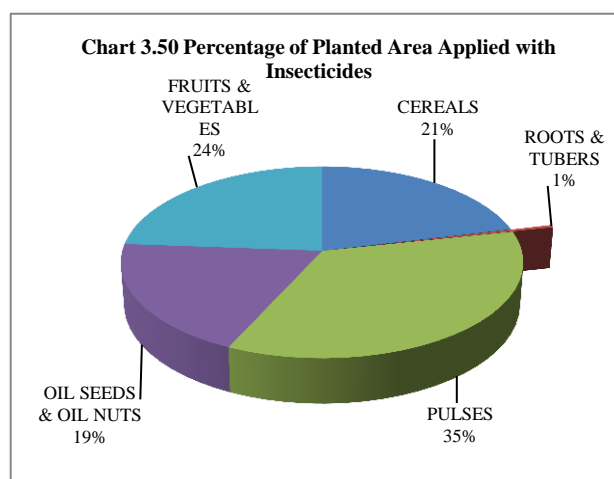






Insecticides

Insecticides are chemical substances used for the control of insect pests (Chart 3.50). The largest proportion of insecticides were applied on the areas planted with pulses (4,641 ha, 34.7% of the total area applied with insecticides), followed by fruits and vegetables (3,142 ha, 23.5%), cereals (2,871 ha, 21.5%) and oil seeds and oil nuts (2,547 ha, 19.1%). Roots and tubers received very limited applications of insecticides and in the areas planted with cash crops, application of insecticides was negligible (Chart 3.50).

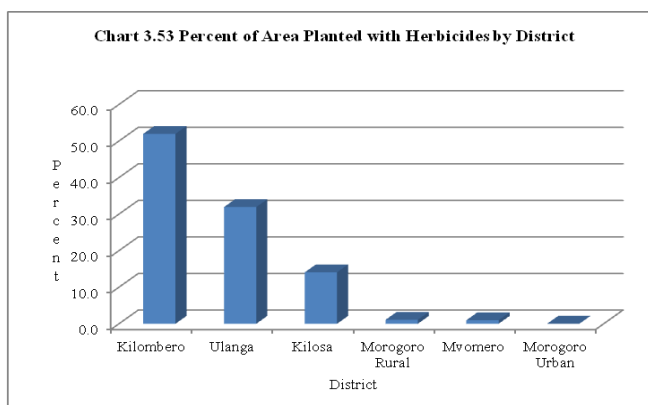
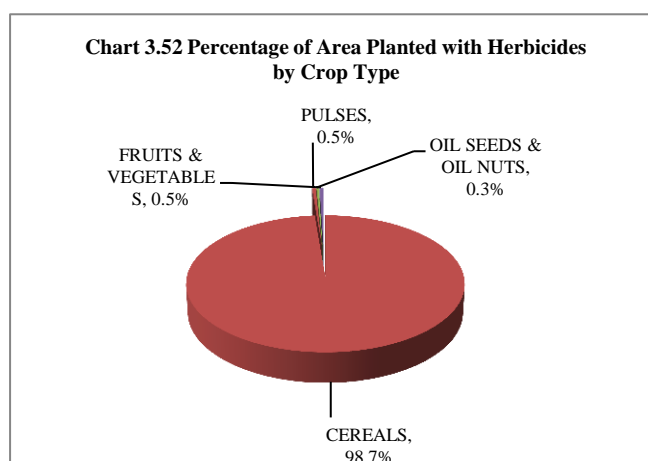


Planted area applied with insecticides was largest in Kilosa District (4,091 ha, 30.6% of the planted area applied with insecticides) followed by Ulanga District (3,919 ha, 29.3%), Mvomero (3,483 ha, 26.1%), Kilombero (1,492 ha, 11.2%), Morogoro Urban (337 ha, 2.5%) and Morogoro Rural (43 ha, 0.3%).

Herbicides

Herbicides are chemical substances used for the control of weeds. The planted area applied with herbicides was estimated at 79,135 ha equivalent to 16.6% of the total 475,566 ha planted with annual crops. Herbicides were used almost entirely on cereals (78,109 ha, 98.7% of the planted area applied with herbicides) with the remaining 1.3% divided between pulses, fruits and vegetables, seed oil and nuts and roots and tubers. Herbicides were not applied on areas planted with cash crops.

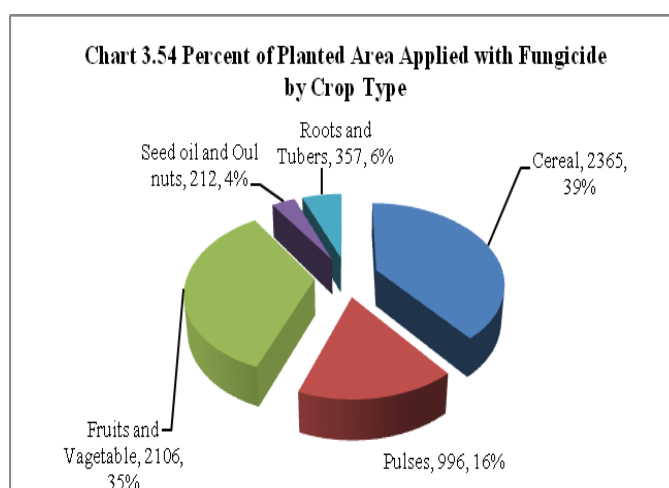
Most of the herbicides (84%) were applied on planted areas in Kilombero and Ulanga with Kilombero accounting for 52% of the total



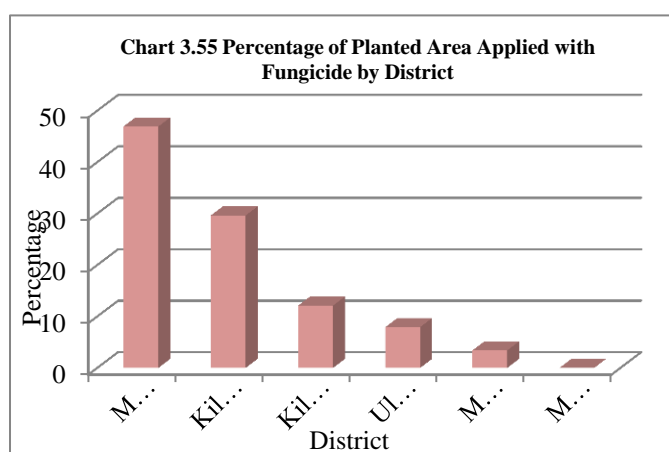
planted area applied with herbicides (41,118 ha) and Ulanga the remaining 32% (25,263 ha). In other districts (Chart 3.53), herbicides were applied on 11,135 ha (14%) in Kilosa, 853 ha (1.1%) in Morogoro Rural and 763ha (1%) in Mvomero. Herbicides were hardly used in Morogoro Urban District.

Fungicides

Fungicides are chemical substances used for the control of plant disease pathogens. About 6,037 ha were applied with fungicides in the region in varied proportions for different crop types (Chart 354). Fungicide application on areas planted with cereals was highest at 39% of the planted area (2,365 ha), followed by fruits and vegetables (2,106 ha, 35%), pulses (996 ha, 17%), roots and tubers (357 ha, 6%) and oil seeds and oil nuts (212 ha, 4%). Fungicides were not applied on planted areas with cash crops.



Fungicides were applied in all districts (Chart 3.55) except Morogoro Rural. The largest planted area applied with fungicides was in Mvomero (2,833ha, 47%) followed by Kilosa (1,789 ha, 30%), Kilombero (12%, 732 ha), Ulanga (8%, 479 ha) and Morogoro Urban (3%, 205 ha).

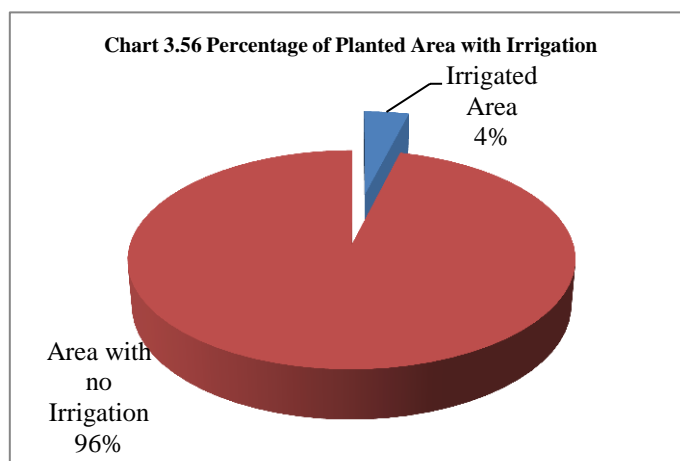


3.7 Irrigation

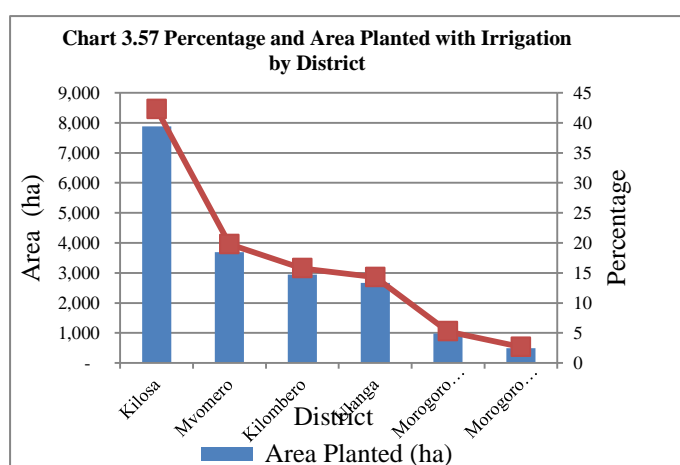
Water is a key input in crop production. Irrigation is the practice of applying water to enhance crop growth. This section analyses the status of irrigated agriculture in the Morogoro, a region endowed with a substantial amount of water sources.

3.7.1 Area Planted With Irrigation

The area planted under irrigation (Chart 3.56) was 18,655 ha equivalent to 4% of the area planted with annual crops in the region, with the remaining 96% (456,911 ha) planted without. The amount of land under irrigation recorded in this census shows a reduction in the level of irrigation compared to 2002/03 when 64,685 ha, equivalent to 16% of the area planted with annual crops and vegetables, were irrigated.

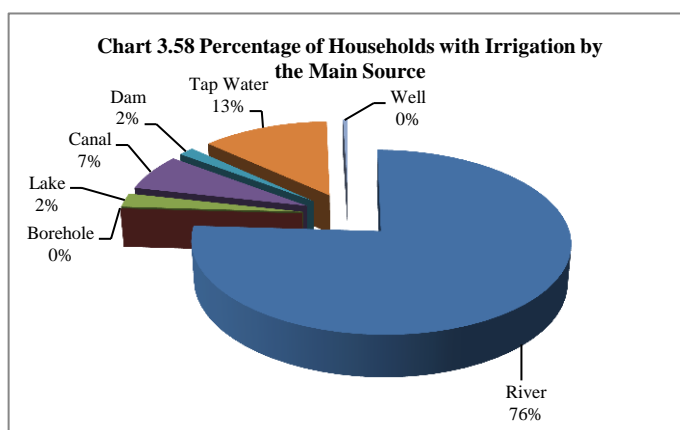


The largest area under irrigation was in Kilosa where 7,885 ha (42.3% of the total 18,655 ha under irrigation in the region) followed by Mvomero (3,691 ha, 19.8%), Kilombero (2,939 ha, 15.8%), Ulanga (2,664 ha, 14.3%), Morogoro Urban (978 ha, 5.2%) and Morogoro Rural (497 ha, 2.7%), (Map 3.26)



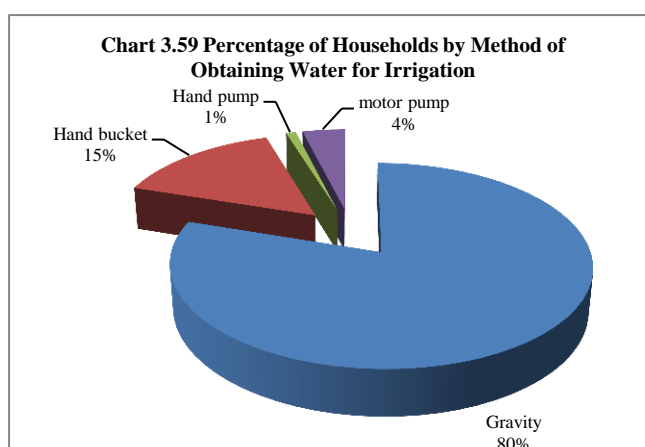
3.7.2 Sources of Water for Irrigation

The main source of water for irrigation (Chart 3.58) was the river, reported by 13,640 households (76% of households applying irrigation) followed by tap water (2,286 hh, 13%), canal (1,209 hh, 7%), lake (453 hh, 3%), dam (284 hh, 2%) and well (88 hh, 0.5%).



3.7.3 Method of Obtaining Irrigation Water

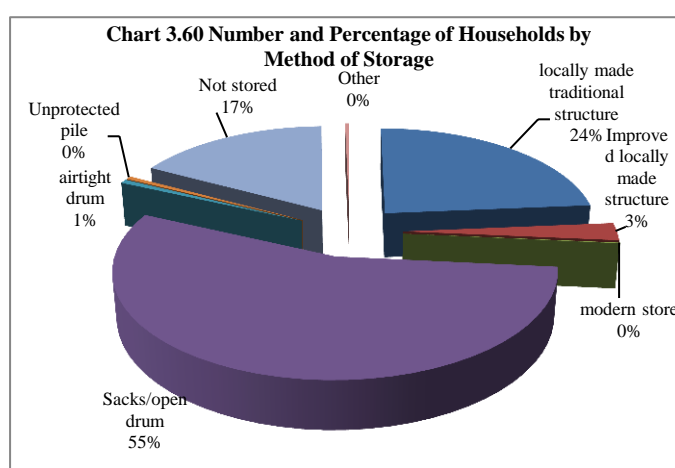
The majority of households applying irrigation obtained the water by gravity (14,379 households, 80%). The remaining households (Chart 3.59) obtained water using hand buckets (2,719 households, 15%), motorized pump (699 households, 4%) and using hand pump (162 households, 1%)



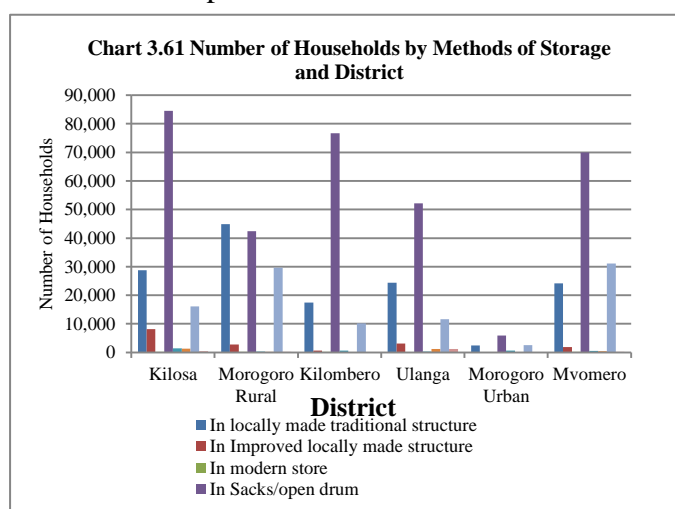
3.8 Crop Storage, processing and Marketing

3.8.1 Methods of Storage

The storage structures used by the majority of households (Chart 3.60) were sacks and open drums reported by 331,697 households (55% of the total households) followed by locally made traditional structures (142,130 households, 23.7%) and improved local structures (16,482, 2.7%). Relatively fewer households used airtight drums (3,722 hh, 0.6%) unprotected pile (3,161 hh, 0.5%), modern stores (685 hh, 0.1%) and other types of storage (2,031 hh, 0.3%). However, about 100,974 households (16.8%) did not store crops.

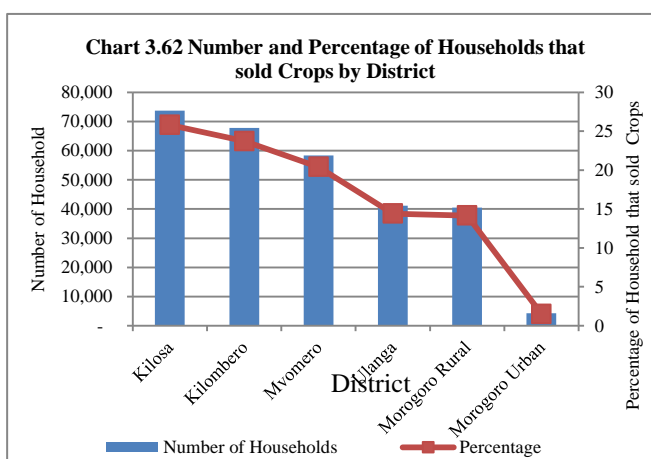


In each district, the largest number of households used sacks and open drums for storage followed by locally made traditional structures, improved locally made storage structures and airtight drums (Chart 3.61). Generally, the use of modern stores and unprotected piles was negligible.



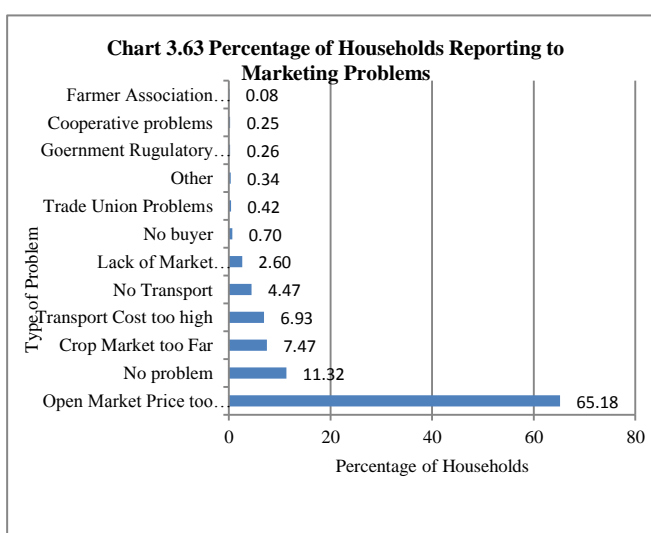
3.8.2 Crop Sales

Sale of crops (Chart 3.62) was done in all districts but the most active districts were Ulanga (86.1% of the households in the district sold crops) followed by Kilombero (85.9%). In other districts, 76.6 and 75.2% of households participated in the sale of crops in Mvomero and Kilosa districts respectively, while selling was at relatively lower levels in Morogoro Rural (59.9%) and Morogoro Urban (55.5%), (Map 3.27).



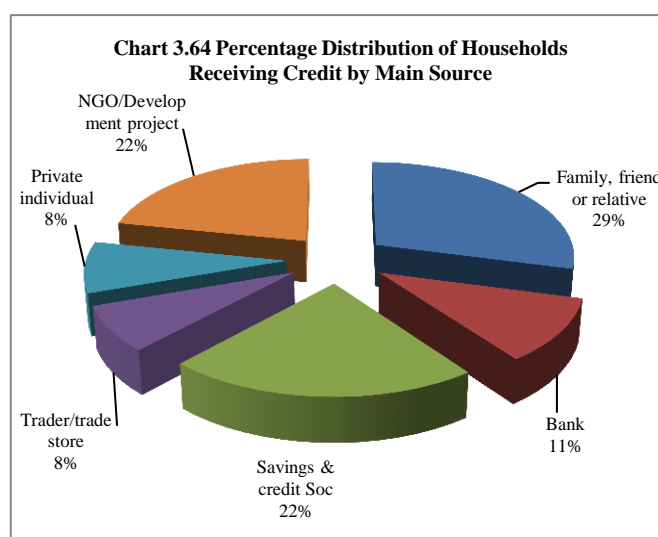
3.8.3 Marketing Problems

Households that did not participate in the sale of crops reported a number of challenges that hindered them from participating. A wide range of reasons were reported (Chart 3.63) but the main challenge which was cited by the majority of households was the low price in the open market (265,123 households, 65.2%). Other challenges included the crop market being too far (30,373 households, 7.5%), high transport costs (28,167, 6.9%), lack of transport (18,200, 4.5%), lack of market information (10,568, 2.6%) and lack of buyers (2,840). A host of other challenges were reported by less than 0.5% of the households each including problems associated with farmer associations, cooperatives, trade unions and government regulations. However, it was not clear why a substantial number of households (46,034, 11.3%) did not participate in crop sales and yet cited no problem that hindered them from participating in crop sales (Chart 3.63).



3.8.4 Credit Sources

A limited number of households (4,105 out of the total 298,421 agricultural households) had access to credit from varying sources (Chart 3.64). The majority (1,195 households, 29%) received credit from members of the family, friends or relatives followed by households that borrowed from savings and credit societies (907, 22%), NGOs/Development projects (894, 21.8%), bank (441, 10.8%), individuals (353, 8.6%) and traders (315, 7.7%)



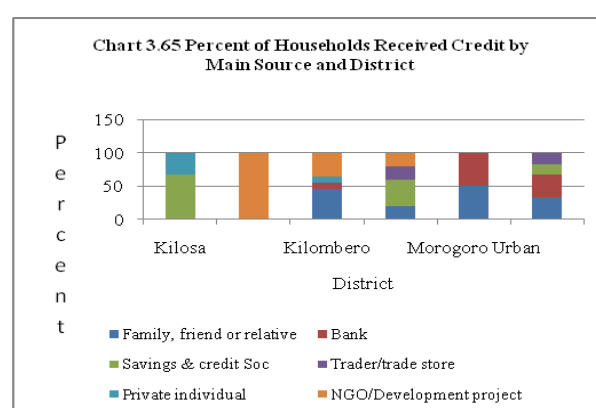
In all districts, both male and female heads of households received credit except in Mvomero and Morogoro Rural districts where only male heads of households received the credit (Table 3.10). Most of the credits were received by male heads of household (3,270, 79.7%) as compared to 835 female heads of households (20.3%).

Table 3.12: Number of Agricultural Households that Received Credit by Sex of Household Head and District

District	Male		Female		Total	
	Number	%	Number	%	Number	%
Kilosa	417	66.7	208	33.3	625	100
Morogoro	140	100.0	0	0	140	100
Kilombero	1,156	72.7	433	27.3	1,589	100
Ulanga	702	80.0	175	20.0	877	100
Morogoro Urban	18	50.0	18	50.0	35	100
Mvomero	837	100.0	0	0	837	100
Total	3,270	79.7	835	20.3	4,105	100

3.8.5 Main sources of Credits by Districts

The main source of credit varied between districts (Chart 3.65). The major source of credit in Kilosa was savings and credit societies (66.7%), followed by private and individuals 33.3%. In Morogoro Rural District, the major and only source of credit was the NGO/Development project (100%). In Kilombero family, friends and relatives were the

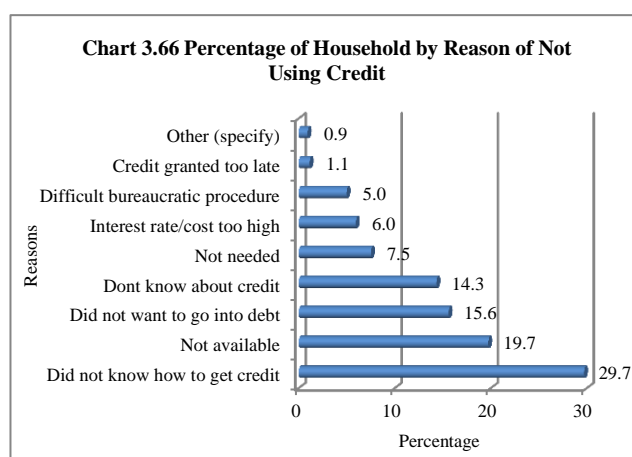


major source of credit (45.5%) followed by NGO/Development project (36.4%) then banks and private individuals (9.1% each). The sources of credit in Ulanga were savings and credit societies (40%) followed by family; friends and relatives, trade/ trade store and NGO/Development project (20% each) In Mvomero, banks and family, friends and relatives were the only two main sources each accounting for 33% of the credit accessed followed by savings and credit society and trade/trade store (17% each). On the other hand, Morogoro Urban accessed credit from only two main sources which were banks and family, friends and relatives (50% each).

Overall, the largest proportion of all households in the region that accessed credit, relied on family, friends and relatives (29.1%), followed by savings and credit societies (22.1%), NGO/Development projects (21.8%), banks (10.8%), private individual (8.6%) and traders 7.7%

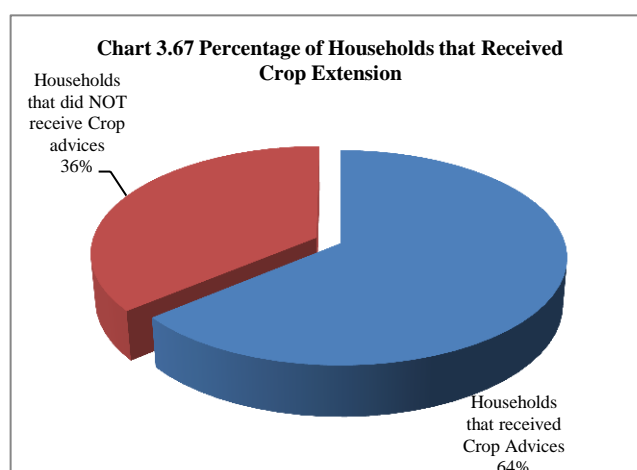
3.8.6 Reasons for Not Using Credit

The reasons for not using credits were varied (Chart 3.66). However, lack of knowledge on how to get credit was cited by the largest proportion of the household (29.7% or 87,467 households), followed by those who cited lack of availability of credits (58,124 households, 19.7%); not wanting to get into debt (45,969 households, 15.6%) and not knowing about credit (42,221 households, 14.3%). Other reasons (Chart 3.66) included not seeing the need for credit (7.5%), high interest rates (6%), bureaucratic procedure (5%), credit being granted too late and other reasons (about 1% each).



3.9 Access to Crop Extension Services

Extension services provide expert advise and technical backup to farmers and as front line staff able to address day-to-day issues pertaining to, in this case, agriculture in general including natural resources management. Within the region, the number of agricultural households that received extension



service was 189,731 or 64% of 296,963 crop growing households. This implies that the extension services provided adequate services as only 107,232 households (36%) that did not receive crop extension services. (Chart 3.67, Map 3.28)

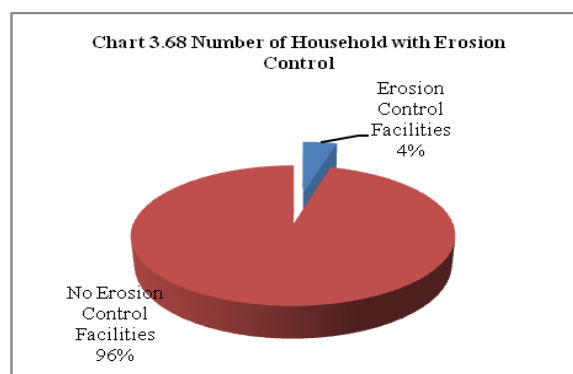
There is an increase of 122,363 households to the number of households receiving extension service in 2002/03. In 2002/03 the percent of agricultural households that received crop advice was 26% where as in 2007/08 the percentage increased to 64%.

In all districts except Morogoro Rural, more than 50% of crop producing households received crop extension services. The largest proportion of households that received crop extension services was in Kilombero district (86.9%) followed by Morogoro Urban (70.7%), Mvomero (70%), Ulanga (66.7%) and Kilosa (62.1%). Extension services reached the smallest proportion (34%) of crop producing households in Morogoro Rural.

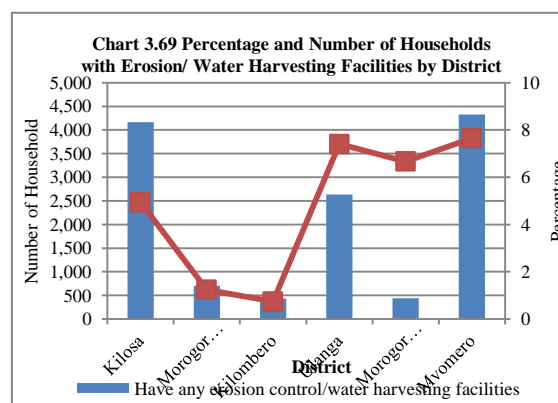
3.10 Soil Erosion Control and Rain Water Harvesting

3.10.1 Soil Erosion Control

Soil erosion, if left unchecked, can render land barren and unable to support crop growth. However, the census data indicated that in the whole region, a total of 12,702 households (4.3% of total agricultural households in the region) applied some measure of soil erosion control and rain water harvesting facilities (Chart 3.68). Such structures were recorded on an average 4% of the households ranging from 7.7% (4,326 households) in Mvomero to (0.7%) in Kilombero District. The other districts were in between with Ulanga recording 7.4%, Morogoro Urban (6.7%), Kilosa (4.9%) and Morogoro Rural (1.2%).

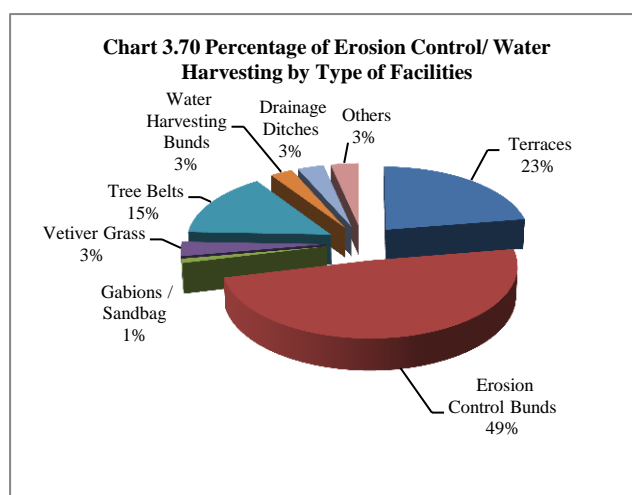


However, there were large variations between districts with the largest proportion of the households being in Mvomero and Ulanga districts (Chart 3.69), followed by Morogoro Urban, and Kilosa districts. The proportions were lowest in Morogoro Rural and Kilombero districts.



3.10.2 Erosion Control/Water Harvesting Structures

The most commonly used structures (Chart 3.70) for erosion control and water harvesting were erosion control bunds which numbered 120,844 (49% of total number of structures). Other commonly constructed erosion/water harvesting structures were terraces (55,583, 23%) and tree belts (37,022, 15%). Other structures accounting for the remaining 13.7% of the total number of structures included planting of vetiver grass, water harvesting bunds and drainage ditches (3% each) and gabions/sandbags (1%). A range of other undefined erosion control/water harvesting structures (3%) were also recorded.

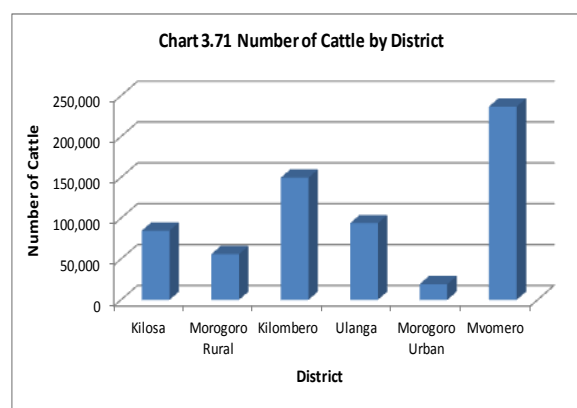


3.11 Livestock Results

Livestock comprises a group of animals that are domesticated for the purpose of providing milk, meat, hides and other products, including the provision of farm power. The livestock types found in the region comprised of the large stock such cattle, goats, sheep and pigs and the small stock such as chicken, ducks, rabbits and others.

3.11.1 Cattle Population

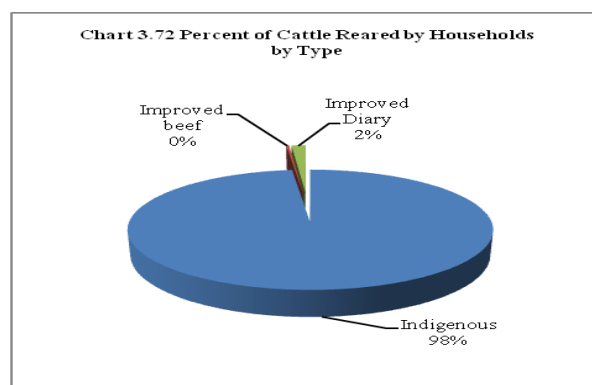
Cattle production was carried out in all districts (map 3.30) of the region and the total cattle population in the region was 639,764 heads. This population represented an increase of about 38.8% over the cattle population of 461,063 recorded during the 2002/03 Agriculture Census. However, the distribution of cattle in the districts varied with Mvomero and Kilombero combined accounting for 60.4% of the total cattle population in the region (Chart 3.71).



Mvomero was the leading district with the largest cattle population (236,685) which accounted for about 37% of the cattle population in the region while Kilombero had a cattle population of 149,537 heads, (23.4%). In the other districts, Ulanga had 93,795 heads (14.7% of the cattle

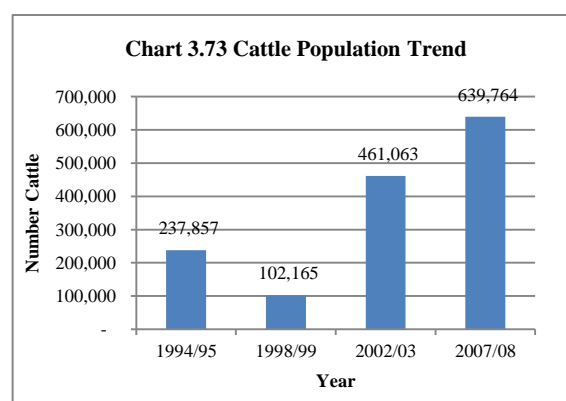
population in the region), Kilosa (84,768heads, 13.2%), Morogoro Rural (55,880 herds, 8.7%) and Morogoro Urban (19,099 heads, 3%)

The cattle population was of mixed types dominated by the indigenous type (628,475 heads, 98.2% of the cattle population) compared to improved dairy (9,414, 1.5%) and improved beef type (1874 heads, 0.3%), (Chart 3.72). Indigenous cattle were dominant in all districts.



The largest population of improved dairy cattle (4,425 heads, 47% of total dairy cattle) was in Morogoro Urban with the remainder in Kilombero (2,167 heads, 23%), Kilosa (1,458 heads, 15.5%), Mvomero (837 heads, 8.9%) and Ulanga (526 heads, 5.6%). Improved dairy cattle were not recorded in Morogoro Rural District. On the other hand, all the improved beef cattle (1,874 heads) were recorded in Kilosa District implying that improved beef cattle production was largely untapped.

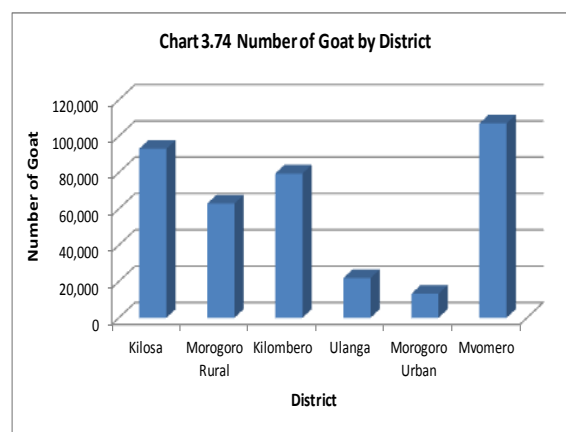
There was an increase between the two agricultural census years as summarised on Chart 3.73. Though there was a decline in cattle population from 1994/95 to 1998/99, the cattle population increased rapidly in 2002/03 and continued on an upward trend up to 2007/08 agriculture year.



The region had a total number of 17,808 of households that kept cattle. The district that had the largest number of cattle rearing households was Kilosa with 6,665 households (37%) followed by Kilombero (4,768 households, 27%), Mvomero (2,512 households, 14%), Ulanga (2,106 households, 12%), Morogoro rural (1,404 households, 8%) and Morogoro Urban (354 households, 2%) had the least number of households that reared cattle.

3.11.2 Goat Population

Goat rearing was recorded in all districts of the region. The total goat population in the region was 377,572 distributed in all districts in varying numbers (Chart 3.74 and Map 3.31). The largest population of goats was found in Mvomero District (107,038, 28.3%) and other districts with relatively large goat populations were Kilosa (93,099, 24.7%), Kilombero (79,464, 21%) and Morogoro Rural (62,900, 16.7%). Fewer goats were recorded in Ulanga (21,847, 5.8%) and Morogoro Urban (13,222, 3.5%).



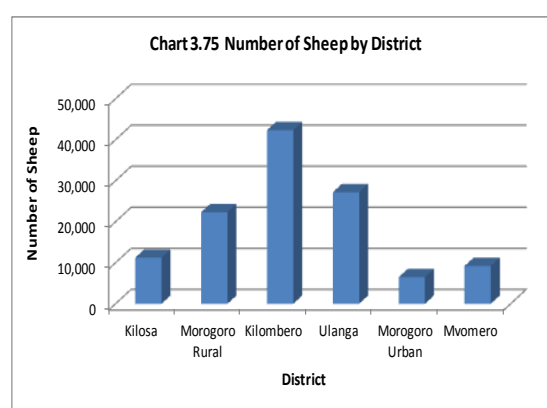
Goat density, reflecting the number per sq. km was highest in Morogoro Urban (791) and lowest in Ulanga (249). Other districts were in between led by Mvomero, Morogoro Rural (715), Kilosa (524) and Kilombero (502).

The results shows that number of goat rearing households in the region was 33,657 with Kilosa having the largest number (10,622 households, 32% of the total households reared goats in the region) followed by Mvomero with (9,350 households, 28%), Morogoro Rural (8,003 households, 24%), Kilombero (2,745 households, 8%), Ulanga (2,194 households, 7%) and Morogoro Urban (743 households, 2%).

3.11.3 Sheep Population

The total number of sheep in the region was 118,793 of which 42,333 (35.6%) were raised in Kilombero district (Chart 3.75 and Map 3.32). The sheep population in the other districts were 27,200 in Ulanga (22.9%), 22,324 in Morogoro Rural (18.8%), Kilosa (11,247, 9.5%) and 9,211 in Mvomero (7.8%). Fewer sheep were found in Morogoro Urban (6,478, 5.5%).

The sheep density varied between districts. The largest concentration of sheep was recorded in Morogoro Urban (387 sheep per sq. km) High densities were also recorded in Ulanga (310), Kilombero (267) and Morogoro Rural (254). The lowest sheep densities were in Kilosa (63) and Mvomero District (67).



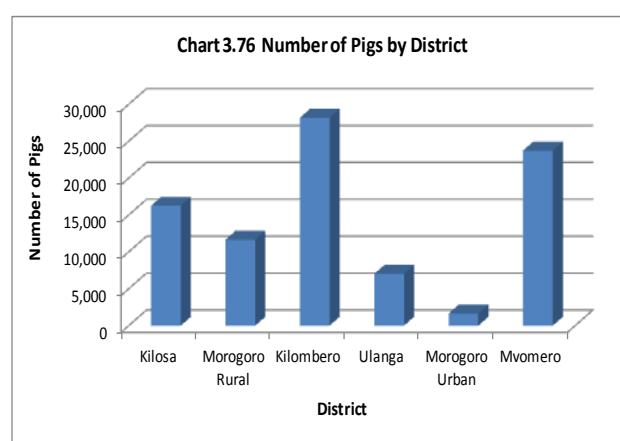
The total number of households rearing sheep were 8, 743 in the region. The number of households rearing sheep was almost the same for each district starting with Kilosa (1,874 households, 21.4%) Ulanga (1,843 households, 21.1%), Kilombero (1,734 households, 19.8%), Morogoro Rural (1,544 households, 17.7%) and Mvomero (1,535 households, 17.6%). Morogoro Urban (212 households, 2.4%) had very few households which reared sheep.

3.11.4 Pig Production

Pig production was the fourth most important livestock production activity among the large stock.

Pig Population

The total pig population in the region was 88,462. Kilombero, Mvomero and Kilosa districts combined had a total pig population of 68,143 equivalents to 77% of the entire pig population in the region (Chart 3.76,) of which Kilombero accounted for 31.8%, Mvomero (26.8%) and Kilosa (18.4%). Morogoro Rural led the other remaining districts with 11,653 pigs (13.2%), followed by Ulanga (7,019, 7.9%) and Morogoro Urban having the smallest number of pigs (1,646, 1.9%).



Mvomero had the largest number of households keeping pigs (11025 households, 33.5%), followed by Kilombero (7,946 households, 24%), Kilosa (6,873 households, 21%), Morogoro Rural (4,352, 13%), Ulanga (2,457, 7.5%) and Morogoro Urban had the lowest number of households (283 households, 0.9%).

The highest pig density was in Kilombero District (178 pigs per sq km) followed closely by Mvomero (173 pigs per sq km). Other districts were Morogoro Rural (132 pigs per sq km), Morogoro Urban (98 pigs per sq km), Kilosa (91 pigs per sq km), and Ulanga District had the lowest pig density (80 pigs per sq km).

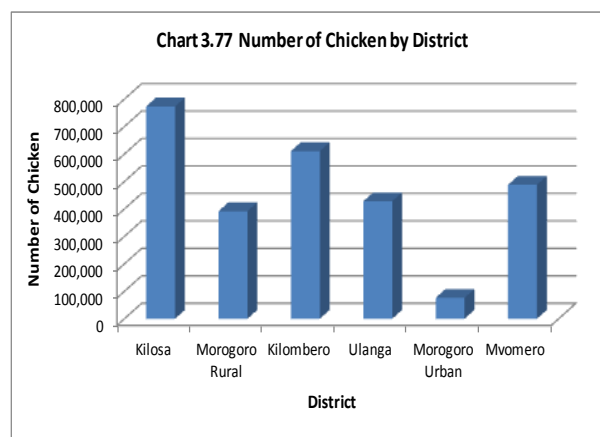
3.11.5 Chicken Production

Chicken production was the main sub-sector of the poultry sector in Morogoro region and an important contributor to livestock production in general. On the basis of absolute stock

populations, chicken production dominated the livestock production sector in the region but lags behind the cattle sub-sector on the basis of animal/live weight equivalent.

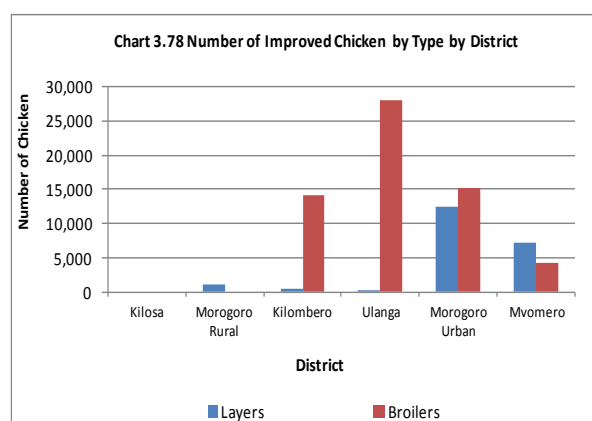
Chicken Population

The total population of chicken, comprising both local and improved types, in the region was 2,766,862 which accounted for 6% of the total chicken population in Tanzania. The largest chicken population was found in Kilosa (773,327) which was equivalent to 27.9% of the total chicken population in the region (Chart 3.77 and Map 3.33) and the least population was in Morogoro urban with 75,899 chickens (2.7% of total chicken population in the region). The other districts were Kilombero with 610,575 chickens (22.1%), Mvomero (487,744 chicken, 17.6%), Ulanga (427,735 chicken, 15.5%) and Morogoro Rural (391,582 chicken, 14.2%).



Improved Chicken Types

The improved chicken types comprised of broilers which are normally raised in-doors or under controlled conditions for the production of poultry meat, and layers, which are similarly raised in-doors for the production of eggs. Improved chicken, both broilers and layers, were not recorded in Kilosa District implying the chicken population in this district (Chart 3.88) was composed of local types. The total population of the improved chickens (Chart 3.78) was 82,988, of which the larger proportion, (61,610, 74.2%) were broilers and the remaining 25.8% (21,378) were layers. The largest number of broilers was found in Ulanga (27,989, 45.4%), followed by Morogoro Urban (15,275, 24.8%) and Kilombero (14,159, 23%). Mvomero had the least population of broilers (4,187, 6.8%). Broilers were not raised in Kilosa and Morogoro Rural districts. Layers were kept predominantly in Morogoro Urban District (12,390, 58%) followed by Mvomero (7,257, 33.9%), Morogoro Rural (1,123, 5.3%), Kilombero (433, 2.0%) and Ulanga (175, 0.8%). There were no layers in Kilosa District.



Chicken density (number of chicken per sq km) was generally comparable in all districts, in the range of 3,568 to 4,870 despite the disparity in total chicken population between districts. Hence, Morogoro Urban which had the smallest chicken population had the second highest concentration of chicken (4,539 chickens per sq km) after Ulanga which had a chicken density of 4,870. In the remaining districts, chicken densities were 4,350 in Kilosa; 4,150 in Morogoro Rural; 3,857 in Kilombero and 3,568 in Mvomero.

Compared to 154,850 households recorded in the 2002/03 Agriculture Census, there was an increase of 42,252 households thus a total of 197,102 chicken keeping households in 2007/08.

Other livestock (Table 3.12) included ducks, turkeys, rabbits, guinea pigs and donkeys which were kept in varying numbers in all districts in the region. Ducks were kept in all districts and accounted for 65% (80,587 ducks) of the other livestock population in the region. Donkeys were kept mostly in Mvomero and Kilosa districts.

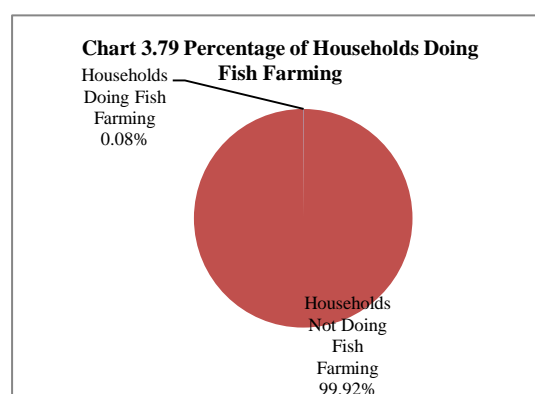
Table 3.13: Number of Other Livestock by Type of livestock and District

District	Type of Livestock					Total
	Ducks	Guinea pigs	Turkeys	Rabbits	Donkeys	
Kilosa	16,454	833	0	0	1,250	18,537
Morogoro Rural	12,496	0	983	2,808	0	16,287
Kilombero	15,459	1,734	20,372	0	0	37,565
Ulanga	17,724	263	0	702	0	18,689
Morogoro Urban	2,266	0	142	71	248	2,727
Mvomero	16,188	5,861	0	5,582	2,652	30,283
Total	80,587	8,691	21,496	9,163	4,149	124,088

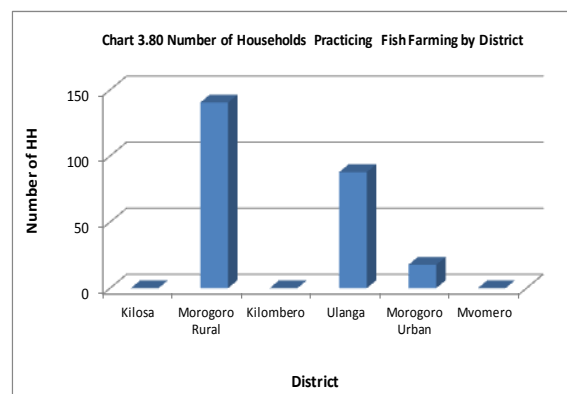
3.11.6 Fish Farming

Fish farming was practiced on a limited scale in the region compared to the keeping of livestock types. Out of the total 298,421 households in the region, only 246 households (0.08%) were practicing fish farming (Chart 3.79). Given the water resources available in the region, the low level of fish farming activities across the regions implies that fish farming remained largely unexploited.

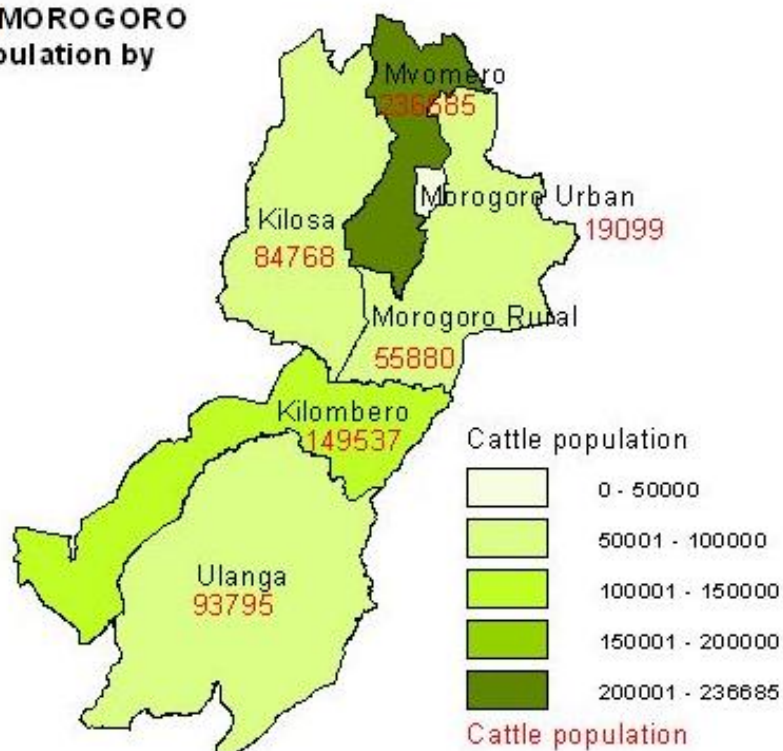
Households practicing fish farming were recorded in three districts (Chart 3.80) with the largest number in Morogoro Rural accounting for 56.9% (140 households out of total 246 households), followed by



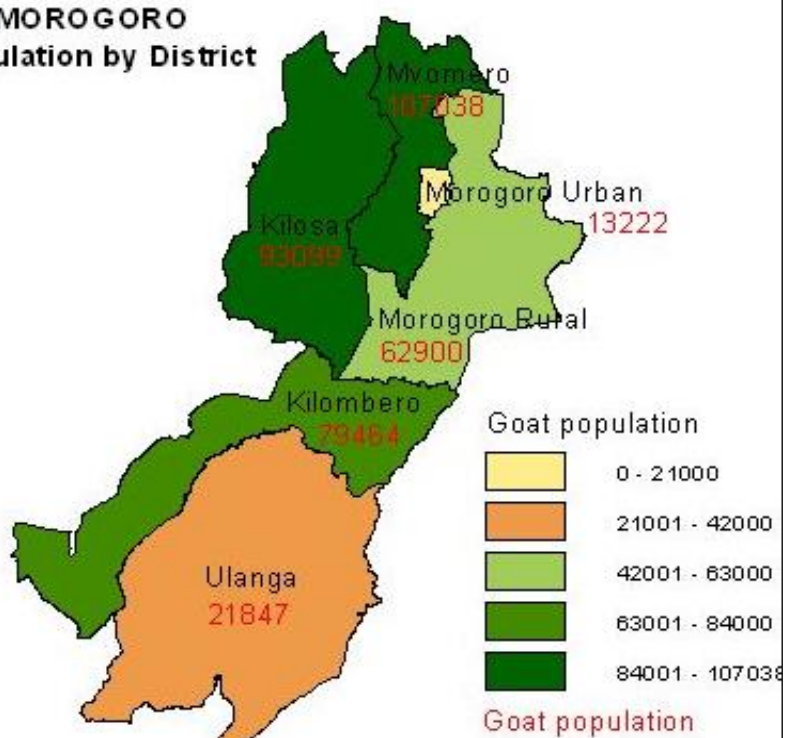
Ulanga (35.8 %, 88 households) and a small number of households in Morogoro Urban District (7.3%, 18 households). All the fish produced in the region were Tilapia type.



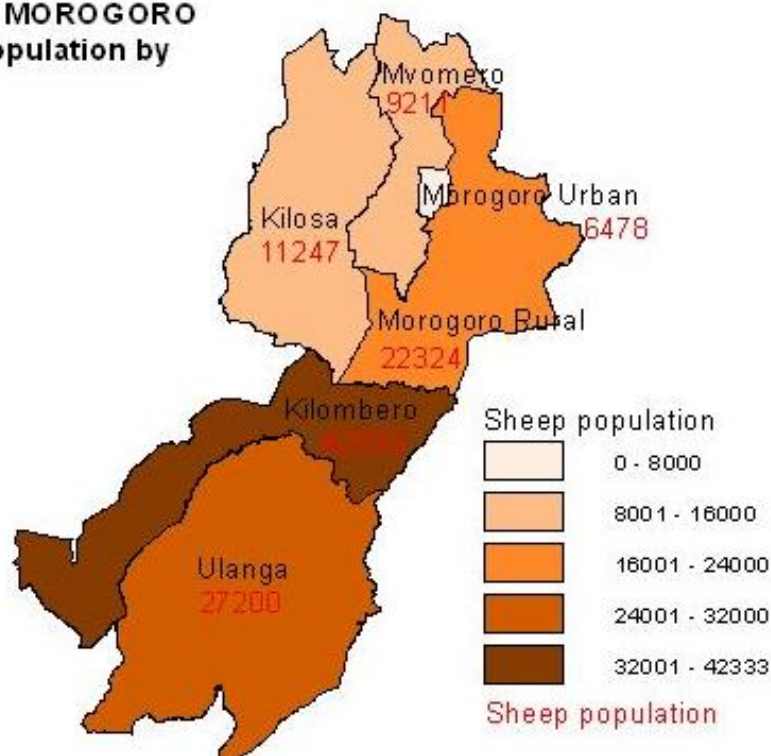
Map 3.30 MOROGORO
Cattle Population by District



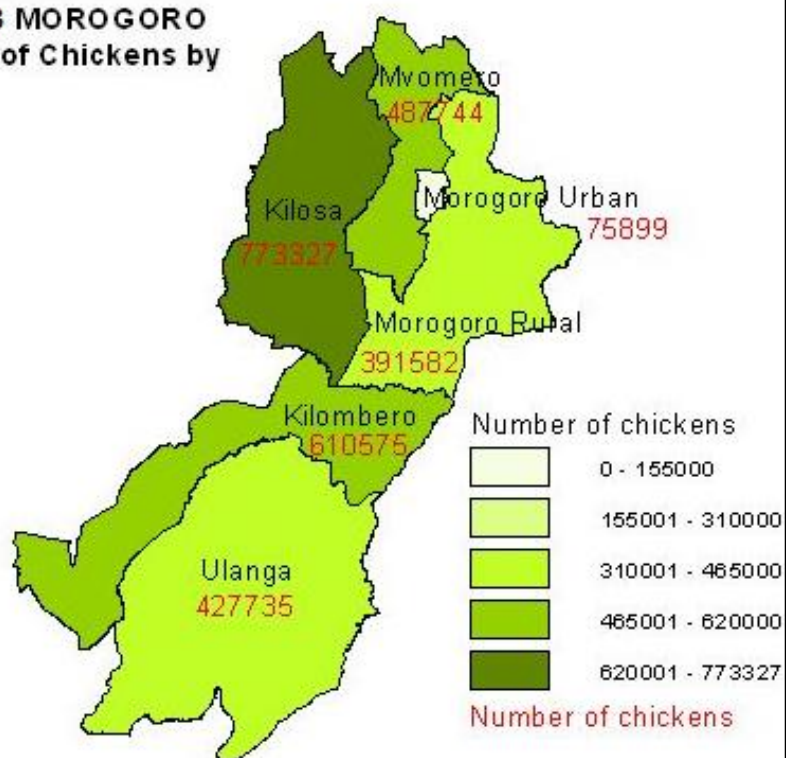
Map 3.31 MOROGORO
Goat Population by District



Map 3.32 MOROGORO
Sheep Population by
District



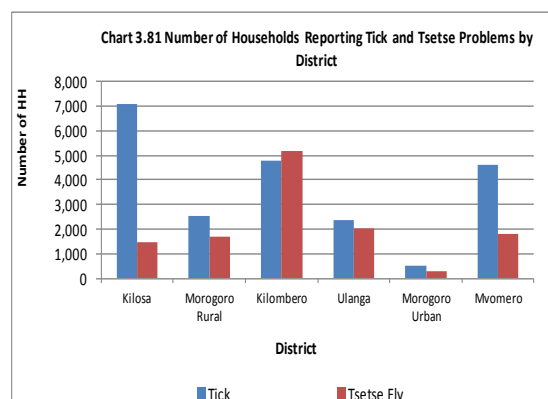
Map 3.33 MOROGORO
Number of Chickens by
District



3.11.7 Livestock Pests

Incidences of Ticks and Tsetse Flies

Ticks and tsetse flies are organisms that attack ruminants particularly cattle, goats and sheep; the ticks being carriers of protozoa that cause various tick-borne diseases and the tsetse being the cause of trypanasomosis. Both diseases adversely affect livestock productivity.

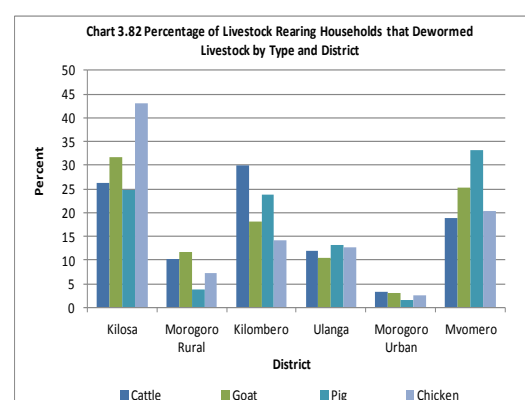


Comparatively, larger proportions of households keeping livestock reported having problems with ticks as opposed to tsetse flies in all districts except in Kilombero where households reporting incidences of tsetse fly related problems were slightly more than those reporting tick related problems (Chart 3.81). This data compares well with the situation that prevailed in 2002/03 when a predominance of tick related diseases was similarly reported over tsetse related diseases with average incidences of 28 and 21 percent for ticks and tsetse fly related problems, respectively.

During 2007/08, tick-borne diseases affected livestock in all districts the lowest percentage of households was 7.3% in Morogoro Rural and the highest was 13.7% in Morogoro Urban. Incidences of tsetse were highly variable between districts being as low as 2% in Kilosa to as high as 11% in Kilombero.

3.11.8 Livestock Deworming

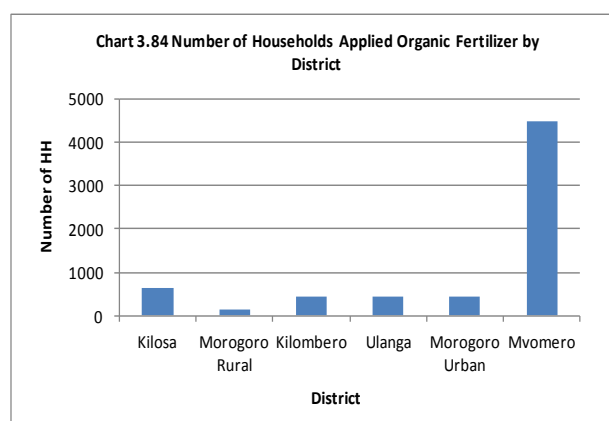
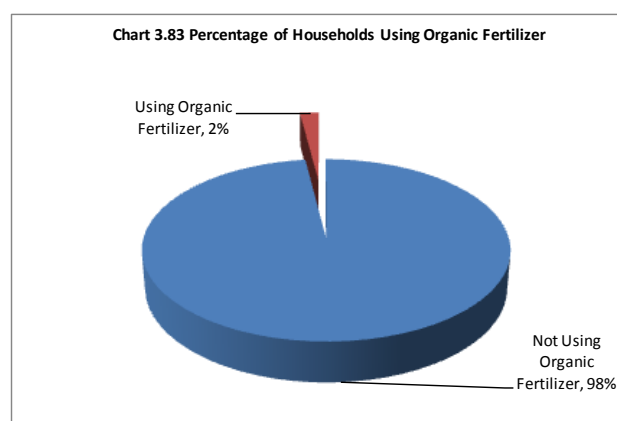
Households keeping livestock in all districts reported to deworm major livestock types at various levels within districts (Chart 3.82). Of the total 70,268 households that dewormed their livestock in the region, the largest proportion dewormed chickens (29,536 households, 42%). Other livestock were dewormed as: 20.5% for goats and sheep (14,412 households), 21.6% for pigs (15,195 households) and 15.8% for cattle (11,126 households). Within districts, (Chart 3.82), deworming was performed by the largest percent of cattle rearing households in Kilombero (35%); goat and sheep rearing households in Morogoro Urban (38%); pig rearing households in Kilombero (38%) and chicken keeping households in Kilosa district (58%).



3.11.9 Contribution of Animals to Crop Production

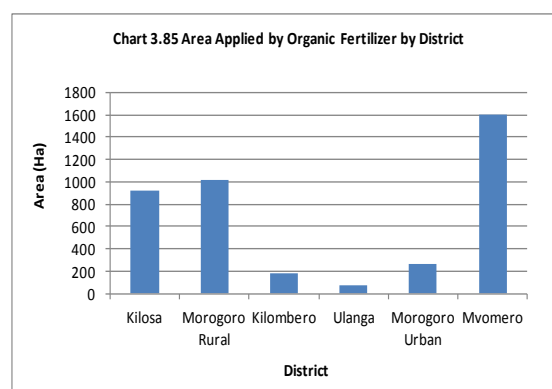
Use of Organic Fertilizer

Organic fertilizer represents a wide range of materials which are not synthesized by an industrial process, and usually is derived from living organisms or their by products, for use as soil fertility enhancers. A major part of the organic fertilizer is in the form of animal wastes such as from cattle, chicken, pigs and goats and sheep. In Morogoro Region, the number of households using organic fertilizers was estimated at 6,528 equivalents to about 2% of the total 298,421 agricultural households (Chart 3.83). The largest number of household's applying organic fertilizers was in Mvomero District (Chart 3.84) and this district was not comparable to any of the other districts where the use of organic fertilizers was limited to very few households.

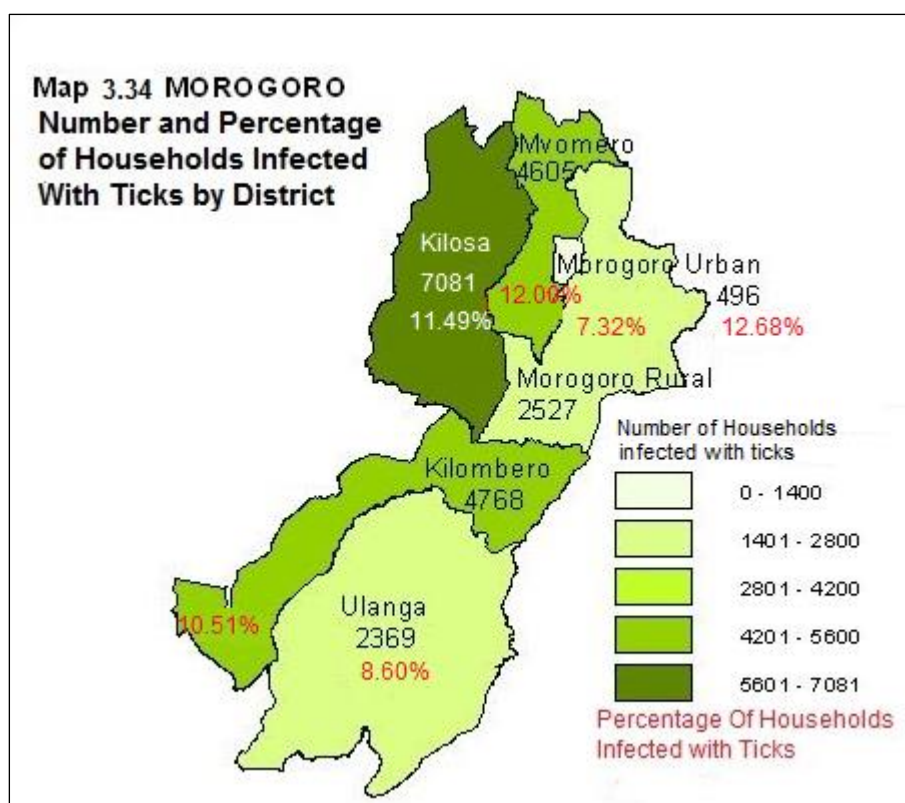


Area Applied With Organic Manure

Organic manure was applied in all districts on varying planted areas (Chart 3.85). The total area applied was 4,073 ha (0.86% of the total 475,566 ha planted with annual crops in the region) implying a very low use of organic manure for soil fertility improvement.



About 64.4% of the planted area applied with organic manure in 2007/08 was in two districts (Chart 3.85) Mvomero (1,599 ha, 39.3% of planted area applied with organic fertilizer in the region) and Morogoro Rural (1,023 ha, 25.1%). Organic manure was also applied in the other districts on 928 ha (22.8%) in Kilosa District; 265 ha (6.5%) in Morogoro Urban; 183 ha (4.5%) in Kilombero and 75 ha (1.8%) in Ulanga.

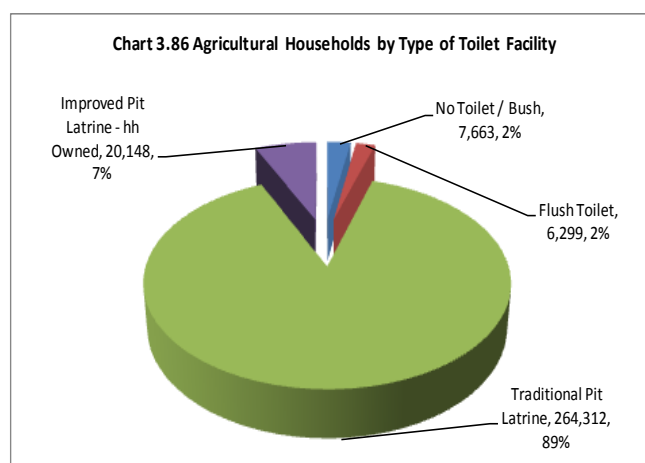


3.12 POVERTY INDICATORS

An indication of the level of poverty was derived from a number of proxies to help assist the process of tracking poverty levels, a process that is undertaken by government to track progress being made as per MKUKUTA. The analysis provided in this report relates to poverty indicators for agricultural households as captured in 2007/08.

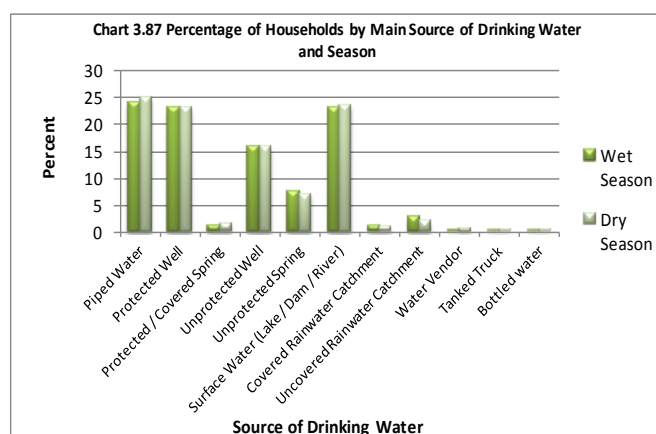
3.12.1 Toilet Facilities

The majority of agricultural households use the traditional pit latrine (264,312, 88.6% of all agricultural households) while only 6,299 households (2.1%) use flush toilets. However, 20,148 households (6.8 %) used improved pit latrines but another 7,663 households (2.6%) had no toilet facilities (Chart 3.86). The 2007/08 shows a slight but not significant improvement compared to 2002/03, when 47% of all rural agricultural households used traditional pit latrine and only 1.2% used flush toilets.



3.12.2 Access to Drinking Water

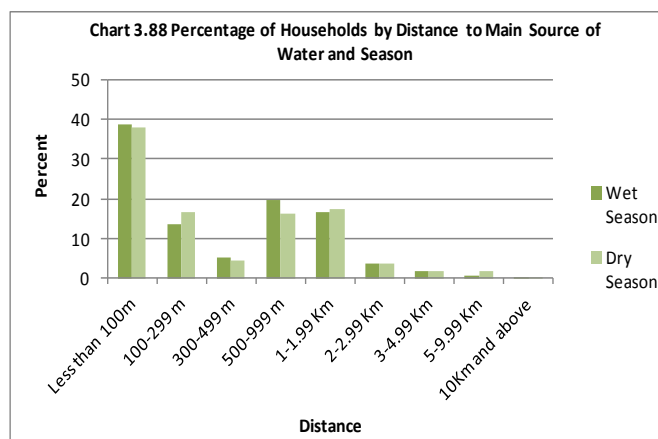
The results on the status of access to water seem to indicate that, in the dry season, the main sources of water for the majority (72 % of the total households) were piped water, protected wells and surface water (lake/dam/river). The situation compares favourably with the census results for 2002/03. During 2007/08 (Chart 3.87) the main source of drinking water for agricultural households in the region was piped water (25% of the total households) as compared to an average 24.5 in 2002/03, followed by surface water collected from a lake, dam or river (24% of the total households) as compared to 23% in 2002/03 and water drawn from protected well (23% of the total households) as compared to 22% in 2002/03. In this census (Chart 3.87), the use of unprotected well to access drinking water was reported by 16% of the households; unprotected springs (7%) and



uncovered rainwater catchment (2%). Protected springs, covered rainwater catchment and water vendors were used by one percent each while bottled water and tanker trucks were less used

The distance to the main source of drinking water varied with season though no clear pattern could be established (Chart 3.88).

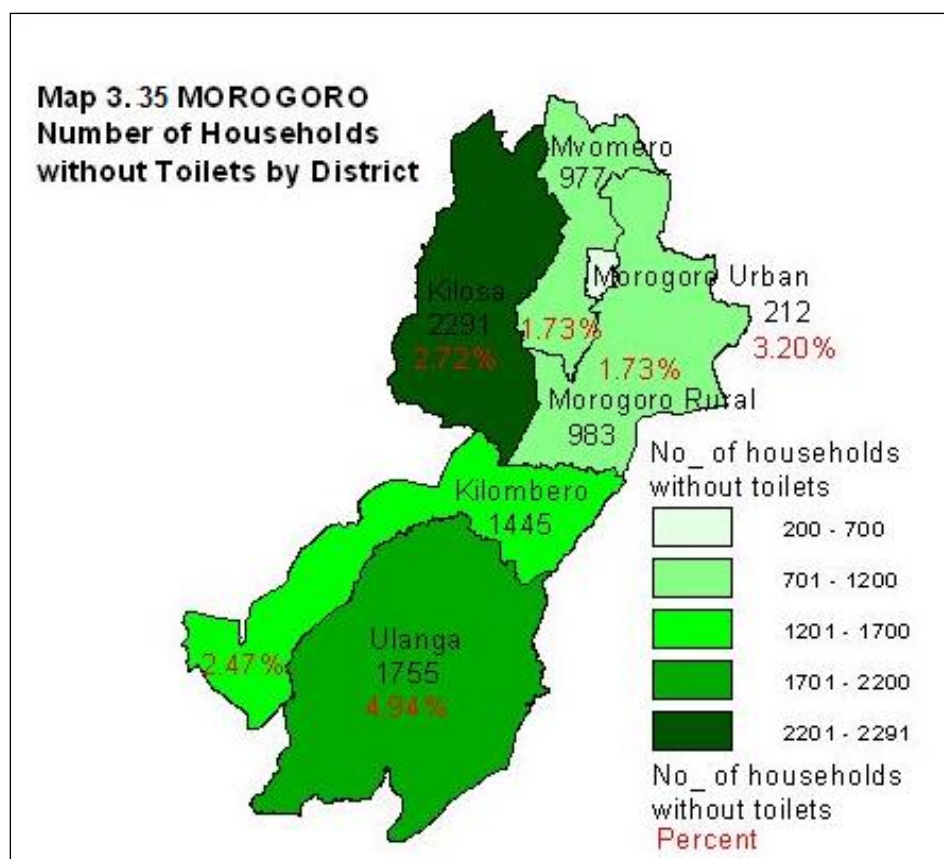
However, in both short and long rain seasons, the single highest proportion of the households (39% in the wet season and 36% in the dry season) accessed drinking water from less than 100m. Overall, about 94% of the households, in the wet season, and 93%, in



the dry season, accessed the main source of drinking water from a maximum of 2 km or nearer (Chart 3.88). The longest distance covered to access drinking water being 10km or above affected very few households. Affected were 0.1% of the households during the wet season and 0.2% during the dry season.

3.12.3 Roofing Material

Data on roofing materials for the main dwellings of agricultural households in the region indicated that a total of 11,013 main dwellings in the region were roofed using grass or mud. In the districts, the proportion of households roofed with grass or mud was highest in Morogoro Rural (6.7% of the main dwellings in the district). And the district with the smallest proportion of houses roofed using grass or mud was Kilombero (433 houses, 0.74 %). The general situation indicates an improvement whereby more households have abandoned the use of grass or mud for roofing by other materials.



3.12.4 Food Consumption Pattern

3.12.4.1 Number of Meals per Day

The majority of households in Morogoro Region normally took three meals per day (56%), followed by two meals per day (42%) and the remaining 2% took one meal a day (Chart 3.89, Table 3.13 and Map 3.50)

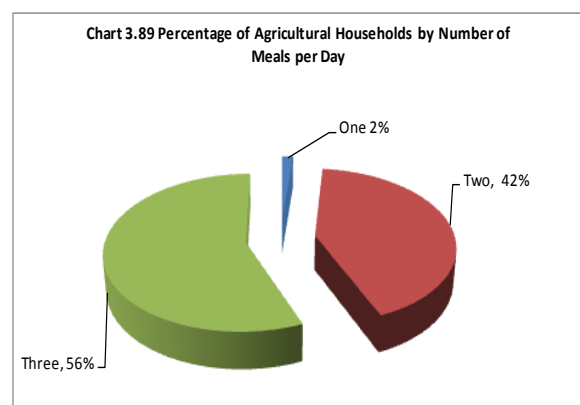


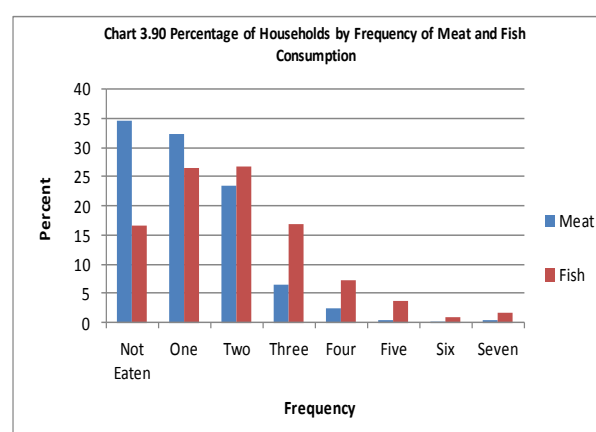
Table 3.14: Agricultural Households Reporting Number of meals the household normally has per day by District

District	One	Two	Three	Total
Kilosa	833	44,154	39,364	84,352
Morogoro Rural	1,404	28,080	27,378	56,863
Kilombero	578	19,216	38,721	58,515
Ulanga	175	13,863	21,496	35,535
Morogoro Urban	53	3,044	3,540	6,638
Mvomero	1,396	17,723	37,401	56,520
Total	4,439	126,080	167,900	298,419
%	1.5	42.2	56.3	100.0

3.12.5 Meat and Fish Consumption Frequencies

On the basis of responses on meat and fish consumption during the week preceding the census (Chart 3.90) more households consumed fish (248,808, 83% of the total 298,421 agricultural households) as compared to meat (195,462 households, 65.5%). However, a larger proportion of the households consumed meat once a week (96,269, 32.3%) compared with fish (78,974 households, 26.5%).

Overall, more households consumed fish more frequently than meat: twice a week (26.7% for meat and 23.4% for fish); thrice a week (6.6% for meat and 16.7% for fish) four times a week (2.4% for meat and 7.3% for fish). And five or more than five times a week (0.6% for meat and 2.6% for fish).



3.12.6 Food Security

In all districts, more than 50% of the agricultural households reported food sufficiency. The most food secure district was Kilombero where the highest proportion of the households (77.8%) reported food sufficiency. In other districts, food sufficiency was reported by between 66.8 and 75.8% of the households.

4 MOROGORO DISTRICT PROFILES

The district profiles highlight the characteristics of each district and compare them in relation to household characteristics, available land and its utilization, main crops and livestock, production and productivity, access to services and resources and levels of poverty.

4.1 Kilosa

At the time of the Census, 29% of household members aged 5 years and above were attending school, 46% had completed school and 25% had never attended school. The literacy rate (ability to read and write) for the district was 73% and the district had the largest number of household members with university and other tertiary education (208, 0.1% of the household members who had completed school in the district).

The district has the largest number of agricultural households (84,352 hh) in the region and the main activity for the majority (84.2%) was crop farming only. Another 15.6% were engaged in both in crop growing and of keeping of livestock. It had a very small number of livestock only households (0.2%) and pastoralists were not found. Kilosa district had the largest number of mixed crop and livestock keeping households in the region (13,121 hh, 30% of all crop growing and livestock keeping in the region). Kilosa district had also the largest number (71,022 of crops only households, 28.1%). The usable land area in the district was 173,223 ha of which 146,493 ha were utilized in the Census year. Both the usable and utilized areas were the largest in the region. The average usable land area per household was 2.1 ha but the utilized area per household was 1.7 ha giving a utilization of 81%.

Kilosa was the leading district in the region in the number of households that planted maize (83,102, 30.5%) and the area planted with the crop (98,185 ha, 42.3%) and had the largest area planted with maize per household (1.2 ha). Kilosa district was third in importance, after Kilombero and Ulanga, in paddy production with 20,579 ha planted with the crop. The district was also second, after Morogoro Rural, in the production of other cereals comprising mostly sorghum and wheat (2,703 ha, 22.9%).

Cassava production was not important for Kilosa District which had 211 ha planted which is the smallest planted area in the region. However, for sweet potato production, Kilosa District was

leading, accounting for 63.4% of the planted area (3,251 ha), 67.6% of harvest (11,003 tonnes) and the largest planted area per household (0.7 ha). For bean production, Kilosa District had 3,571 ha planted (23.1% of total area under beans) and was leading district in oilseed crops: the largest area planted with groundnut (1,455 ha, 58.8%) and simsim (3,200 ha).

Vegetable crops that were important to the district are tomato and onion. Kilosa had the second largest area planted with tomato (725 ha, 29.7%); the second largest number of households that planted the crop (1,250). The area planted with onion (126 ha), was also the second largest in the region and the district contributed 51.9% (885 tonnes) of the onions produced in the region. Bananas and mangoes are among the perennial or permanent crops which though planted on relatively small land areas: bananas (650 ha, 6.0%) and mangoes (584 ha, 17.1%) contributed to both nutrition and income.. Other permanent crops were grown in small quantities.

Inorganic fertilizers were applied on 16% (6,189 ha) of the total planted area applied with organic fertilizer in the region. The district was the second largest user of organic fertilizer. The largest area (23,169 ha, 38.5% of the total area planted with improved seeds in the region) planted with improved seeds was in Kilosa district. The district had the largest planted area applied with insecticides (4,091 ha, 30.6%), the second largest area (1,789 ha, 29.6%) applied with fungicides and the third largest area (11,235 ha, 14.1%) applied with herbicides. Kilosa had the largest irrigated planted area (7,885 ha, 42.3%) even though this was equivalent to only 5.7% of the area planted with annual crops in the district. The main source of water was river and by gravity flow. Harvested crops were stored mostly in sacks and open drums and the district had the largest number of households selling crops (73,730 households involved, 25.8%) and the majority of the households that did not sell crops cited low price in the open market (132,562 households, 66%) as the main challenge. Both male and female headed households received credit mainly from savings and credit societies also private individuals. About 62.1% of the crop producing households received extension services. Only 4.9% of the agricultural households in the district applied any soil erosion control measures and/or had rain water harvesting structures which, in most cases, were erosion control bunds. Tree planting was a low priority activity as just about 1% the total households that planted trees in the region planted them in Kilosa.

Kilosa is home to 84,768 heads of cattle or 13.2% of the cattle population in the region. Its share of the various breed types were as follows: indigenous (13.0%, 81,436 heads), improved dairy (15.5%, 1,458 heads), improved beef (100%, 1,1874 heads), goats (24.7%, 93,099 heads) and sheep

(9.5%, 11,247 heads). The district also had 18.4% of the 88,461 pigs in the region and the largest chicken population (773,327, 27.9%) in the region, all of which were the local type. Incidence of tsetse flies in the district was low (2%). Deworming of chicken was done by the largest proportion (58%) of chicken keepers in the region.

The main sources of water were piped water (22.7% of the agricultural households in the district), protected wells (26.9%) and surface water (29.4%). The traditional pit latrine was the most common facility in the district and 4,374 dwellings (5.2% of the total in the district) were roofed using grass or mud. Most of the households consume meat or fish once a week and 75.6% of the households reported to be self sufficient in food.

4.2 Morogoro Rural

The literacy rate (ability to read and write) for the district was 75% and none of the members of the household had university and other tertiary education. At the time of the census, 32% of the household members aged 5 years and above were attending school, 45% had completed school and 23% had never attended school. Literacy rate of male heads of households (80%) was higher compared to that of female heads (60%).

Morogoro Rural District had an estimated 56,863 agricultural households, the fourth largest in the region. The main activity for the majority of the households was crop farming (87%), followed by crop farming and keeping of livestock (12%), livestock herding only and pastoral activities (0.2%). The usable land area in the district is 88,000 ha of which 70,735 ha was utilized in the census year. The average usable land area per household was 1.5 ha (the smallest in the region) but the utilized area per household was 1.2 ha a utilization of 80.4%. The district had the third largest area, in the region, planted with maize (33,308 ha) the third largest number of households planting maize with an average planted area of 0.6 ha per household. It was the fourth in the region for paddy production with a planted area of 13,177 hectares. The district was leading in the production of other cereals comprising mostly sorghum and wheat (5,769 ha, 49.0%). Areas were planted with selected crops as follows: beans (1,829 ha), onions (57 ha) and tobacco (171 ha). Orange was the most important permanent or perennial crop in the district with the second largest planted area in the region (1,751 ha, 38.2%) and the second largest planted area per household (0.7 ha).

Very few households used improved seeds in the district (2.3%, 1,544 households) and none used inorganic fertilizers. However, organic manure was applied on 1,023 ha (25.1% of the planted area

applied with organic fertilizer in the region), second only to Mvomero. The use of pesticides was relatively low. Irrigation farming was not normally practiced in the district.

Harvested crops were stored mostly in sacks and open drums and locally made traditional structures and about 60% of the households reported selling crops. The households that did not sell crops cited low price in the open market as the main challenge. Only male heads of households received credit in the district and the sources were NGOs/Development projects (100%).

Extension services reached 34% of crop producing households which was the smallest proportion amongst all districts. Very few households (1.2% applied soil erosion control measures and/or had rain water harvesting structures and less than 300 households planted trees.

All the cattle found in the district are local and represent 8.7% of the cattle population in the region. Other livestock found in the district include goats (62,900, 16.7%), sheep (22,324, 18.8%), pigs (11,653, 13.2%) and chicken (391,582, 14.2%). The rate of incidences of tick-borne diseases reported in the district was 7% and the lowest in the region. The traditional pit latrine was the most common latrine facility in the districts and 3,791 dwellings (6.7% of the total in the district) were roofed using grass or mud. The main sources of water which were were piped water, and surface water. The majority of the households took two or three meals per day and consumed meat or fish at least once a week. An estimated 68.6% of the households reported having food sufficiency.

4.3 Morogoro Urban

The literacy rate (ability to read and write) in Morogoro Urban district was 75%.

The literacy rate was higher for male heads of households (84%) compared to that of female heads of households (46%). The percentage persons aged 5 years and above who were still was 29%. Those who had completed school were 47% while those who had never been to school were 23% of those who had completed, 0.5% had attained university education or other tertiary education.

Morogoro Urban District had the smallest usable land area (16,642 ha, 2.5% of total usable land in the region) and the smallest utilized area (12,497 ha, 2.3%). The average usable land area per household was 2.5 ha (the second largest in the region) but the actual utilized area per household was 1.9 ha. A larger area was planted during the long rain season (5,424 ha, 88% of total area planted annually).

Cereals were the main type of crops, the dominant being maize but the area planted with maize in Morogoro Urban (4,846 ha) was the smallest in the region. The yield of 1.2 t/ha for maize was the third highest, after Kilombero and Ulanga districts. About 6,319 households planted maize but the planted area per household at 0.77 ha was the third highest in the region. Paddy and other cereals were not important in the district.

Cassava, sweet potato, pulses such as bean and oil seed crops such as groundnut, simsim and sunflower were minor crops. Vegetable production was confined to small areas planted with tomato and cabbage while perennial crop production was insignificant.

On use of inputs in the district, the use of improved seed was very low (5%, 3,221 households) as well as the use of inorganic fertilizer which was applied on an estimated 311ha (0.8% of the area applied with inorganic fertilizer). An also small was the area applied with organic manure (265 ha, 6.5%).

The area applied with insecticides in Morogoro Urban District was also small, about 2.5% of the planted area applied with insecticides in the region. Herbicides were hardly used in the district and fungicides were applied on 3% of the planted area applied with fungicides, about 205 ha.

Irrigation farming was practiced in the district though at a low level (978 ha, 5.2% of the irrigated planted area in the region). The most common source of irrigation water was the river followed by canals and tap water. Then main method of obtaining water was hand bucket.

Harvested crops were stored mostly in sacks and open drums and about 55.5% of households participated in sale of crops. The households that did not sell crops cited low price in the open market as the main challenge.

Equal number of male and female headed agricultural households in Morogoro Urban District accessed credits. The two main sources of credit in the district were banks and family, friends and relatives, (50% each).

Crop-related extension services were received by 70.7% of the households in the district, the second largest proportion after Kilombero District. Soil erosion control measures and/or had rain water harvesting facilities, were possessed by 6.7% of the households in the district. Tree planting was not practiced.

Morogoro Urban had the least number of households that reared cattle (354 households, 2% of the total households keeping cattle). The cattle population in the district was also small (3%, 19,099 heads) of the total cattle population in the region. However, the district had the largest number of improved dairy cattle (4,425 herds, 47% of total dairy population in the region).

The total goat population in the district was 13,222 or 3.5% of the total goats in the region. However, the district had the highest goat density (791 goats per sq. km) and involved the smallest number of households (743 and, 2%). Generally, sheep, pigs and chicken populations were among the lowest in the region; sheep (6,478, 5.5%), pigs (1,646, 1.9%) and chicken (75,899, 2.7%). However, in the case of improved chicken, Morogoro Urban had the second largest population of broiler chicken (15,275, 24.8%), after Ulanga and the largest layer chicken population in the region (12,390, 58% of the total layer chicken population in the region). Morogoro Urban District also had the second highest concentration of chicken (4,539 chicken per sq. km) after Ulanga. Fish farming was practiced by 18 households (7.3% of the total 246 households that practiced fish farming in the region).

Livestock keeping households in the district reported higher incidences of tick related problems than tsetse flies related problems and the district reported about 12.7% incidence of tick borne problems. Considering all livestock types, deworming was done by the largest proportion of households keeping chicken, followed by goat and sheep, cattle, and lastly pigs.

The main sources of water for drinking were piped water and surface water (lake/dam/river). In both short and long rain seasons, the majority of households accessed the main source of drinking water from less than 100m.

On roofing materials, the district had the second lowest proportion of houses roofed using grass or mud (106), equivalent to 1.5% of the houses in the region. The traditional pit latrine was the most common latrine facility in the districts though about 212 households (3.2%) did not have toilet facilities.

The majority of the households were divided between those that took two meals per day (45.9%) and those that took three meals per day (53.3%) and overall a larger proportion of the households consumed fish more frequently (88.8% of the household ate fish at least once a week) than meat (58.7% the households ate at least once a week).

4.4 Ulanga

The literacy rate (ability to read and write) in Ulanga district was the third highest (77%) in the region. The literacy rate was higher for male heads of households (88%) compared to that of female heads of households (78%). Ulanga district had the second highest proportion of population attending school (37%, 62,471 persons) after Kilombero district. However, none of the households members had attained university or other tertiary-level education

The total number of agricultural households in the district was 35,535. The majority of the households in the district (84.9%) engaged in crop production only and the remaining households engaged in mixed crop and livestock production.

Ulanga District had the fourth largest available usable land (86,744 ha, 13.2% of total usable land in the region) and 76,367 ha were utilized in the census year. The average usable land per household was 2.4 ha (the third largest in the region) but the utilized area per household was 2.1 ha. A larger area was planted during the short rainy season (54,237 ha, 76% of total area planted whole year). Cereals were the main crop types planted in the district, the dominant being paddy and maize.

The district had the fifth largest area, in the region, planted with maize (19,140 ha) with about 32,288 maize growing households. Individual households planted an average of 0.59 hectares of maize. The yield of maize was 1.32 t/ha and second only to Kilombero District. In regard to paddy, Ulanga District was also second to Kilombero in the area planted (41,851 ha, 24.7%); the number of paddy growing households was 31,587 (20.5% of all paddy growing households in the region) and the yield was 1.82 t/ha. Other cereals such as sorghum and wheat were minor planted on about 407 ha by 965 households.

Ulanga District had the third largest area planted with cassava (2,093 ha, 20% of the total 10,646 ha planted in the region), after Morogoro Rural and Mvomero districts and the yield, at 1.6 t/ha, was the lowest in the region.

Ulanga accounted for 12.4% of the area planted with sweet potatoes, the third largest proportion after Kilosa and Kilombero districts and the district was the least productive in this crop (1.1 t/ha).

Pulses were minor crops in the district. Beans were planted on 1,183 ha (7.6% of the area planted with beans in the region) or less than half a hectare per household. Groundnuts were the most important oil seeds in district. The district had the second largest area planted with groundnuts (657

ha, 26.5%) after Kilosa and the second highest yield was recorded in this district (0.56 t/ha). The district had the third largest area planted with simsim (3,152 ha), and individual households planted an average 0.51 ha and the yield was the highest (0.44 t/ha) in the region.

Amongst vegetable crops, onions were the most important planted on 58 ha (13.2 % of total area under onions in the region) on small plots averaging 0.1 ha per household and involving about 614 households (the second largest after Mvomero) and gave the second highest yield (4.22 t/ha) after Kilosa District. Relatively, much smaller areas were planted with tomato or cabbage.

In Ulanga district, less than 10% of the area planted was under perennial crops and the planted area per household was very small (0.4 ha). The major perennial crops planted were bananas (20.2%, coconuts (13.0%), mangos (11.2% of the area under perennials), oranges (3.5%), and palm oil (3.5%).

On input use, an estimated 6,844 households (11.4% of households that used improved seeds in the region) used improved seeds, the fourth largest number after Kilosa, Mvomero and Kilombero districts.

The area planted using inorganic fertilizers was the second smallest in the region (369ha, 1% of the planted area applied with inorganic fertilizer in the region) and the district had the smallest planted area applied with organic manure (1.8%). Ulanga district had the second largest planted area applied with insecticides (3,919 ha, 29.3%), the second in herbicide use (31.9%, 25,263 ha), after Kilombero. However, the area applied with fungicides was the second smallest (8%, 479 ha) after Morogoro Urban District. Irrigation farming was fourth largest (2,664 ha, 14% of the total irrigated area in the region). The most common source of irrigation water was the river and the water was accessed by hand bucket.

Harvested crops were stored mostly in sacks and open drums and about 86.1% of the households participated in selling crops. The households that did not sell crops cited low price in the open market as the main challenge. Both male and female heads of households received credit but relatively more male heads of households (80%) received credit compared to female heads of households (20%). Credit was mostly from savings and credit societies and other sources were from traders, family and friends and NGOs/development projects.

Crop-related extension services were received by 66.7% (the fourth largest in the region) after Kilombero, Morogoro urban and Mvomero districts. About 7.4% of the households in Ulanga district applied some erosion control measures and/or had rain water harvesting facilities. The most commonly used structures were erosion control bunds and terraces. Tree belts were also used but the district accounted for just about 1% (702 households) of the total number of households that planted trees.

About 2,106 households (12% of households keeping cattle in the region) kept about 93,795 heads of cattle (14.7% of the cattle population in the region), the third largest cattle population in the region. Most of the cattle were of indigenous type but a small proportion of improved dairy cattle were also present (526 heads, 5.6%). The goat population in the district comprised 21,847 animals (5.8% of the total 377,572 goats found in the region) involving 2,194 households (7%) and the goat density was the lowest in this district (249 animals per sq. km).

The sheep population in Ulanga District was second largest after Kilombero (27,200 sheep, 22.9%) involving 1,843 households (21.1%) with a sheep density of 310 animals per square kilometre, the second highest after Morogoro Urban. Ulanga had the highest chicken density in the region (4,870 birds per sq. km). The total chicken population in the district was 427,735 (15.5%), including the largest population of broilers (27,989, 45.4%). Layer chicken were insignificant in the district. About 7,019 pigs were raised in the district (7.9%) involving 2,457 households (7.5% of households keeping pigs) and other livestock in the district included 17,724 ducks, the largest population in the region.

Ulanga District was one of the three districts that practiced fish farming in the region and had the second largest number of households practicing fish farming in the region (88 households, 35.8%). Livestock keeping households in the district reported higher incidences of tick related problems (2,369 households, 8.6%) than tsetse related problems (7.3%). Considering all livestock types, deworming was done by the largest number of proportion of households keeping chicken, followed by goats and sheep, pigs and lastly cattle.

The main sources of water for drinking were piped water, protected, unprotected wells and surface water (lake/dam/river). In both short and long rain seasons, the majority of households accessed the main source of drinking water from less than 100m. On roofing materials, the district had 1,053

houses (3%) roofed using grass or mud. The traditional pit latrine was the most common latrine facility in the districts though about 4.9% of the households did not have toilet facilities.

The majority of the households (60.5%) took three meals per day and overall and more households consumed fish more frequently (79.3% ate fish at least once a week) than meat (45.9% ate meat at least once a week). However, an estimated 75.8% of the households reported food sufficiency.

4.5 Mvomero

The literacy rate (ability to read and write) in Mvomero district was the second highest (78%) in the region, after Kilombero. The literacy rate was higher for male heads of households (85%) compared to that of female heads of households (68%). Mvomero was leading, in the region, with 51% of household members aged 5 years and above (124,204 persons) having completed school compared to all other districts which were in the range of 44-47%. However, none of the household members had attained university or other tertiary-level education.

The total number of agricultural households in the district was 56,520 with a density of 413 households/sq. km which was the third highest in the region after those of Morogoro Rural and Kilosa districts. The majority of the households in the district engaged in crop production (46,751 households, 82.7%) and the district also had second largest number of households engaged in crop and livestock keeping (9,490). Mvomero District had the third largest available usable land area (136,347ha, 20.8% of total usable land in the region) and the third largest utilized area (111,346 ha, 20.3% of utilized land area) equivalent to 81.7% land utilization. The average usable land area per household was 2.4 ha (the third largest in the region) and the utilized area per household was 2.0 ha.

A larger area was planted during the long rainy season (55,256 ha, 63.9% of total area planted during the year). The total area planted with annual crops was 72,550 ha and the main crop types, as in the other districts were cereals, the dominant being maize. Mvomero District was second to Kilosa in the area planted with maize (53,225 ha, 22.9% of the maize planted area in the region) and the 58,753 households that planted maize were equivalent to 21.6% of maize growing households in the region.

The average maize planted area per household was one hectare and the yield at 1.09 t/ha was fourth in the region following Kilombero, Ulanga and Morogoro Urban districts. A relatively small area was planted with paddy (13,168 ha, 7.8% of the total area planted with paddy in the region) while

the area planted with other cereals was 2,584 ha, (22% of the area under other cereals in the region).

The major root crop was cassava and Mvomero was second in both the area planted with cassava (2,872 ha, 27%) and productivity (2.6 t/ha). Mvomero was the most important district for bean production. The area planted and the proportion of land planted with beans was highest in this district (8,535 ha, 55.2% of the total area planted) and 19,119 households (54.3% of total households that planted) were involved. However, planted area per household (0.45 ha) was the second in the region. Oil seed crops were generally minor comprising of small areas planted with groundnuts and simsim

Tomato was the major vegetable crop in the district. Mvomero district had the largest area planted with tomatoes (1,441 ha, 59% of the planted area in the region) and the number of households that planted tomato was also largest in Morogoro (4,187; 57.5%). The district also produced 7,275 tonnes of tomatoes. Onion was the second most important vegetable crop planted and Mvomero District had the largest planted area (184 ha, 41.8% of planted area in the region).

Out of the total 66,182 ha planted with perennial crops in the region, 14,710 ha (22.2%) were in Mvomero District, the second largest area under perennial crops in the region, after Morogoro Rural. The major perennial crops planted were coffee, oranges, mangos and sugarcane. Most of the coffee in the region was planted in this district on 719 ha (96.4% of the total area planted with coffee) with an average planted area of 0.64 ha per household. Others were mangos (876 ha, 25.7% of the total area planted with mangos also the largest planted area in the region) and sugarcane (3,406 ha), the third largest planted area after Kilombero and Kilosa districts. Relatively smaller areas were also planted with bananas and coconuts.

In absolute numbers, improved seed was the input used most extensively in Mvomero District (27%, 16,188 households), second to Kilosa. The area applied with inorganic fertilizers in Mvomero was 4,411 ha (12% of the planted area in the district). However, the district had the largest planted area applied with organic fertilizers (1,599 ha, 39.3% of all the area applied with organic fertilizer in the region).

The area applied with insecticides was 3,483 ha (26.1% of the total planted area applied with insecticides in the region) while herbicides were applied on 763ha (1%) and fungicides were applied on 2,833ha (47%).

Irrigation farming was practiced in the district. Mvomero was second to Kilosa District in the area of irrigated land (3,691 ha, 19.8%% of the total irrigated land in the region). The most common source of irrigation water was the river and the water was accessed by gravity but also tap water and canals were used. Harvested crops were stored mostly in sacks and open drums and about 76.6% of households participated in sale of crops. The households that did not sell crops cited low price in the open market as the main challenge.

Agaricultural households in Mvomero accessed credits but all the 837 households that received the credit were male-headed households. In the district, credit was mostly from banks and family, friends and relatives, the two main sources each accounting for 33% of the credit accessed each followed by savings and credit societies and trade/trade store (17% each). Crop-related extension services were received by crop by (70%), the third largest proportion after Kilimbero and Morogoro urban.

About 4,326 (7.7% of the total agricultural households in the district) in the district applied erosion control measures and had rain water harvesting facilities. This was the largest number in the region. The most commonly used structures were erosion control bunds and terraces. Tree belts were also used and Mvomero District was a leader in this aspect and the 1,396 households that planted trees were the largest in any one district and was equivalent to about 2% of the total households that planted trees

About 2,512 households (14% of households that kept cattle in the region) kept cattle in the district and had the largest cattle population in the region (236,685 heads of cattle, 37% of the cattle population in the region) mostly indigenous and a few improved (8.9%) dairy cattle. The total goat population in the region was 377,572 of which the largest population was found in in Mvomero District (107,038, 28.3%) with a density of 783 goats per sq. km involving 9,350 households (28%), the second largest in the region, after Kilosa District.

The total number of sheep in the region was 118,793 and Mvomero had 7.8% (9,211 sheeps) but the district had one of the lowest sheep density (63 animals per sq. km), comparable only to Kilosa District. Mvomero District accounted for 26.8% of the total 88,462 pigs raised in the region. Mvomero had the largest number of households that kept pigs (11,025 households, 33.5%) and was second in pig density (173 pigs per sq km), after Kilombero.

Mvomero District had 487,744 chickens (17.6% of the total chickens in the region), and the third largest chicken population after Kilosa and Kilombero. Improved broiler chicken in the district were about 6.8% of the broiler chicken in the region but layers were quite significant (7,257, 33.9% of total layers in the region). The overall chicken density was one of the lowest in the region (3,568 birds per sq. km). Fish farming was not practiced in this district. Livestock keeping households in the district reported higher incidences (4,605 households, 12%) of tick related problems than tsetse related problems (4.7%). Considering all livestock types, deworming was mostly done for pigs followed by goats and sheeps, chickens and lastly cattle.

The main sources of water for drinking were surface water, protected wells, piped water and unprotected wells. In both short and long rain seasons, the majority of households accessed the main source of drinking water from less than 100m. On roofing materials, the district had 1,256 houses (2.2%) roofed using grass or mud. The traditional pit latrine was the most common latrine facility in the districts though about 977 households (1.7%) did not have toilet facilities.

The majority of the households (66.2%) took three meals per day and overall more households consumed fish more frequently (77.3% households ate fish at least once a week) than meat (74.1% households ate meat at least once a week). However, an estimated 73.6% of the households reported food sufficiency.

4.6 Kilombero

The literacy rate (ability to read and write) in Kilombero district was the highest (81%) in the region. Kilombero district had the highest level of literacy for both male (88%) and female (84%) heads of households. Kilombero also had the highest proportion of population attending school (38%, 95,646 persons).

Amongst household members, Kilombero district with 144 households members (0.1%) having attained university or other tertiary-level education, was second to Kilosa district. Kilombero district had the lowest density of agricultural households in the region (370 households/sq. km). The dominant household type was crop farming only (85.2%) followed by mixed crops and livestock (14.6%) and livestock only (0.2%). There was no pastoralist households.

Kilombero was one of the three districts (together with Kilosa and Mvomero districts) which, combined, had the biggest proportion of available usable land (70.8%, 464,086 ha). The usable land

area in the district was 154,516 ha of which 129,773 ha (84%) were utilized in the census year. The average usable land area per household was 2.6 ha (the largest in the region) but the utilized area per household was 2.2 ha. A larger area (59,679 ha, 55.2%) was planted during the short rainy season.

The district had the fourth largest maize area in the region (23,673 ha, 10.2% of the area planted with maize in the region). Maize yield was highest in Kilombero (1.45 tons/ha). Kilombero had the largest area planted with paddy (80,207 ha, 47.2%), the largest number of paddy growing households (56,925, 36.9%) and the highest yield (1.94 t/ha) in the region. Other cereals were minor and planted on about 292 hectares.

Kilombero district had the fourth largest area planted with cassava (about 10% of the total 10,646 ha planted in the region) but had the highest yield (3.8 t/ha). Kilombero had the second largest area planted with sweet potatoes (840 ha) and the highest yield (4.1 t/ha). Pulses were minor crops in the district. Amongst oil seed crops, groundnuts was the most important in Kilombero District. The district had the third largest area planted with groundnuts (234 ha, 9.5%), after Kilosa and Ulunga districts. Vegetable crop production in the district was a minor activity and in Kilombero the planted areas for tomatoes and onions respectively accounted for 2.4 and 3.4% of the total planted area in the region.

In Kilombero district, about 11,349 ha (17.2% of the 66,182 ha planted with perennial crops in the region) were planted with perennial crops. Orange was the second most important permanent or perennial crop in the district with the largest planted area in the region (1,757 ha, 38.4% of the area under oranges in the region) and the largest planted area per household (0.7 ha) similar only to Morogoro Rural District. In other perennial crops, Kilombero had the largest number of mango growing households (6,502) and the second largest area planted with mangoes (776 ha, 22.7% of total area planted with mangoes in the region). The yield for mangoes was the second highest (10.9 t/ha) after Mvomero. Bananas were a minor perennial crop in the district.

On input use, an estimated 22% (equivalent to 13,292 of the households that) used improved seeds were in Kilombero. The district also had the largest planted area applied with inorganic fertilizers (70% of the 37,701 ha applied with inorganic fertilizers in the region). Kilombero District had the largest planted area applied with herbicides (52%, of the 79,137 ha applied with herbicides in the region) and the fourth largest area applied with insecticides (11.2% of the 1,492 ha applied with

insecticides in the region). Fungicides were applied on 12% (732 ha) of the planted area applied with fungicides in the region.

Irrigation farming was practiced and Kilombero District had the third largest irrigated area in the region (2,939 ha, 16%), after Kilosa and Mvomero districts. The most common source of irrigation water was the river and the water was accessed by gravity.

Harvested crops were stored mostly in sacks and open drums and about 24% of the households participated in selling crops. The households that did not sell crops cited low price in the open market as the main challenge. Both male and female heads of households received credit mostly from family, friends and relatives (45.5%) followed by NGO/Development project (36.4%) and banks (9.1%).

Kilombero district had the largest proportion of households (86.9%) that received crop-related extension services in the region. The population of households applying erosion control measures and had rain water harvesting facilities at 0.7% was the lowest (0.7%) in the region. The most commonly used structures were erosion control bunds and terraces. Tree belts were also used but the district accounted for just about 1% (722 households) of the total number of households that that planted trees.

Kilombero District had the second largest cattle population (149,537 herds, 23.4%) in the region, most of which were indigenous. It had the second largest proportion of improved dairy cattle (2,167 herds, 23%) and the second largest number of households that kept cattle (4,768 households, 27% of total households with cattle). The goat population in Kilombero (79,464 goats) constituted 21% of the total 377,572 goats found in the region involving about 2,745 households (8% of households keeping goats in the region). Kilombero District also accounted for 35.6% (42,333 sheeps) of the sheep population in the region with a sheep density of 267 animals per square kilometre kept by 1,734 households (19.8%). Kilombero also accounted for 31.8% of the 88,462 pigs in the region, and 22.1% of the chicken population (610,575) including the third largest population of broiler chicken (14,159, 23%). There was a very small population of layer chicken in the district (2%). Other livestock raised in the district include turkeys, ducks and guinea pigs. Fish farming was not practiced in the district.

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TYPE OF AGRICULTURE HOUSEHOLD

2.1.1: Number of Households by Type of Household and District During 2007/08 Agriculture Year

District	Rural Households involved in Agriculture	% of Total Rural Households involved in Agriculture	Rural households NOT involved in Agriculture	% of Total Rural Households NOT involved in Agriculture	Total Rural Households	% of Total Rural Households	Number of Urban Households	% of Total Urban Households	Total Number of Households
Kilosa	84,352	98.4	1,361	1.6	85,713	70.0	36,671	29.96	122,383
Morogoro Rural	56,863	99.0	566	1.0	57,429	93.4	4,058	6.6	61,486
Kilombero	58,515	97.4	1,554	2.6	60,069	70.9	24,613	29.1	84,682
Ulanga	35,535	98.2	633	1.8	36,168	86.7	5,550	13.3	41,718
Morogoro Urban	6,638	95.7	300	4.3	6,938	10.3	60,724	89.7	67,661
Mvomero	56,520	98.4	902	1.6	57,422	88.5	7,439	11.5	64,860
Total	298,421	98.2	5,316	1.8	303,737	68.6	139,054	31.4	442,791

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

District	Crops Only		Livestock Only		Pastoralist		Crops & Livestock		Total Number of Households	Total Number of Households Growing Crops	Total Number of Households Rearing Livestock
	Number of households	%	Number of households	%	Number of households	%	Number of households	%			
Kilosa	71,022	84.2	208	0.2	0	0.0	13,121	15.6	84,352	84,143	13,330
Morogoro Rural	49,562	87.2	562	1.0	140	0.2	6,599	11.6	56,863	56,161	7,301
Kilombero	49,846	85.2	144	0.2	0	0.0	8,524	14.6	58,515	58,370	8,669
Ulanga	30,183	84.9	0	0.0	0	0.0	5,352	15.1	35,535	35,535	5,352
Morogoro Urban	5,823	87.7	124	1.9	0	0.0	690	10.4	6,638	6,514	814
Mvomero	46,751	82.7	279	0.5	0	0.0	9,490	16.8	56,520	56,241	9,769
Total	253,187	84.8	1,317	0.4	140	0.0	43,777	14.7	298,421	296,963	45,235

2.1.3: Number of Agricultural Households By Type and Size of Holding, 2007/08 Agriculture Year (row percent) - MOROGORO

Size of Holding (ha)	2.1 Type of Agriculture Household									
	Crops only		Livestock only		Pastoralist		Crops and Livestock		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%
0.01 - 0.50	30,491	94	421	1	0	0	1,539	5	32,452	100
0.51 - 1.00	59,438	94	0	0	0	0	4,089	6	63,527	100
1.01 - 1.50	51,712	91	140	0	0	0	5,169	9	57,022	100
1.51 - 2.00	31,956	86	0	0	0	0	5,122	14	37,078	100
2.01 - 2.50	30,349	82	208	1	0	0	6,490	18	37,048	100
2.51 - 3.00	12,287	80	0	0	0	0	3,000	20	15,286	100
3.01 - 3.50	9,411	72	18	0	0	0	3,610	28	13,039	100
3.51 - 4.00	2,697	66	0	0	0	0	1,362	34	4,059	100
4.01 - 4.50	9,375	77	302	2	0	0	2,470	20	12,146	100
4.51 - 5.00	1,910	48	0	0	0	0	2,091	52	4,001	100
Above 5	13,562	60	228	1	140	1	8,833	39	22,763	100
Total	253,187	85	1,317	0	140	0	43,777	15	298,421	100

2.1.4: Number of Agricultural Households By Type and Size of Holding, 2007/08 Agriculture Year (column percent) - MOROGORO

Size of Holding (ha)	2.1 Type of Agriculture Household									
	Crops only		Livestock only		Pastoralist		Crops and Livestock		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%
0.01 - 0.50	30,491	12	421	32	0	0	1,539	4	32,452	11
0.51 - 1.00	59,438	23	0	0	0	0	4,089	9	63,527	21
1.01 - 1.50	51,712	20	140	11	0	0	5,169	12	57,022	19
1.51 - 2.00	31,956	13	0	0	0	0	5,122	12	37,078	12
2.01 - 2.50	30,349	12	208	16	0	0	6,490	15	37,048	12
2.51 - 3.00	12,287	5	0	0	0	0	3,000	7	15,286	5
3.01 - 3.50	9,411	4	18	1	0	0	3,610	8	13,039	4
3.51 - 4.00	2,697	1	0	0	0	0	1,362	3	4,059	1
4.01 - 4.50	9,375	4	302	23	0	0	2,470	6	12,146	4
4.51 - 5.00	1,910	1	0	0	0	0	2,091	5	4,001	1
Above 5	13,562	5	228	17	140	100	8,833	20	22,763	8
Total	253,187	100	1,317	100	140	100	43,777	100	298,421	100

HOUSEHOLD DEMOGRAPHICS

3.1: Number of Household Members classified by District and Sex

District	Male		Female		Total
	Number	Percent	Number	Percent	
Kilosa	195,154	50	192,655	50	387,809
Morogoro Rural	125,800	50	124,396	50	250,197
Kilombero	139,857	50	139,857	50	279,715
Ulanga	96,163	49	100,551	51	196,714
Morogoro Urban	13,877	50	13,665	50	27,542
Mvomero	139,973	52	129,925	48	269,899
Total	710,826	50	701,049	50	1,411,875

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

Age Group	Sex					
	Male		Female		Total	
	Number	%	Number	%	Number	%
Less than 4	76,308	50	76,487	50	152,795	100
5 - 9	99,466	50	98,866	50	198,332	100
10 - 14	112,167	53	100,387	47	212,554	100
15 - 19	94,340	54	79,754	46	174,095	100
20 - 24	51,549	47	59,067	53	110,616	100
25 - 29	43,441	44	54,306	56	97,747	100
30 - 34	42,691	46	49,256	54	91,947	100
35 - 39	41,441	47	47,658	53	89,099	100
40 - 44	30,572	47	34,570	53	65,142	100
45 - 49	33,011	54	28,633	46	61,644	100
50 - 54	20,184	51	19,742	49	39,926	100
55 - 59	20,016	56	15,762	44	35,778	100
60 - 64	14,791	52	13,766	48	28,557	100
65 - 69	13,164	57	9,816	43	22,980	100
70 - 74	8,222	60	5,465	40	13,687	100
75 - 79	4,345	55	3,533	45	7,878	100
80 - 84	1,867	49	1,966	51	3,832	100
Above 85	3,251	62	2,014	38	5,266	100
Total	710,826	50	701,049	50	1,411,875	100

3.3: 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	%
Kilosa	56,443	93	3,957	7	60,400	100	4,582	56	3,541	44	8,123	100
Morogoro Rural	36,645	90	3,931	10	40,576	100	2,668	56	2,106	44	4,774	100
Kilombero	42,766	96	1,589	4	44,356	100	3,034	68	1,445	32	4,479	100
Ulanga	23,163	97	790	3	23,953	100	1,404	44	1,755	56	3,159	100
Morogoro Urban	4,531	97	124	3	4,655	100	513	62	319	38	832	100
Mvomero	40,331	97	1,256	3	41,587	100	2,233	41	3,210	59	5,443	100
Total	203,880	95	11,647	5	215,527	100	14,434	54	12,375	46	26,809	100

Cont. 3.3: 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	%
Kilosa	417	29	1,041	71	1,458	100	1,666	22	6,040	78	7,706	100
Morogoro Rural	842	46	983	54	1,825	100	3,089	55	2,527	45	5,616	100
Kilombero	2,745	83	578	17	3,323	100	1,734	46	2,023	54	3,756	100
Ulanga	3,773	84	702	16	4,475	100	877	45	1,053	55	1,930	100
Morogoro Urban	142	62	89	38	230	100	230	46	266	54	496	100
Mvomero	2,093	88	279	12	2,372	100	558	19	2,372	81	2,931	100
Total	10,012	73	3,672	27	13,684	100	8,155	36	14,281	64	22,435	100

Cont. 3.3: 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	%
Kilosa	833	13	5,832	88	6,665	100	63,941	76	20,411	24	84,352	100
Morogoro Rural	562	14	3,510	86	4,072	100	43,805	77	13,057	23	56,863	100
Kilombero	144	6	2,456	94	2,601	100	50,424	86	8,091	14	58,515	100
Ulanga	351	17	1,667	83	2,018	100	29,569	83	5,966	17	35,535	100
Morogoro Urban	18	4	407	96	425	100	5,434	82	1,204	18	6,638	100
Mvomero	698	17	3,489	83	4,187	100	45,914	81	10,606	19	56,520	100
Total	2,606	13	17,361	87	19,967	100	239,086	80	59,335	20	298,421	100

3.4: 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	%
Kilosa	30,200	80	7,706	20	37,906	100	33,741	73	12,705	27	46,445	100
Morogoro Rural	14,742	80	3,791	20	18,533	100	29,063	76	9,267	24	38,330	100
Kilombero	22,683	86	3,756	14	26,440	100	27,740	87	4,190	13	31,930	100
Ulanga	12,020	82	2,720	18	14,740	100	17,548	84	3,246	16	20,794	100
Morogoro Urban	2,567	86	425	14	2,991	100	2,867	79	779	21	3,646	100
Mvomero	21,910	84	4,326	16	26,236	100	24,003	79	6,280	21	30,283	100
Total	104,123	82	22,725	18	126,847	100	134,963	79	36,466	21	171,430	100

Cont. 3.4: 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	%
Kilosa	0	0	0	0	0	0	63,941	76	20,411	24	84,352	100
Morogoro Rural	0	0	0	0	0	0	43,805	77	13,057	23	56,863	100
Kilombero	0	0	144	100	144	100	50,424	86	8,091	14	58,515	100
Ulanga	0	0	0	0	0	0	29,569	83	5,966	17	35,535	100
Morogoro Urban	0	0	0	0	0	0	5,434	82	1,204	18	6,638	100
Mvomero	0	0	0	0	0	0	45,914	81	10,606	19	56,520	100
Total	0	0	144	100	144	100	239,086	80	59,335	20	298,421	100

3.5 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	%
Kilosa	38,531	78	11,039	22	49,570	100	25,410	73	9,164	27	34,574	100
Morogoro Rural	22,464	78	6,318	22	28,782	100	21,341	76	6,739	24	28,080	100
Kilombero	31,063	85	5,490	15	36,554	100	19,360	88	2,601	12	21,961	100
Ulanga	18,689	84	3,597	16	22,286	100	10,880	82	2,369	18	13,249	100
Morogoro Urban	3,575	86	566	14	4,142	100	1,859	74	637	26	2,496	100
Mvomero	27,353	83	5,443	17	32,795	100	18,561	78	5,164	22	23,724	100
Total	141,676	81	32,453	19	174,129	100	97,410	79	26,674	21	124,084	100

Cont. 3.5: 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	%
Kilosa	0	0	208	100	208	100	63,941	76	20,411	24	84,352	100
Morogoro Rural	0	0	0	0	0	0	43,805	77	13,057	23	56,863	100
Kilombero	0	0	0	0	0	0	50,424	86	8,091	14	58,515	100
Ulanga	0	0	0	0	0	0	29,569	83	5,966	17	35,535	100
Morogoro Urban	0	0	0	0	0	0	5,434	82	1,204	18	6,638	100
Mvomero	0	0	0	0	0	0	45,914	81	10,606	19	56,520	100
Total	0	0	208	100	208	100	239,086	80	59,335	20	298,421	100

3.6: 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	%	
Kilosa	233,268	68.5	13,954	4.1	0	0.0	93,307	27.4	340,530
Morogoro Rural	163,288	71.6	7,863	3.4	0	0.0	57,003	25.0	228,154
Kilombero	182,479	73.1	19,360	7.8	144	0.1	47,679	19.1	249,663
Ulanga	118,713	69.7	11,933	7.0	175	0.1	39,571	23.2	170,392
Morogoro Urban	17,417	70.8	1,062	4.3	0	0.0	6,107	24.8	24,586
Mvomero	178,909	72.8	12,839	5.2	0	0.0	54,008	22.0	245,756
Total	894,074	71.0	67,011	5.3	320	0.0	297,674	23.6	1,259,080

3.7: 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	%
Kilosa	48,945	82	10,414	18	59,358	100	3,957	95	208	5	4,166	100
Morogoro Rural	34,258	82	7,441	18	41,699	100	842	67	421	33	1,264	100
Kilombero	42,188	87	6,502	13	48,690	100	2,167	88	289	12	2,456	100
Ulanga	23,163	84	4,387	16	27,550	100	2,808	91	263	9	3,071	100
Morogoro Urban	4,248	89	549	11	4,797	100	336	100	0	0	336	100
Mvomero	36,563	84	6,838	16	43,402	100	2,652	86	419	14	3,070	100
Total	189,366	84	36,131	16	225,497	100	12,762	89	1,600	11	14,363	100

Cont. 3.7: 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	%
Kilosa	0	0	0	0	0	0	11,039	53	9,789	47	20,828	100
Morogoro Rural	0	0	0	0	0	0	8,705	63	5,195	37	13,900	100
Kilombero	144	100	0	0	144	100	5,924	82	1,300	18	7,224	100
Ulanga	88	100	0	0	88	100	3,510	73	1,316	27	4,826	100
Morogoro Urban	0	0	0	0	0	0	850	56	655	44	1,505	100
Mvomero	0	0	0	0	0	0	6,699	67	3,349	33	10,048	100
Total	232	100	0	0	232	100	36,725	63	21,604	37	58,330	100

Cont. 3.7: 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	%
Kilosa	63,941	76	20,411	24	84,352	100
Morogoro Rural	43,805	77	13,057	23	56,863	100
Kilombero	50,424	86	8,091	14	58,515	100
Ulanga	29,569	83	5,966	17	35,535	100
Morogoro Urban	5,434	82	1,204	18	6,638	100
Mvomero	45,914	81	10,606	19	56,520	100
Total	239,086	80	59,335	20	298,421	100

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

District	Male						Female						Total					
	Can Read and Write		Can not Read and Write		Total		Can Read and Write		Can not Read and Write		Total		Can Read and Write		Can not Read and Write		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Kilosa	131,422	76	40,822	24	172,244	100	115,801	69	52,485	31	168,287	100	247,223	73	93,307	27	340,530	100
Morogoro Rural	91,683	81	22,043	19	113,726	100	79,468	69	34,960	31	114,428	100	171,150	75	57,003	25	228,154	100
Kilombero	105,037	83	20,805	17	125,843	100	96,947	78	26,873	22	123,820	100	201,984	81	47,679	19	249,663	100
Ulanga	67,297	81	16,232	19	83,529	100	63,524	73	23,339	27	86,863	100	130,821	77	39,571	23	170,392	100
Morogoro Urban	9,930	80	2,531	20	12,461	100	8,549	71	3,575	29	12,125	100	18,479	75	6,107	25	24,586	100
Mvomero	99,782	79	26,934	21	126,716	100	91,967	77	27,074	23	119,040	100	191,748	78	54,008	22	245,756	100
Total	505,150	80	129,368	20	634,518	100	456,255	73	168,307	27	624,562	100	961,405	76	297,674	24	1,259,080	100

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

District	Male						Female						Total					
	Can Read and Write		Can not Read and Write		Total		Can Read and Write		Can not Read and Write		Total		Can Read and Write		Can not Read and Write		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Kilosa	52,902	83	11,039	17	63,941	100	10,622	52	9,789	48	20,411	100	63,524	75	20,828	25	84,352	100
Morogoro Rural	35,101	80	8,705	20	43,805	100	7,863	60	5,195	40	13,057	100	42,963	76	13,900	24	56,863	100
Kilombero	44,500	88	5,924	12	50,424	100	6,791	84	1,300	16	8,091	100	51,291	88	7,224	12	58,515	100
Ulanga	26,059	88	3,510	12	29,569	100	4,650	78	1,316	22	5,966	100	30,709	86	4,826	14	35,535	100
Morogoro Urban	4,584	84	850	16	5,434	100	549	46	655	54	1,204	100	5,133	77	1,505	23	6,638	100
Mvomero	39,215	85	6,699	15	45,914	100	7,257	68	3,349	32	10,606	100	46,472	82	10,048	18	56,520	100
Total	202,361	85	36,725	15	239,086	100	37,731	64	21,604	36	59,335	100	240,092	80	58,330	20	298,421	100

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

District	Education Status						Total
	Attending School	%	Completed	%	Never Attended to School	%	
Kilosa	98,098	29	156,207	46	86,226	25	340,530
Morogoro Rural	71,886	32	103,617	45	52,651	23	228,154
Kilombero	95,646	38	111,828	45	42,188	17	249,663
Ulanga	62,471	37	74,755	44	33,166	19	170,392
Morogoro Urban	7,222	29	11,647	47	5,717	23	24,586
Mvomero	76,197	31	124,204	51	45,355	18	245,756
Total	411,520	33	582,257	46	265,304	21	1,259,080

**3.11: 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	%
Kilosa	417	100	0	0	417	100	52,069	83	10,414	17	62,483	100
Morogoro Rural	421	50	421	50	842	100	34,960	82	7,722	18	42,682	100
Kilombero	289	100	0	0	289	100	44,067	87	6,646	13	50,713	100
Ulanga	88	50	88	50	175	100	26,585	85	4,563	15	31,148	100
Morogoro Urban	18	100	0	0	18	100	4,584	89	549	11	5,133	100
Mvomero	558	80	140	20	698	100	39,075	85	7,117	15	46,193	100
Total	1,790	73	649	27	2,439	100	201,341	84	37,011	16	238,351	100

**Cont. 3.11: 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	%
Kilosa	11,455	53	9,997	47	21,452	100	63,941	76	20,411	24	84,352	100
Morogoro Rural	8,424	63	4,914	37	13,338	100	43,805	77	13,057	23	56,863	100
Kilombero	6,068	81	1,445	19	7,513	100	50,424	86	8,091	14	58,515	100
Ulanga	2,895	69	1,316	31	4,212	100	29,569	83	5,966	17	35,535	100
Morogoro Urban	832	56	655	44	1,487	100	5,434	82	1,204	18	6,638	100
Mvomero	6,280	65	3,349	35	9,629	100	45,914	81	10,606	19	56,520	100
Total	35,955	62	21,676	38	57,631	100	239,086	80	59,335	20	298,421	100

3.12: 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	%
Kilosa	208	0.1	625	0.4	833	0.5	2,499	1.6	11,455	7.3	4,582	2.9
Morogoro Rural	0	0.0	702	0.7	702	0.7	983	0.9	10,249	9.9	983	0.9
Kilombero	0	0.0	1,445	1.3	2,601	2.3	1,878	1.7	7,369	6.6	2,745	2.5
Ulanga	263	0.4	1,228	1.6	1,053	1.4	1,316	1.8	8,335	11.2	1,404	1.9
Morogoro Urban	0	0.0	18	0.2	159	1.4	142	1.2	1,044	9.0	230	2.0
Mvomero	0	0.0	977	0.8	1,256	1.0	1,814	1.5	17,305	13.9	1,116	0.9
Total	471	0.1	4,995	0.9	6,604	1.1	8,632	1.5	55,757	9.6	11,060	1.9

cont 3.12: 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	%
Kilosa	2,916	1.9	123,091	78.8	833	0.5	833	0.5	0	0.0	0	0.0
Morogoro Rural	702	0.7	85,084	82.1	421	0.4	562	0.5	140	0.1	0	0.0
Kilombero	1,589	1.4	86,255	77.1	289	0.3	289	0.3	0	0.0	289	0.3
Ulanga	1,316	1.8	54,838	73.4	526	0.7	351	0.5	175	0.2	263	0.4
Morogoro Urban	124	1.1	8,974	77.1	35	0.3	0	0.0	0	0.0	35	0.3
Mvomero	837	0.7	93,502	75.3	1,256	1.0	279	0.2	140	0.1	279	0.2
Total	7,484	1.3	451,743	77.6	3,361	0.6	2,314	0.4	455	0.1	867	0.1

cont 3.12: 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	%
Kilosa	1,041	0.7	208	0.1	3,957	2.5	0	0.0	0	0.0	0	0.0
Morogoro Rural	140	0.1	140	0.1	983	0.9	0	0.0	140	0.1	140	0.1
Kilombero	2,023	1.8	289	0.3	2,601	2.3	0	0.0	144	0.1	1,445	1.3
Ulanga	1,316	1.8	88	0.1	1,141	1.5	0	0.0	88	0.1	614	0.8
Morogoro Urban	142	1.2	53	0.5	354	3.0	0	0.0	35	0.3	0	0.0
Mvomero	698	0.6	558	0.4	2,233	1.8	0	0.0	0	0.0	140	0.1
Total	5,360	0.9	1,337	0.2	11,268	1.9	0	0.0	408	0.1	2,339	0.4

cont 3.12: 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	%
Kilosa	208	0.1	2,083	1.3	833	0.5	156,207	100
Morogoro Rural	0	0.0	1,544	1.5	0	0.0	103,617	100
Kilombero	144	0.1	144	0.1	289	0.3	111,828	100
Ulanga	0	0.0	351	0.5	88	0.1	74,755	100
Morogoro Urban	53	0.5	230	2.0	18	0.2	11,647	100
Mvomero	0	0.0	1,116	0.9	698	0.6	124,204	100
Total	406	0.1	5,469	0.9	1,925	0.3	582,257	100

3.13: 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	%
Kilosa	188,906	55	15,204	4	59,983	18	76,437	22	340,530	100
Morogoro Rural	128,889	56	8,003	4	33,697	15	57,565	25	228,154	100
Kilombero	124,976	50	9,680	4	42,044	17	72,963	29	249,663	100
Ulanga	85,722	50	3,422	2	32,815	19	48,433	28	170,392	100
Morogoro Urban	12,019	49	2,142	9	3,575	15	6,850	28	24,586	100
Mvomero	133,693	54	9,629	4	30,423	12	72,010	29	245,756	100
Total	674,205	54	48,080	4	202,537	16	334,258	27	1,259,080	100

3.14: 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	%
Kilosa	186,615	55	7,081	2	208	0	208	0	208	0
Morogoro Rural	129,732	57	1,685	1	2,808	1	0	0	0	0
Kilombero	126,421	51	722	0	0	0	1,589	1	0	0
Ulanga	88,793	52	88	0	0	0	351	0	0	0
Morogoro Urban	12,319	50	920	4	18	0	142	1	0	0
Mvomero	141,508	58	2,233	1	1,256	1	0	0	0	0
Total	685,388	54	12,730	1	4,290	0	2,290	0	208	0

Cont. 3.14: 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	%
Kilosa	2,291	1	1,458	0	2,291	1	2,083	1	1,874	1
Morogoro Rural	702	0	842	0	3,931	2	0	0	1,404	1
Kilombero	2,167	1	578	0	2,167	1	1,300	1	289	0
Ulanga	965	1	439	0	439	0	1,316	1	263	0
Morogoro Urban	195	1	425	2	89	0	372	2	177	1
Mvomero	977	0	977	0	279	0	419	0	2,652	1
Total	7,297	1	4,719	0	9,196	1	5,490	0	6,659	1

3.15: Number of Agricultural Households Involved in Off farm Income Generating Activities by Number of Off farm Income Activities and District , 2007/08 Agricultural Year

District	One Off Farm Income		Two Off Farm Income		More than two Off Farm Income		Total	
	Number	%	Number	%	Number	%	Number	%
Kilosa	22,910	64	9,789	27	2,916	8	35,615	100
Morogoro Rural	14,040	57	7,020	29	3,370	14	24,430	100
Kilombero	19,360	65	7,946	27	2,601	9	29,907	100
Ulanga	9,564	70	2,808	21	1,316	10	13,688	100
Morogoro Urban	1,664	49	1,274	38	425	13	3,363	100
Mvomero	12,699	66	4,326	23	2,093	11	19,119	100
Total	80,238	64	33,164	26	12,720	10	126,122	100

3.16: Number of Heads of Agricultural Households by Level of Formal Education Completion and District , 2007/08 Agricultural Year

District	Primary Education		Post Primary Education		Adult Education		No Education		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%
Kilosa	58,109	69	3,541	4	1,458	2	21,244	25	84,352	100
Morogoro Rural	41,559	73	983	2	1,264	2	13,057	23	56,863	100
Kilombero	47,245	81	3,612	6	144	0	7,513	13	58,515	100
Ulanga	28,603	80	2,544	7	175	0	4,212	12	35,535	100
Morogoro Urban	4,691	71	354	5	106	2	1,487	22	6,638	100
Mvomero	44,239	78	2,233	4	419	1	9,629	17	56,520	100
Total	224,446	75	13,267	4	3,566	1	57,142	19	298,421	100

3.17: Population, Number of households and Average Rural Household Size by District and District , 2007/08 Agricultural Year

District	Male Headed	Female headed Households	Total Number of Households	Female Population	Male Population	Total Population	Average Household Size
Kilosa	63,941	20,411	84,352	195,154	192,655	387,809	4.60
Morogoro Rural	43,805	13,057	56,863	125,800	124,396	250,197	4.40
Kilombero	50,424	8,091	58,515	139,857	139,857	279,715	4.78
Ulanga	29,569	5,966	35,535	96,163	100,551	196,714	5.54
Morogoro Urban	5,434	1,204	6,638	13,877	13,665	27,542	4.15
Mvomero	45,914	10,606	56,520	139,973	129,925	269,899	4.78
Total	239,086	59,335	298,421	710,826	701,049	1,411,875	4.73

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

District	Crop/Seaweed Farming		Livestock Keeping / Herding		Fishing		Employment		Other		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Kilosa	77,895	92	1,874	2	208	0	3,124	4	1,250	1	84,352	100
Morogoro Rural	53,353	94	842	1	0	0	2,106	4	562	1	56,863	100
Kilombero	54,036	92	144	0	578	1	3,323	6	433	1	58,515	100
Ulanga	33,341	94	0	0	175	0	1,755	5	263	1	35,535	100
Morogoro Urban	5,576	84	230	3	124	2	584	9	124	2	6,638	100
Mvomero	53,868	95	977	2	0	0	1,535	3	140	0	56,520	100
Total	278,069	93	4,068	1	1,086	0	12,427	4	2,771	1	298,421	100

LAND ACCESS/ OWNERSHIP/ TENURE

4.1: Number of Farming Households by Type of Land Ownership/Tenure and District for the 2007/08 Agriculture Year

District	Land ownership/tenure														
	Leased / Certificate of Ownership		Owned under Customary Law		Bought		Rented		Borrowed		Households with area Share - cropped		Households with area under Other forms of Tenure		Total number of households
	Number of Households	%	Number of Households	%	Number of Households	%	Number of Households	%	Number of Households	%	Number of Households	%	Number of Households	%	
Kilosa	5,415	6.4	62,691	74.3	13,330	15.8	21,869	25.9	3,749	4.4	208	0.2	1,250	1.5	84,352
Morogoro Rural	3,510	6.2	44,086	77.5	8,845	15.6	4,914	8.6	3,370	5.9	0	0.0	842	1.5	56,863
Kilombero	9,102	15.6	32,364	55.3	19,216	32.8	13,148	22.5	5,057	8.6	289	0.5	1,445	2.5	58,515
Ulanga	5,177	14.6	30,972	87.2	2,457	6.9	6,493	18.3	1,667	4.7	263	0.7	2,983	8.4	35,535
Morogoro Urban	832	12.5	4,177	62.9	1,292	19.5	991	14.9	195	2.9	35	0.5	124	1.9	6,638
Mvomero	5,443	9.6	38,657	68.4	19,259	34.1	7,955	14.1	3,489	6.2	140	0.2	1,116	2.0	56,520
Total	29,479	9.9	212,947	71.4	64,398	21.6	55,369	18.6	17,526	5.9	935	0.3	7,760	2.6	298,421

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

District	Land Ownership/Tenure (Hectare)							
	Area leased / Certificate of Ownership	Area owned under Customary Law	Area Bought	Area rented	Area Borrowed	Area Share - cropped	Area under Other forms of Tenure	Total area (ha)
Kilosa	8,748	119,510	20,933	24,179	2,382	169	1,855	177,776
Morogoro Rural	4,007	65,604	9,408	5,514	2,188	0	1,279	88,000
Kilombero	20,751	70,459	36,500	11,289	5,586	526	13,205	158,317
Ulanga	11,549	63,934	2,993	4,955	1,079	195	3,122	87,827
Morogoro Urban	5,733	6,308	3,746	751	136	11	36	16,720
Mvomero	24,719	67,940	31,866	5,791	2,387	2,825	1,243	136,771
Total	75,507	393,755	105,446	52,480	13,759	3,726	20,740	665,412

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 Household Used During 2007/08?				
	Yes	%	No	%	Total
Kilosa	62,899	75	21,452	25	84,352
Morogoro Rural	42,542	75	14,321	25	56,863
Kilombero	36,987	63	21,528	37	58,515
Ulanga	24,567	69	10,968	31	35,535
Morogoro Urban	4,779	72	1,859	28	6,638
Mvomero	41,448	73	15,072	27	56,520
Total	213,222	71	85,199	29	298,421

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
Kilosa	32,699	39	51,652	61	84,352
Morogoro Rural	23,166	41	33,697	59	56,863
Kilombero	21,094	36	37,420	64	58,515
Ulanga	12,196	34	23,339	66	35,535
Morogoro Urban	3,044	46	3,593	54	6,638
Mvomero	21,212	38	35,307	62	56,520
Total	113,412	38	185,009	62	298,421

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
Kilosa	21,244	25	63,107	75	84,352
Morogoro Rural	24,430	43	32,433	57	56,863
Kilombero	17,482	30	41,033	70	58,515
Ulanga	10,792	30	24,743	70	35,535
Morogoro Urban	3,133	47	3,505	53	6,638
Mvomero	24,422	43	32,098	57	56,520
Total	101,503	34	196,918	66	298,421

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	Households under Natural Bush	Households under Planted Trees	Households Rented to Others	Households Unusable	Households of Uncultivated Usable Land	Total number of households
Kilosa	73,938	10,622	6,457	1,250	1,874	417	12,705	1,250	1,041	1,874	2,291	7,081	84,352
Morogoro Rural	45,209	13,759	9,828	4,774	3,229	140	6,037	0	0	421	0	5,054	56,863
Kilombero	55,625	5,635	9,825	3,612	2,601	4,912	8,958	144	722	3,612	2,312	7,946	58,515
Ulanga	27,638	10,880	7,370	3,773	5,791	439	5,703	1,930	702	2,281	965	2,018	35,535
Morogoro Urban	5,522	1,115	2,177	389	354	230	655	71	71	142	159	761	6,638
Mvomero	47,309	9,908	8,373	4,047	7,955	1,535	6,280	419	1,396	1,675	977	7,536	56,520
Total	255,242	51,920	44,030	17,845	21,804	7,673	40,338	3,814	3,932	10,005	6,704	30,397	298,421

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)
Kilosa	113,354	20,174	5,628	464	1,939	590	16,991	1,265	801	3,542	4,553	8,474	177,776
Morogoro Rural	47,322	10,857	5,705	2,886	2,089	1,705	6,366	.	.	171	.	10,899	88,000
Kilombero	86,601	6,142	8,116	2,238	4,112	17,095	14,784	877	907	4,563	3,802	9,081	158,317
Ulanga	55,811	9,226	1,915	1,131	4,180	1,030	6,968	1,525	578	2,496	1,083	1,884	87,827
Morogoro Urban	5,589	929	1,492	345	300	3,757	763	864	21	64	79	2,517	16,720
Mvomero	62,085	10,465	7,538	2,979	10,095	15,311	15,269	508	274	2,599	424	9,224	136,771
Total	370,762	57,793	30,394	10,043	22,715	39,489	61,141	5,039	2,581	13,434	9,941	42,079	665,412

ANNUAL CROP AND VEGETABLE PRODUCTION

5.1: Number of Household Members Owning Most of the Crop by Sex of the Main Owner and District for the Agriculture Year 2007/08 Short and Long Rain Season

District	SHORT RAINY SEASON						LONG RAINY SEASON					
	Male		Female		Total		Male		Female		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Kilosa	39,781	76.4	12,288	23.6	52,069	100.0	34,157	67.5	16,454	32.5	50,611	100
Morogoro Rural	22,605	67.9	10,671	32.1	33,275	100.0	28,080	74.1	9,828	25.9	37,909	100
Kilombero	35,253	81.6	7,946	18.4	43,200	100.0	30,341	79.2	7,946	20.8	38,287	100
Ulanga	24,392	75.5	7,897	24.5	32,288	100.0	14,302	76.2	4,475	23.8	18,776	100
Morogoro Urban	1,451	66.1	743	33.9	2,195	100.0	4,390	73.8	1,558	26.2	5,947	100
Mvomero	22,329	74.1	7,815	25.9	30,144	100.0	37,959	78.4	10,467	21.6	48,425	100
Total	145,811	75.5	47,360	24.5	193,171	100.0	149,229	74.6	50,727	25.4	199,956	100

5.2: Planted Area by District Season and Sex of Household Members Owning Most of the Crop for the Agriculture Year 2007/08 Long Season

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)	%
Kilosa	53,498	76.4	12,214	23.6	65,712	100.0	55,383	67.5	17,181	32.5	72,563	100
Morogoro Rural	16,787	67.9	7,972	32.1	24,760	100.0	31,764	74.1	8,278	25.9	40,042	100
Kilombero	52,589	81.6	7,089	18.4	59,679	100.0	42,818	79.2	5,615	20.8	48,433	100
Ulanga	47,261	75.5	6,976	24.5	54,237	100.0	14,203	76.2	2,470	23.8	16,673	100
Morogoro Urban	1,103	66.1	401	33.9	1,504	100.0	4,409	73.8	1,015	26.2	5,424	100
Mvomero	24,664	74.1	6,618	25.9	31,283	100.0	47,093	78.4	8,163	21.6	55,256	100
Total	195,903	75.5	41,271	24.5	237,174	100.0	195,670	74.6	42,722	25.4	238,392	100

5.3: Planted Area By Crop And Sex Of Household Members Owning Most Of The Crop For The Agriculture Year 2007/08 Short and Long Rain Season- Morogoro Total

Crop	SHORT RAINY SEASON				LONG RAINY SEASON			
	Male		Female		Male		Female	
	Number	Planted Area	Number	Planted Area	Number	Planted Area	Number	Planted Area
Maize	116,790	99,793	32,230	20,646	94,600	89,272	28,974	22,665
Paddy	58,016	74,089	19,050	13,684	58,285	70,157	18,782	11,831
Sorghum	5,984	3,047	1,885	956	11,981	6,143	3,168	1,383
Bulrush Millet	208	253	0	0	0	0	0	0
Wheat	0	0	0	0	140	28	0	0
CEREALS	180,998	177,183	53,165	35,287	165,006	165,601	50,925	35,879
Cassava	596	124	208	42	53	14	0	0
Sweet Potatoes	1,770	783	1,236	417	6,417	2,933	3,151	993
Irish potatoes	140	14	140	56	1,413	487	419	99
Yams	0	0	36	3	18	6	0	0
Coco Yam	297	80	175	20	823	431	176	71
ROOTS & TUBERS	2,803	1,001	1,795	539	8,725	3,871	3,746	1,162
Mung Bean	651	734	296	120	348	225	0	0
Beans	10,314	4,935	5,926	2,289	14,191	6,509	4,762	1,737
Cowpeas	5,037	1,837	1,874	337	8,047	2,510	2,714	857
Green gram	1,259	325	88	18	876	422	88	36
Chick peas	0	0	0	0	140	28	0	0
Bambaranuts	910	225	88	11	88	4	0	0
Field Peas	558	127	558	85	977	212	1,116	190
PULSES	18,730	8,184	8,831	2,859	24,667	9,910	8,681	2,819
Sunflower	1,754	1,924	769	931	3,500	2,083	1,002	323
Simsim	8,569	4,439	1,659	493	20,096	10,763	4,989	1,881
Groundnut	2,619	1,397	1,113	461	2,047	537	552	81
Soya Beans	12,943	7,760	3,542	1,886	25,643	13,382	6,543	2,285
OIL SEEDS & OIL NUTS	1,088	380	695	151	333	69	88	9

**Cont. 5.3: Planted Area By Crop And Sex Of Household Members Owning Most Of The Crop For
The Agriculture Year 2007/08 Short And Long Rain Season- Morogoro Total**

Crop	SHORT RAINY SEASON				LONG RAINY SEASON			
	Male		Female		Male		Female	
	Number	Planted Area	Number	Planted Area	Number	Planted Area	Number	Planted Area
Okra	105	11	0	0	175	11	88	9
Bitteer Aubergine	1,069	236	144	15	826	208	487	63
Onion	144	15	140	57	1,342	346	0	0
Ginger	88	18	0	0	263	14	0	0
Cabbage	684	162	0	0	1,277	185	472	50
Tomatoes	1,930	490	284	71	3,266	1,372	1,010	395
Spinach	460	47	198	22	0	0	0	0
Carrot	193	50	0	0	629	140	0	0
Chillies	494	119	521	53	612	119	140	28
Amaranths	570	86	533	126	246	13	175	13
Pumpkins	246	23	817	174	35	7	0	0
Cucumber	18	4	18	4	245	32	88	9
Egg Plant	180	20	289	29	0	0	0	0
Water Mellon	1,127	214	88	9	2,316	264	614	58
FRUITS & VEGETABLES	6,467	1,510	3,551	692	7,443	2,543	1,934	519
Cotton	0	0	0	0	0	0	0	0
Tobacco	208	84	0	0	857	262	0	0
CASH CROPS	48,027	47,346	12,722	6,976	27,881	14,430	6,317	2,470
Total	175,294	148,642	58,248	34,295	207,247	181,467	66,125	40,252

5.4: 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)		
Kilosa	49,153	65,712	48,945	72,563	138,275	47.52
Morogoro Rural	31,169	24,760	36,364	40,042	64,802	38.21
Kilombero	41,321	59,679	37,565	48,433	108,112	55.20
Ulanga	30,007	54,237	17,811	16,673	70,911	76.49
Morogoro Urban	2,124	1,504	5,664	5,424	6,928	21.70
Mvomero	28,888	31,283	47,309	55,256	86,539	36.15
Total	182,663	237,174	193,658	238,392	475,566	49.87

5.5: 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	
Kilosa	49,153	35,199	48,945	35,407	84,352
Morogoro Rural	31,169	25,694	36,364	20,499	56,863
Kilombero	41,321	17,193	37,565	20,950	58,515
Ulanga	30,007	5,528	17,811	17,724	35,535
Morogoro Urban	2,124	4,514	5,664	974	6,638
Mvomero	28,888	27,632	47,309	9,211	56,520
Total	182,663	115,758	193,658	104,763	298,421

5.6: Area Planted (ha) and Quantity Harvested by Season and Crop for the 2007/08 Agriculture Year - MOROGORO TOTAL

Crop	SHORT RAINY SEASON			LONG RAINY SEASON			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	120,439	121,209	1.0	111,937	117,226	1.0	232,377	238,435	1.0
Paddy	87,774	160,938	1.8	81,988	133,777	1.6	169,762	294,715	1.7
Sorghum	4,004	2,668	0.7	7,526	6,513	0.9	11,530	9,181	0.8
Bulrush Millet	253	31	0.1	0	0	0.0	253	31	0.1
Wheat	0	0	0.0	28	21	0.7	28	21	0.7
CEREALS	212,470	284,846	1.3	201,479	257,537	1.3	413,949	542,383	1.3
Cassava	—	—	—	10,646	23,804	2.2	10,646	23,804	2.2
Sweet Potato	1,200	2,625	2.2	3,925	13,659	3.5	5,125	16,284	3.2
Irish potatoes	71	209	3.0	586	1,502	2.6	657	1,712	2.6
Yams	3	4	1.3	6	8	1.3	10	12	1.2
Coco Yam	100	108	1.1	501	327	0.7	602	435	0.7
ROOTS & TUBERS	1,374	3,121	2.0	15,665	39,300	2.5	17,039	42,246	2.5
Mung Bean	854	682	0.8	225	130	0.6	1,079	811	0.8
Beans	7,224	4,360	0.6	8,245	5,048	0.6	15,469	9,408	0.6
Cowpeas	2,174	1,048	0.5	3,367	2,216	0.7	5,541	3,264	0.6
Green gram	343	225	0.7	458	238	0.5	801	463	0.6
Chick peas	0	0	0.0	28	14	0.5	28	14	0.5
Bambaranuts	236	102	0.4	4	5	1.5	239	107	0.4
Field Peas	212	214	1.0	402	288	0.7	614	501	0.8
PULSES	11,042	6,630	0.6	12,730	7,939	0.6	23,772	14,569	0.6
Sunflower	2,855	1,475	0.5	2,405	1,628	0.7	5,260	3,103	0.6
Simsim	4,932	1,817	0.4	12,645	4,854	0.4	17,577	6,671	0.4
Groundnut	1,859	815	0.4	617	353	0.6	2,476	1,168	0.5
OIL SEEDS & OIL NUTS	9,646	4,107	0.4	15,667	6,834	0.4	25,313	10,942	0.4
Okra	531	591	1.1	78	90	1.2	609	681	1.1
Radish	2	5	3.0	0	0	0.0	2	5	3.0
Bitteer									
Aubergine	211	1,098	5.2	282	1,211	4.3	493	2,308	4.7
Onion	119	234	2.0	320	1,472	4.6	439	1,706	3.9
Ginger	0	0	0.0	36	18	0.5	36	18	0.5
Cabbage	126	741	5.9	184	682	3.7	310	1,422	4.6
Tomatoes	614	4,770	7.8	1,828	9,611	5.3	2,442	14,381	5.9
Spinach	68	366	5.4	3	9	2.9	72	376	5.3
Carrot	50	592	11.9	140	862	6.2	190	1,453	7.7
Chillies	163	446	2.7	145	470	3.2	308	916	3.0
Amaranths	204	431	2.1	12	107	8.8	216	538	2.5
Pumpkins	214	932	4.4	24	168	7.0	238	1,100	4.6
Cucumber	7	43	6.0	30	143	4.8	37	186	5.0
Egg Plant	49	70	1.4	11	15	1.4	60	85	1.4
Water Mellon	33	32	1.0	128	659	5.1	161	691	4.3
FRUITS & VEGETABLES	2,391	10,352	4.3	3,220	15,515	4.8	5,612	25,867	4.6
Cotton	0	0	0.0	36	44	1.2	36	44	1.2
Tobacco	84	23	0.3	227	85	0.4	311	108	0.3
CASH CROPS	84	23	0.3	262	129	0.5	347	152	0.4
Total	237,007	309,080	1.3	249,023	303,466	1.3	486,032	612,546	1.3

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

Crop	SHORT RAINY SEASON		LONG RAINY SEASON		SHORT & LONG SEASON	
	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)
Maize	149,020	120,439	123,575	111,937	272,594	232,377
Paddy	77,066	87,774	77,067	81,988	154,132	169,762
Sorghum	7,869	4,004	15,150	7,526	23,019	11,530
Bulrush Millet	208	253	0	0	208	253
Wheat	0	0	140	28	140	28
CEREALS	234,163	212,470		201,479		413,949
Cassava	–	–	28,535	10,646	28,535	10,646
Sweet Potato	3,007	1,200	9,568	3,925	12,575	5,125
Irish potatoes	279	71	1,832	586	2,111	657
Yams	36	3	18	6	53	10
Coco Yam	472	100	999	501	1,471	602
ROOTS & TUBERS	4,597	1,540		15,665		17,039
Mung Bean	947	854	348	225	1,295	1,079
Beans	16,240	7,224	18,953	8,245	35,194	15,469
Cowpeas	6,911	2,174	10,761	3,367	17,672	5,541
Green gram	1,347	343	964	458	2,311	801
Chick peas	0	0	140	28	140	28
Bambaranuts	998	236	88	4	1,086	239
Field Peas	1,116	212	2,093	402	3,210	614
PULSES	27,560	11,042		12,730		23,772
Sunflower	2,523	2,855	4,503	2,405	7,026	5,260
Simsim	10,228	4,932	25,085	12,645	35,313	17,577
Groundnut	3,733	1,859	2,599	617	6,332	2,476
OIL SEEDS & OIL NUTS	16,484	9,646		15,667		25,313
Okra	1,783	531	420	78	2,203	609
Radish	18	2	0	0	18	2
Bitteer Aubergine	951	211	1,314	282	2,264	493
Onion	636	119	1,517	320	2,153	439
Ginger	0	0	88	36	88	36
Cabbage	508	126	1,311	184	1,819	310
Tomatoes	2,477	614	4,803	1,828	7,280	2,442
Spinach	657	68	175	3	833	72
Carrot	193	50	629	140	822	190
Chillies	928	163	576	145	1,504	308
Amaranths	1,103	204	246	12	1,349	216
Pumpkins	1,150	214	386	24	1,537	238
Cucumber	35	7	157	30	193	37
Egg Plant	469	49	175	11	644	60
Water Mellon	162	33	210	128	373	161
FRUITS & VEGETABLES	11,070	2,391		3,220		5,612
Cotton	0	0	88	36	88	36
Tobacco	208	84	769	227	977	311
CASH CROPS	208	84		262		347
Total	294,083	237,174		238,392		475,566

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

District	Maize				Paddy				Sorghum			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Kilosa	43,113	49,434	44,953.34	0.91	10,205	6,729	10,026.59	1.49	3,332	1,767	814.36	0.46
Morogoro Rural	28,361	15,556	8,926.21	0.57	11,934	5,882	5,079.47	0.86	842	341	292.04	0.86
Kilombero	24,851	17,370	25,463.99	1.47	27,162	39,057	77,230.83	1.98	289	292	194.18	0.66
Ulanga	25,357	15,519	21,302.58	1.37	25,006	34,871	66,585.76	1.91	614	307	386.67	1.26
Morogoro Urban	1,381	986	1,680.98	1.70	106	63	63.01	1.00	0	.	.	.
Mvomero	25,957	21,574	18,881.75	0.88	2,652	1,172	1,952.65	1.67	2,791	1,297	980.37	0.76
Total	149,020	120,439	121,208.85	1.01	77,066	87,774	160,938.31	1.83	7,869	4,004	2,667.62	0.67

Cont. 5.8: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08

District	Finger Millet				Wheat				Bulrush 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)
Kilosa	0	0	.00	0.0	0	.	.	.	208	253	31.24	0.12
Morogoro Rural	0	0	.00	0.0	0	.	.	.	0	.	.	.
Kilombero	0	0	.00	0.0	0	.	.	.	0	.	.	.
Ulanga	0	0	0	0.0	0	.	.	.	0	.	.	.
Morogoro Urban	0	0	0	0.0	0	.	.	.	0	.	.	.
Mvomero	0	0	0	0.0	0	.	.	.	0	.	.	.
Total	0	0	.00	0.0	0	.	.	.	208	253	31.24	0.12

**Cont. 5.8: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON
Agricultural Year 2007/08**

District	Barley				Seaweed				Cassava			
	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)
Kilosa	0	0	0	0	0	.	.	.				
Morogoro Rural	0	0	.00	0.0	0	.	.	.				
Kilombero	0	0	0	0	0	.	.	.				
Ulanga	0	0	0	0	0	.	.	.				
Morogoro Urban	0	0	0	0	0	0	.00	-				
Mvomero	0	0	0	0	0	.	.	.				
Total	0	0	0	0	0	0	.00	-				

**Cont. 5.8: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON
Agricultural Year 2007/08**

District	Sweet Potatoes				Irish potatoes				Yams			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Kilosa	833	590	896	1.5	0	.	.	.	0	.	.	.
Morogoro Rural	0	.	.	.	0	.	.	.	0	.	.	.
Kilombero	1,156	357	1,442	4.0	0	.	.	.	0	.	.	.
Ulanga	790	213	180	0.8	0	.	.	.	0	.	.	.
Morogoro Urban	89	11	65	5.7	0	.	.	.	36	3	3.72	1.24
Mvomero	140	28	42	1.5	279	71	209	3.0	0	.	.	.
Total	3,007	1,200	2,625	2.2	279	71	209	3.0	18	1	1.65	1.15

**Cont. 5.8: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON
Agricultural Year 2007/08**

District	Coco Yam				Mung Bean				Beans			
	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)
Kilosa	0	.	.	.	417	152	58	0.4	1,666	852	425	0.5
Morogoro Rural	0	.	.	.	281	341	67	0.2	2,387	1,301	827	0.6
Kilombero	0	.	.	.	144	322	542	1.7	289	88	94	1.1
Ulanga	0	.	.	.	88	36	5	0.1	2,808	562	467	0.8
Morogoro Urban	53	15	19	1.2	18	4	9	2.5	159	57	22	0.4
Mvomero	419	85	90	1.1	0	.	.	.	8,932	4,364	2,526	0.6
Total	472	100	108	1.1	947	854	682	0.8	16,240	7,224	4,360	0.6

**Cont. 5.8: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON
Agricultural Year 2007/08**

District	Cowpeas				Green gram				Chick 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)
Kilosa	625	101	64	0.6	0	.	.	.	0	0	0	0
Morogoro Rural	842	133	45	0.3	562	99	15	0.2	0	0	.00	.00
Kilombero	289	88	40	0.5	0	.	.	.	0	0	0	0
Ulanga	614	198	144	0.7	88	18	9	0.5	0	0	.00	.00
Morogoro Urban	354	77	74	1.0	0	.	.	.	0	0	0	0
Mvomero	4,187	1,578	681	0.4	698	226	201	0.9	0	0	0	0
Total	6,911	2,174	1,048	0.5	1,347	343	225	0.7	0	0	0	0

**Cont. 5.8: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON
Agricultural Year 2007/08**

District	Bambaranuts				Field Peas				Sunflower			
	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)
Kilosa	208	42	12	0.3	0	.	.	.	2,291	2,235	781	0.3
Morogoro Rural	0	.	.	.	0	.	.	.	0	.	.	.
Kilombero	0	.	.	.	0	.	.	.	144	88	72	0.8
Ulanga	790	194	89	0.5	0	.	.	.	88	533	621	1.2
Morogoro Urban	0	.	.	.	0	.	.	.	0	.	.	.
Mvomero	0	.	.	.	1,116	212	214	1.0	0	.	.	.
Total	998	236	102	0.4	1,116	212	214	1.0	2,523	2,855	1,475	0.5

**Cont. 5.8: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON
Agricultural Year 2007/08**

District	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)
Kilosa	3,749	1,514	576	0.4	1,874	1,307	431	0.3	0	0	0	0
Morogoro Rural	2,387	950	229	0.2	0	.	.	.	0	0	.00	.00
Kilombero	2,023	1,228	441	0.4	578	175	204	1.2	0	0	0	0
Ulanga	1,930	1,226	557	0.5	1,141	320	180	0.6	0	0	0	0
Morogoro Urban	0	.	.	.	0	.	.	.	0	0	0	0
Mvomero	140	14	14	1.0	140	56	.	.	0	0	0	0
Total	10,228	4,932	1,817	0.4	3,733	1,859	815	0.4	0	0	0	0

**Cont. 5.8: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON
Agricultural Year 2007/08**

District	Castor Fung				Okra				Radish			
	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)
Kilosa	0	0	0	0	625	139	48	0.3	0	.	.	.
Morogoro Rural	0	0	0	0	140	28	5	0.2	0	.	.	.
Kilombero	0	0	0	0	578	234	337	1.4	0	.	.	.
Ulanga	0	0	0	0	88	36	88	2.5	0	.	.	.
Morogoro Urban	0	0	0	0	212	38	55	1.5	18	2	5	3.0
Mvomero	0	0	0	0	140	56	59	1.0	0	.	.	.
Total	0	0	0	0	1,783	531	591	1.1	18	2	5	3.0

**Cont. 5.8: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural
Year 2007/08**

District	Turmeric				Bitter Aubergine				Kothmir			
	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)
Kilosa	0	0	0	0	417	126	1,052	8.3	0	0	0	0
Morogoro Rural	0	0	.00	.00	0	.	.	.	0	0	0	0
Kilombero	0	0	0	0	289	44	22	0.5	0	0	0	0
Ulanga	0	0	0	0	88	9	14	1.6	0	0	0	0
Morogoro Urban	0	0	0	0	18	4	3	0.7	0	0	0	0
Mvomero	0	0	0	0	140	28	7	0.2	0	0	0	0
Total	0	0	.00	.00	951	211	1,098	5.2	0	0	0	0

**Cont. 5.8: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON
Agricultural Year 2007/08**

District	Onion				Ginger				Zukkin			
	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)
Kilosa	0	.	.	.	0	.	.	.	0	0	0	0
Morogoro Rural	140	57	.00	-	0	.	.	.	0	0	0	0
Kilombero	144	15	17.34	1.19	0	.	.	.	0	0	0	0
Ulanga	351	48	216.98	4.52	0	.	.	.	0	0	0	0
Morogoro Urban	0	.	.	.	0	.	.	.	0	0	0	0
Mvomero	0	.	.	.	0	.	.	.	0	0	0	0
Total	636	119	234.32	1.96	0	.	.	.	0	0	0	0

**Cont. 5.8: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON
Agricultural Year 2007/08**

District	Star Fruit				Cabbage				Tomatoes			
	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)
Kilosa	0	0	0	0	0	.	.	.	417	177	1,327.76	7.50
Morogoro Rural	0	0	0	0	0	.	.	.	0	.	.	.
Kilombero	0	0	0	0	0	.	.	.	433	44	86.69	1.98
Ulanga	0	0	0	0	88	18	26.32	1.48	263	53	466.08	8.75
Morogoro Urban	0	0	0	0	142	38	238.07	6.33	248	71	887.03	12.44
Mvomero	0	0	0	0	279	71	476.44	6.75	1,116	268	2,002.61	7.46
Total	0	0	0	0	508	126	740.83	5.88	2,477	614	4,770.16	7.77

**Cont. 5.8: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON
Agricultural Year 2007/08**

District	Spinach				Carrot				Chillies			
	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)
Kilosa	0	.	.	.	0	.	.	.	0	.	.	.
Morogoro Rural	140	14	210.60	14.82	0	.	.	.	0	.	.	.
Kilombero	289	29	47.68	1.63	0	.	.	.	578	58	80.91	1.38
Ulanga	0	.	.	.	0	.	.	.	0	.	.	.
Morogoro Urban	89	11	66.22	6.16	53	21	33.63	1.56	71	34	239.82	7.05
Mvomero	140	14	41.87	2.96	140	28	558.22	19.76	279	71	125.60	1.78
Total	657	68	366.37	5.36	193	50	591.85	11.90	928	163	446.33	2.74

**Cont. 5.8: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON
Agricultural Year 2007/08**

District	Amaranth				Pumpkins				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)
Kilosa	208	84	41.66	0.49	208	84	187.45	2.22	0	.	.	.
Morogoro Rural	140	14	17.55	1.24	0	.	.	.	0	.	.	.
Kilombero	578	58	44.79	0.77	433	58	72.24	1.24	0	.	.	.
Ulanga	88	9	7.02	0.79	88	18	43.87	2.47	0	.	.	.
Morogoro Urban	89	38	319.93	8.50	142	14	209.75	15.01	35	7	42.66	5.95
Mvomero	0	.	.	.	279	40	418.66	10.59	0	.	.	.
Total	1,103	204	430.95	2.12	1,150	214	931.97	4.35	35	7	42.66	5.95

**Cont. 5.8: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON
Agricultural Year 2007/08**

District	Egg Plant				Water Mellon				Cotton			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Kilosa	0	.	.	.	0	.	.	.	0	.	.	.
Morogoro Rural	0	.	.	.	0	.	.	.	0	.	.	.
Kilombero	433	44	59.24	1.35	144	29	23.12	0.79	0	.	.	.
Ulanga	0	.	.	.	0	.	.	.	0	.	.	.
Morogoro	35	5	10.85	2.02	18	4	8.85	2.47	0	.	.	.
Urban	0	.	.	.	0	.	.	.	0	0	0	0
Mvomero	0	.	.	.	0	.	.	.	0	0	0	0
Total	469	49	70.09	1.42	162	33	31.97	0.97	0	0	0	0

**Cont. 5.8: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON
Agricultural Year 2007/08**

District	Tobacco				Pyrethrum				Jute			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Kilosa	208	84	22.91	0.27	0	0	0	0	0	0	0	0
Morogoro Rural	0	.	.	.	0	0	0	0	0	0	0	0
Kilombero	0	.	.	.	0	0	0	0	0	0	0	0
Ulanga	0	.	.	.	0	0	0	0	0	0	0	0
Morogoro	0	0	.00	-	0	0	0	0	0	0	0	0
Urban	0	0	0	0	0	0	0	0	0	0	0	0
Mvomero	0	0	0	0	0	0	0	0	0	0	0	0
Total	208	84	22.91	0.27	0	0	0	0	0	0	.00	.00

Cont. 5.8: Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08

District	Malay			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Kilosa	0	0	0	0
Morogoro Rural	0	0	0	0
Kilombero	0	0	0	0
Ulanga	0	0	0	0
Morogoro Urban	0	0	0	0
Mvomero	0	0	0	0
Total	0	0	0	0

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

District	Maize				Paddy				Sorghum			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Kilosa	39,989	48,751	42,879	0.88	12,080	13,850	21,103	1.52	1,250	683	527	0.77
Morogoro Rural	27,940	17,751	18,239	1.03	14,040	7,296	6,699	0.92	10,530	5,428	4,272	0.79
Kilombero	10,981	6,303	8,801	1.40	29,763	41,151	78,089	1.90	0	.	.	.
Ulanga	6,931	3,622	4,025	1.11	6,581	6,980	9,632	1.38	351	101	41	0.41
Morogoro Urban	4,938	3,860	4,072	1.05	1,345	717	611	0.85	89	57	38	0.65
Mvomero	32,795	31,651	39,211	1.24	13,258	11,995	17,642	1.47	2,931	1,257	1,635	1.30
Total	123,575	111,937	117,226	1.05	77,067	81,988	133,777	1.63	15,150	7,526	6,513	0.87

Cont. 5.9: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) during Long Rainy SEASON Agricultural Year 2007/08

District	Bulrush Millet				Finger Millet				Wheat			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Kilosa	0	.	.	.	0	0	.00	-	0	.	.	.
Morogoro Rural	0	.	.	.	0	0	.00	-	0	.	.	.
Kilombero	0	.	.	.	0	0	.00	-	0	.	.	.
Ulanga	0	.	.	.	0	0	.00	-	0	.	.	.
Morogoro Urban	0	.	.	.	0	0	.00	-	0	.	.	.
Mvomero	0	.	.	.	0	0	.00	-	140	28	20.93	0.74
Total	0	.	.	.	0	0	.00	-	140	28	20.93	0.74

Cont. 5.9: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) during Long Rainy SEASON Agricultural Year 2007/08

District	Barley				Seaweed				Cassava			
	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)
Kilosa	0	0	.00	-	0	.	.	.	1,041	211	417	2.0
Morogoro	0	0	.00	-	0	.	.	.	8,845	3,882	7,202	1.9
Kilombero	0	0	.00	-	0	.	.	.	3,323	1,026	3,938	3.8
Ulanga	0	0	.00	-	0	.	.	.	6,931	2,093	3,420	1.6
Morogoro Urban	0	0	.00	-	0	.	.	.	1,416	561	1,269	2.3
Mvomero	0	0	.00	-	0	.	.	.	6,978	2,872	7,558	2.6
Total	0	0	.00	-	0	.	.	.	28,535	10,646	23,804	2.2

Cont. 5.9: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) during Long Rainy SEASON Agricultural Year 2007/08

District	Sweet Potato				Irish potatoes				Yams			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Kilosa	4,166	2,660	10,106.98	3.80	0	.	.	.	0	.	.	.
Morogoro	0	.	.	.	0	.	.	.	0	.	.	.
Kilombero	2,023	483	2,026.34	4.20	0	.	.	.	0	.	.	.
Ulanga	2,018	422	491.26	1.17	0	.	.	.	0	.	.	.
Morogoro Urban	106	36	100.01	2.79	18	4	1.06	0.30	18	6	8.25	1.28
Mvomero	1,256	325	934.74	2.88	1,814	583	1,501.33	2.58	0	.	.	.
Total	9,568	3,925	13,659.33	3.48	1,832	586	1,502.39	2.56	18	6	8.25	1.28

**Cont. 5.9: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) during Long Rainy SEASON
Agricultural Year 2007/08**

District	Coco Yam				Mung Bean				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)
Kilosa	0	.	.	.	208	169	20.83	0.12	4,790	2,719	1,235.07	0.45
Morogoro	421	227	85.65	0.38	0	.	.	.	1,123	529	358.03	0.68
Kilombero	0	.	.	.	0	.	.	.	144	29,247.09	28,896.129	0.99
Ulanga	0	.	.	.	0	.	.	.	2,106	620	546.10	0.88
Morogoro Urban	159	48	66.50	1.39	0	.	.	.	602	177	146.91	0.83
Mvomero	419	226	174.44	0.77	140	56	108.85	1.93	10,187	4,171	2,732.90	0.66
Total	999	501	326.59	0.65	348	225	129.68	0.58	18,953	8,245	5,047.90	0.61

**Cont. 5.9: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) during Long Rainy SEASON
Agricultural Year 2007/08**

District	Cowpeas				Green gram				Chick 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)
Kilosa	417	169	52.07	0.31	0	.	.	.	0	.	.	.
Morogoro	1,825	554	242.33	0.44	140	14	1.40	0.10	140	28	14.04	0.49
Kilombero	0	.	.	.	0	.	.	.	0	.	.	.
Ulanga	6,230	2,034	1,742.96	0.86	526	400	229.88	0.58	0	.	.	.
Morogoro Urban	336	116	29.93	0.26	18	2	.71	0.40	0	.	.	.
Mvomero	1,954	494	148.63	0.30	279	42	6.28	0.15	0	.	.	.
Total	10,761	3,367	2,215.92	0.66	964	458	238.27	0.52	140	28	14.04	0.49

**Cont. 5.9: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) during Long Rainy SEASON
Agricultural Year 2007/08**

District	Bambaranuts				Field Peas				Sunflower			
	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)
Kilosa	0	.	.	.	0	.	.	.	1,666	991	731.05	0.74
Morogoro	0	.	.	.	0	.	.	.	140	171	140.40	0.82
Kilombero	0	.	.	.	0	.	.	.	722	175.4826	182.04561	1.04
Ulanga	88	4	5.26	1.48	0	.	.	.	0	.	.	.
Morogoro Urban	0	.	.	.	0	.	.	.	159	136	81.69	0.60
Mvomero	0	.	.	.	2,093	402	287.62	0.71	1,814	932	492.63	0.53
Total	88	4	5.26	1.48	2,093	402	287.62	0.71	4,503	2,405	1,627.81	0.68

**Cont. 5.9: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) during Long Rainy SEASON
Agricultural Year 2007/08**

District	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)
Kilosa	3,332	1,686	409.47	0.24	417	148	64.57	0.44	0	0	.00	-
Morogoro	15,304	7,873	3,110.47	0.40	0	.	.	.	0	0	.00	-
Kilombero	578	205	140.87	0.69	289	58	57.79	0.99	0	0	0	-
Ulanga	4,212	1,926	842.22	0.44	1,579	337	184.78	0.55	0	0	.00	-
Morogoro Urban	124	79	22.21	0.28	35	4	.89	0.25	0	0	.00	-
Mvomero	1,535	876	328.65	0.38	279	71	44.66	0.63	0	0	.00	-
Total	25,085	12,645	4,853.89	0.38	2,599	617	352.68	0.57	0	0	.00	-

Cont. 5.9: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) during Long Rainy SEASON Agricultural Year 2007/08

District	Castor Fung				Okra				Radish			
	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)
Kilosa	0	0	.00	-	0	.	.	.	0	.	.	.
Morogoro	0	0	.00	-	0	.	.	.	0	.	.	.
Kilombero	0	0	.00	-	0	.	.	.	0	.	.	.
Ulanga	0	0	.00	-	263	16	13.07	0.84	0	.	.	.
Morogoro Urban	0	0	.00	-	18	5	3.19	0.59	0	.	.	.
Mvomero	0	0	.00	-	140	56	73.27	1.30	0	.	.	.
Total	0	0	.00	-	420	78	89.53	1.16	0	.	.	.

Cont. 5.9: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) during Long Rainy SEASON Agricultural Year 2007/08

District	Turmeric				Bitter Aubergine				Kothmir			
	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)
Kilosa	0	0	.00	-	208	21	83.31	3.95	0	0	.00	-
Morogoro	0	0	.00	-	0	.	.	.	0	0	.00	-
Kilombero	0	6	.00	-	144	15	288.96	19.76	0	0	0	-
Ulanga	0	0	.00	-	263	20	14.92	0.75	0	0	.00	-
Morogoro Urban	0	0	.00	-	0	.	.	.	0	0	.00	-
Mvomero	0	0	.00	-	698	226	823.37	3.64	0	0	.00	-
Total	0	0	.00	-	1,314	282	1,210.56	4.30	0	0	.00	-

Cont. 5.9: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) during Long Rainy SEASON Agricultural Year 2007/08

District	Onion				Ginger				Zukkin			
	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)
Kilosa	417	126	885.38	7.00	0	.	.	.	0	0	.00	-
Morogoro	0	.	.	.	0	.	.	.	0	0	.00	-
Kilombero	0	.	.	.	0	.	.	.	0	0	0	-
Ulanga	263	10	27.20	2.73	88	36	17.55	0.49	0	0	.00	-
Morogoro Urban	0	.	.	.	0	.	.	.	0	0	.00	-
Mvomero	837	184	559.34	3.05	0	.	.	.	0	0	.00	-
Total	1,517	320	1,471.91	4.60	88	36	17.55	0.49	0	0	.00	-

Cont. 5.9: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) during Long Rainy SEASON Agricultural Year 2007/08

District	Star Fruit				Cabbage				Tomatoes			
	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)
Kilosa	0	0	.00	-	0	.	.	.	833	548	2,955.43	5.39
Morogoro	0	0	.00	-	0	.	.	.	0	.	.	.
Kilombero	0	0	.00	-	0	.	.	.	144	14.62355	433.44194	29.64
Ulanga	0	0	.00	-	263	14	99.59	7.01	702	65	934.87	14.46
Morogoro Urban	0	0	.00	-	71	14	37.79	2.64	53	29	14.78	0.52
Mvomero	0	0	.00	-	977	155	544.26	3.50	3,070	1,172	5,272.38	4.50
Total	0	0	.00	-	1,311	184	681.64	3.71	4,803	1,828	9,610.90	5.26

Cont. 5.9: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) during Long Rainy SEASON Agricultural Year 2007/08

District	Spinach				Carrot				Chillies			
	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)
Kilosa	0	.	.	.	0	.	.	.	0	.	.	.
Morogoro	0	.	.	.	0	.	.	.	0	.	.	.
Kilombero	0	.	.	.	0	.	.	.	0	.	.	.
Ulanga	175	3	9.21	2.88	0	.	.	.	0	.	.	.
Morogoro Urban	0	.	.	.	71	27	198.69	7.39	18	4	9.29	2.59
Mvomero	0	.	.	.	558	113	662.88	5.87	558	141	460.53	3.26
Total	175	3	9.21	2.88	629	140	861.57	6.16	576	145	469.82	3.24

Cont. 5.9: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) during Long Rainy SEASON Agricultural Year 2007/08

District	Amaranths				Pumpkins				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)
Kilosa	0	.	.	.	0	.	.	.	0	.	.	.
Morogoro	0	.	.	.	0	.	.	.	0	.	.	.
Kilombero	0	.	.	.	0	.	.	.	0	.	.	.
Ulanga	175	3	9.21	3.24	351	17	24.57	1.47	0	.	.	.
Morogoro Urban	71	9	98.04	10.52	35	7	143.20	19.98	18	2	3.54	1.98
Mvomero	0	.	.	.	0	.	.	.	140	28	139.55	4.94
Total	246	12	107.25	8.82	386	24	167.76	7.03	157	30	143.09	4.76

Cont. 5.9: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) during Long Rainy SEASON Agricultural Year 2007/08

District	Egg Plant				Water Mellon				Cotton			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Kilosa	0	.	.	.	0	.	.	.	0	.	.	.
Morogoro	0	.	.	.	0	.	.	.	0	.	.	.
Kilombero	0	.	.	.	0	.	.	.	0	0	0	-
Ulanga	175	11	14.92	1.35	0	.	.	.	88	36	43.87	1.24
Morogoro Urban	0	.	.	.	71	72	659.25	9.20	0	0	.00	-
Mvomero	0	.	.	.	140	56	.00	-	0	.	.	-
Total	175	11	14.92	1.35	210	128	659.25	5.14	88	36	43.87	1.24

Cont. 5.9: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) during Long Rainy SEASON Agricultural Year 2007/08

District	Tobacco				Pyrethrum				Jute			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Kilosa	208	42	6.25	0.15	0	0	.00	-	0	0	.00	-
Morogoro	421	171	57.56	0.34	0	0	.00	-	0	0	.00	-
Kilombero	0	0	.00	-	0	0	.00	-	0	0	0	-
Ulanga	0	.	.	.	0	0	.00	-	0	0	.00	-
Morogoro Urban	0	0	.00	-	0	0	.00	-	0	0	.00	-
Mvomero	140	14	21.07	1.49	0	0	.00	-	0	0	.00	-
Total	769	227	84.89	0.37	0	0	.00	-	0	0	.00	-

Cont. 5.9: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) during Long Rainy SEASON Agricultural Year 2007/08

District	Malay			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Kilosa	0	0	0	0
Morogoro	0	0	.00	0.0
Kilombero	0	0	0	0
Ulanga	0	0	0	0
Morogoro Urban	0	0	0	0
Mvomero	0	0	0	0
Total	0	0	0	0

5.10: 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
Kilosa	47,070	96	2,083	4	49,153	46,237	94	2,708	6	48,945	93,307	95	4,790	5	98,098
Morogoro	25,272	81	5,897	19	31,169	33,837	93	2,527	7	36,364	59,109	88	8,424	12	67,533
Kilombero	40,166	97	1,156	3	41,321	36,698	98	867	2	37,565	76,864	97	2,023	3	78,886
Ulanga	29,832	99	175	1	30,007	14,740	83	3,071	17	17,811	44,572	93	3,246	7	47,819
Morogoro Urban	1,664	78	460	22	2,124	5,469	97	195	3	5,664	7,133	92	655	8	7,788
Mvomero	25,539	88	3,349	12	28,888	41,448	88	5,861	12	47,309	66,986	88	9,211	12	76,197
Total	169,542	93	13,120	7	182,663	178,430	92	15,229	8	193,658	347,972	92	28,349	8	376,321

5.11: Number of Households Storing Crops by Method of Storage and Crop Type Short Rainy Season - MOROGORO

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	38,997	26.2	5,219	3.5	18	.0	91,255	61.2	1,091	.7	750	.5	11,584	7.8	105	.1	149,020	100
Paddy	13,204	17.1	2,602	3.4	208	.3	57,414	74.5	0	.0	439	.6	3,111	4.0	88	.1	77,066	100
Sorghum	1,120	14.2	0	.0	0	.0	5,077	64.5	208	2.6	0	.0	1,464	18.6	0	.0	7,869	100
Bulrush Millet	208	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	208	100
Wheat	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	0
CEREALS	53,529	22.9	7,822	3.3	226	.1	153,746	65.7	1,299	.6	1,189	.5	16,159	6.9	193	.1	234,163	100
Cassava	281	34.9	88	10.9	0	.0	0	.0	0	.0	0	.0	436	54.2	0	.0	804	100
Sweet Potato	690	23.0	0	.0	0	.0	464	15.4	0	.0	263	8.8	1,589	52.8	0	.0	3,007	100
Irish potatoes	140	50.0	0	.0	0	.0	0	.0	0	.0	0	.0	140	50.0	0	.0	279	100
Yams	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	18	100.0	0	.0	18	100
Coco Yam	18	3.8	0	.0	0	.0	0	.0	0	.0	0	.0	454	96.2	0	.0	472	100
ROOTS & TUBERS	1,128	24.5	88	1.9	0	.0	464	10.1	0	.0	263	5.7	2,653	57.7	0	.0	4,597	100
Mung Bean	88	9.3	0	.0	0	.0	634	66.9	208	22.0	0	.0	18	1.9	0	.0	947	100
Beans	5,191	32.0	316	1.9	144	.9	7,820	48.2	140	.9	0	.0	2,421	14.9	208	1.3	16,240	100
Cowpeas	1,191	17.2	0	.0	0	.0	4,757	68.8	0	.0	0	.0	964	13.9	0	.0	6,911	100
Green gram	561	41.6	0	.0	0	.0	88	6.5	0	.0	0	.0	699	51.9	0	.0	1,347	100
Chick peas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	0
Bambaranuts	263	26.4	0	.0	0	.0	647	64.8	0	.0	0	.0	88	8.8	0	.0	998	100
Field Peas	279	25.0	0	.0	0	.0	698	62.5	0	.0	0	.0	140	12.5	0	.0	1,116	100
PULSES	7,572	27.5	316	1.1	144	.5	14,643	53.1	348	1.3	0	.0	4,329	15.7	208	.8	27,560	100
Sunflower	353	14.0	0	.0	0	.0	1,962	77.8	0	.0	0	.0	208	8.3	0	.0	2,523	100
Simsim	1,603	15.7	0	.0	0	.0	1,843	18.0	208	2.0	0	.0	6,575	64.3	0	.0	10,228	100
Groundnut	464	12.4	0	.0	0	.0	2,361	63.3	0	.0	0	.0	907	24.3	0	.0	3,733	100
OIL SEEDS & OIL NUTS	2,420	14.7	0	.0	0	.0	6,166	37.4	208	1.3	0	.0	7,690	46.7	0	.0	16,484	100

Cont. 5.11: Number of Households Storing Crops by Method of Storage and Crop Type Short Rainy Season - MOROGORO

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	53	3.0	0	.0	0	.0	284	15.9	0	.0	0	.0	1,446	81.1	0	.0	1,783	100
Radish	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	18	100.0	0	.0	18	100
Bitteer Aubergine	296	31.1	0	.0	0	.0	0	.0	0	.0	0	.0	654	68.9	0	.0	951	100
Onion	88	13.8	0	.0	0	.0	0	.0	88	13.8	0	.0	460	72.4	0	.0	636	100
Ginger	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	0
Cabbage	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	508	100.0	0	.0	508	100
Tomatoes	105	4.3	0	.0	0	.0	0	.0	0	.0	0	.0	2,372	95.7	0	.0	2,477	100
Spinach	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	657	100.0	0	.0	657	100
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	193	100.0	0	.0	193	100
Chillies	0	.0	0	.0	0	.0	0	.0	144	15.6	0	.0	783	84.4	0	.0	928	100
Amaranths	18	1.6	18	1.6	0	.0	18	1.6	0	.0	0	.0	1,050	95.2	0	.0	1,103	100
Pumpkins	105	9.2	0	.0	0	.0	0	.0	140	12.1	0	.0	905	78.7	0	.0	1,150	100
Cucumber	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	35	100.0	0	.0	35	100
Egg Plant	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	469	100.0	0	.0	469	100
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	162	100.0	0	.0	162	100
FRUITS & VEGETABLES	665	6.0	18	.2	0	.0	302	2.7	372	3.4	0	.0	9,714	87.7	0	.0	11,070	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	208	100.0	0	.0	208	100
CASH CROPS	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	208	100.0	0	.0	208	100
Total	65,315	22.2	8,243	2.8	370	.1	175,321	59.6	2,227	.8	1,452	.5	40,753	13.9	401	.1	294,083	100

5.12: Number of Households Storing Crops by Method of Storage and Crop Type Long Rainy Season - MOROGORO

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	35,529	28.8	5,196	4.2	35	.0	74,752	60.5	1,004	.8	1,395	1.1	5,609	4.5	53	.0	123,575	100
Paddy	18,120	23.5	1,838	2.4	140	.2	53,032	68.8	194	.3	0	.0	3,743	4.9	0	.0	77,067	100
Sorghum	6,720	44.4	421	2.8	0	.0	3,792	25.0	0	.0	0	.0	4,217	27.8	0	.0	15,150	100
Bulrush 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	140	100.0	0	.0	0	.0	0	.0	0	.0	140	100
CEREALS	60,369	28.0	7,455	3.5	176	.1	131,716	61.0	1,197	.6	1,395	.6	13,570	6.3	53	.0	215,931	100
Cassava	0	.0	0	.0	0	.0	18	33.3	0	.0	0	.0	35	66.7	0	.0	53	100
Sweet Potato	1,855	19.4	88	.9	0	.0	1,468	15.3	0	.0	88	.9	5,806	60.7	263	2.8	9,568	100
Irish potatoes	0	.0	0	.0	0	.0	140	7.6	0	.0	0	.0	1,692	92.4	0	.0	1,832	100
Yams	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	18	100.0	0	.0	18	100
Coco Yam	492	49.2	0	.0	0	.0	0	.0	0	.0	0	.0	507	50.8	0	.0	999	100
ROOTS & TUBERS	2,347	18.8	88	.7	0	.0	1,626	13.0	0	.0	88	.7	8,059	64.6	263	2.1	12,470	100
Mung Bean	208	59.9	0	.0	140	40.1	0	.0	0	.0	0	.0	0	.0	0	.0	348	100
Beans	4,301	22.7	349	1.8	0	.0	10,707	56.5	157	.8	226	1.2	2,969	15.7	244	1.3	18,953	100
Cowpeas	3,085	28.7	0	.0	0	.0	4,327	40.2	53	.5	0	.0	3,297	30.6	0	.0	10,761	100
Green gram	246	25.5	0	.0	0	.0	578	60.0	0	.0	0	.0	140	14.5	0	.0	964	100
Chick peas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	140	100.0	0	.0	140	100
Bambaranuts	0	.0	0	.0	0	.0	88	100.0	0	.0	0	.0	0	.0	0	.0	88	100
Field Peas	419	20.0	0	.0	0	.0	419	20.0	0	.0	0	.0	1,256	60.0	0	.0	2,093	100
PULSES	8,258	24.8	349	1.0	140	.4	16,118	48.3	210	.6	226	.7	7,802	23.4	244	.7	33,347	100
Sunflower	574	12.7	208	4.6	0	.0	1,130	25.1	0	.0	0	.0	2,591	57.5	0	.0	4,503	100
Simsim	2,290	9.1	0	.0	0	.0	4,426	17.6	88	.3	0	.0	18,053	72.0	228	.9	25,085	100
Groundnut	1,074	41.3	0	.0	0	.0	837	32.2	0	.0	0	.0	689	26.5	0	.0	2,599	100
OIL SEEDS & OIL NUTS	3,937	12.2	208	.6	0	.0	6,393	19.9	88	.3	0	.0	21,332	66.3	228	.7	32,187	100

cont...5.12 CROP STORAGE: Number of Households Storing Crops by Method of Storage and Crop Type Long Rainy Season - MOROGORO

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	88	20.9	0	.0	0	.0	157	37.4	0	.0	0	.0	88	20.9	88	20.9	420	100
Radish	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	0
Bitteer Aubergine	558	42.5	0	.0	0	.0	0	.0	0	.0	0	.0	668	50.8	88	6.7	1,314	100
Onion	575	37.9	0	.0	0	.0	140	9.2	0	.0	0	.0	715	47.1	88	5.8	1,517	100
Ginger	88	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	88	100
Cabbage	18	1.4	0	.0	0	.0	0	.0	0	.0	0	.0	1,205	92.0	88	6.7	1,311	100
Tomatoes	88	1.8	140	2.9	0	.0	0	.0	0	.0	0	.0	4,488	93.4	88	1.8	4,803	100
Spinach	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	88	50.0	88	50.0	175	100
Carrot	0	.0	0	.0	0	.0	140	22.2	0	.0	0	.0	489	77.8	0	.0	629	100
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	436	75.8	140	24.2	576	100
Amaranths	53	21.6	0	.0	0	.0	0	.0	0	.0	0	.0	193	78.4	0	.0	246	100
Pumpkins	88	22.7	0	.0	0	.0	0	.0	0	.0	0	.0	211	54.6	88	22.7	386	100
Cucumber	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	157	100.0	0	.0	157	100
Egg Plant	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	88	50.0	88	50.0	175	100
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	210	100.0	0	.0	210	100
FRUITS & VEGETABLES	1,555	12.9	140	1.2	0	.0	436	3.6	0	.0	0	.0	9,036	75.2	841	7.0	12,009	100
Cotton	0	.0	0	.0	0	.0	88	100.0	0	.0	0	.0	0	.0	0	.0	88	100
Tobacco	348	45.2	0	.0	0	.0	0	.0	0	.0	0	.0	421	54.8	0	.0	769	100
CASH CROPS	348	40.6	0	.0	0	.0	88	10.2	0	.0	0	.0	421	49.2	0	.0	857	100
Total	76,815	25.0	8,239	2.7	315	.1	156,377	51.0	1,495	.5	1,709	.6	60,221	19.6	1,630	.5	306,801	100

5.13: Number of Crop Producing Households Reporting Selling Agricultural Produce During 2007/08 by District and Season

SHORT RAINY SEASON						LONG RAINY SEASON				
District	Number of households that sold	%	Number of households that did not sell	%	Total number of households	Number of households that sold	%	Number of households that did not sell	%	Total number of households
Kilosa	36,240	74	12,913	26	49,153	37,490	77	11,455	23	48,945
Morogoro	13,759	44	17,410	56	31,169	26,676	73	9,688	27	36,364
Kilombero	35,976	87	5,346	13	41,321	31,786	85	5,779	15	37,565
Ulanga	24,918	83	5,089	17	30,007	16,232	91	1,579	9	17,811
Morogoro Urban	1,611	76	513	24	2,124	2,708	48	2,956	52	5,664
Mvomero	19,817	69	9,071	31	28,888	38,517	81	8,792	19	47,309
Total	132,321	72	50,342	28	182,663	153,409	79	40,249	21	193,658

5.14: Number of Households Reporting Marketing Problems for Agricultural Products by Crop, SHORT RAINY SEASON - MOROGORO

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	54,056	2,435	3,293	833	6,406	175	440	18	232	3,086	10,514	366	67,166
Paddy	41,828	1,530	6,106	144	3,343	0	296	140	296	3,269	5,158	88	14,868
Sorghum	3,904	0	419	0	140	0	0	0	0	140	140	208	2,919
Bulrush Millet	0	0	0	0	0	0	0	0	0	0	0	0	208
Wheat	0	0	0	0	0	0	0	0	0	0	0	0	0
CEREALS	99,788	3,965	9,817	978	9,888	175	737	158	528	6,495	15,811	662	85,162
Cassava	368	0	0	0	88	0	0	0	0	0	0	0	349
Sweet Potato	1,339	144	157	0	53	0	0	208	0	0	144	0	960
Irish potatoes	140	0	0	0	0	140	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0	0	0	0	0	0	18
Coco Yam	297	140	35	0	0	0	0	0	0	0	0	0	0
ROOTS & TUBERS	2,143	302	193	0	141	140	0	208	0	0	144	0	1,326
Mung Bean	649	0	0	0	18	0	0	0	0	0	0	0	281
Beans	5,656	1,393	2,009	0	1,046	0	0	279	0	140	700	0	5,017
Cowpeas	2,588	1,116	837	157	421	0	88	0	0	0	0	0	1,703
Green gram	646	0	0	0	0	0	0	0	0	0	140	0	562
Chick peas	0	0	0	0	0	0	0	0	0	0	0	0	0
Bambaranuts	263	0	0	0	0	0	0	0	0	0	175	0	559
Field Peas	140	0	279	0	279	0	0	140	0	140	140	0	0
PULSES	9,941	2,510	3,126	157	1,764	0	88	419	0	279	1,154	0	8,122
Sunflower	1,690	0	0	417	0	0	0	0	0	0	208	0	208
Simsim	7,165	88	232	0	671	0	0	0	0	281	504	0	1,287
Groundnut	1,497	0	88	417	208	0	0	0	0	0	263	0	1,260
OIL SEEDS & OIL NUTS	10,353	88	320	833	879	0	0	0	0	281	976	0	2,755

Cont. 5.14: Number of Households Reporting Marketing Problems for Agricultural Products by Crop, SHORT RAINY SEASON - MOROGORO

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	1,206	88	0	18	71	0	0	0	0	18	226	0	157
Radish	0	0	18	0	0	0	0	0	0	0	0	0	0
Bitteer Aubergine	353	0	348	0	0	0	0	0	0	162	88	0	0
Onion	320	88	0	0	88	0	0	0	0	0	0	0	140
Ginger	0	0	0	0	0	0	0	0	0	0	0	0	0
Cabbage	71	157	18	0	123	0	0	0	0	0	0	140	0
Tomatoes	1,300	105	332	0	355	0	0	0	0	18	367	0	0
Spinach	482	0	0	0	0	0	0	0	0	0	175	0	0
Carrot	0	18	35	0	140	0	0	0	0	0	0	0	0
Chillies	730	0	0	0	35	0	0	0	0	18	0	0	144
Amaranths	570	18	0	0	144	0	0	0	0	144	226	0	0
Pumpkins	469	367	0	0	89	0	0	0	0	0	208	0	18
Cucumber	18	0	18	0	0	0	0	0	0	0	0	0	0
Egg Plant	451	0	0	0	0	0	0	0	0	18	0	0	0
Water Mellon	144	0	0	0	18	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES	6,115	840	769	18	1,062	0	0	0	0	377	1,290	140	460
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0
Tobacco	208	0	0	0	0	0	0	0	0	0	0	0	0
CASH CROPS	208	0	0	0	0	0	0	0	0	0	0	0	0
Total	128,548	7,705	14,224	1,986	13,734	315	824	785	528	7,432	19,376	801	97,825

5.15: Number of Households Reporting Marketing Problems for Agricultural Products by Crop, LONG RAINY SEASON - MOROGORO

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	41,908	1,925	3,149	575	8,547	0	157	487	525	478	10,132	162	55,529
Paddy	40,089	2,438	3,501	140	3,143	0	0	429	0	1,187	5,150	0	20,989
Sorghum	6,196	281	0	0	140	0	0	0	0	0	1,260	0	7,273
Bulrush Millet	0	0	0	0	0	0	0	0	0	0	0	0	0
Wheat	140	0	0	0	0	0	0	0	0	0	0	0	0
CEREALS	88,333	4,644	6,651	715	11,831	0	157	916	525	1,665	16,542	162	83,790
Cassava	0	0	18	0	0	0	0	0	0	0	0	0	35
Sweet Potato	6,376	140	157	140	261	0	0	0	0	0	579	0	1,916
Irish potatoes	419	837	279	0	140	0	0	0	0	0	140	0	18
Yams	0	18	0	0	0	0	0	0	0	0	0	0	0
Coco Yam	456	176	279	0	35	0	0	0	0	35	18	0	0
ROOTS & TUBERS	7,251	1,170	733	140	436	0	0	0	0	35	736	0	1,969
Mung Bean	0	0	140	0	0	0	0	0	0	0	208	0	0
Beans	7,629	2,408	2,254	0	909	0	18	0	0	244	1,726	245	3,522
Cowpeas	6,103	455	334	0	577	0	0	0	0	0	927	0	2,366
Green gram	351	0	175	0	0	0	0	0	0	0	0	0	437
Chick peas	140	0	0	0	0	0	0	0	0	0	0	0	0
Bambaranuts	88	0	0	0	0	0	0	0	0	0	0	0	0
Field Peas	1,256	140	140	0	140	0	0	0	0	0	279	140	0
PULSES	15,567	3,002	3,042	0	1,625	0	18	0	0	244	3,140	385	6,325
Sunflower	2,830	35	35	0	208	0	0	0	0	35	766	0	592
Simsim	15,330	316	632	0	770	0	0	0	0	948	4,128	0	2,961
Groundnut	1,490	0	351	0	320	0	0	0	0	0	227	18	193
OIL SEEDS & OIL NUTS	19,650	351	1,018	0	1,298	0	0	0	0	983	5,122	18	3,745

cont. 5.15: Number of Households Reporting Marketing Problems for Agricultural Products by Crop, LONG RAINY SEASON - MOROGORO

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	227	0	0	0	0	0	0	0	0	0	175	0	18
Radish	0	0	0	0	0	0	0	0	0	0	0	0	0
Bitteer Aubergine	440	0	419	0	279	0	0	0	0	0	175	0	0
Onion	296	558	367	0	0	0	0	0	0	0	208	0	88
Ginger	0	0	0	0	88	0	0	0	0	0	0	0	0
Cabbage	821	279	210	0	0	0	0	0	0	0	0	0	0
Tomatoes	3,129	297	436	0	645	0	0	0	0	208	88	0	0
Spinach	175	0	0	0	0	0	0	0	0	0	0	0	0
Carrot	0	18	454	0	140	0	0	0	0	0	0	0	18
Chillies	140	140	157	0	140	0	0	0	0	0	0	0	0
Amaranths	123	35	0	0	0	0	0	0	0	0	88	0	0
Pumpkins	211	0	0	0	0	0	0	0	0	0	88	0	88
Cucumber	0	0	140	0	18	0	0	0	0	0	0	0	0
Egg Plant	88	0	0	0	0	0	0	0	0	0	88	0	0
Water Mellon	35	0	35	0	0	0	0	0	0	0	0	0	140
FRUITS & VEGETABLES	5,686	1,327	2,219	0	1,308	0	0	0	0	208	910	0	350
Cotton	88	0	0	0	0	0	0	0	0	0	0	0	0
Tobacco	0	0	281	0	140	0	0	0	0	0	208	0	140
CASH CROPS	88	0	281	0	140	0	0	0	0	0	208	0	140
Total	136,575	10,495	13,943	855	16,639	0	175	916	525	3,135	26,659	564	96,319

INPUT USE

5.16: Number of Households and Planted Area by Organic Fertilizer 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	
Kilosa	625	928	48,528	64,785	49,153	65,712	1.4
Morogoro Rural	140	1,023	31,029	23,736	31,169	24,760	4.1
Kilombero	289	175	41,033	59,503	41,321	59,679	0.3
Ulanga	88	9	29,919	54,229	30,007	54,237	0.0
Morogoro Urban	212	152	1,912	1,351	2,124	1,504	10.1
Mvomero	2,233	857	26,655	30,425	28,888	31,283	2.7
Total	3,587	3,145	179,076	234,030	182,663	237,174	1.3

5.17: Number of Households and Planted Area (Hectare) by Organic Fertilizer Use and District - LONG RAINY SEASON

District	Organic Fertilizer Use						% of Planted area using Organic Fertilizer
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area NOT Applied with Organic Fertilizer	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Kilosa	0	0	48,945	72,563	48,945	72,563	0.0
Morogoro Rural	0	0	36,364	40,042	36,364	40,042	0.0
Kilombero	144	7	37,420	48,426	37,565	48,433	0.0
Ulanga	351	66	17,460	16,607	17,811	16,673	0.4
Morogoro Urban	212	113	5,452	5,311	5,664	5,424	2.1
Mvomero	2,233	742	45,076	54,515	47,309	55,256	1.3
Total	2,941	928	190,718	237,464	193,658	238,392	0.4

5.18: Number of Households and Planted Area by Inorganic Fertilizer 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	
Kilosa	3,541	3,153	45,612	62,560	49,153	65,712	4.8
Morogoro Rural	0	0	31,169	24,760	31,169	24,760	0.0
Kilombero	10,403	12,120	30,919	47,559	41,321	59,679	20.3
Ulanga	614	289	29,393	53,949	30,007	54,237	0.5
Morogoro Urban	266	119	1,859	1,384	2,124	1,504	7.9
Mvomero	3,628	1,802	25,259	29,481	28,888	31,283	5.8
Total	18,451	17,482	164,211	219,692	182,663	237,174	7.4

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

District	Inorganic Fertilizer Use						% of Planted area using Inorganic Fertilizer
	Number of Households using Inorganic Fertilizer	Planted Area Applied with Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area NOT Applied with Inorganic Fertilizer	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Kilosa	4,790	3,036	44,154	69,528	48,945	72,563	4.2
Morogoro Rural	0	0	36,364	40,042	36,364	40,042	0.0
Kilombero	14,159	14,300	23,406	34,133	37,565	48,433	29.5
Ulanga	439	80	17,373	16,593	17,811	16,673	0.5
Morogoro Urban	336	192	5,328	5,232	5,664	5,424	3.5
Mvomero	5,443	2,610	41,866	52,647	47,309	55,256	4.7
Total	25,167	20,217	168,491	218,175	193,658	238,392	8.5

5.20: Number of Households and Planted Area by Fungicide Use and District - Short Rainy Season

District	Fungicide Use						% of Planted area using Fungicide
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Number of Households NOT using Fungicide	Planted Area NOT Applied with Herbicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Kilosa	625	1,188	48,528	64,524	49,153	65,712	1.8
Morogoro Rural	0	0	31,169	24,760	31,169	24,760	0.0
Kilombero	433	643	40,888	59,035	41,321	59,679	1.1
Ulanga	351	240	29,656	53,998	30,007	54,237	0.4
Morogoro Urban	248	141	1,876	1,363	2,124	1,504	9.4
Mvomero	1,814	799	27,074	30,484	28,888	31,283	2.6
Total	3,471	3,011	179,192	234,164	182,663	237,174	1.3

5.21: Number of Households and Planted Area by Fungicide Use and District - Long Rainy Season

District	Fungicide Use						% of Planted area using Fungicide
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Number of Households NOT using Fungicide	Planted Area NOT Applied with Fungicide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Kilosa	833	601	48,112	71,963	48,945	72,563	0.8
Morogoro Rural	0	0	36,364	40,042	36,364	40,042	0.0
Kilombero	289	88	37,276	48,345	37,565	48,433	0.2
Ulanga	877	239	16,934	16,434	17,811	16,673	1.4
Morogoro Urban	89	64	5,576	5,360	5,664	5,424	1.2
Mvomero	4,884	2,034	42,425	53,222	47,309	55,256	3.7
Total	6,972	3,026	186,686	235,366	193,658	238,392	1.3

5.22: Number of Households and Planted Area by Herbicide Use and District - Short Rainy Season

District	Herbicide Use						% of Planted area using Herbicide
	Number of Households using Herbicide	Planted Area Applied with Herbicide	Number of Households NOT using Herbicides	Planted Area NOT Applied with Herbicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Kilosa	3,332	3,124	45,821	62,588	49,153	65,712	4.8
Morogoro Rural	140	853	31,029	23,907	31,169	24,760	3.4
Kilombero	17,049	21,077	24,273	38,602	41,321	59,679	35.3
Ulanga	15,442	23,482	14,565	30,755	30,007	54,237	43.3
Morogoro Urban	18	4	2,106	1,500	2,124	1,504	0.2
Mvomero	0	0	28,888	31,283	28,888	31,283	0.0
Total	35,982	48,539	146,681	188,635	182,663	237,174	20.5

5.23: Number of Households and Planted Area by Herbicide Use and District - Long Rainy Season

District	Herbicide Use						% of Planted area using Herbicide
	Number of Households using Herbicide	Planted Area Applied with Herbicide	Number of Households NOT using Herbicides	Planted Area NOT Applied with Herbicide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Kilosa	4,374	8,011	44,571	64,553	48,945	72,563	11.0
Morogoro Rural	0	0	36,364	40,042	36,364	40,042	0.0
Kilombero	16,471	20,042	21,094	28,392	37,565	48,433	41.4
Ulanga	2,018	1,781	15,793	14,893	17,811	16,673	10.7
Morogoro Urban	0	0	5,664	5,424	5,664	5,424	0.0
Mvomero	1,396	763	45,914	54,494	47,309	55,256	1.4
Total	24,258	30,595	169,400	207,797	193,658	238,392	12.8

5.24: 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	
Kilosa	8,539	7,807	40,614	57,905	49,153	65,712	11.9
Morogoro Rural	842	512	30,327	24,248	31,169	24,760	2.1
Kilombero	8,380	9,940	32,942	49,738	41,321	59,679	16.7
Ulanga	4,650	4,331	25,357	49,906	30,007	54,237	8.0
Morogoro Urban	726	456	1,398	1,047	2,124	1,504	30.3
Mvomero	5,443	3,915	23,445	27,367	28,888	31,283	12.5
Total	28,580	26,962	154,083	210,213	182,663	237,174	11.4

5.25: 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	
Kilosa	10,205	15,362	38,739	57,201	48,945	72,563	21.2
Morogoro Rural	702	483	35,662	39,559	36,364	40,042	1.2
Kilombero	4,912	4,146	32,653	44,287	37,565	48,433	8.6
Ulanga	2,194	847	15,618	15,826	17,811	16,673	5.1
Morogoro Urban	2,496	2,550	3,168	2,875	5,664	5,424	47.0
Mvomero	10,746	9,802	36,563	45,454	47,309	55,256	17.7
Total	31,255	33,190	162,403	205,202	193,658	238,392	13.9

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

District	Using Local 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)	
Kilosa	44,987	55,522	4,166	10,190	49,153	65,712	84.5
Morogoro Rural	30,748	24,163	421	597	31,169	24,760	97.6
Kilombero	34,675	49,327	6,646	10,351	41,321	59,679	82.7
Ulanga	28,954	49,609	1,053	4,628	30,007	54,237	91.5
Morogoro Urban	1,664	994	460	509	2,124	1,504	66.1
Mvomero	25,678	26,922	3,210	4,360	28,888	31,283	86.1
Total	166,707	206,538	15,956	30,637	182,663	237,174	87.1

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

District	Using Local Seeds		Not using Local Seeds		TOTAL		% of Planted Area Using Local seeds
	Number of Households	Planted Area (ha)	Number of Households	Planted Area (ha)	Number of Households	Planted Area (ha)	
Kilosa	43,946	45,659	4,999	26,904	48,945	72,563	62.9
Morogoro Rural	35,943	39,417	421	625	36,364	40,042	98.4
Kilombero	34,242	43,827	3,323	4,606	37,565	48,433	90.5
Ulanga	16,758	15,212	1,053	1,461	17,811	16,673	91.2
Morogoro Urban	4,106	2,778	1,558	2,646	5,664	5,424	51.2
Mvomero	41,169	45,257	6,140	9,999	47,309	55,256	81.9
Total	176,165	192,150	17,494	46,242	193,658	238,392	80.6

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

District	Insecticide Use						% of Planted area using Insecticides
	Number of Households using Insecticides	Planted Area Applied with Insecticides	Number of Households NOT using Insecticides	Planted Area Without Insecticides	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Kilosa	4,374	2,394	44,779	63,318	49,153	65,712	3.6
Morogoro Rural	281	43	30,888	24,717	31,169	24,760	0.2
Kilombero	867	760	40,455	58,918	41,321	59,679	1.3
Ulanga	1,755	742	28,252	53,496	30,007	54,237	1.4
Morogoro Urban	407	206	1,717	1,297	2,124	1,504	13.7
Mvomero	3,349	1,632	25,539	29,651	28,888	31,283	5.2
Total	11,033	5,777	171,630	231,397	182,663	237,174	2.4

5.29: Number of Households and Planted Area by Fungicide 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	
Kilosa	3,749	1,697	45,196	70,866	48,945	72,563	2.3
Morogoro Rural	0	0	36,364	40,042	36,364	40,042	0.0
Kilombero	722	731	36,843	47,702	37,565	48,433	1.5
Ulanga	6,844	3,177	10,968	13,496	17,811	16,673	19.1
Morogoro Urban	177	131	5,487	5,293	5,664	5,424	2.4
Mvomero	4,745	1,850	42,564	53,406	47,309	55,256	3.3
Total	16,237	7,586	177,421	230,806	193,658	238,392	3.2

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

District	Irrigation use						% of area planted under irrigation in Short rainy season
	Number of Households using Irrigation	Planted Area with Irrigation	Number of Households NOT using Irrigation	Planted Area with no Irrigation	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Kilosa	5,832	4,554	43,321	61,158	49,153	65,712	6.9
Morogoro Rural	421	92	30,748	24,667	31,169	24,760	0.4
Kilombero	1,589	1,623	39,732	58,055	41,321	59,679	2.7
Ulanga	1,492	2,241	28,516	51,996	30,007	54,237	4.1
Morogoro Urban	566	275	1,558	1,228	2,124	1,504	18.3
Mvomero	3,210	1,632	25,678	29,651	28,888	31,283	5.2
Total	13,110	10,419	169,553	226,755	182,663	237,174	4.4

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

District	Irrigation use						% of area planted under irrigation in long rainy season
	Number of Households using Irrigation	Planted Area with Irrigation	Number of Households NOT using Irrigation	Planted Area with no Irrigation	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Kilosa	4,582	3,331	44,363	69,233	48,945	72,563	4.6
Morogoro Rural	421	405	35,943	39,637	36,364	40,042	1.0
Kilombero	1,589	1,316	35,976	47,117	37,565	48,433	2.7
Ulanga	965	423	16,846	16,250	17,811	16,673	2.5
Morogoro Urban	655	703	5,009	4,721	5,664	5,424	13.0
Mvomero	5,443	2,059	41,866	53,198	47,309	55,256	3.7
Total	13,655	8,236	180,003	230,156	193,658	238,392	3.5

5.32: Planted Area & Number of Households by Organic Fertilizer Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - MOROGORO TOTAL

Crop	Fertilizer Use							% of area planted using Organic Fertilizer
	Number of Households using Organic Fertilizer	Planted Area Organic Fertilizer Used	Cost of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Organic Fertilizer not Used	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	1,843	1,478	100,566,959	147,317	118,962	149,159	120,439	1.2
Paddy	285	854	33,225,859	76,781	86,919	77,066	87,774	1.0
Sorghum	0	0	0	7,869	4,004	7,869	4,004	0.0
Bulrush Millet	0	0	0	208	253	208	253	0.0
Wheat	0	0	0	0	0	0	0	0.0
CEREALS		2,332	133,792,819		210,138	234,302	212,470	1.1
Cassava	0	0	0	804	166	804	166	0.0
Sweet Potato	0	0	0	3,007	1,200	3,007	1,200	0.0
Irish potatoes	140	14	20,933,208	140	56	279	71	20.0
Yams	0	0	0	36	3	36	3	0.0
Coco Yam	0	0	0	472	100	472	100	0.0
ROOTS & TUBERS		14	20,933,208		1,526	4,598	1,540	0.9
Mung Bean	0	0	0	947	854	947	854	0.0
Beans	558	184	12,057,528	15,682	7,040	16,240	7,224	2.5
Cowpeas	0	0	0	6,911	2,174	6,911	2,174	0.0
Green gram	0	0	0	1,347	343	1,347	343	0.0
Chick peas	0	0	0	0	0	0	0	0.0
Bambaranuts	0	0	0	998	236	998	236	0.0
Field Peas	698	141	13,062,322	419	71	1,116	212	66.7
PULSES		325	25,119,850		10,717	27,560	11,042	2.9
Sunflower	0	0	0	2,523	2,855	2,523	2,855	0.0
Simsim	0	0	0	10,228	4,932	10,228	4,932	0.0
Groundnut	208	169	20,828	3,524	1,690	3,733	1,859	9.1
OIL SEEDS & OIL NUTS		169	20,828		9,477	16,484	9,646	1.7
Okra	226	88	239,486	1,557	443	1,783	531	16.5
Radish	18	2	35,401	0	0	18	2	0.0
Bitter Aubergine	0	0	0	951	211	951	211	0.0
Onion	140	57	44,928,694	495	63	636	119	0.0
Ginger	0	0	0	0	0	0	0	0.0
Cabbage	0	0	0	508	126	508	126	0.0
Tomatoes	228	71	2,680,207	2,249	543	2,477	614	11.6
Spinach	140	14	11,164,378	518	54	657	68	20.7
Carrot	157	35	698,659	35	14	193	50	71.2
Chillies	18	25	7,988,890	910	138	928	163	15.4
Amaranths	88	9	1,683,118	1,015	195	1,103	204	0.0
Pumpkins	0	0	41,655	1,150	214	1,150	214	0.0
Cucumber	18	4	106,202	18	4	35	7	0.0
Egg Plant	0	0	0	469	49	469	49	0.0
Water Mellon	0	0	0	162	33	162	33	0.0
FRUITS & VEGETABLES		305	69,566,688		2,087	11,070	2,391	12.7
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	208	84	208	84	0.0
CASH CROPS		0	0		84	208	84	0.0
Total	4,763	3,145	249,433,391		234,030	294,223	237,174	1.3

5.33: Planted Area & Number of Households by Organic Fertilizer Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON – MOROGORO TOTAL

Crop	Fertilizer Use							% of area planted using Organic Fertilizer
	Number of Households using Organic Fertilizer	Planted Area Organic Fertilizer Used	Cost of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Organic Fertilizer not Used	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	443	445	9,976,077	123,294	111,492	123,737	111,937	0.4
Paddy	0	0	433,442	77,067	81,988	77,067	81,988	0.0
Sorghum	0	0	0	15,150	7,526	15,150	7,526	0.0
Bulrush Millet	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	0	0	0	0	0	0.0
Wheat	0	0	0	140	28	140	28	0.0
CEREALS		445	10,409,519		201,035	216,093	201,479	0.2
Cassava	0	0	0	53	14	53	14	0.0
Sweet Potato	144	4	72,240	9,568	3,922	9,713	3,925	0.1
Irish potatoes	419	71	17,025,676	1,413	515	1,832	586	12.1
Yams	0	0	0	18	6	18	6	0.0
Coco Yam	0	0	0	999	501	999	501	0.0
ROOTS & TUBERS		74	17,097,916		4,959	12,615	5,034	1.5
Mung Bean	0	0	0	348	225	348	225	0.0
Beans	279	35	53,031	18,814	8,210	19,093	8,245	0.4
Cowpeas	0	0	0	10,761	3,367	10,761	3,367	0.0
Green gram	0	0	0	964	458	964	458	0.0
Chick peas	0	0	0	140	28	140	28	0.0
Bambaranuts	0	0	0	88	4	88	4	0.0
Field Peas	419	56	19,872,592	1,814	346	2,233	402	14.0
PULSES		92	19,925,623		12,638	33,627	12,730	0.7
Sunflower	0	0	0	4,503	2,405	4,503	2,405	0.0
Simsim	0	0	0	25,085	12,645	25,085	12,645	0.0
Groundnut	18	2	21,240	2,582	616	2,599	617	0.3
Soya Beans	0	0	0	0	0	0	0	0.0
Castor Fung	0	0	0	0	0	0	0	0.0
OIL SEEDS & OIL NUTS		2	21,240		15,665	32,187	15,667	0.0
Okra	88	9	0	333	69	420	78	11.5
Turmeric	0	0	0	0	0	0	0	0.0
Bitteer Aubergine	227	23	2,093,321	1,086	259	1,314	282	8.2
Onion	227	30	13,999,342	1,290	290	1,517	320	0.0
Ginger	0	0	0	88	36	88	36	0.0
Cabbage	385	53	5,025,256	926	131	1,311	184	28.9
Tomatoes	472	90	6,840,164	4,348	1,738	4,821	1,828	4.9
Spinach	175	3	131,611	0	0	175	3	0.0
Carrot	279	56	20,933,208	350	83	629	140	40.4
Chillies	0	0	0	576	145	576	145	0.0
Amaranths	193	5	183,446	53	8	246	12	0.0
Pumpkins	88	9	87,740	299	15	386	24	0.0
Cucumber	140	28	2,791,094	18	2	157	30	0.0
Egg Plant	88	9	87,740	88	2	175	11	0.0
Water Mellon	0	0	0	210	128	210	128	0.0
FRUITS & VEGETABLES		316	52,172,923		2,905	12,027	3,220	9.8
Cotton	0	0	0	88	36	88	36	0.0
Tobacco	0	0	0	769	227	769	227	0.0
CASH CROPS		0	0		262	857	262	0.0
Total	4,084	928	99,627,222		237,464	307,404	238,392	0.4

5.34: Planted Area & Number of Households by Inorganic Fertilizer Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - MOROGORO TOTAL

Crop	Fertilizer Use							% of area planted using Inorganic Fertilizer
	Number of Households using Inorganic Fertilizer	Planted Area Inorganic Fertilizer Used	Cost of Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area Inorganic Fertilizer not Used	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	8,386	4,741	288,412,852	141,811	115,698	150,197	120,439	3.9
Paddy	9,651	11,471	737,845,005	68,000	76,303	77,651	87,774	13.1
Sorghum	0	0	0	7,869	4,004	7,869	4,004	0.0
Bulrush Millet	0	0	0	208	253	208	253	0.0
Wheat	0	0	0	0	0	0	0	0.0
CEREALS		16,212	1,026,257,857		196,258	235,925	212,470	7.6
Cassava	0	0	0	804	166	804	166	0.0
Sweet Potato	180	64	4,022,001	2,827	1,136	3,007	1,200	5.3
Irish potatoes	140	56	3,014,382	140	14	279	71	80.0
Yams	0	0	0	36	3	36	3	0.0
Coco Yam	0	0	0	472	100	472	100	0.0
ROOTS & TUBERS		120	7,036,383		1,420	4,598	1,540	7.8
Mung Bean	0	0	0	947	854	947	854	0.0
Beans	576	199	45,844,749	15,665	7,025	16,240	7,224	2.8
Cowpeas	106	14	1,017,767	6,823	2,160	6,929	2,174	0.6
Green gram	0	0	0	1,347	343	1,347	343	0.0
Chick peas	0	0	0	0	0	0	0	0.0
Bambaranuts	0	0	0	998	236	998	236	0.0
Field Peas	140	14	697,774	977	198	1,116	212	6.7
PULSES		227	47,560,290		10,816	27,578	11,042	2.1
Sunflower	0	0	0	2,523	2,855	2,523	2,855	0.0
Simsim	0	0	0	10,228	4,932	10,228	4,932	0.0
Groundnut	0	0	0	3,733	1,859	3,733	1,859	0.0
OIL SEEDS & OIL NUTS		0	0		9,646	16,484	9,646	0.0
Okra	759	75	5,674,551	1,441	456	2,199	531	14.2
Radish	0	0	0	18	2	18	2	0.0
Bitteer Aubergine	434	109	12,327,780	725	102	1,159	211	51.6
Onion	88	9	789,664	548	111	636	119	0.0
Ginger	0	0	0	0	0	0	0	0.0
Cabbage	403	106	10,815,333	105	20	508	126	84.5
Tomatoes	1,806	455	31,487,530	880	159	2,686	614	74.1
Spinach	162	16	221,976	513	52	675	68	23.4
Carrot	0	0	0	193	50	193	50	0.0
Chillies	603	105	5,465,514	324	58	928	163	64.5
Amaranths	18	4	177,003	1,085	200	1,103	204	0.0
Pumpkins	215	24	4,287,506	935	191	1,150	214	11.0
Cucumber	0	0	0	35	7	35	7	0.0
Egg Plant	180	20	970,207	289	29	469	49	0.0
Water Mellon	0	0	0	162	33	162	33	0.0
FRUITS & VEGETABLES		923	72,217,063		1,469	11,921	2,391	38.6
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	208	84	208	84	0.0
CASH CROPS		0	0		84	208	84	0.0
Total	23,845	17,482	1,153,071,593		219,692	296,714	237,174	7.4

**5.35: Planted Area & Number of Households by Inorganic Fertilizer Use by Crop during 2007/08
agriculture year - LONG RAINY SEASON – MOROGORO TOTAL**

Crop	Fertilizer Use							% of area planted using Inorganic Fertilizer
	Number of Households using Inorganic Fertilizer	Planted Area Inorganic Fertilizer Used	Cost of Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area Inorganic Fertilizer not Used	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	5,529	2,656	216,533,945	119,170	109,282	124,699	111,937	2.4
Paddy	15,338	14,822	704,551,903	62,949	67,166	78,286	81,988	18.1
Sorghum	0	0	0	15,150	7,526	15,150	7,526	0.0
Bulrush Millet	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	0	0	0	0	0	0.0
Wheat	0	0	0	140	28	140	28	0.0
CEREALS		17,477	921,085,848		184,002	218,275	201,479	8.7
Cassava	0	0	0	53	14	53	14	0.0
Sweet Potato	140	113	41,866,416	9,429	3,812	9,568	3,925	2.9
Irish potatoes	837	328	43,541,073	1,274	258	2,111	586	56.0
Yams	0	0	0	18	6	18	6	0.0
Coco Yam	0	0	0	999	501	999	501	0.0
ROOTS & TUBERS		441	85,407,488		4,592	12,749	5,034	8.8
Mung Bean	0	0	0	348	225	348	225	0.0
Beans	592	103	16,188,481	18,570	8,143	19,161	8,245	1.2
Cowpeas	0	0	0	10,761	3,367	10,761	3,367	0.0
Green gram	0	0	0	964	458	964	458	0.0
Chick peas	0	0	0	140	28	140	28	0.0
Bambaranuts	0	0	0	88	4	88	4	0.0
Field Peas	419	49	7,884,842	1,675	353	2,093	402	12.2
PULSES		152	24,073,323		12,578	33,556	12,730	1.2
Sunflower	433	117	4,189,939	4,069	2,288	4,503	2,405	0.0
Simsim	289	58	1,589,287	24,796	12,586	25,085	12,645	0.5
Groundnut	0	0	0	2,599	617	2,599	617	0.0
Soya Beans	0	0	0	0	0	0	0	0.0
OIL SEEDS & OIL NUTS		175	5,779,226		15,492	32,187	15,667	1.1
Okra	88	2	43,870	333	75	420	78	3.2
Turmeric	0	0	0	0	0	0	0	0.0
Bitteer Aubergine	790	200	23,157,417	663	81	1,453	282	71.2
Onion	835	197	40,333,505	682	123	1,517	320	0.0
Ginger	0	0	0	88	36	88	36	0.0
Cabbage	821	117	48,561,186	630	67	1,450	184	63.4
Tomatoes	2,918	1,301	165,604,193	2,025	527	4,942	1,828	71.2
Spinach	0	0	0	175	3	175	3	0.0
Carrot	175	46	6,320,915	454	94	629	140	33.0
Chillies	436	102	30,322,870	279	42	715	145	70.7
Amaranth	0	0	0	246	12	246	12	0.0
Pumpkins	88	2	43,870	299	22	386	24	0.0
Cucumber	18	0	49,561	157	30	175	30	0.0
Egg Plant	88	2	43,870	88	9	175	11	0.0
Water Mellon	0	0	0	210	128	210	128	0.0
FRUITS & VEGETABLES		1,971	314,481,259		1,249	12,585	3,220	61.2
Cotton	0	0	0	88	36	88	36	0.0
Tobacco	0	0	0	769	227	769	227	0.0
CASH CROPS		0	0		262	857	262	0.0
Total	29,832	20,217	1,350,827,144		218,175	310,208	238,392	8.5

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

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	2,355	1,571	25,728,972	147,169	118,869	149,524	120,439	1.3
Paddy	88	89	614,183	77,066	87,685	77,154	87,774	0.1
Sorghum	0	0	0	7,869	4,004	7,869	4,004	0.0
Bulrush Millet	0	0	0	208	253	208	253	0.0
Wheat	0	0	0	0	0	0	0	0.0
CEREALS		1,659	26,343,155		210,811		212,470	0.8
Cassava	0	0	0	804	166	804	166	0.0
Sweet Potato	53	6	187,623	2,954	1,193	3,007	1,200	0.5
Irish potatoes	279	71	3,349,313	0	0	279	71	0.0
Yams	0	0	0	36	3	36	3	0.0
Coco Yam	0	0	0	472	100	472	100	0.0
ROOTS & TUBERS		77	3,536,936		1,464	239,353	1,540	5.0
Mung Bean	370	393	1,985,567	577	461	947	854	46.0
Beans	1,378	486	12,320,480	14,862	6,737	16,240	7,224	6.7
Cowpeas	1,257	272	7,783,587	5,742	1,902	6,999	2,174	12.5
Green gram	88	18	789,664	1,259	325	1,347	343	0.0
Chick peas	0	0	0	0	0	0	0	0.0
Bambaranuts	0	0	0	998	236	998	236	0.0
Field Peas	698	127	5,372,857	419	85	1,116	212	0.0
PULSES		1,296	28,252,155		9,747	27,648	11,042	11.7
Sunflower	0	0	0	2,523	2,855	2,523	2,855	0.0
Simsim	3,146	1,389	16,116,753	7,082	3,543	10,228	4,932	28.2
Groundnut	0	0	0	3,733	1,859	3,733	1,859	0.0
OIL SEEDS & OIL NUTS		1,389	16,116,753		8,256		9,646	14.4
Okra	1,058	216	2,577,503	934	315	1,991	531	40.6
Radish	0	0	0	18	2	18	2	0.0
Bitteer Aubergine	366	116	23,526,829	585	95	951	211	55.0
Onion	408	54	1,050,255	228	66	636	119	0.0
Ginger	0	0	0	0	0	0	0	0.0
Cabbage	473	122	3,244,861	35	4	508	126	0.0
Tomatoes	1,936	382	24,490,892	750	231	2,686	614	62.3
Spinach	158	16	553,359	499	52	657	68	0.0
Carrot	0	0	0	193	50	193	50	0.0
Chillies	621	132	2,089,231	307	31	928	163	0.0
Amaranths	458	111	943,730	645	92	1,103	204	54.7
Pumpkins	673	156	3,050,892	477	58	1,150	214	72.7
Cucumber	35	7	84,961	0	0	35	7	0.0
Egg Plant	162	18	557,344	307	31	469	49	0.0
Water Mellon	18	4	10,620	144	29	162	33	0.0
FRUITS & VEGETABLES		1,335	62,180,477		1,057		2,391	55.8
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	208	21	104,138	208	63	417	84	25.0
CASH CROPS		21	104,138	208	63	417	84	25.0
Total	16,287	5,777	136,533,614	279,101	231,397	530,143	237,174	2.4

5.37: Planted Area & Number of Crop Growing Households by Insecticide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - MOROGORO TOTAL

Crops	Insecticide use							% of Planted area using Insecticide
	Number of Households using Insecticide	Planted Area Insecticide Used	Cost (Tshs) of Insecticide	Number of Households NOT using Insecticide	Planted Area Insecticide not Used	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	1,110	781	7,676,451	122,465	111,157	123,575	111,937	0.7
Paddy	320	431	1,434,567	76,922	81,557	77,242	81,988	0.5
Sorghum	0	0	0	15,150	7,526	15,150	7,526	0.0
Bulrush Millet	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	0	0	0	0	0	0.0
Wheat	0	0	0	140	28	140	28	0.0
Cereals		1,211	9,111,018		200,268		201,479	0.6
Cassava	0	0	0	53	14	53	14	0.0
Sweet Potatoes	140	14	627,996	9,429	3,911	9,568	3,925	0.4
Irish Potatoes	140	14	558,219	1,692	572	1,832	586	2.4
Yams	0	0	0	18	6	18	6	0.0
Cocoyam	0	0	0	999	501	999	501	0.0
ROOTS & TUBERS		28	1,186,215		5,005	12,470	5,034	0.6
Mung Beans	0	0	0	348	225	348	225	0.0
Beans	3,279	828	18,613,787	15,674	7,417	18,953	8,245	10.0
Cowpeas	5,528	1,874	67,625,925	5,234	1,493	10,761	3,367	55.7
Green Gram	439	382	11,136,014	525	76	964	458	83.4
Chich Peas	0	0	0	140	28	140	28	0.0
Bambaranuts	0	0	0	88	4	88	4	0.0
Field Peas	1,535	261	6,894,003	558	141	2,093	402	64.9
PULSES		3,345	104,269,729		9,385	33,347	12,730	26.3
Sunflower	0	0	0	4,503	2,405	4,503	2,405	0.0
Simsim	2,129	1,158	15,280,883	22,956	11,487	25,085	12,645	9.2
Groundnuts	0	0	0	2,599	617	2,599	617	0.0
Soya Beans	0	0	0	0	0	0	0	0.0
OIL SEEDS & OIL NUTS		1,158	15,280,883		14,509	32,187	15,667	7.4
Okra	175	13	583,474	245	64	420	78	17.0
Turmeric	0	0	0	0	0	0	0	0.0
Bitter Aubergine	878	209	27,213,305	436	72	1,314	282	74.3
Onions	417	126	5,206,886	1,101	194	1,517	320	39.5
Ginger	0	0	0	88	36	88	36	0.0
Cabbage	1,136	163	8,282,769	175	21	1,311	184	88.4
Tomatoes	3,198	1,142	46,530,167	1,813	686	5,011	1,828	62.5
Spinnach	175	3	1,052,885	0	0	175	3	0.0
Carrot	18	4	106,202	611	136	629	140	2.6
Chillies	279	85	2,302,653	297	60	576	145	58.5
Amaranths	0	0	0	246	12	246	12	0.0
Pumpkins	88	9	254,447	299	15	386	24	0.0
Cucumber	140	28	627,996	18	2	157	30	94.0
Egg Plant	175	11	473,798	0	0	175	11	0.0
Water Mellon	18	14	424,807	193	114	210	128	11.2
FRUITS & VEGETABLES		1,808	93,059,389		1,412	12,217	3,220	56.1
Cotton	88	36	263,221	0	0	88	36	0.0
Tobacco	0	0	0	769	227	769	227	0.0
CASH CROPS		36	263,221		227	857	262	13.5
Total		7,586	223,170,455		230,806	294,967	235,172	3.2

5.38: Planted Area & Number of Households by Fungicide Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - MOROGORO TOTAL

Crops	Fungicide Use							% of Planted area using Fungicide
	Number of Households using Fungicide	Planted Area Fungicide Used	Cost of Fungicides	Number of Households NOT using Fungicide	Planted Area Fungicide not Used	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	863	1,199	14,147,737	148,175	119,241	149,037	120,439	1.0
Paddy	433	468	6,790,590	76,632	87,306	77,066	87,774	0.5
Sorghum	0	0	0	7,869	4,004	7,869	4,004	0.0
Bulrush Millet	0	0	0	208	253	208	253	0.0
Wheat	0	0	0	0	0	0	0	0.0
CEREALS		1,666	20,938,327		210,804		212,470	0.8
Cassava	0	0	0	804	166	804	166	0.0
Sweet Potato	0	0	0	3,007	1,200	3,007	1,200	0.0
Irish potatoes	279	71	6,698,627	0	0	279	71	100.0
Yams	0	0	0	36	3	36	3	0.0
Coco Yam	0	0	0	472	100	472	100	0.0
ROOTS & TUBERS		71	6,698,627		1,470		1,540	4.6
Mung Bean	18	4	53,101	930	850	947	854	0.4
Beans	1,412	674	26,198,648	14,968	6,550	16,380	7,224	9.3
Cowpeas	18	4	44,251	6,893	2,171	6,911	2,174	0.2
Green gram	0	0	0	1,347	343	1,347	343	0.0
Bambaranuts	0	0	0	998	236	998	236	0.0
Field Peas	279	42	16,188,347	837	169	1,116	212	20.0
PULSES		724	42,484,347		10,319		11,042	6.6
Sunflower	0	0	0	2,523	2,855	2,523	2,855	0.0
Simsim	88	71	2,193,510	10,141	4,861	10,228	4,932	1.4
Groundnut	0	0	0	3,733	1,859	3,733	1,859	0.0
OIL SEEDS & OIL NUTS		71	2,193,510		9,575		9,646	0.7
Okra	367	53	616,450	1,624	478	1,991	531	10.0
Radish	0	0	0	18	2	18	2	0.0
Bitteer Aubergine	18	4	123,902	933	207	951	211	1.7
Onion	175	36	877,404	460	84	636	119	29.7
Ginger	0	0	0	0	0	0	0	0.0
Cabbage	245	39	2,692,612	263	87	508	126	31.0
Tomatoes	1,380	287	54,561,264	1,323	327	2,703	614	46.7
Spinach	0	0	0	657	68	657	68	0.0
Carrot	0	0	0	193	50	193	50	0.0
Chillies	53	32	300,905	875	131	928	163	19.8
Amaranths	0	0	0	1,103	204	1,103	204	0.0
Pumpkins	88	18	175,481	1,062	196	1,150	214	8.3
Cucumber	18	4	44,251	18	4	35	7	50.0
Egg Plant	18	4	123,902	451	46	469	49	7.3
Water Mellon	18	4	53,101	144	29	162	33	10.9
FRUITS & VEGETABLES		479	59,569,271		1,913		2,391	20.0
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	208	84	208	84	0.0
CASH CROPS		0	0		84		84	0.0
Total	5,769	3,011	131,884,082	288,905	234,164	294,674	237,174	1.3

5.39: Planted Area & Number of Crop growing Households by Fungicide Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - MOROGORO TOTAL

Crops	Fungicide use							% of Planted area using Fungicide
	Number of Households using Fungicide	Planted Area Fungicide Used	Cost (Tshs) of Fungicide	Number of Households NOT using Fungicide	Planted Area Fungicide not Used	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	315	225	983,026	123,435	111,713	123,750	111,937	0.2
Paddy	807	474	6,219,222	76,347	81,514	77,154	81,988	0.6
Sorghum	0	0	0	15,150	7,526	15,150	7,526	0.0
Bulrush Millet	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	0	0	0	0	0	0.0
Wheat	0	0	0	140	28	140	28	0.0
Cereals		699	7,202,248		200,781		201,479	0.3
Cassava	0	0	0	53	14	53	14	0.0
Sweet Potatoes	227	131	6,977,736	7,318	3,312	7,546	3,443	3.8
Irish Potatoes	419	155	7,256,845	3,436	913	3,855	1,069	14.5
Yams	0	0	0	18	6	18	6	0.0
Cocoyam	0	0	0	999	501	999	501	0.0
ROOTS & TUBERS		286	14,234,581		4,747		5,034	5.7
Mung Beans	0	0	0	348	225	348	225	0.0
Beans	506	135	16,539,309	18,447	8,110	18,953	8,245	1.6
Cowpeas	88	18	0	10,674	3,349	10,761	3,367	0.5
Green Gram	0	0	0	964	458	964	458	0.0
Chick Peas	0	0	0	140	28	140	28	0.0
Bambaranuts	0	0	0	88	4	88	4	0.0
Field Peas	698	120	13,788,006	1,396	282	2,093	402	29.8
PULSES		272	30,327,315		12,457		12,730	2.1
Sunflower	140	141	1,116,438	4,363	2,264	4,503	2,405	5.9
Simsim	0	0	0	25,085	12,645	25,085	12,645	0.0
Groundnuts	0	0	0	2,599	617	2,599	617	0.0
Soya Beans	0	0	0	0	0	0	0	0.0
OIL SEEDS & OIL NUTS		141	1,116,438		15,526		15,667	0.9
Okra	88	9	0	333	69	420	78	11.5
Turmeric	0	0	0	0	0	0	0	0.0
Bitter Aubergine	651	94	11,644,320	663	187	1,314	282	33.4
Onions	140	28	837,328	1,378	292	1,517	320	8.8
Ginger	0	0	0	88	36	88	36	0.0
Cabbage	35	7	115,052	1,276	177	1,311	184	3.9
Tomatoes	3,738	1,399	108,527,360	1,273	430	5,011	1,828	76.5
Spinnach	0	0	0	175	3	175	3	0.0
Carrot	0	0	0	629	140	629	140	0.0
Chillies	297	60	3,271,710	279	85	576	145	41.5
Amaranths	0	0	0	246	12	246	12	0.0
Pumpkins	88	9	0	299	15	386	24	0.0
Cucumber	18	2	265,504	140	28	157	30	6.0
Egg Plant	88	9	0	88	2	175	11	0.0
Water Mellon	18	11	212,404	210	117	228	128	8.4
FRUITS & VEGETABLES		1,627	124,873,678		1,593		3,220	50.5
Cotton	0	0	0	88	36	88	36	0.0
Tobacco	0	0	0	769	227	769	227	0.0
CASH CROPS		0	0		262		262	0.0
Total		3,026	177,754,261		235,366		238,392	1.3

5.40: Planted Area & Number of Households by Herbicide Use by Crop - SHORT RAINY SEASON - MOROGORO TOTAL

Crop	Herbicide use							% of area planted Using Herbicide
	Number of Households using Herbicide	Planted Area with Herbicide	Cost of Herbicide	Number of Households NOT using Herbicide	Planted Area with no Herbicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	4,792	3,312	51,623,743	144,981	117,127	149,773	120,439	2.8
Paddy	33,863	44,689	797,638,390	47,663	43,084	81,527	87,774	50.9
Sorghum	0	0	0	7,869	4,004	7,869	4,004	0.0
Bulrush Millet	0	0	0	208	253	208	253	0.0
Wheat	0	0	0	0	0	0	0	0.0
CEREALS		48,001	849,262,133		164,469	239,377	212,470	22.6
Cassava	0	0	0	804	166	804	166	0.0
Sweet Potato	144	58	7,224,032	2,862	1,141	3,007	1,200	4.9
Irish potatoes	0	0	0	279	71	279	71	0.0
Yams	0	0	0	36	3	36	3	0.0
Coco Yam	0	0	0	472	100	472	100	0.0
ROOTS & TUBERS		58	7,224,032		1,482	4,598	1,540	3.8
Mung Bean	144	322	5,780,382	803	532	947	854	0.0
Beans	0	0	0	16,240	7,224	16,240	7,224	0.0
Cowpeas	0	0	0	6,911	2,174	6,911	2,174	0.0
Green gram	0	0	0	1,347	343	1,347	343	0.0
Chick peas	0	0	0	0	0	0	0	0.0
Bambaranuts	0	0	0	998	236	998	236	0.0
Field Peas	0	0	0	1,116	212	1,116	212	0.0
PULSES		322	5,780,382		10,721	27,560	11,042	2.9
Sunflower	0	0	0	2,523	2,855	2,523	2,855	0.0
Simsim	208	89	1,562,066	10,020	4,843	10,228	4,932	1.8
Groundnut	0	0	0	3,733	1,859	3,733	1,859	0.0
OIL SEEDS & OIL NUTS		89	1,562,066		9,557		9,646	0.9
Okra	0	0	0	1,783	531	1,783	531	0.0
Radish	0	0	0	18	2	18	2	0.0
Bitteer Aubergine	0	0	0	951	211	951	211	0.0
Onion	140	57	6,318,098	495	63	636	119	0.0
Ginger	0	0	0	0	0	0	0	0.0
Cabbage	18	2	57,526	491	124	508	126	1.4
Tomatoes	88	9	1,052,885	2,390	605	2,477	614	1.4
Spinach	0	0	0	657	68	657	68	0.0
Carrot	0	0	0	193	50	193	50	0.0
Chillies	0	0	0	928	163	928	163	0.0
Amaranths	0	0	0	1,103	204	1,103	204	0.0
Pumpkins	18	2	57,526	1,132	212	1,150	214	0.8
Cucumber	0	0	0	35	7	35	7	0.0
Egg Plant	0	0	0	469	49	469	49	0.0
Water Mellon	0	0	0	162	33	162	33	0.0
FRUITS & VEGETABLES		69	7,486,035		2,322	11,070	2,391	2.9
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	0	0	0	208	84	208	84	0.0
CASH CROPS		0	0		84	208	84	0.0
Total	39,416	48,539	871,314,648		188,635	299,298	237,174	20.5

5.41: Planted Area & Number of Crop Growing Households by Herbicide Use and Crop for the 2007/08 Agriculture Year - LONG RAINY SEASON (MASIKA) - MOROGORO TOTAL

Crops	Herbicide use							% of Planted area using Herbicide
	Number of Households using Herbicide	Planted Area Herbicide Used	Cost (Tshs) of Herbicide	Number of Households NOT using Herbicide	Planted Area Herbicide not Used	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	1,586	842	14,182,916	122,365	111,095	123,951	111,937	0.8
Paddy	22,332	29,266	477,305,019	56,645	52,722	78,976	81,988	35.7
Sorghum	0	0	0	15,150	7,526	15,150	7,526	0.0
Bulrush Millet	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	0	0	0	0	0	0.0
Wheat	0	0	0	140	28	140	28	0.0
Barley	0	0	0	0	0	0	0	0.0
Cereals		30,108	491,487,934		171,371		201,479	14.9
Cassava	0	0	0	53	14	53	14	0.0
Sweet Potatoes	0	0	0	9,568	3,925	9,568	3,925	0.0
Irish Potatoes	0	0	0	1,832	586	1,832	586	0.0
Yams	0	0	0	18	6	18	6	0.0
Cocoyam	0	0	0	999	501	999	501	0.0
ROOTS & TUBERS		0	0		5,034		5,034	0.0
Mung Beans	0	0	0	348	225	348	225	0.0
Beans	0	0	0	18,953	8,245	18,953	8,245	0.0
Cowpeas	88	36	526,442	10,674	3,331	10,761	3,367	1.1
Green Gram	0	0	0	964	458	964	458	0.0
Chich Peas	0	0	0	140	28	140	28	0.0
Bambaranuts	0	0	0	88	4	88	4	0.0
Field Peas	0	0	0	2,093	402	2,093	402	0.0
PULSES		36	526,442		12,694		12,730	0.3
Sunflower	140	141	837,328	4,363	2,264	4,503	2,405	5.9
Simsim	0	0	0	25,085	12,645	25,085	12,645	0.0
Groundnuts	0	0	0	2,599	617	2,599	617	0.0
Soya Beans	0	0	0	0	0	0	0	0.0
OIL SEEDS & OIL NUTS		141	837,328		15,526		15,667	0.9
Okra	0	0	0	420	78	420	78	0.0
Turmeric	0	0	0	0	0	0	0	0.0
Bitter Aubergine	0	0	0	1,314	282	1,314	282	0.0
Onions	0	0	0	1,517	320	1,517	320	0.0
Ginger	0	0	0	88	36	88	36	0.0
Cabbage	0	0	0	1,311	184	1,311	184	0.0
Tomatoes	558	282	25,398,959	4,245	1,546	4,803	1,828	15.5
Spinach	0	0	0	175	3	175	3	0.0
Carrot	0	0	0	629	140	629	140	0.0
Chillies	140	28	1,116,438	436	117	576	145	19.5
Amaranths	0	0	0	246	12	246	12	0.0
Pumpkins	0	0	0	386	24	386	24	0.0
Cucumber	0	0	0	157	30	157	30	0.0
Egg Plant	0	0	0	175	11	175	11	0.0
Water Mellon	0	0	0	210	128	210	128	0.0
FRUITS & VEGETABLES		311	26,515,397		2,909		3,220	9.7
Cotton	0	0	0	88	36	88	36	0.0
Tobacco	0	0	0	769	227	769	227	0.0
CASH CROPS		0	0		262		262	0.0
Total		30,595	519,367,102		207,797		238,392	12.8

5.42: Planted Area & Number of Households by Improved Seeds Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - MOROGORO TOTAL

Crop	Improved Seed							% of area planted using improved seed
	Number of Households using Improved Seed	Planted Area Improved Seed Used	Cost of Improved Seeds	Number of Households NOT using Improved Seeds	Planted Area Improved Seed not Used	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	18,822	15,330	282,319,119	132,355	105,109	151,176	120,439	12.73
Paddy	7,372	8,016	162,236,910	70,070	79,758	77,443	87,774	9.13
Sorghum	208	84	416,551	7,661	3,920	7,869	4,004	2.11
Bulrush Millet	0	0	0	208	253	0	0	0.00
Wheat	0	0	0	0	0	0	0	0.00
CEREALS		23,430	444,972,580		189,040		212,470	11.03
Cassava	0	0	0	804	166	804	166	0.00
Sweet Potato	144	58	866,884	2,862	1,141	3,007	1,200	4.88
Irish potatoes	0	0	0	279	71	279	71	0.00
Yams	0	0	0	36	3	0	0	0.00
Coco Yam	0	0	0	472	100	472	100	0.00
ROOTS & TUBERS		58	866,884		1,482		1,540	3.80
Mung Bean	0	0	0	947	854	0	0	0.00
Beans	596	314	7,295,697	15,645	6,909	16,240	7,224	4.35
Cowpeas	545	150	913,006	6,366	2,024	6,911	2,174	6.91
Green gram	0	0	0	1,347	343	1,347	343	0.00
Chick peas	0	0	0	0	0	0	0	0.00
Bambaranuts	88	18	263,221	910	218	0	0	0.00
Field Peas	0	0	0	1,116	212	1,116	212	0.00
PULSES		482	8,471,924		10,560	25,615	11,042	4.37
Sunflower	713	765	12,563,736	2,019	2,090	0	0	0.00
Simsim	1,778	1,144	16,244,100	8,450	3,788	10,228	4,932	23.19
Groundnut	0	0	0	3,733	1,859	3,733	1,859	0.00
OIL SEEDS & OIL NUTS		1,908	28,807,836		7,737		9,646	19.78
Okra	854	93	2,141,000	1,554	439	2,408	531	17.42
Radish	18	2	619,510	0	0	0	0	0.00
Bitter Aubergine	226	25	644,591	933	186	1,159	211	11.69
Onion	404	87	90,734,442	232	32	0	0	0.00
Ginger	0	0	0	0	0	0	0	0.00
Cabbage	421	108	2,595,350	88	18	508	126	85.90
Tomatoes	1,769	457	16,928,333	1,074	157	2,843	614	74.43
Spinach	373	40	970,062	284	29	657	68	57.93
Carrot	193	50	1,791,097	0	0	193	50	100.00
Chillies	332	79	1,217,885	613	84	946	163	48.23
Amaranths	743	70	9,229,275	568	133	0	0	0.00
Pumpkins	18	2	17,700	1,132	212	1,150	214	0.84
Cucumber	18	4	8,850	18	4	0	0	0.00
Egg Plant	324	35	559,877	144	15	0	0	0.00
Water Mellon	162	33	558,783	0	0	0	0	0.00
FRUITS & VEGETABLES		1,082	128,016,754		1,309		2,391	45.25
Cotton	0	0	0	0	0	0	0	0.00
Tobacco	0	0	0	208	84	0	0	0.00
CASH CROPS		0	0		84		0	0.00
Total	36,120	26,962	611,135,979		210,213		237,174	11.4

5.43: Planted Area & Number of Crop Growing Households by Improved Seed Use and Crop for the 2007/08 Agriculture Year - LONG RAINY SEASON - MOROGORO TOTAL

Crops	Improved seed use							% of Planted area using Improved seed
	Number of Households using Improved seed	Planted Area Improved seed Used	Cost (Tshs) of Improved seed	Number of Households NOT using Improved seed	Planted Area without Improved seed	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	19,384	20,306	447,114,488	104,191	91,631	123,575	111,937	18.1
Paddy	5,932	8,679	259,586,389	71,135	73,309	77,067	81,988	10.6
Sorghum	157	64	611,320	14,993	7,462	15,150	7,526	0.8
Bulrush Millet	0	0	0	0	0	0	0	0.0
Finger Millet	0	0	0	0	0	0	0	0.0
Wheat	0	0	0	140	28	140	28	0.0
Cereals		29,049	707,312,198		172,430		201,479	14.4
Cassava	18	3	177,003	35	12	53	14	0.0
Sweet Potatoes	144	29	722,403	9,424	3,896	9,568	3,925	0.7
Irish Potatoes	18	3	53,101	1,814	583	1,832	586	0.5
Yams	0	0	0	18	6	18	6	0.0
Cocoyam	0	0	0	999	501	999	501	0.0
ROOTS & TUBERS		35	952,507		4,999		5,034	0.7
Mung Beans	0	0	0	348	225	348	225	0.0
Beans	646	205	6,147,452	18,307	8,040	18,953	8,245	2.5
Cowpeas	649	256	1,819,160	10,112	3,111	10,761	3,367	7.6
Green Gram	0	0	0	964	458	964	458	0.0
Chich Peas	0	0	0	140	28	140	28	0.0
Bambaranuts	0	0	0	88	4	88	4	0.0
Field Peas	0	0	0	2,093	402	2,093	402	0.0
PULSES		461	7,966,612		12,268		12,730	3.6
Sunflower	1,307	833	11,827,928	3,196	1,573	4,503	2,405	34.6
Simsim	1,411	605	6,598,637	23,673	12,039	25,085	12,645	4.8
Groundnuts	385	75	3,920,532	2,215	542	2,599	617	12.2
Soya Beans	88	5	701,923	1,492	332	1,579	337	0.0
OIL SEEDS & OIL NUTS		1,513	22,347,098		14,154		16,004	9.5
Okra	88	4	175,481	333	73	420	78	5.5
Bitter Aubergine	353	25	809,650	961	256	1,314	282	8.9
Onions	611	97	12,722,649	906	223	1,517	320	30.4
Ginger	0	0	0	88	36	88	36	0.0
Cabbage	1,171	168	20,537,461	140	16	1,311	184	91.3
Tomatoes	3,965	1,483	58,746,605	837	345	4,803	1,828	81.1
Spinnach	175	3	1,359,976	0	0	175	3	0.0
Carrot	629	131	10,738,616	0	8	629	140	94.0
Chillies	436	117	3,839,942	140	28	576	145	80.5
Amaranth	88	2	70,192	159	10	246	12	0.0
Pumpkins	0	0	0	386	24	386	24	0.0
Cucumber	157	28	551,958	0	2	157	30	94.8
Egg Plant	0	0	0	175	11	175	11	0.0
Water Mellon	71	72	2,424,941	140	56	210	128	55.9
FRUITS & VEGETABLES		2,132	111,977,471		1,089		3,220	66.2
Cotton	0	0	0	88	36	88	36	0.0
Tobacco	0	0	0	769	227	769	227	0.0
CASH CROPS		0	0		262		262	0.0
Total		33,190	850,555,886		205,202		238,729	13.9

5.44: Planted Area & Number of Households by Local Seeds Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON -MOROGORO TOTAL

Crop	Local Seed							% of area planted using Local seed
	Number of Households using Local Seed	Planted Area Local Seed Used	Cost of Local Seeds	Number of Households NOT using Local Seeds	Planted Area Local Seed not Used	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	130,198	102,438	1,205,184,695	22,214	18,002	152,412	120,439	85.1
Paddy	69,693	79,359	1,814,395,161	7,870	8,415	77,563	87,774	90.4
Sorghum	7,661	3,920	28,461,312	208	84	7,869	4,004	97.9
Bulrush Millet	208	253	52,069	0	0	208	253	0.0
Wheat	0	0	0	0	0	0	0	0.0
CEREALS		185,969	3,048,093,237		26,501	238,052	212,470	87.5
Cassava	804	166	3,875,733	0	0	804	166	100.0
Sweet Potato	2,862	1,140	26,076,727	162	59	3,024	1,200	95.0
Irish potatoes	279	71	5,023,970	0	0	279	71	100.0
Yams	36	1	14,780	36	3	72	4	0.0
Coco Yam	472	99	17,433,990	18	1	489	100	99.1
ROOTS & TUBERS		1,477	52,796,906		63	4,669	1,541	95.9
Mung Bean	947	854	12,066,190	0	0	947	854	0.0
Beans	15,645	6,772	340,082,830	1,120	452	16,764	7,224	93.7
Cowpeas	6,366	2,011	38,717,764	807	163	7,172	2,174	92.5
Green gram	1,347	343	1,789,529	0	0	1,347	343	100.0
Chick peas	0	0	0	0	0	0	0	0.0
Bambaranuts	910	218	2,517,264	88	18	998	236	92.5
Field Peas	1,116	212	13,321,894	0	0	1,116	212	0.0
PULSES		10,410	408,495,470		632	28,345	11,042	94.3
Sunflower	1,811	2,069	4,431,163	713	786	2,523	2,855	0.0
Simsim	8,450	3,758	43,617,127	2,074	1,174	10,524	4,932	76.2
Groundnut	3,733	1,852	29,940,066	88	7	3,820	1,859	99.6
OIL SEEDS & OIL NUTS		7,680	77,988,356		1,966	16,868	9,646	79.6
Okra	929	318	8,048,093	1,016	213	1,945	531	59.9
Radish	0	0	0	18	2	18	2	0.0
Bitteer Aubergine	725	153	6,945,533	370	59	1,095	211	72.3
Onion	232	32	686,423	404	87	636	119	0.0
Ginger	0	0	0	0	0	0	0	0.0
Cabbage	88	18	526,442	421	108	508	126	14.1
Tomatoes	709	144	10,052,272	1,769	470	2,477	614	23.5
Spinach	284	16	119,853	518	52	802	68	23.3
Carrot	0	0	0	193	50	193	50	0.0
Chillies	596	71	1,305,793	477	92	1,072	163	0.0
Amaranths	360	47	1,185,101	888	157	1,247	204	0.0
Pumpkins	1,132	113	770,174	515	101	1,647	214	52.7
Cucumber	18	4	97,352	18	4	35	7	0.0
Egg Plant	144	2	28,896	469	47	613	49	0.0
Water Mellon	0	0	0	162	33	162	33	0.0
FRUITS & VEGETABLES		917	29,765,933		1,474	12,452	2,391	38.4
Cotton	0	0	0	0	0	0	0	0.0
Tobacco	208	84	624,826	0	0	208	84	0.0
CASH CROPS		84	624,826		0	208	84	0.0
Total	257,962	206,538	3,617,764,728		30,637	300,595	237,175	87.1

5.45: Planted Area & Number of Crop Growing Households by Local seed Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - MOROGORO TOTAL

Crops	Local seed use							% of Planted area using Local seed
	Number of Households using Local seed	Planted Area Local seed Used	Cost (Tshs) of Local Seed	Number of Households NOT using Local seed	Planted Area Local seed not Used	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	104,191	80,272	918,576,905	25,114	31,665	129,304	111,937	71.7
Paddy	71,135	72,540	1,988,251,533	8,610	9,448	79,745	81,988	88.5
Sorghum	14,993	7,441	56,622,315	366	85	15,358	7,526	98.9
Bulrush Millet	0	0	0	0	0	0	0	0.0
Wheat	140	28	2,093,321	0	0	140	28	100.0
Cereals		160,281	2,965,544,074		41,199		201,479	79.6
Cassava	35	11	477,908	18	4	53	14	75.0
Sweet Potatoes	9,424	3,867	204,720,589	433	58	9,857	3,925	98.5
Irish Potatoes	1,814	583	93,710,994	18	4	1,832	586	99.4
Yams	18	5	66,376	18	2	35	6	75.0
Cocoyam	999	495	61,756,951	18	6	1,017	501	98.7
ROOTS & TUBERS		4,960	360,732,819		74		5,034	98.5
Mung Beans	348	225	4,540,608	0	0	348	225	100.0
Beans	18,307	7,541	413,647,533	2,197	705	20,504	8,245	91.5
Cowpeas	10,112	2,958	41,361,131	1,139	408	11,251	3,367	87.9
Green Gram	964	449	4,389,628	88	9	1,051	458	98.1
Chich Peas	140	28	70,201	0	0	140	28	100.0
Bambaranuts	88	4	263,221	0	0	88	4	100.0
Field Peas	2,093	360	29,878,665	140	42	2,233	402	89.5
PULSES		11,565	494,150,988		1,165		12,730	90.9
Sunflower	3,196	1,573	11,385,663	1,307	833	4,503	2,405	65.4
Simsim	23,673	12,008	95,904,537	1,675	636	25,348	12,645	95.0
Groundnuts	2,215	496	39,711,371	823	121	3,038	617	80.3
OIL SEEDS & OIL NUTS		14,077	147,001,570		1,590		15,667	89.8
Okra	333	73	3,232,080	88	4	420	78	94.5
Radish	0	0	0	0	0	0	0	0.0
Bitter Aubergine	961	246	4,545,547	353	36	1,314	282	87.3
Onions	906	212	13,794,784	611	108	1,517	320	66.1
Ginger	88	36	1,754,808	0	0	88	36	100.0
Cabbage	140	14	418,664	1,171	170	1,311	184	7.7
Tomatoes	837	297	7,675,510	3,965	1,532	4,803	1,828	16.2
Spinnach	0	0	0	175	3	175	3	0.0
Carrot	0	0	0	629	140	629	140	0.0
Chillies	140	28	139,555	436	117	576	145	19.5
Amaranths	159	8	512,928	105	4	264	12	69.6
Pumpkins	386	24	762,533	0	0	386	24	100.0
Cucumber	0	0	0	157	30	157	30	0.0
Egg Plant	175	11	219,351	0	0	175	11	100.0
Water Mellon	140	56	697,774	71	72	210	128	44.1
FRUITS & VEGETABLES		1,005	33,753,534		2,215		3,220	31.2
Cotton	88	36	263,221	0	0	88	36	100.0
Tobacco	769	227	9,638,651	0	0	769	227	100.0
CASH CROPS		262	9,901,872		0		262	100.0
Total		192,150	4,011,084,858		46,242		238,392	80.6

5.46: Planted Area & Number of Households by Irrigation Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - MOROGORO TOTAL

Crop	Irrigation use						% of Planted area using Irrigation
	Number of Households using Irrigation	Planted Area Irrigated	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Maize	6,025	2,969	144,046	117,470	25,957	120,439	2.5
Paddy	5,307	5,763	72,464	82,011	2,652	87,774	6.6
Sorghum	0	0	7,869	4,004	2,791	4,004	0.0
Bulrush Millet	0	0	208	253	0	253	0.0
Wheat	0	0	0	0	0	0	0.0
CEREALS		8,732		203,738		212,470	4.1
Cassava	0	0	804	166	140	166	0.0
Sweet Potato	53	7	2,954	1,192	140	1,200	0.6
Irish potatoes	279	71	0	0	279	71	100.0
Yams	0	0	36	3	0	0	0.0
Coco Yam	0	0	472	100	419	100	0.0
ROOTS & TUBERS		78		1,463		1,540	0.0
Mung Bean	18	4	930	850	0	854	0.0
Beans	1,192	356	15,472	6,867	8,932	7,224	4.9
Cowpeas	212	39	6,699	2,135	4,187	2,174	1.8
Green gram	0	0	1,347	343	698	343	0.0
Chick peas	0	0	0	0	0	0	0.0
Bambaranuts	0	0	998	236	0	236	0.0
Field Peas	419	99	698	113	1116	212	46.7
PULSES		498		10,544		11,042	4.5
Sunflower	0	0	2,523	2,855	0	2,855	0.0
Simsim	289	15	10,228	4,917	140	4,932	0.0
Groundnut	289	7	3,733	1,851	140	1,859	0.0
OIL SEEDS & OIL NUTS		22		9,624		9,646	0.2
Okra	964	75	1,588	456	140	531	14.1
Radish	18	2	0	0	0	2	0.0
Bitteer Aubergine	579	113	725	98	140	211	53.4
Onion	88	4	548	116	0	119	0.0
Ginger	0	0	0	0	0	0	0.0
Cabbage	385	97	123	29	279	126	77.4
Tomatoes	1,762	498	923	116	1,116	614	81.1
Spinach	640	54	162	15	140	68	78.7
Carrot	140	28	53	21	140	50	56.8
Chillies	639	123	433	40	279	163	75.4
Amaranths	761	52	839	152	0	204	0.0
Pumpkins	477	27	1,026	187	279	214	12.8
Cucumber	18	4	18	4	0	7	0.0
Egg Plant	180	9	433	40	0	49	0.0
Water Mellon	18	4	144	29	0	33	0.0
FRUITS & VEGETABLES		1,089		1,303		2391	45.5
Cotton	0	0	0	0	0	0	0.0
Tobacco	0	0	208	84	0	84	0.0
CASH CROPS		0		84		84	0.0
Total		10,419		226,755		237,174	4.4

5.47: Planted Area & Number of Crop Growing Households by Irrigation Use and Crop for the 2007/08 agriculture year - LONG SEASON - MOROGORO TOTAL

Crop	Irrigation use						% of Planted area using Irrigation
	Number of Households using Irrigation	Planted Area Irrigation Used	Number of Households NOT using Irrigation	Planted Area Irrigation not Used	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	1,963	924	121,961	111,013	123,923	111,937	0.8
Paddy	5,727	4,375	72,312	77,613	78,039	81,988	5.3
Sorghum	0	0	15,150	7,526	15,150	7,526	0.0
Bulrush Millet	0	0	0	0	0	0	0.0
Wheat	0	0	140	28	140	28	0.0
Cereals		5,299	209,562	196,180	217,252	201,479	2.6
Cassava	0	0	53	14	53	14	0.0
Sweet Potatoes	140	113	9,429	3,812	9,568	3,925	2.9
Irish Potatoes	1,535	452	855	134	2,390	586	77.1
Yams	0	0	18	6	17.70029582	6.4495005	0.0
Cocoyam	0	0	999	501	999	501	0.0
ROOTS & TUBERS		565	11,354	4,469	12,029	4,532	12.5
Mung Beans	0	0	348	225	348	225	0.0
Beans	1,462	300	17,910	7,946	19,372	8,245	3.6
Cowpeas	140	21	10,761	3,345	10,902	3,367	0.6
Green Gram	0	0	964	458	964	458	0.0
Chich Peas	0	0	140	28	140	28	0.0
Bambaranuts	0	0	88	4	88	4	0.0
Field Peas	558	63	1,535	339	2093	402	15.7
PULSES		384	31,746	12,345	33,907	12,730	3.0
Sunflower	0	0	4,503	2,405	4,503	2,405	0.0
Simsim	417	358	24,876	12,286	25,293	12,645	2.8
Groundnuts	18	2	2,582	616	2,599	617	0.3
OIL SEEDS & OIL NUTS		360	31,961	15,307	32,395	15,667	2.3
Okra	175	11	245	66	420	78	14.7
Radish	0	0	0	0	0	0	0.0
Bitter Aubergine	1,018	252	296	30	1,314	282	89.4
Onions	1,150	259	367	61	1,517	320	80.9
Ginger	0	0	88	36	88	36	0.0
Cabbage	1,154	152	157	32	1,311	184	82.7
Tomatoes	2,833	673	2,249	1,155	5,082	1,828	36.8
Spinnach	175	3	0	0	175	3	100.0
Carrot	611	135	35	5	647	140	96.5
Chillies	297	88	279	56	576	145	61.0
Amaranths	105	4	141	8	246	12	32.3
Pumpkins	175	11	211	13	386	24	46.1
Cucumber	140	28	18	2	157	30	94.0
Egg Plant	175	11	0	0	175	11	100.0
Water Mellon	0	0	210	128	210	128	0.0
FRUITS & VEGETABLES		1,628		1,592		3,220	50.5
Cotton	0	0	88	36	88	36	0.0
Tobacco	0	0	769	227	769	227	0.0
CASH CROPS		0	857	262	857	262	0.0
Total	19,970	8,236	289,775	230,156	308,745	237,891	3.5

PERMANENT CROPS

5.48: Number of Households Planting Permanent Crops by District, 2007/08
Agriculture Year -MOROGORO REGION

District	Have Crops/Fruit Trees		Does Not Have Crops/Fruit Trees		Total	
	Number	%	Number	%	Number	%
Kilosa	10,830	12.8	73,521	87.2	84,352	100.0
Morogoro Rural	16,848	29.6	40,015	70.4	56,863	100.0
Kilombero	17,771	30.4	40,744	69.6	58,515	100.0
Ulanga	16,583	46.7	18,952	53.3	35,535	100.0
Morogoro Urban	3,009	45.3	3,629	54.7	6,638	100.0
Mvomero	20,794	36.8	35,726	63.2	56,520	100.0
Total	85,835	28.8	212,586	71.2	298,421	100.0

5.49: 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	
Kilosa	7,706	6,102	3,957	1,614	10,830	7,716	6,582
Morogoro Rural	12,636	6,601	8,424	16,963	16,427	23,564	11,208
Kilombero	9,680	7,539	10,692	3,810	17,771	11,349	8,308
Ulanga	7,282	2,191	12,810	3,784	16,583	5,975	2,878
Morogoro Urban	2,531	1,685	1,859	1,183	3,009	2,868	2,348
Mvomero	8,513	7,177	15,351	7,533	20,794	14,710	11,656
Total	48,349	31,295	53,093	34,887	85,414	66,182	42,980

5.50: Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop- KILOSA

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					
Cashewnut	417	205	20	8	8,331	0.4	406.40
Banana	2,499	650	565	1,462	1,462,094	2.6	2,589.98
Coffee	0	0	0	0	0	0.0	.00
Mango	3,124	584	445	2,385	2,384,754	5.4	5,356.97
Pigeon pea	2,083	1,517	1,517	352	351,985	0.2	232.03
Coconut	3,124	838	671	783	783,324	1.2	1,166.80
Orange	625	105	2	177	177,034	85.0	85,000.00
Sugar cane	3,124	3,617	3,166	25,414	25,414,185	8.0	8,027.97
Palm Oil	0	0	0	0	0	0.0	.00
Cloves	0	0	0	0	0	0.0	.00
Other	1,458	200	196	451	450,916	2.3	2,301.53
Total		7,716	6,582			4.7	4,714.62

5.51: Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop- MOROGORO 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					
Cashewnut	0	0	0	0	0	.00	.00
Banana	6,880	3,356	2,680	12,785	12,784,600	4.77	4,770.02
Coffee	140	9	0	8	8,424	.00	.00
Mango	842	484	290	733	732,899	2.53	2,527.63
Pigeon pea	421	88	88	26	25,553	.29	288.93
Coconut	3,229	3,252	1,344	1,958	1,957,908	1.46	1,457.02
Orange	2,668	1,751	1,018	3,881	3,880,576	3.81	3,811.16
Sugar cane	983	167	167	2,043	2,042,852	12.26	12,260.28
Palm Oil	0	0	0	0	0	.00	.00
Cloves	842	497	441	442	442,267	1.00	1,003.94
Other	1,458	200	196	451	450,916	2.30	2,301.53
Total		9,806	6,224			3.59	3,587.27

5.52: Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop- KILOMBERO

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					
Cashewnut	433	152	.	30	30,341	.00	.00
Banana	9,536	1,527	1,183	7,058	7,057,591	5.96	5,963.88
Coffee	0	0	0	0	0	.00	.00
Mango	6,502	776	266	2,888	2,888,457	10.84	10,844.75
Pigeon pea	144	58	.	51	50,568	.00	.00
Coconut	4,912	469	209	793	792,765	3.80	3,800.34
Orange	2,456	1,757	831	6,213	6,212,957	7.48	7,478.56
Sugar cane	2,601	4,751	4,750	10,155	10,155,111	2.14	2,138.07
Palm Oil	2,456	332	91	427	426,651	4.68	4,683.79
Cloves	0	0	0	0	0	.00	.00
Other	7,657	1,526	978	4,501	4,501,006	4.60	4,602.43
Total		11,349	8,308			3.87	3,865.69

**5.53: Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop-
ULANGA**

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					
Cashewnut	263	36	26	0.1	88	.00	3.39
Banana	8,511	1,206	647	3,711.7	3,711,683	5.73	5,733.03
Coffee	0	0	0	0.0	0	.00	.00
Mango	6,317	669	224	1,382.0	1,381,999	6.16	6,164.47
Pigeon pea	614	58	32	30.5	30,534	.94	943.42
Coconut	6,230	776	289	682.6	682,620	2.36	2,362.83
Orange	3,597	212	108	333.0	332,975	3.08	3,077.09
Sugar cane	790	138	87	502.1	502,051	5.78	5,780.02
Palm Oil	2,018	210	128	160.8	160,828	1.25	1,254.50
Cloves	0	0	0	0.0	0	.00	.00
Other	11,143	2,671	1,336	4,036.0	4,035,971	3.02	3,020.98
Total		5,975	2,878			3.77	3,766.05

**5.54: Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop-
MOROGORO URBAN**

Crop	Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)	Quantity Harvested (kgs)	Yield (tons/Ha)	Yield (Kg/Ha)
	Number of households	Area					
Cashewnut	0	0	0	0	0	.00	.00
Banana	2,177	1,676	1,487	6,983	6,983,386	4.70	4,697.35
Coffee	35	18	7	5	4,956	.70	700.00
Mango	212	23	12	21	21,081	1.79	1,790.19
Pigeon pea	513	214	139	67	67,420	.48	483.87
Coconut	89	18	15	30	30,268	1.97	1,974.27
Orange	53	11	11	27	26,550	2.41	2,407.74
Sugar cane	89	135	34	205	204,615	6.03	6,029.24
Palm Oil	0	0	0	0	0	.00	.00
Cloves	0	0	0	0	0	.00	.00
Other	2,018	773	643	1,635	1,635,224	2.54	2,544.64
Total		2,868	2,348			3.82	3,822.14

5.55: Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop-MVOMERO

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					
Cashewnut	279	25	.	2	1,954	.00	.00
Banana	7,676	2,355	1,793	9,010	9,010,350	5.03	5,025.70
Coffee	1,116	719	681	142	142,346	.21	208.96
Mango	5,861	876	367	11,438	11,437,905	31.17	31,171.59
Pigeon pea	4,466	1,645	1,411	861	860,774	.61	610.17
Coconut	1,675	210	137	556	555,986	4.06	4,058.71
Orange	3,070	745	142	2,719	2,719,224	19.21	19,211.20
Sugar cane	2,093	3,406	3,352	19,577	19,577,155	5.84	5,841.29
Palm Oil	0	0	0	0	0	.00	.00
Cloves	0	0	0	0	0	.00	.00
Other	15,351	4,729	3,774	11,397	11,397,434	3.02	3,019.84
Total		14,710	11,656			4.78	4,778.95

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

District	Cashewnut							
	Area of Plants/Trees/Bushes in Mono Crop (ha)		Area Covered by Permanent Crop in Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)
	Number of households	Area	Number of households	Area	Number of households	Area	Area	tons
Kilosa	0	0	417	205	417	205	20	8
Morogoro Rural	0	0	0	0	0	0	0	0
Kilombero	289	50	433	102	433	152	50	30
Ulanga	0	.	263	36	263	36	26	0
Morogoro Urban	0	0	0	0	0	0	0	0
Mvomero	0	.	279	25	279	25	25	2
Total	289	50	1,392	367	1,392	417	46	41

Cont. 5.56: Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District

District	Banana							
	Area of Plants/Trees/Bushes in Mono Crop (ha)		Area Covered by Permanent Crop in Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)
	Number of households	Area	Number of households	Area	Number of households	Area	Area	tons
Kilosa	2,291	560	833	90	2,499	650	565	1,462
Morogoro Rural	4,072	1,772	4,633	1,585	6,880	3,356	2,680	12,785
Kilombero	3,179	862	6,935	664	9,536	1,527	1,183	7,058
Ulanga	2,544	432	7,458	774	8,511	1,206	647	3,712
Morogoro Urban	1,752	1,125	1,363	551	2,177	1,676	1,487	6,983
Mvomero	1,814	975	6,001	1,380	7,676	2,355	1,793	9,010
Total	15,652	5,726	27,223	5,044	37,278	10,770	8,355	41,010

Cont. 5.56: Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District

District	Coffee							
	Area of Plants/Trees/Bushes in Mono Crop (ha)		Area Covered by Permanent Crop in Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)
	Number of households	Area	Number of households	Area	Number of households	Area	Area	tons
Kilosa	0	0	0	0	0	0	0	0
Morogoro Rural	0	0	140	9	140	9	0	8
Kilombero	0	0	0	0	0	0	0	0
Ulanga	0	0	0	0	0	0	0	0
Morogoro Urban	18	0	35	17	35	18	7	5
Mvomero	558	303	837	416	1116	719	681	142
Total	576	303	1013	443	1292	746	688	156

Cont. 5.56: Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District

District	Mango							
	Area of Plants/Trees/Bushes in Mono Crop (ha)		Area Covered by Permanent Crop in Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)
	Number of households	Area	Number of households	Area	Number of households	Area	Area	tons
Kilosa	625	104	2,708	480	3,124	584	445	2,385
Morogoro Rural	421	166	702	318	842	484	290	733
Kilombero	1,878	256	4,912	520	6,502	776	266	2,888
Ulanga	526	19	6,142	649	6,317	669	224	1,382
Morogoro Urban	106	4	142	19	212	23	12	21
Mvomero	419	176	5,443	701	5,861	876	367	11,438
Total	3,976	725	20,048	2,687	22,859	3,412	1,604	18,847

Cont. 5.56: Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District

District	Pigeon pea							
	Area of Plants/Trees/Bushes in Mono Crop (ha)		Area Covered by Permanent Crop in Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)
	Number of households	Area	Number of households	Area	Number of households	Area	Area	tons
Kilosa	1,874	1,312	208	205	2,083	1,517	1,517	352
Morogoro Rural	421	88	0	.	421	88	88	26
Kilombero	144	57	144	1	144	58	58	51
Ulanga	263	21	526	36	614	58	32	31
Morogoro Urban	354	72	319	142	513	214	139	67
Mvomero	837	217	3,768	1,428	4,466	1,645	1,411	861
Total	3,895	1,768	4,966	1,812	8,242	3,581	3,188	1,387

Cont. 5.56: Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District

District	Coconut							
	Area of Plants/Trees/Bushes in Mono Crop (ha)		Area Covered by Permanent Crop in Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)
	Number of households	Area	Number of households	Area	Number of households	Area	Area	tons
Kilosa	1,041	433	2,083	405	3,124	838	671	783
Morogoro Rural	983	313	2,527	2,939	3,229	3,252	1,344	1,958
Kilombero	1,300	153	3,901	316	4,912	469	209	793
Ulanga	1,228	274	5,703	502	6,230	776	289	683
Morogoro Urban	35	10	53	7	89	18	15	30
Mvomero	140	14	1,535	196	1,675	210	137	556
Total	4,728	1,197	15,802	4,365	19,258	5,562	2,665	4,803

Cont. 5.56: Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District

District	Orange							
	Area of Plants/Trees/Bushes in Mono Crop (ha)		Area Covered by Permanent Crop in Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)
	Number of households	Area	Number of households	Area	Number of households	Area	Area	tons
Kilosa	208	2	625	104	625	105	2	177
Morogoro Rural	842	192	2,246	1,559	2,668	1,751	1,018	3,881
Kilombero	1,011	381	2,312	1,377	2,456	1,757	831	6,213
Ulanga	526	27	3,334	185	3,597	212	108	333
Morogoro Urban	18	7	53	4	53	11	11	27
Mvomero	419	247	2,791	498	3,070	745	142	2,719
Total	3,025	855	11,361	3,727	12,469	4,582	2,112	13,349

Cont. 5.56: Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District

District	Sisal							
	Area of Plants/Trees/Bushes in Mono Crop (ha)		Area Covered by Permanent Crop in Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)
	Number of households	Area	Number of households	Area	Number of households	Area	Area	tons
Kilosa	0	0	0	0	0	0	0	0
Morogoro Rural	0	0	0	0	0	0	0	0
Kilombero	0	0	0	0	0	0	0	0
Ulanga	0	0	0	0	0	0	0	0
Morogoro Urban	0	0	0	0	0	0	0	0
Mvomero	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0

Cont. 5.56: Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District

District	Sugar Cane							
	Area of Plants/Trees/Bushes in Mono Crop (ha)		Area Covered by Permanent Crop in Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)
	Number of households	Area	Number of households	Area	Number of households	Area	Area	tons
Kilosa	2,916	3,507	208	110	3,124	3,617	3,166	25,414
Morogoro Rural	562	53	842	114	983	167	167	2,043
Kilombero	1,878	4,735	722	16	2,601	4,751	4,750	10,155
Ulanga	263	78	526	61	790	138	87	502
Morogoro Urban	71	38	53	97	89	135	34	205
Mvomero	2,093	3,406	0	0	2,093	3,406	3,352	19,577
Total	7,783	11,818	2,353	397	9,679	12,215	11,554	57,896

Cont. 5.56: Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District

District	Palm Oil							
	Area of Plants/Trees/Bushes in Mono Crop (ha)		Area Covered by Permanent Crop in Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)
	Number of households	Area	Number of households	Area	Number of households	Area	Area	tons
Kilosa	0	0	0	0	0	0	0	0
Morogoro Rural	0	0	0	0	0	0	0	0
Kilombero	578	117	2,167	216	2,456	332	91	427
Ulanga	526	32	1,930	177	2,018	210	128	161
Morogoro Urban	0	0	0	0	0	0	0	0
Mvomero	0	0	0	0	0	0	0	0
Total	1,104	149	4,097	393	4,474	542	219	587

Cont. 5.56: Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District

District	Tea							
	Area of Plants/Trees/Bushes in Mono Crop (ha)		Area Covered by Permanent Crop in Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)
	Number of households	Area	Number of households	Area	Number of households	Area	Area	tons
Kilosa	0	0	0	0	0	0	0	0
Morogoro Rural	0	0	0	0	0	0	0	0
Kilombero	0	0	0	0	0	0	0	0
Ulanga	0	0	0	0	0	0	0	0
Morogoro Urban	0	0	0	0	0	0	0	0
Mvomero	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0

Cont. 5.56: Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District

District	Cloves							
	Area of Plants/Trees/Bushes in Mono Crop (ha)		Area Covered by Permanent Crop in Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)
	Number of households	Area	Number of households	Area	Number of households	Area	Area	tons
Kilosa	0	.	0	.	0	.	.	.
Morogoro Rural	842	497	0	.	842	497	441	442
Kilombero	0	.	0	0	0	0	0	.
Ulanga	0	0	0	0	0	0	0	0
Morogoro Urban	0	0	0	0	0	0	0	0
Mvomero	0	0	0	0	0	0	0	0
Total	842	497	0	0	842	497	441	442

Cont. 5.56: Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District

District	Other							
	Area of Plants/Trees/Bushes in Mono Crop (ha)		Area Covered by Permanent Crop in Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)
	Number of households	Area	Number of households	Area	Number of households	Area	Area	tons
Kilosa	833	184	625	16	1,458	200	196	451
Morogoro Rural	11,373	4,017	5,476	10,438	13,338	14,455	5,621	16,597
Kilombero	3,323	928	4,623	598	7,657	1,526	978	4,501
Ulanga	5,001	1,308	7,721	1,363	11,143	2,671	1,336	4,036
Morogoro Urban	1,398	427	1,168	346	2,018	773	643	1,635
Mvomero	5,024	1,838	10,746	2,891	15,351	4,729	3,774	11,397
Total	26,952	8,703	30,359	15,652	50,965	24,355	12,548	38,617

ACCESS TO AEQUIPMENTS

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 and Oil Mill		Oxplough		Oxplanter		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Kilosa	75,604	89.6	82,894	98.3	9,164	10.9	1,041	1.2	1,458	1.7	208	0.2	84,352
Morogoro Rural	56,161	98.8	56,161	98.8	1,123	2.0	140	0.2	140	0.2	140	0.2	56,863
Kilombero	56,203	96.0	57,792	98.8	10,836	18.5	722	1.2	4,045	6.9	144	0.2	58,515
Ulanga Morogoro	34,043	95.8	35,184	99.0	6,317	17.8	175	0.5	2,369	6.7	88	0.2	35,535
Urban	6,443	97.1	6,549	98.7	673	10.1	35	0.5	18	0.3	35	0.5	6,638
Mvomero	55,403	98.0	55,682	98.5	7,815	13.8	279	0.5	558	1.0	0	0.0	56,520
Total	283,857	95.1	294,262	98.6	35,928	12.0	2,394	0.8	8,589	2.9	616	0.2	298,421

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

District	Equipment/Asset Name												Total number of Agricultural Households
	Ox cart		Tractor		Tractor plough		Tractor Harrow		Castrated bulls		Uncastrated bulls		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Kilosa	1,666	2.0	2,708	3.2	1,666	2.0	1,458	1.7	2,708	3.2	2,916	3.5	84,352
Morogoro Rural	140	0.2	281	0.5	281	0.5	281	0.5	421	0.7	562	1.0	56,863
Kilombero	578	1.0	1,300	2.2	1,011	1.7	578	1.0	4,045	6.9	722	1.2	58,515
Ulanga	351	1.0	526	1.5	263	0.7	175	0.5	1,755	4.9	965	2.7	35,535
Morogoro Urban	18	0.3	53	0.8	89	1.3	71	1.1	106	1.6	142	2.1	6,638
Mvomero	698	1.2	1,954	3.5	1,116	2.0	279	0.5	558	1.0	558	1.0	56,520
Total	3,451	1.2	6,822	2.3	4,427	1.5	2,842	1.0	9,593	3.2	5,865	2.0	298,421

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		Sheller/Threshers		Power tiller		Ox Ridger		
	Number	%	Number	%	Number	%	Number	%	Number	%	
Kilosa	2,083	2.5	417	0.5	833	1.0	208	0.2	208	0.2	84,352
Morogoro Rural	562	1.0	140	0.2	140	0.2	140	0.2	140	0.2	56,863
Kilombero	578	1.0	289	0.5	289	0.5	144	0.2	289	0.5	58,515
Ulanga	790	2.2	88	0.2	88	0.2	175	0.5	0	0.0	35,535
Morogoro Urban	142	2.1	18	0.3	0	0.0	53	0.8	18	0.3	6,638
Mvomero	558	1.0	698	1.2	140	0.2	279	0.5	140	0.2	56,520
Total	4,712	1.6	1,649	0.6	1,490	0.5	1,001	0.3	795	0.3	298,421

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 and Oil Mill		Ox plough		Ox planter	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Kilosa	142,460	22.3	262,635	28.6	11,247	19.8	5,832	42.0	2,083	11.7	208	6.6
Morogoro Rural	112,743	17.7	151,494	16.5	3,931	6.9	281	2.0	281	1.6	281	8.9
Kilombero	154,594	24.2	194,182	21.1	16,615	29.2	867	6.2	6,646	37.2	144	4.6
Ulanga	103,358	16.2	118,362	12.9	9,651	17.0	263	1.9	4,563	25.5	1,755	55.4
Morogoro Urban	13,063	2.0	18,833	2.0	920	1.6	496	3.6	389	2.2	779	24.6
Mvomero	111,504	17.5	174,304	18.9	14,514	25.5	6,140	44.2	3,908	21.9	0	0.0
Total	637,723	100.0	919,810	100.0	56,879	100.0	13,879	100.0	17,869	100.0	3,167	100.0

Cont. 6.2: Number of Agricultural Equipment/Asset Owned by type and District for 2007/08 Agriculture Year

District	Equipment/Asset Name											
	Ox cart		Tractor		Tractor plough		Tractor Harrow		Castrated bulls		Uncastrated bulls	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Kilosa	2,708	22.11	7,081	29.3	6,040	36.6	6,457	34.5	6,248	10.8	7,290	24.7
Morogoro Rural	140	1.15	281	1.2	3,229	19.6	3,229	17.2	1,404	2.4	1,966	6.7
Kilombero	578	4.7	2,312	9.6	1,300	7.9	3,468	18.5	28,318	49.1	2,456	8.3
Ulanga	614	5.0	2,808	11.6	790	4.8	2,018	10.8	18,689	32.4	13,951	47.3
Morogoro Urban	389	3.2	71	0.3	832	5.0	212	1.1	478	0.8	2,602	8.8
Mvomero	7,815	63.8	11,583	48.0	4,326	26.2	3,349	17.9	2,512	4.4	1,256	4.3
Total	12,245	100.0	24,135	100.0	16,517	100.0	18,733	100.0	57,649	100.0	29,520	100.0

Cont. 6.2: Number of Agricultural Equipment/Asset Owned by type and District for 2007/08 Agriculture Year

District	Equipment/Asset Name									
	Cow		Donkey		Sheller/Threshers		Power tiller		Ox Ridger	
	Number	%	Number	%	Number	%	Number	%	Number	%
Kilosa	11,872	23.3	625	8.4	5,623	38.0	208	5.1	208	5.6
Morogoro Rural	11,513	22.6	140	1.9	140	0.9	140	3.5	140	3.8
Kilombero	13,292	26.1	3,323	44.8	4,479	30.3	144	3.6	289	7.7
Ulanga	11,143	21.9	1,053	14.2	1,755	11.9	1,930	47.6	0	0.0
Morogoro Urban	1,274	2.5	35	0.5	0	0.0	513	12.7	35	0.9
Mvomero	1,814	3.6	2,233	30.1	2,791	18.9	1,116	27.5	3,070	82.0
Total	50,909	100.0	7,409	100.0	14,789	100.0	4,053	100.0	3,743	100.0

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	%
Kilosa	7,498	45.0	625	40.4	208	66.4	1,458	10.8	6,040	14.7	208	16.0
Morogoro Rural	0	0.0	0	0.0	0	0.0	421	3.1	702	1.7	0	0.0
Kilombero	4,912	29.5	289	18.7	0	0.0	8,091	60.1	22,106	53.9	289	22.2
Ulanga	3,685	22.1	614	39.7	88	28.0	2,632	19.6	6,581	16.0	351	27.0
Morogoro Urban	0	0.0	18	1.1	18	5.6	18	0.1	142	0.3	35	2.7
Mvomero	558	3.4	0	0.0	0	0.0	837	6.2	5,443	13.3	419	32.1
Total	16,654	100	1,546	100	314	100	13,457	100	41,012	100	1,302	100

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	%
Kilosa	5,207	9.3	625	15.4	1,666	9.5	0	0.0	1,250	21.8	0	0.0
Morogoro Rural	0	0.0	0	0.0	0	0.0	2,106	37.4	2,106	36.7	0	0.0
Kilombero	29,330	52.6	1,445	35.5	13,148	74.9	1,156	20.5	1,734	30.2	4,334	93.6
Ulanga	18,864	33.8	1,228	30.2	1,053	6.0	263	4.7	88	1.5	0	0.0
Morogoro Urban	0	0.0	71	1.7	283	1.6	18	0.3	142	2.5	18	0.4
Mvomero	2,372	4.3	698	17.2	1,396	8.0	2,093	37.1	419	7.3	279	6.0
Total	55,773	100	4,067	100	17,546	100	5,636	100	5,737	100	4,631	100

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	%
Kilosa	8,956	2	75,396	98	84,352	100
Morogoro Rural	562	10	56,301	90	56,863	100
Kilombero	1,011	23	57,503	77	58,515	100
Ulanga	1,404	5	34,131	95	35,535	100
Morogoro Urban	655	6	5,983	94	6,638	100
Mvomero	7,815	3	48,705	97	56,520	100
Total	20,403	13	278,019	87	298,421	100

6.6: Number of Agriculture Households Using Irrigation by Source of Irrigation Water and District during the 2007/08 Agricultural Year

District	Main Source of Irrigation Water							
	River	Borehole	Lake	Canal	Dam	Tap Water	Well	Total
Kilosa	6,665	0	208	208	0	208	0	7,290
Morogoro Rural	140	0	0	140	0	0	0	281
Kilombero	722	0	0	0	144	0	0	867
Ulanga	526	0	88	351	0	0	88	1,053
Morogoro Urban	283	0	18	230	0	124	0	655
Mvomero	5,303	0	140	279	140	1,954	0	7,815
Total	13,640	0	453	1,209	284	2,286	88	17,960

6.7: Number of Agriculture Households by Method Used to Obtain Water and District During 2007/08 Agriculture Year

District	Main method of Obtaining Water				
	Gravity	Hand bucket	Hand pump	motor pump	Total
Kilosa	7,081	208	0	0	7,290
Morogoro Rural	0	281	0	0	281
Kilombero	578	144	144	0	867
Ulanga	263	702	0	88	1,053
Morogoro Urban	177	407	18	53	655
Mvomero	6,280	977	0	558	7,815
Total	14,379	2,719	162	699	17,960

EROSION CONTROL

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

District	Have any erosion problem on their farming land		Do not have any erosion problem on their farming land		Total	
	Number	%	Number	%	Number	%
Kilosa	8,539	10.1	75,812	89.9	84,352	100.00
Morogoro Rural	4,352	7.7	52,510	92.3	56,863	100.00
Kilombero	1,011	1.7	57,503	98.3	58,515	100.00
Ulanga	3,071	8.6	32,464	91.4	35,535	100.00
Morogoro Urban	531	8.0	6,107	92.0	6,638	100.00
Mvomero	6,978	12.3	49,542	87.7	56,520	100.00
Total	24,483	8.2	273,938	91.8	298,421	100.00

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

District	Presence of Erosion Control/Water Harvesting Facilities					
	Have any erosion control/water harvesting facilities		Do not have any erosion control/water harvesting facilities		Total	
	Number	%	Number	%	Number	%
Kilosa	4,166	4.9	80,186	95.1	84,352	100
Morogoro Rural	702	1.2	56,161	98.8	56,863	100
Kilombero	433	.7	58,081	99.3	58,515	100
Ulanga	2,632	7.4	32,903	92.6	35,535	100
Morogoro Urban	443	6.7	6,195	93.3	6,638	100
Mvomero	4,326	7.7	52,193	92.3	56,520	100
Total	12,702	4.3	285,719	95.7	298,421	100

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

District	Terraces	Erosion Control Bunds	Gabions / Sandbag	Vetiver Grass	Tree Belts	Water Harvesting Bunds	Drainage Ditches	Others
Kilosa	1,874	9,372	417	2,916	6,248	0	4,166	4,374
Morogoro Rural	2,106	0	0	842	14,040	0	0	0
Kilombero	2,456	10,547	0	0	722	0	0	0
Ulanga	175	12,898	0	0	2,106	5,703	1,141	3,861
Morogoro Urban	1,522	21,878	1,770	142	1,345	1,080	177	0
Mvomero	47,449	66,149	279	4,326	12,560	140	2,512	279
Total	55,583	120,844	2,466	8,226	37,022	6,922	7,995	8,513

4.6.1.1.1 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	%
Kilosa	625	.7	83,727	99.3	84,352	100
Morogoro Rural	140	.2	56,722	99.8	56,863	100
Kilombero	1,589	2.7	56,925	97.3	58,515	100
Ulanga	877	2.5	34,657	97.5	35,535	100
Morogoro Urban	35	.5	6,602	99.5	6,638	100
Mvomero	837	1.5	55,682	98.5	56,520	100
Total	4,105	1.4	294,317	98.6	298,421	100

7.2: Number of Credits by Sex of the Household Member receiving credit from source B and District During the 2007/08 Agriculture Year

District	Male		Female		Total	
	Number	%	Number	%	Number	%
Kilosa	417	66.7	208	33.3	625	100
Morogoro Rural	140	100.0	0	.0	140	100
Kilombero	1,156	72.7	433	27.3	1,589	100
Ulanga	702	80.0	175	20.0	877	100
Morogoro Urban	18	50.0	18	50.0	35	100
Mvomero	837	100.0	0	.0	837	100
Total	3,270	79.7	835	20.3	4,105	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		Savings & credit Soc		Trader/trade store		Private individual		NGO/Development project		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Kilosa	0	0.0	0	0.0	417	66.7	0	0.0	208	33.3	0	0.0	625	100
Morogoro Rural	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	140	100.0	140	100
Kilombero	722	45.5	144	9.1	0	0.0	0	0.0	144	9.1	578	36.4	1,589	100
Ulanga	175	20.0	0	0.0	351	40.0	175	20.0	0	0.0	175	20.0	877	100
Morogoro Urban	18	50.0	18	50.0	0	0.0	0	0.0	0	0.0	0	0.0	35	100
Mvomero	279	33.3	279	33.3	140	16.7	140	16.7	0	0.0	0	0.0	837	100
Total	1,195	29.1	441	10.8	907	22.1	315	7.7	353	8.6	894	21.8	4,105	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	%
Kilosa	5,207	6.2	19,161	22.9	14,579	17.4	2,916	3.5	25,410	30.3	2,708	3.2	833	1.0	833	1.0	12,080	14.4	83,727	100
Morogoro Rural	5,476	9.7	14,461	25.5	5,897	10.4	3,510	6.2	13,479	23.8	2,387	4.2	281	0.5	421	0.7	10,811	19.1	56,722	100
Kilombero	5,346	9.4	8,958	15.7	10,547	18.5	4,768	8.4	15,604	27.4	4,045	7.1	867	1.5	722	1.3	6,068	10.7	56,925	100
Ulanga	1,053	3.0	5,966	17.2	2,983	8.6	2,983	8.6	12,986	37.5	1,404	4.1	1,053	3.0	88	0.3	6,142	17.7	34,657	100
Morogoro Urban	195	2.9	1,204	18.2	938	14.2	159	2.4	2,266	34.3	372	5.6	71	1.1	0	0.0	1,398	21.2	6,602	100
Mvomero	4,884	8.8	8,373	15.0	11,025	19.8	3,210	5.8	17,723	31.8	3,768	6.8	279	0.5	698	1.3	5,722	10.3	55,682	100
Total	22,160	7.5	58,124	19.7	45,969	15.6	17,546	6.0	87,467	29.7	14,683	5.0	3,384	1.1	2,762	0.9	42,221	14.3	294,317	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		Cooperative		Savings & credit Soc		Trader/trade store		Private individual		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Kilosa	0	0.0	208	50.1	208	50.1	0	0.0	0	0.0	0	0.0	416	100
Morogoro Rural	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0
Kilombero	0	0.0	0	0.0	289	100.0	0	0.0	0	0.0	0	0.0	289	100
Ulanga	88	14.3	0	0.0	88	14.3	175	28.6	88	14.3	175	28.6	614	100
Morogoro Urban	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0
Mvomero	0	0.0	140	100.0	0	0.0	0	0.0	0	0.0	0	0.0	140	100
Total	88	6.0	348	23.8	585	40.1	175	12.0	88	6.0	175	12.0	1,459	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		Trader/trade store		Private individual		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Kilosa	0	0.0	0	0.0	208	100.0	0	0.0	0	0.0	208	100
Morogoro Rural	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0
Kilombero	0	0.0	144	33.3	0	0.0	0	0.0	289	66.7	433	100
Ulanga	439	83.3	0	0.0	0	0.0	88	16.7	0	0.0	526	100
Morogoro Urban	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0
Mvomero	0	0.0	140	100.0	0	0.0	0	0.0	0	0.0	140	100
Total	439	33.5	284	21.7	208	15.9	88	6.7	289	22.1	1,308	100

7.7: Provision of credit A by sex and District During the 2007/08 Agriculture Year

District	Male		Female		Total	
	Number	%	Number	%	Number	%
Kilosa	417	66.7	208	33.3	625	100
Morogoro Rural	140	100.0	0	.0	140	100
Kilombero	1,156	72.7	433	27.3	1,589	100
Ulanga	702	80.0	175	20.0	877	100
Morogoro Urban	18	50.0	18	50.0	35	100
Mvomero	837	100.0	0	.0	837	100
Total	3,270	79.7	835	20.3	4,105	100

7.8: Provision of credit B by sex and District During the 2007/08 Agriculture Year

District	Male		Female		Total	
	Number	%	Number	%	Number	%
Kilosa	208	100.0	0	.0	208	100
Morogoro Rural						100
Kilombero	289	66.7	144	33.3	433	100
Ulanga	439	71.4	175	28.6	614	100
Morogoro Urban	18	100.0	0	.0	18	100
Mvomero	140	100.0	0	.0	140	100
Total	1,093	77.4	320	22.6	1,413	100

7.9: Provision of credit C by sex and District During the 2007/08 Agriculture Year

District	Male		Female		Total	
	Number	%	Number	%	Number	%
Kilosa	208	100.0	0	.0	208	100
Morogoro Rural	140	100.0	0	.0	140	100
Kilombero	0	.0	289	100.0	289	100
Ulanga	439	71.4	175	28.6	614	100
Morogoro Urban	0	.0	0	.0	0	100
Mvomero	140	100.0	0	.0	140	100
Total	927	66.6	464	33.4	1,391	100

CROP EXTENSION SERVICES

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	%	
Kilosa	52,277	62.1	31,866	37.9	84,143
Morogoro Rural	19,095	34.0	37,066	66.0	56,161
Kilombero	50,713	86.9	7,657	13.1	58,370
Ulanga	23,690	66.7	11,845	33.3	35,535
Morogoro Urban	4,602	70.7	1,912	29.3	6,514
Mvomero	39,354	70.0	16,886	30.0	56,241
Total	189,731	63.9	107,232	36.1	296,963

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

District	Number of Households Participated in Out Grower Agreement		Number of Households NOT Participated in Out Grower Agreement		Total Number of Households	
	Number	%	Number	%	Number	%
Kilosa	3,749	4.4	80,603	95.6	84,352	100
Morogoro Rural	2,106	3.7	54,757	96.3	56,863	100
Kilombero	2,167	3.7	56,347	96.3	58,515	100
Ulanga	0	0.0	35,535	100.0	35,535	100
Morogoro Urban	53	0.8	6,585	99.2	6,638	100
Mvomero	4,745	8.4	51,775	91.6	56,520	100
Total	12,820	4.3	285,601	95.7	298,421	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	%
Kilosa	833	1.0	83,518	99.0	84,352	100
Morogoro Rural	281	0.5	56,582	99.5	56,863	100
Kilombero	0	0.0	58,515	100.0	58,515	100
Ulanga	175	0.5	35,359	99.5	35,535	100
Morogoro Urban	35	0.5	6,602	99.5	6,638	100
Mvomero	837	1.5	55,682	98.5	56,520	100
Total	2,162	0.7	296,259	99.3	298,421	100

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

District	Source of Crop Extension						
	Government	NGO/Dev project	Cooperative	Large scale farmer	Radio/Television/NewsPaper	Neighbour	Other (Specify)
Kilosa	41,030	3,957	417	1,666	7,498	15,829	1,041
Morogoro Rural	16,287	4,493	140	421	5,054	2,246	702
Kilombero	47,390	4,334	1,011	1,734	13,292	9,102	2,023
Ulanga	18,425	614	88	351	3,948	10,441	1,404
Morogoro Urban	3,664	832	159	1,221	1,894	1,133	142
Mvomero	32,935	6,001	558	1,116	6,420	9,490	698
Total	159,731	20,231	2,374	6,510	38,106	48,241	6,009

8.5: Number of Households Receiving Eextension Aadvice 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/Newspape r		Neighbor		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Kilosa	32,074	83.7	1,250	3.3	0	.0	208	.5	833	2.2	3,749	9.8	208	.5	38,323
Morogoro Rural	12,636	69.8	1,404	7.8	0	.0	140	.8	3,370	18.6	421	2.3	140	.8	18,112
Kilombero	37,276	83.8	867	1.9	0	.0	144	.3	3,034	6.8	3,034	6.8	144	.3	44,500
Ulanga	11,319	72.5	263	1.7	0	.0	0	.0	614	3.9	3,422	21.9	0	.0	15,618
Morogoro Urban	2,903	71.6	71	1.7	35	.9	301	7.4	389	9.6	354	8.7	0	.0	4,053
Mvomero	28,748	85.5	837	2.5	0	.0	419	1.2	1,116	3.3	2,512	7.5	0	.0	33,633
Total	124,956	81.0	4,692	3.0	35	.0	1,213	.8	9,357	6.1	13,492	8.7	493	.3	154,238

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/Newspa per		Neighbor		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Kilosa	12,080	63.7	417	2.2	208	1.1	0	.0	833	4.4	5,207	27.5	208	1.1	18,953
Morogoro Rural	4,633	54.1	1,264	14.8	140	1.6	0	.0	2,387	27.9	140	1.6	0	.0	8,565
Kilombero	29,330	80.2	433	1.2	0	.0	433	1.2	4,334	11.9	1,878	5.1	144	.4	36,554
Ulanga	8,335	58.3	175	1.2	88	.6	88	.6	439	3.1	4,826	33.7	351	2.5	14,302
Morogoro Urban	1,080	61.0	71	4.0	0	.0	266	15.0	159	9.0	159	9.0	35	2.0	1,770
Mvomero	15,491	75.0	977	4.7	140	.7	279	1.4	1,256	6.1	2,372	11.5	140	.7	20,654
Total	70,948	70.4	3,337	3.3	576	.6	1,066	1.1	9,408	9.3	14,583	14.5	879	.9	100,797

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		Neighbor		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Kilosa	10,414	78.1	417	3.1	0	.0	0	.0	625	4.7	1,666	12.5	208	1.6	13,330
Morogoro Rural	3,370	49.0	1,685	24.5	140	2.0	140	2.0	1,544	22.4	0	.0	0	.0	6,880
Kilombero	7,224	67.6	144	1.4	867	8.1	144	1.4	1,589	14.9	433	4.1	289	2.7	10,692
Ulanga Morogoro	2,369	56.3	0	.0	0	.0	88	2.1	351	8.3	1,316	31.3	88	2.1	4,212
Urban	1,009	60.0	71	4.2	0	.0	89	5.3	389	23.2	124	7.4	0	.0	1,682
Mvomero	7,257	53.6	3,070	22.7	140	1.0	0	.0	837	6.2	2,233	16.5	0	.0	13,537
Total	31,642	62.9	5,387	10.7	1,147	2.3	461	.9	5,336	10.6	5,773	11.5	585	1.2	50,331

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		Neighbor		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Kilosa	9,997	67.6	625	4.2	0	.0	0	.0	1,250	8.5	2,916	19.7	0	.0	14,788
Morogoro Rural	2,527	32.7	2,948	38.2	0	.0	140	1.8	1,544	20.0	562	7.3	0	.0	7,722
Kilombero	16,615	82.7	144	.7	0	.0	289	1.4	2,167	10.8	867	4.3	0	.0	20,083
Ulanga	2,457	58.3	175	4.2	0	.0	88	2.1	877	20.8	614	14.6	0	.0	4,212
Morogoro Urban	1,257	60.7	142	6.8	0	.0	124	6.0	266	12.8	266	12.8	18	.9	2,071
Mvomero	10,187	61.9	3,070	18.6	0	.0	0	.0	837	5.1	2,093	12.7	279	1.7	16,467
Total	43,041	65.9	7,105	10.9	0	.0	641	1.0	6,942	10.6	7,317	11.2	297	.5	65,342

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		Neighbor		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Kilosa	7,290	53.0	625	4.5	208	1.5	0	.0	625	4.5	4,790	34.8	208	1.5	13,746
Morogoro Rural	3,510	50.0	1,825	26.0	140	2.0	0	.0	1,544	22.0	0	.0	0	.0	7,020
Kilombero	33,808	89.0	433	1.1	0	.0	144	.4	2,312	6.1	1,156	3.0	144	.4	37,998
Ulanga	3,773	75.4	88	1.8	0	.0	88	1.8	439	8.8	614	12.3	0	.0	5,001
Morogoro Urban	956	47.4	283	14.0	0	.0	407	20.2	301	14.9	71	3.5	0	.0	2,018
Mvomero	15,072	80.6	977	5.2	0	.0	558	3.0	698	3.7	1,116	6.0	279	1.5	18,700
Total	64,409	76.2	4,231	5.0	349	.4	1,198	1.4	5,918	7.0	7,748	9.2	632	.7	84,484

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		Neighbor		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Kilosa	17,287	70.3	625	2.5	208	.8	417	1.7	1,874	7.6	4,166	16.9	0	.0	24,577
Morogoro Rural	8,284	71.1	1,825	15.7	0	.0	140	1.2	1,404	12.0	0	.0	0	.0	11,653
Kilombero	36,409	87.8	867	2.1	144	.3	289	.7	2,167	5.2	1,589	3.8	0	.0	41,466
Ulanga	8,423	76.2	88	.8	0	.0	0	.0	526	4.8	2,018	18.3	0	.0	11,055
Morogoro Urban	2,460	67.5	124	3.4	0	.0	230	6.3	496	13.6	301	8.3	35	1.0	3,646
Mvomero	24,143	82.8	1,116	3.8	140	.5	140	.5	1,116	3.8	2,512	8.6	0	.0	29,167
Total	97,006	79.8	4,645	3.8	492	.4	1,216	1.0	7,584	6.2	10,586	8.7	35	.0	121,564

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/News Paper		Neighbour		Other (Specify)		
	Numbe r	%	Numbe r	%	Number	%	Numbe r	%	Number	%	Number	%	Number	%	
Kilosa	11,039	61.6	625	3.5	0	.0	1,041	5.8	417	2.3	4,790	26.7	0	.0	17,912
Morogoro Rural	6,318	78.9	1,123	14.0	0	.0	0	.0	562	7.0	0	.0	0	.0	8,003
Kilombero	27,885	76.3	289	.8	144	.4	867	2.4	6,068	16.6	1,300	3.6	0	.0	36,554
Ulanga	6,756	65.8	175	1.7	0	.0	0	.0	1,053	10.3	2,281	22.2	0	.0	10,266
Morogoro Urban	1,381	54.9	177	7.0	35	1.4	478	19.0	354	14.1	71	2.8	18	.7	2,513
Mvomero	10,746	81.1	558	4.2	0	.0	140	1.1	1,396	10.5	279	2.1	140	1.1	13,258
Total	64,124	72.5	2,948	3.3	180	.2	2,526	2.9	9,849	11.1	8,722	9.9	157	.2	88,505

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		Neighbor		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Kilosa	8,956	58.9	625	4.1	0	.0	208	1.4	417	2.7	4,999	32.9	0	.0	15,204
Morogoro Rural	3,089	64.7	983	20.6	0	.0	0	.0	702	14.7	0	.0	0	.0	4,774
Kilombero	11,269	78.8	144	1.0	0	.0	0	.0	2,167	15.2	722	5.1	0	.0	14,304
Ulanga	2,457	71.8	88	2.6	0	.0	0	.0	175	5.1	439	12.8	263	7.7	3,422
Morogoro Urban	797	57.7	35	2.6	18	1.3	195	14.1	124	9.0	195	14.1	18	1.3	1,381
Mvomero	6,140	59.5	837	8.1	140	1.4	140	1.4	1,396	13.5	1,396	13.5	279	2.7	10,327
Total	32,708	66.2	2,713	5.5	157	.3	543	1.1	4,981	10.1	7,750	15.7	560	1.1	49,411

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

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/Newspaper		Neighbor		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Kilosa	17,287	62.4	417	1.5	0	.0	0	.0	2,291	8.3	7,498	27.1	208	.8	27,701
Morogoro Rural	5,195	69.8	1,123	15.1	0	.0	0	.0	1,123	15.1	0	.0	0	.0	7,441
Kilombero	27,451	85.2	722	2.2	0	.0	0	.0	2,601	8.1	1,156	3.6	289	.9	32,219
Ulanga	10,617	73.3	88	.6	0	.0	0	.0	1,228	8.5	2,544	17.6	0	.0	14,477
Morogoro Urban	1,912	72.5	35	1.3	53	2.0	177	6.7	266	10.1	177	6.7	18	.7	2,637
Mvomero	14,095	78.3	698	3.9	0	.0	0	.0	1,116	6.2	1,954	10.9	140	.8	18,003
Total	76,556	74.7	3,083	3.0	53	.1	177	.2	8,625	8.4	13,329	13.0	654	.6	102,478

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		Neighbor		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Kilosa	14,579	70.7	833	4.0	0	.0	0	.0	208	1.0	4,582	22.2	417	2.0	20,619
Morogoro Rural	4,072	60.4	983	14.6	0	.0	0	.0	842	12.5	842	12.5	0	.0	6,739
Kilombero	16,904	80.1	722	3.4	0	.0	144	.7	867	4.1	1,878	8.9	578	2.7	21,094
Ulanga	6,581	65.8	175	1.8	0	.0	0	.0	439	4.4	2,369	23.7	439	4.4	10,002
Morogoro Urban	956	56.3	18	1.0	18	1.0	142	8.3	212	12.5	319	18.8	35	2.1	1,699
Mvomero	11,164	74.1	558	3.7	0	.0	0	.0	558	3.7	2,652	17.6	140	.9	15,072
Total	54,256	72.1	3,290	4.4	18	.0	286	.4	3,127	4.2	12,642	16.8	1,608	2.1	75,226

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	%		
Kilosa	6,665	7.90	77,687	92.1	84,352	13,330
Morogoro Rural	1,404	2.5	55,459	97.5	56,863	7,301
Kilombero	4,768	8.1	53,747	91.9	58,515	8,669
Ulanga	2,106	5.9	33,429	94.1	35,535	5,352
Morogoro Urban	354	5.3	6,284	94.7	6,638	814
Mvomero	2,512	4.4	54,008	95.6	56,520	9,769
Total	17,808	6.0	280,613	94.0	298,421	45,235

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

District	Indigenous			Improved Beef			Improved Dairy			Total		
	Number of households	Number of Cattle	Percentage	Number of households	Number of Cattle	%	Number of households	Number of Cattle	%	Number of households	Number of Cattle	%
Kilosa	6,040	81,436	96.1	417	1,874	2.2	625	1,458	1.7	6,665	84,768	100
Morogoro Rural	1,404	55,880	100.0	0	0	0.0	0	0	0.0	1,404	55,880	100
Kilombero	4,190	147,370	98.6	0	0	0.0	867	2,167	1.4	4,768	149,537	100
Ulanga	1,843	93,268	99.4	0	0	0.0	263	526	0.6	2,106	93,795	100
Morogoro Urban	248	14,674	76.8	0	0	0.0	124	4,425	23.2	354	19,099	100
Mvomero	2,093	235,847	99.6	0	0	0.0	419	837	0.4	2,512	236,685	100
Total	15,818	628,475	98.2	417	1,874	0.3	2,297	9,414	1.5	17,808	639,764	100

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

Cattle Types	Indigeneous	Improved Beef	Improved Dairy	Total Cattle	%
Castrated Bulls (Oxen)	140,549	625	879	142,053	17
Uncastrated Bulls	81,056	0	509	81,565	16
Cows	166,090	0	4,147	170,238	21
Steers	21,077	0	282	21,359	6
Heifers	113,006	1,250	1,980	116,236	13
Male Calves	47,620	0	603	48,223	13
Female Calves	59,077	0	1,013	60,090	15
Total	628,475	1,874	9,414	639,764	100

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

Herd size	Cattle Rearing Households	%	Herd of Cattle	Average Per Household
1 - 5	6,495	36.5	18,499	2.8
6 - 10	4,131	23.2	32,619	7.9
11 - 15	1,563	8.8	19,800	12.7
16 - 20	1,422	8.0	27,049	19.0
21 - 30	652	3.7	17,624	27.0
31 - 40	610	3.4	23,395	38.4
41 - 50	315	1.8	15,328	48.6
51 - 60	420	2.4	24,098	57.3
61 -100	1,158	6.5	98,463	85.1
101 -150	337	1.9	41,881	124.2
151+	705	4.0	321,007	455.6
Total	17,808	100.0	639,764	35.9

9.5: Total Number of indigenous Cattle by Category of cattle and District During the 2007/08 Agricultural Year

District	Cattle Type															
	Castrated Bulls (Oxen)		Uncastrated Bulls		Cows		Steers		Heifers		Male Calves		Female Calves		Total	
	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%
Kilosa	8,748	11	9,997	12	25,826	32	3,332	4	14,371	18	8,123	10	11,039	14	81,436	100
Morogoro Rural	5,054	9	5,756	10	22,043	39	1,685	3	7,582	14	5,756	10	8,003	14	55,880	100
Kilombero	31,063	21	18,205	12	22,972	16	1,589	1	45,367	31	13,437	9	14,737	10	147,370	100
Ulanga	20,707	22	11,406	12	32,552	35	965	1	20,970	22	2,544	3	4,124	4	93,268	100
Morogoro Urban	1,292	9	1,221	8	6,177	42	248	2	2,248	15	1,292	9	2,195	15	14,674	100
Mvomero	73,685	31	34,470	15	56,520	24	13,258	6	22,468	10	16,467	7	18,979	8	235,847	100
Total	140,549	22	81,056	13	166,090	26	21,077	3	113,006	18	47,620	8	59,077	9	628,475	100

9.6: Total Number of Improved Beef Cattle by Category of cattle and District During the 2007/08 Agricultural Year

District	Cattle Type															
	Castrated Bulls (Oxen)		Uncastrated Bulls		Cows		Steers		Heifers		Male Calves		Female Calves		Total	
	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%
Kilosa	625	33	0	0	0	0	0	0	1,250	67	0	0	0	0	1,874	100
Morogoro Rural	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Kilombero	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Ulanga	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Morogoro Urban	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Mvomero	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Total	625	33	0	0	0	0	0	0	1,250	67	0	0	0	0	1,874	100

9.7: Total Number of Improved Diary Cattle by Category of cattle and District During the 2007/08 Agricultural Year

District	Cattle Type															
	Castrated Bulls (Oxen)		Uncastrated Bulls		Cows		Steers		Heifers		Male Calves		Female Calves		Total	
	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%
Kilosa	0	0	0	0	1,041	60	0	0	208	20	0	0	208	20	1,458	100
Morogoro Rural	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kilombero	578	10	0	0	722	40	0	0	289	20	144	10	433	20	2,167	100
Ulanga	0	0	0	0	0	0	175	33	175	33	175	33	0	0	526	100
Morogoro Urban	301	8	230	15	1,965	23	106	12	1,168	12	283	15	372	15	4,425	100
Mvomero	0	0	279	33	419	50	0	0	140	17	0	0	0	0	837	100
Total	879	4	509	8	4,147	40	282	5	1,980	20	603	9	1,013	13	9,414	100

9.8: 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	%
Kilosa	1,458	15	2,291	23	2,708	28	2,083	21	0	0	1,250	13	9,789	100
Morogoro Rural	281	18	281	18	702	45	281	18	0	0	0	0	1,544	100
Kilombero	2,890	56	722	14	144	3	1,300	25	0	0	144	3	5,201	100
Ulanga	1,492	65	175	8	88	4	439	19	0	0	88	4	2,281	100
Morogoro Urban	159	45	35	10	53	15	89	25	18	5	0	0	354	100
Mvomero	1,256	26	1,256	26	279	6	558	11	0	0	1,535	31	4,884	100
Total	7,535	31	4,761	20	3,974	17	4,749	20	18	0	3,017	13	24,054	100

9.9: Number of Milked Cows by Category of Cattle, Season and District, During the 2007/08 Agricultural Year

District	Wet Season			Dry Season		
	Improved Breed	Indigenous	Total	Improved Breed	Indigenous	Total
Kilosa	1,041	20,619	21,661	625	17,703	18,328
Morogoro	0	11,232	11,232	0	9,547	9,547
Kilombero	722	17,916	18,638	722	16,615	17,338
Ulanga	0	9,739	9,739	0	5,703	5,703
Morogoro Urban	1,239	3,859	5,098	1,540	3,735	5,275
Mvomero	419	20,096	20,515	279	22,608	22,887
Total	3,421	83,461	86,882	3,166	75,912	79,078

9.10: Average milk production per cow per day, by Category of Cow, Season and District, During the 2007/08 Agricultural Year

District	Wet Season			Dry Season		
	Improved Breed	Indigenous	Total	Improved Breed	Indigenous	Total
	Mean (ltr)	Mean (lts)	Mean (lts)	Mean (lts)	Mean (lts)	Mean (lts)
Kilosa	9	5	5	5	3	3
Morogoro Rural	0	2	2	0	1	1
Kilombero	9	2	5	8	4	6
Ulanga	0	2	2	0	1	1
Morogoro Urban	7	3	4	8	2	4
Mvomero	11	3	5	15	2	3
Total	10	3	5	7	2	3

9.11: Average number of days for cows on milked, by category of Cattle, Season and District, During the 2007/08 Agricultural Year

District	Wet Season			Dry Season		
	Improved Breed	Indigenous	Total	Improved Breed	Indigenous	Total
	Mean	Mean	Mean	Mean	Mean	Mean
Kilosa	110	147	142	140	139	140
Morogoro Rural	0	157	157	0	166	166
Kilombero	112	201	171	128	186	160
Ulanga	0	168	168	0	147	147
Morogoro Urban	202	186	191	202	161	174
Mvomero	180	134	147	120	133	130
Total	133	156	152	136	148	146

9.12: Average Cattle Milk price (Tshs/litre) per season by category of cow and District, During the 2007/08 Agricultural Year

District	Wet Season			Dry Season		
	Improved Breed	Indigenous	Total	Improved Breed	Indigenous	Total
	Mean	Mean	Mean	Mean	Mean	Mean
Kilosa	317	325	324	383	376	378
Morogoro Rural	0	329	329	0	350	350
Kilombero	575	463	500	540	467	500
Ulanga	0	513	513	0	557	557
Morogoro Urban	500	425	453	514	475	491
Mvomero	367	319	332	300	350	341
Total	426	362	373	444	397	406

9.13: Number of Milked Cows, Average Milk Produced per Cow per Day, Average Number of Days for Cows on Milk and Average Price per Litre per Season and District During the 2007/2008 Agriculture Year.

District	Number of milked cows		Average milk production per cow per day (lts)		Average number of days cows milked		Average price per litre per season (Tshs)	
	Wet Season	Dry Season	Wet Season	Dry Season	Wet Season	Dry Season	Wet Season	Dry Season
Kilosa	21,661	18,328	5	3	142	140	324	378
Morogoro Rural	11,232	9,547	9	8	157	166	329	350
Kilombero	18,638	17,338	5	6	171	160	500	500
Ulanga	9,739	5,703	2	1	168	147	513	557
Morogoro Urban	5,098	5,275	4	4	191	174	766	491
Mvomero	20,515	22,887	8	5	147	130	332	341
Total	86,882	79,078	6	4	152	146	382	406

GOAT PRODUCTION

9.14: Number of Agriculture Households Rearing Goats by District during the 2007/08 Agricultural Year

District	Raising goats		Not raising goats		Total	Total livestock keeping households
	No of households	%	No of households	%		
Kilosa	10,622	13	73,730	87	84,352	13,330
Morogoro Rural	8,003	14	48,860	86	56,863	7,301
Kilombero	2,745	5	55,770	95	58,515	8,669
Ulanga	2,194	6	33,341	94	35,535	5,352
Morogoro Urban	743	11	5,894	89	6,638	814
Mvomero	9,350	17	47,169	83	56,520	9,769
Total	33,657	11	264,764	89	298,421	45,235

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

District	Indigenous			Improved for Meat			Improved Dairy			Total	
	Number of households	Number of Goats	%	Number of households	Number of Goats	%	Number of households	Number of Goats	%	Number of households	Number of Goats
Kilosa	10,414	86,851	93.3	0	0	0.0	625	6,248	6.7	10,622	93,099
Morogoro Rural	8,003	62,900	100.0	0	0	0.0	0	0	0.0	8,003	62,900
Kilombero	1,734	43,633	54.9	0	0	0.0	1,156	35,831	45.1	2,745	79,464
Ulanga	2,194	21,847	100.0	0	0	0.0	0	0	0.0	2,194	21,847
Morogoro Urban	690	12,904	97.6	0	0	0.0	89	319	2.4	743	13,222
Mvomero	9,071	94,479	88.3	0	0	0.0	698	12,560	11.7	9,350	107,038
Total	32,105	322,614	85.4	0	0	0.0	2,567	54,958	14.6	33,657	377,572

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

Herd Size	Goat rearing households		Herd of Goats		Average Goats per household
	Number	%	Number	%	
1 - 4	12,120	36.0	33,512	8.9	2.76
5 - 9	10,426	31.0	67,162	17.8	6.44
10 - 14	5,197	15.4	59,480	15.8	11.44
15 - 19	1,207	3.6	19,365	5.1	16.05
20 - 24	1,341	4.0	27,797	7.4	20.73
25 - 29	383	1.1	10,868	2.9	28.36
30 - 34	733	2.2	22,782	6.0	31.07
35 - 39	228	0.7	8,354	2.2	36.62
40+	2,021	6.0	128,253	34.0	63.46
Total	33,657	100.0	377,572	100.0	11.22

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

Category	Indigenous		Improved Meat		Improved Dairy		Total	
	Number	%	Number	%	Number	%	Number	%
Billy Goats	51,207	84.7	0	0.0	9,246	15.3	60,453	16.0
She Goats	19,131	100.0	0	0.0	0	0.0	19,131	5.1
Castrated Goat	164,749	90.9	0	0.0	16,566	9.1	181,314	48.0
Male Kid	39,663	78.4	0	0.0	10,931	21.6	50,593	13.4
She Kid	47,864	72.4	0	0.0	18,215	27.6	66,079	17.5
Total	322,614	85.4	0	0.0	54,958	14.6	377,572	100

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

District	Goat Type											
	Billy Goat		Castrated Goat		She Goat		Male Kid		She Kid		Total	
	Total Goat	%	Total Goat	%	Total Goat	%	Total Goat	%	Total Goat	%	Total Goat	%
Kilosa	11,039	13	3,957	5	44,363	51	11,455	13	16,037	18	86,851	100
Morogoro Rural	10,530	17	2,527	4	36,785	58	6,037	10	7,020	11	62,900	100
Kilombero	5,924	14	3,034	7	19,360	44	6,213	14	9,102	21	43,633	100
Ulanga	3,948	18	965	4	11,933	55	2,369	11	2,632	12	21,847	100
Morogoro Urban	1,345	10	2,089	16	6,673	52	1,168	9	1,628	13	12,904	100
Mvomero	18,421	19	6,559	7	45,634	48	12,420	13	11,443	12	94,479	100
Total	51,207	16	19,131	6	164,749	51	39,663	12	47,864	15	322,614	100

9.19: Number of Improved Goats for Meat by Category and District as of 1st October 2008

District	Goat Type											
	Billy Goat		Castrated Goat		She Goat		Male Kid		She Kid		Total	
	Total Goat	%	Total Goat	%	Total Goat	%	Total Goat	%	Total Goat	%	Total Goat	%
Kilosa	0	0	0	0	0	0	0	0	0	0	0	0
Morogoro Rural	0	0	0	0	0	0	0	0	0	0	0	0
Kilombero	0	0	0	0	0	0	0	0	0	0	0	0
Ulanga	0	0	0	0	0	0	0	0	0	0	0	0
Morogoro Urban	0	0	0	0	0	0	0	0	0	0	0	0
Mvomero	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0

9.20: Number of Improved Dairy Goats by Category and District as of 1st October 2008

District	Goat Type											
	Billy Goat		Castrated Goat		She Goat		Male Kid		She Kid		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Kilosa	625	10.0	0	0.0	625	10.0	3,332	53.3	1,666	26.7	6,248	100
Morogoro Rural	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0
Kilombero	3,179	8.9	0	0.0	12,570	35.1	5,924	16.5	14,159	39.5	35,831	100
Ulanga	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0
Morogoro Urban	0	0.0	0	0.0	301	94.4	0	0.0	18	5.6	319	100
Mvomero	5,443	43.3	0	0.0	3,070	24.4	1,675	13.3	2,372	18.9	12,560	100
Total	9,246	16.8	0	0.0	16,566	30.1	10,931	19.9	18,215	33.1	54,958	100

9.21: Milk Production from Goat By Season and District, During the 2007/08 Agricultural Year

District	Number of Milked goat		Average milk production per goat per day (lts)		Average number of days for goats on milked		Average price per litre per season (Tshs)	
	Wet Season	Dry Season	Wet Season	Dry Season	Wet Season	Dry Season	Wet Season	Dry Season
Kilosa	1,666	1,666	2	2	68	62	333	375
Morogoro	0	0	0	0	0	0	0	0
Kilombero	1,734	1,734	2	1	67	38	600	600
Ulanga	0	0	0	0	0	0	0	0
Morogoro Urban	71	71	3	3	90	90	500	500
Mvomero	1,116	1,396	2	2	76	76	600	625
Total	4,587	4,866	2	2	70	55	524	523

SHEEP PRODUCTION

9.22: Number of Households Rearing Sheep by District during the 2007/08 Agriculture Year

District	Number of households raising or managing sheep	%	Number of households not raising or managing sheep	%	Number of agriculture households	Total livestock keeping households
Kilosa	1,874	2.2	82,477	97.8	84,352	13,330
Morogoro Rural	1,544	2.7	55,318	97.3	56,863	7,301
Kilombero	1,734	3.0	56,781	97.0	58,515	8,669
Ulanga	1,843	5.2	33,692	94.8	35,535	5,352
Morogoro Urban	212	3.2	6,425	96.8	6,638	814
Mvomero	1,535	2.7	54,985	97.3	56,520	9,769
Total	8,743	2.9	289,679	97.1	298,421	45,235

9.23: Number of Households Rearing Sheep and Number of Sheep by District as of 1st October 2008

District	Total				
	Number of households raising or managing sheep	%	Number of Indigenous	%	Total Sheep
Kilosa	1,874	21	11,247	9.5	11,247
Morogoro Rural	1,544	18	22,324	18.8	22,324
Kilombero	1,734	20	42,333	35.6	42,333
Ulanga	1,843	21	27,200	22.9	27,200
Morogoro Urban	212	2	6,478	5.5	6,478
Mvomero	1,535	18	9,211	7.8	9,211
Total	8,743	100	118,792	100.0	118,792

9.24: Total Number of Indigenous Sheep by Category of Sheep and District as of 1st October 2008 Agriculture year

District	Number of Indigenous					Total
	Ram	Castrated Sheep	She Sheep	Male Lamb	She Lamb	
Kilosa	2,083	833	5,832	1,041	1,458	11,247
Morogoro Rural	2,246	842	12,636	2,808	3,791	22,324
Kilombero	3,756	1,589	21,094	5,635	10,258	42,333
Ulanga	4,212	526	15,969	2,808	3,685	27,200
Morogoro Urban	443	743	3,204	1,434	655	6,478
Mvomero	1,814	0	5,164	698	1,535	9,211
Total	14,554	4,535	63,898	14,423	21,382	118,792

9.25: Number of Improved Sheep for Mutton by Category and District as of 1st October 2008

District	Number of Improved					Total
	Ram	Castrated Sheep	She Sheep	Male Lamb	She Lamb	
Kilosa	0	0	0	0	0	0
Morogoro Rural	0	0	0	0	0	0
Kilombero	0	0	0	0	0	0
Ulanga	0	0	0	0	0	0
Morogoro Urban	0	0	0	0	0	0
Mvomero	0	0	0	0	0	0
Total	0	0	0	0	0	0

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

Flock Size	Sheep Rearing Households	%	Herd of sheep	Average Per Household
1 - 4	3,517	40.2	8,695	2
5 - 9	2,230	25.5	14,651	7
10 - 14	963	11.0	10,243	11
15 - 19	349	4.0	5,438	16
20 - 24	530	6.1	10,738	20
25 - 29	18	0.2	478	27
30 - 34	228	2.6	6,844	30
40+	908	10.4	61,705	68
Total	8,743	100	118,792	14

9.26: Total Number of Sheep by Breed Type During the 2007/08 Agriculture Year - MOROGORO

Category	Number of Indigenous	%	Number of Improved	%	Total	%
Rams	14,554	100	0	0	14,554	12
Castrated Sheep	4,535	100	0	0	4,535	4
She Sheep	63,898	100	0	0	63,898	54
Male Kid	14,423	100	0	0	14,423	12
She Kid	21,382	100	0	0	21,382	18
Total	118,792	100	0	0	118,792	100

PIG PRODUCTION

9.27: Number of Households Raising Pigs by District during 2007/08 Agriculture Year

District	During the 2007/2008 Agriculture Year					
	Rearing Pigs		Not rearing pigs		Total	
	No of households	%	No of households	%	No of households	%
Kilosa	6,873	8.1	77,478	91.9	84,352	100.0
Morogoro Rural	4,352	7.7	52,510	92.3	56,863	100.0
Kilombero	7,946	13.6	50,568	86.4	58,515	100.0
Ulanga	2,457	6.9	33,078	93.1	35,535	100.0
Morogoro Urban	283	4.3	6,354	95.7	6,638	100.0
Mvomero	11,025	19.5	45,495	80.5	56,520	100.0
Total	32,937	11.0	265,484	89.0	298,421	100.0

9.28: Number of Households Rearing Pigs, Head of Pigs and Average Head per Household by Herd Size as of 1st October 2008 - MOROGORO

Flock Size	Pig rearing households		Herd of pigs		Average per household
	Number	%	Number	%	
1 - 4	28,468	86.4	51,729	58.5	2
5 - 9	3,317	10.1	20,832	23.5	6
10 - 14	691	2.1	7,899	8.9	11
15 - 19	299	0.9	4,671	5.3	16
20 - 24	144	0.4	2,890	3.3	20
25 - 29	18	0.1	443	0.5	25
30 - 39	0	0	0	0.0	0
40+	0	0	0	0.0	0
Total	32,937	100	88,462	100.0	3

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

District	Pig Herd Structure					
	Boar	Castrated Male	Sow / Gilt	Male Piglet	She Piglet	Total
Kilosa	3,749	1,041	7,914	833	2,708	16,245
Morogoro Rural	3,791	0	5,195	1,544	1,123	11,653
Kilombero	4,768	2,890	11,703	3,179	5,635	28,174
Ulanga	1,141	175	4,475	877	351	7,019
Morogoro Urban	336	106	496	301	407	1,646
Mvomero	7,536	140	11,723	2,372	1,954	23,724
Total	21,321	4,352	41,505	9,107	12,177	88,462

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

District	Number of households	Number of pigs	Average per household
Kilosa	6,873	16,245	2
Morogoro Rural	4,352	11,653	3
Kilombero	7,946	28,174	4
Ulanga	2,457	7,019	3
Morogoro Urban	283	1,646	6
Mvomero	11,025	23,724	2
Total	32,937	88,462	3

CHICKEN AND OTHER LIVESTOCK

9.31: 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 Rearing Chicken	Number of Chicken
Kilosa	54,985	773,327	100.0	0	0	0.0	0	0	0.0	54,985	773,327
Morogoro Rural	32,995	390,458	99.7	140	1,123	0.3	0	0	0.0	33,135	391,582
Kilombero	44,067	595,983	97.6	144	433	0.1	289	14,159	2.3	44,211	610,575
Ulanga	25,357	399,570	93.4	88	175	0.0	877	27,989	6.5	26,234	427,735
Morogoro Urban	3,717	48,233	63.5	35	12,390	16.3	89	15,275	20.1	3,788	75,899
Mvomero	34,470	476,300	97.7	558	7,257	1.5	140	4,187	0.9	34,749	487,744
Total	195,590	2,683,871	97.0	966	21,379	0.8	1,394	61,610	2.2	197,102	2,766,861

9.32: Number of Households Keeping Chickens and Average Number of Chickens per Household by type and Flock Size as of 1st October 2008 - MOROGORO

Flock Size	Indigineous chicken				Layers				Broilers			
	Number of Households	Number of Indigineous	%	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	190,301	2,225,771	98.1	12	931	8,989	0.4	10	1,184	34,106	1.5	29
50-99	4,634	294,787	95.9	64	0	0	0.0	0	175	12,459	4.1	71
100-299	446	80,003	97.8	179	18	1,770	2.2	100	0	0	0.0	0
300-499	208	83,310	94.0	400	0	0	0.0	0	18	5,310	6.0	300
500-699	0	0	0.0	0	18	10,620	52.2	600	18	9,735	47.8	550
700+	0	.	0.0	0	0	0	0.0	0	0	0	0.0	0
Total	195,590	2,683,871	97.0	14	966	21,379	0.8	22	1,394	61,610	2.2	44

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

District	Ducks	Guine pigs	Turkeys	Rabbits	Donkeys	Horses	Dogs
Kilosa	16,454	833	0	0	1,250	0	12,497
Morogoro Rural	12,496	0	983	2,808	0	0	2,948
Kilombero	15,459	1,734	20,372	0	0	0	4,912
Ulanga	17,724	263	0	702	0	0	2,457
Morogoro Urban	2,266	0	142	71	248	0	938
Mvomero	16,188	5,861	0	5,582	2,652	0	7,955
Total	80,587	8,691	21,496	9,163	4,149	0	31,707

9.34: Total Number of Other Livestock by Type as of 1st October 2008

Type	Chicken		Others	
	Number	%	Type	Number
Indigenous Chicken	2,683,871	97.0	Ducks	80,587
Layer	21,379	0.8	Guine pigs	8,691
Broiler	61,610	2.2	Turkeys	21,496
			Rabbits	9,163
			Donkeys	4,149
			Horses	0
			Dogs	31,707
TOTAL	2,766,861	100		

LIVESTOCK PESTS AND PARASITES CONTROL

9.35: 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	%
Kilosa	18,953	30	44,779	70	63,732	100
Morogoro Rural	4,633	13	29,906	87	34,539	100
Kilombero	9,680	21	36,120	79	45,800	100
Ulanga	6,844	25	20,707	75	27,550	100
Morogoro Urban	1,133	29	2,779	71	3,912	100
Mvomero	13,118	34	25,259	66	38,378	100
Total	54,361	25	159,550	75	213,911	100

9.36: Number of Livestock Rearing households that dewormed Livestock by type of livestock and District, 2007/08 Agricultural Year

District	Dewormed Cattle				Dewormed Goats/ Sheep			
	Households that dewormed	Households that DID NOT deworm	Not Applicable	Total	Households that dewormed	Households that DID NOT deworm	Not Applicable	Total
Kilosa	2,916	833	15,412	19,161	4,582	625	13,746	18,953
Morogoro Rural	1,123	281	3,229	4,633	1,685	702	2,387	4,774
Kilombero	3,323	1,011	5,201	9,536	2,601	578	6,357	9,536
Ulanga	1,316	351	5,177	6,844	1,492	526	4,826	6,844
Morogoro Urban	354	18	761	1,133	425	53	655	1,133
Mvomero	2,093	977	10,048	13,118	3,628	4,605	7,396	15,630
Total	11,126	3,471	39,829	54,425	14,412	7,090	35,367	56,869

Cont. 9.36: Number of Livestock Rearing households that dewormed Livestock by type of livestock and District, 2007/08 Agricultural Year

District	Dewormed Pigs				Dewormed Chicken			
	Households that dewormed	Households that DID NOT deworm	Not Applicable	Total	Households that dewormed	Households that DID NOT deworm	Not Applicable	Total
Kilosa	3,749	208	15,204	19,161	12,705	7,081	2,291	22,077
Morogoro Rural	562	421	3,650	4,633	2,106	3,510	702	6,318
Kilombero	3,612	722	5,201	9,536	4,190	4,912	722	9,825
Ulanga	2,018	263	4,563	6,844	3,773	3,861	877	8,511
Morogoro Urban	230	18	885	1,133	761	797	53	1,611
Mvomero	5,024	4,884	6,699	16,607	6,001	21,910	1,396	29,306
Total	15,195	6,517	36,202	57,914	29,536	42,071	6,041	77,648

9.37: Number of Livestock Rearing Households Normally Encountering Tick Problems by District during 2007/08 Agriculture Year

District	Households with Tick Problem		Households with No Tick Problem		Not Applicable		Total	
	Number	%	Number	%	Number	%	Number	%
Kilosa	7,081	11	7,914	13	46,654	76	61,650	100
Morogoro Rural	2,527	7	6,599	19	25,413	74	34,539	100
Kilombero	4,768	11	5,346	12	35,253	78	45,367	100
Ulanga	2,369	9	2,808	10	22,374	81	27,550	100
Morogoro Urban	496	13	460	12	2,956	76	3,912	100
Mvomero	4,605	12	10,048	26	23,724	62	38,378	100
Total	21,846	10	33,175	16	156,374	74	211,395	100

9.38: 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	%
Kilosa	1,458	2	12,288	20	47,903	78	61,650	100
Morogoro Rural	1,685	5	6,599	19	26,255	76	34,539	100
Kilombero	5,201	11	2,890	6	37,276	82	45,367	100
Ulanga	2,018	7	3,510	13	22,023	80	27,550	100
Morogoro Urban	283	7	531	14	3,098	79	3,912	100
Mvomero	1,814	5	9,071	24	27,492	72	38,378	100
Total	12,460	6	34,888	17	164,047	78	211,395	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	%
Kilosa	40,822	66	16,037	26	4,790	8	61,650	100
Morogoro Rural	25,413	74	6,880	20	2,246	7	34,539	100
Kilombero	34,675	76	8,958	20	1,734	4	45,367	100
Ulanga	19,215	70	5,791	21	2,544	9	27,550	100
Morogoro Urban	2,496	64	1,257	32	159	4	3,912	100
Mvomero	25,120	65	9,629	25	3,628	9	38,378	100
Total	147,741	70	48,552	23	15,103	7	211,395	100

9.40: 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	%
Kilosa	2,291	3.7	5,623	9.1	1,250	2.0	52,277	84.8	208	0.3	61,650	100
Morogoro Rural	0	0.0	2,387	6.9	281	0.8	31,731	91.9	140	0.4	34,539	100
Kilombero	289	0.6	5,057	11.1	867	1.9	39,154	86.3	0	0.0	45,367	100
Ulanga	351	1.3	1,843	6.7	263	1.0	25,094	91.1	0	0.0	27,550	100
Morogoro Urban	18	0.5	407	10.4	89	2.3	3,398	86.9	0	0.0	3,912	100
Mvomero	698	1.8	4,745	12.4	6,838	17.8	26,097	68.0	0	0.0	38,378	100
Total	3,646	1.7	20,062	9.5	9,587	4.5	177,751	84.1	349	0.2	211,395	100

9.41: 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	%
Kilosa	1,250	2	1,250	2	1,250	2	57,276	93	625	1	61,650	100
Morogoro Rural	0	0	1,685	5	842	2	31,871	92	140	0	34,539	100
Kilombero	0	0.0	4,768	10.5	722	1.6	39,877	87.9	0	0.0	45,367	100
Ulanga	175	0.6	1,404	5.1	702	2.5	25,181	91.4	88	0.3	27,550	100
Morogoro Urban	0	0.0	177	4.5	53	1.4	3,522	90.0	159	4.1	3,912	100
Mvomero	837	2.2	3,628	9.5	5,722	14.9	28,050	73.1	140	0.4	38,378	100
Total	2,262	1.1	12,912	6.1	9,291	4.4	185,778	87.9	1,152	0.5	211,395	100

9.42: 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	%
Kilosa	23,327	38	14,371	23	23,952	39	61,650	100
Morogoro Rural	6,037	17	10,390	30	18,112	52	34,539	100
Kilombero	15,604	34	8,380	18	21,383	47	45,367	100
Ulanga	8,511	31	7,107	26	11,933	43	27,550	100
Morogoro Urban	1,080	28	938	24	1,894	48	3,912	100
Mvomero	11,443	30	6,838	18	20,096	52	38,378	100
Total	66,002	31	48,024	23	97,369	46	211,395	100

9.43: 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	%
Kilosa	19,370	31	36,656	59	5,623	9	61,650	100
Morogoro Rural	14,883	43	17,129	50	2,527	7	34,539	100
Kilombero	16,471	36	27,018	60	1,878	4	45,367	100
Ulanga	9,300	34	16,758	61	1,492	5	27,550	100
Morogoro Urban	1,363	35	2,319	59	230	6	3,912	100
Mvomero	12,699	33	22,050	57	3,628	9	38,378	100
Total	74,086	35	121,930	58	15,379	7	211,395	100

9.44: Number of Livestock Rearing Households by Method of Fowlphoid Disease Control and District during 2007/08 Agriculture Year

District	Vaccination		Local Herbs		None		Total	
	Number	%	Number	%	Number	%	Number	%
Kilosa	6,248	10	11,247	18	44,154	72	61,650	100
Morogoro Rural	1,123	3	4,774	14	28,642	83	34,539	100
Kilombero	4,190	9	9,825	22	31,352	69	45,367	100
Ulanga	1,141	4	5,177	19	21,233	77	27,550	100
Morogoro Urban	212	5	832	21	2,867	73	3,912	100
Mvomero	1,814	5	6,420	17	30,144	79	38,378	100
Total	14,729	7	38,273	18	158,393	75	211,395	100

9.45: 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	%
Kilosa	1,041	2	6,248	11	51,236	88	58,525	100
Morogoro Rural	0	0	1,966	6	32,152	94	34,118	100
Kilombero	289	1	5,201	12	39,588	88	45,078	100
Ulanga	439	2	1,843	7	25,094	92	27,375	100
Morogoro Urban	106	3	248	6	3,558	91	3,912	100
Mvomero	558	1	4,187	11	33,633	88	38,378	100
Total	2,433	1	19,692	9	185,260	89	207,385	100

9.46: 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	%
Kilosa	1,041	2	6,457	11	50,819	87	58,317	100
Morogoro Rural	0	0	1,825	5	32,292	95	34,118	100
Kilombero	433	1	4,912	11	39,732	88	45,078	100
Ulanga	263	1	2,194	8	24,918	91	27,375	100
Morogoro Urban	177	5	177	5	3,558	91	3,912	100
Mvomero	698	2	4,047	11	33,633	88	38,378	100
Total	2,613	1	19,612	9	184,953	89	207,177	100

LIVESTOCK EXTENSION SERVICES

9.47: 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	%	
Kilosa	22,285	38	37,073	62	59,358
Morogoro Rural	7,161	21	27,098	79	34,258
Kilombero	29,330	65	16,037	35	45,367
Ulanga	17,724	65	9,651	35	27,375
Morogoro Urban	1,947	50	1,965	50	3,912
Mvomero	21,771	58	15,630	42	37,401
Total	100,217	48	107,454	52	207,671

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

District	Source of Livestock Extension												Number of Household receiving Extension
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbour		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Kilosa	17,703	79.4	3,749	16.8	0	0.0	0	0.0	1,250	5.6	3,957	17.8	22,285
Morogoro Rural	5,054	70.6	3,089	43.1	140	2.0	421	5.9	2,387	33.3	562	7.8	7,161
Kilombero	26,584	90.6	722	2.5	289	1.0	144	0.5	3,756	12.8	2,456	8.4	29,330
Ulanga	15,004	84.7	877	5.0	351	2.0	263	1.5	1,228	6.9	4,212	23.8	17,724
Morogoro Urban	1,593	81.8	283	14.5	0	0.0	159	8.2	425	21.8	89	4.5	1,947
Mvomero	18,282	84.0	3,210	14.7	1,116	5.1	279	1.3	1,814	8.3	1,954	9.0	21,771
Total	84,221	84.0	11,931	11.9	1,897	1.9	1,267	1.3	10,860	10.8	13,229	13.2	100,217

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

	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbor		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
District	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Kilosa	8,123	86.7	0	0.0	0	0.0	0	0.0	208	2.2	1,041	11.1	0	0.0	9,372
Morogoro Rural	1,404	47.6	983	33.3	0	0.0	0	0.0	562	19.0	0	0.0	0	0.0	2,948
Kilombero	17,049	92.2	289	1.6	144	0.8	0	0.0	867	4.7	144	0.8	0	0.0	18,494
Ulanga	2,983	75.6	439	11.1	0	0.0	88	2.2	175	4.4	263	6.7	0	0.0	3,948
Morogoro Urban	1,133	80.0	159	11.3	0	0.0	18	1.3	53	3.8	18	1.3	35	2.5	1,416
Mvomero	5,164	72.5	837	11.8	140	2.0	0	0.0	279	3.9	698	9.8	0	0.0	7,117
Total	35,855	82.8	2,707	6.3	284	0.7	105	0.2	2,144	5.0	2,165	5.0	35	0.1	43,296

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

	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbor		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
District	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Kilosa	6,873	89.2	833	10.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7,706
Morogoro Rural	2,106	42.9	1,544	31.4	0	0.0	140	2.9	1,123	22.9	0	0.0	0	0.0	4,914
Kilombero	17,193	90.2	144	0.8	0	0.0	0	0.0	722	3.8	867	4.5	144	0.8	19,071
Ulanga	7,107	77.1	526	5.7	0	0.0	88	1.0	351	3.8	965	10.5	175	1.9	9,213
Morogoro Urban	779	86.3	35	3.9	0	0.0	35	3.9	35	3.9	18	2.0	0	0.0	903
Mvomero	10,746	80.2	1,396	10.4	419	3.1	0	0.0	419	3.1	419	3.1	0	0.0	13,397
Total	44,804	81.2	4,479	8.1	419	0.8	264	0.5	2,651	4.8	2,268	4.1	320	0.6	55,204

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

	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbor		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
District															
Kilosa	833	36	1,250	55	0	0	0	0	208	9	0	0	0	0	2,291
Morogoro Rural	562	31	562	31	0	0	281	15	421	23	0	0	0	0	1,825
Kilombero	3,034	91	0	0	144	4	0	0	144	4	0	0	0	0	3,323
Ulanga	1,404	80	0	0	0	0	0	0	175	10	175	10	0	0	1,755
Morogoro Urban	248	70	18	5	0	0	53	15	35	10	0	0	0	0	354
Mvomero	1,256	53	419	18	140	6	0	0	419	18	0	0	140	6	2,372
Total	7,336	62	2,248	19	284	2	334	3	1,404	12	175	1	140	1	11,921

9.52: Number Of Households Receiving Extension Advice On Livestock Fattening By District During The 2007/08 Agriculture Year

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbor		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Kilosa	417	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	417
Morogoro Rural	983	58.3	421	25.0	0	0.0	0	0.0	140	8.3	140	8.3	0	0.0	1,685
Kilombero	2,167	88.2	0	0.0	0	0.0	0	0.0	289	11.8	0	0.0	0	0.0	2,456
Ulanga	877	76.9	0	0.0	0	0.0	0	0.0	0	0.0	263	23.1	0	0.0	1,141
Morogoro Urban	159	75.0	0	0.0	0	0.0	35	16.7	18	8.3	0	0.0	0	0.0	212
Mvomero	279	33.3	140	16.7	0	0.0	0	0.0	279	33.3	0	0.0	140	16.7	837
Total	4,882	72.4	561	8.3	42	0.6	35	0.5	726	10.8	404	6.0	140	2.1	6,748

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

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbor		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Kilosa	12,705	81.3	833	5.3	0	0.0	0	0.0	417	2.7	1,666	10.7	0	0.0	15,621
Morogoro Rural	2,527	62.1	702	17.2	0	0.0	0	0.0	702	17.2	140	3.4	0	0.0	4,072
Kilombero	20,372	86.5	0	0.0	0	0.0	0	0.0	1,589	6.7	1,300	5.5	289	1.2	23,550
Ulanga	9,213	77.8	263	2.2	0	0.0	0	0.0	351	3.0	2,018	17.0	0	0.0	11,845
Morogoro Urban	1,027	81.7	35	2.8	0	0.0	53	4.2	106	8.5	35	2.8	0	0.0	1,257
Mvomero	11,583	77.6	698	4.7	558	3.7	279	1.9	698	4.7	977	6.5	140	0.9	14,932
Total	57,426	80.6	2,532	3.6	558	0.8	332	0.5	3,863	5.4	6,137	8.6	429	0.6	71,277

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

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbor		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Kilosa	4,374	84.0	208	4.0	0	0.0	0	0.0	208	4.0	417	8.0	0	0.0	5,207
Morogoro Rural	1,825	59.1	421	13.6	0	0.0	0	0.0	842	27.3	0	0.0	0	0.0	3,089
Kilombero	5,490	92.7	144	2.4	0	0.0	0	0.0	289	4.9	0	0.0	0	0.0	5,924
Ulanga	2,808	91.4	0	0.0	0	0.0	0	0.0	175	5.7	88	2.9	0	0.0	3,071
Morogoro Urban	602	82.9	18	2.4	0	0.0	71	9.8	35	4.9	0	0.0	0	0.0	726
Mvomero	2,512	69.2	558	15.4	0	0.0	0	0.0	558	15.4	0	0.0	0	0.0	3,628
Total	17,611	81.4	1,350	6.2	0	0.0	71	0.3	2,109	9.7	504	2.3	85	0.4	21,644

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

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbor		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Kilosa	833	57.1	625	42.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,458
Morogoro Rural	421	25.0	702	41.7	178	10.6	0	0.0	562	33.3	0	0.0	0	0.0	1,685
Kilombero	3,612	96.2	0	0.0	288	7.7	0	0.0	144	3.8	0	0.0	0	0.0	3,756
Ulanga	1,053	85.7	0	0.0	45	3.7	0	0.0	88	7.1	88	7.1	0	0.0	1,228
Morogoro Urban	177	83.3	0	0.0	284	133.7	35	16.7	0	0.0	0	0.0	0	0.0	212
Mvomero	1,116	66.7	279	16.7	415	24.8	0	0.0	140	8.3	0	0.0	140	8.3	1,675
Total	7,213	72.0	1,606	16.0	42	0.4	35	0.4	933	9.3	88	0.9	140	1.4	10,015

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

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbor		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Kilosa	3,124	78.9	417	10.5	0	0.0	0	0.0	0	0.0	417	10.5	0	0.0	3,957
Morogoro Rural	1,544	44.0	1,404	40.0	0	0.0	0	0.0	562	16.0	0	0.0	0	0.0	3,510
Kilombero	13,726	92.2	144	1.0	0	0.0	0	0.0	578	3.9	289	1.9	144	1.0	14,882
Ulanga	7,019	78.4	526	5.9	263	2.9	0	0.0	175	2.0	877	9.8	88	1.0	8,950
Morogoro Urban	974	87.3	35	3.2	0	0.0	35	3.2	71	6.3	0	0.0	0	0.0	1,115
Mvomero	5,303	76.0	977	14.0	698	10.0	0	0.0	0	0.0	0	0.0	0	0.0	6,978
Total	31,690	80.4	3,504	8.9	961	2.4	35	0.1	1,386	3.5	1,583	4.0	232	0.6	39,391

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

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbor		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Kilosa	2,083	76.9	417	15.4	0	0.0	0	0.0	0	0.0	208	7.7	0	0.0	2,708
Morogoro Rural	1,685	50.0	421	12.5	140	4.2	0	0.0	702	20.8	421	12.5	0	0.0	3,370
Kilombero	2,890	95.2	0	0.0	0	0.0	0	0.0	0	0.0	144	4.8	0	0.0	3,034
Ulanga	790	60.0	88	6.7	88	6.7	88	6.7	0	0.0	263	20.0	0	0.0	1,316
Morogoro Urban	195	73.3	18	6.7	0	0.0	18	6.7	35	13.3	0	0.0	0	0.0	266
Mvomero	1,675	75.0	419	18.8	0	0.0	0	0.0	0	0.0	0	0.0	140	6.3	2,233
Total	9,316	72.1	1,362	10.5	228	1.8	105	0.8	737	5.7	1,037	8.0	140	1.1	12,926

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

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbor		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Kilosa	625	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	625
Morogoro Rural	842	42.9	842	42.9	0	0.0	0	0.0	281	14.3	0	0.0	0	0.0	1,966
Kilombero	722	71.4	0	0.0	0	0.0	0	0.0	289	28.6	0	0.0	0	0.0	1,011
Ulanga	1,141	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,141
Morogoro Urban	124	58.3	35	16.7	0	0.0	53	25.0	0	0.0	0	0.0	0	0.0	212
Mvomero	977	70.0	140	10.0	140	10.0	0	0.0	0	0.0	0	0.0	140	10.0	1,396
Total	4,431	69.8	1,017	16.0	140	2.2	53	0.8	570	9.0	0	0.0	140	2.2	6,350

9.59: 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		Neighbor		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Kilosa	2,499	92.3	208	7.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2,708
Morogoro Rural	842	54.5	421	27.3	0	0.0	0	0.0	281	18.2	0	0.0	0	0.0	1,544
Kilombero	7,657	93.0	144	1.8	0	0.0	144	1.8	144	1.8	144	1.8	0	0.0	8,235
Ulanga	1,667	61.3	263	9.7	0	0.0	0	0.0	263	9.7	351	12.9	175	6.5	2,720
Morogoro Urban	779	81.5	18	1.9	0	0.0	53	5.6	89	9.3	18	1.9	0	0.0	956
Mvomero	1,535	57.9	558	21.1	419	15.8	0	0.0	140	5.3	0	0.0	0	0.0	2,652
Total	14,980	79.6	1,613	8.6	419	2.2	198	1.1	917	4.9	513	2.7	175	0.9	18,815

FISH FARMING

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

District	Was Fish farming carried out by this household during 2007/08				
	Yes	%	No	%	Total
Kilosa	0	0.0	84,352	100.0	84,352
Morogoro Rural	140	0.2	56,722	99.8	56,863
Kilombero	0	0.0	58,515	100.0	58,515
Ulanga	88	0.2	35,447	99.8	35,535
Morogoro Urban	18	0.3	6,620	99.7	6,638
Mvomero	0	0.0	56,520	100.0	56,520
Total	246	0.1	298,175	99.9	298,421

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

District	system of fish farming			Total
	Natural Pond	Dug out Pond	Water Reservoir	
Morogoro	0	0	140	140
Ulanga	88	0	0	88
Morogoro Urban	0	18	0	18
Total	88	18	140	246

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

District	Source of fingerlings							Total
	Own Pond	Government Institution	NGOs / Project	Neighbour	Private Trader	Natural pond	Other	
Kilosa	0	0	0	0	0	0	0	0
Morogoro Rural	0	0	0	0	140	0	0	140
Kilombero	0	0	0	0	0	0	0	0
Ulanga	88	0	0	0	0	0	0	88
Morogoro Urban	0	0	0	18	0	0	0	18
Mvomero	0	0	0	0	0	0	0	0
Total	88	0	0	18	140	0	0	246

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

District	where sold								Total
	Neighbour	Local Market	Secondary Market	Processing Industry	Large Scale Farm	Trader at Farm	Did not Sell	Other	
Kilosa	0	0	0	0	0	0	0	0	0
Morogoro Rural	0	0	0	0	0	0	140	0	140
Kilombero	0	0	0	0	0	0	0	0	0
Ulanga	0	0	0	0	0	0	88	0	88
Morogoro Urban	0	0	0	0	0	0	18	0	18
Mvomero	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0

9.64: Total Number of Fish Harvested, their weight and Quantity Sold by District during 2007/08 agriculture year

District	Fish Harvested				Fish Sold	
	Number of Fish	%	Quantity (Kg)	%	Quantity (Kg)	%
Kilosa	0	0	0	0	0	0
Morogoro Rural	0	0	0	0	0	0
Kilombero	0	0	0	0	0	0
Ulanga	4,387	100	7,019	100	0	0
Morogoro Urban	0	0	0	0	0	0
Mvomero	0	0	0	0	0	0
Total	4,387	100	7,019	100	0	0.0

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

District	Mean Size of Pond (Sq.metre)	Type of Fish								Total
		Tilapia		Milkfish		Prawns/Crabs		Lulu		
		Number	%	Number	%	Number	%	Number	%	
Kilosa	0	0	0	0	0	0	0	0	0	
Morogoro Rural	32	20	100.0	0	0	0	0	0	0	20
Kilombero	0	0	0.0	0	0	0	0	0	0	0
Ulanga	30	100	100.0	0	0.0	0	0	0	0	100
Morogoro Urban	70	20	100.0	0	0	0	0	0	0	20
Mvomero	0	0	0.0	0	0	0	0	0	0	0
Total	132	140	100.0	0	0	0	0	0	0	140

9.67: Number of Agricultural Households By frequency of stocking of Fingerings in fish ponds and District, 2007/08 Agricultural Year

District	Frequency of stocking				Total
	1	2	3	Others	
Kilosa	0	0	0	0	0
Morogoro Rural	140	0	0	0	140
Kilombero	0	0	0	0	0
Ulanga	88	0	0	0	88
Morogoro Urban	0	0	0	18	18
Mvomero	0	0	0	0	0
Total	228	0	0	18	246

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

District	Level of Fish Pond Service				Total
	High	Meadium/Average	Low	Other	
Kilosa	0	0	0	0	0
Morogoro Rural	0	0	140	0	140
Kilombero	0	0	0	0	0
Ulanga	0	0	0	88	88
Morogoro Urban	0	18	0	0	18
Mvomero	0	0	0	0	0
Total	0	18	140	88	246

BEE KEEPING

9.69: 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	%
Kilosa	1,666	2	82,685	98	84,352	100
Morogoro Rural	281	0	56,582	100	56,863	100
Kilombero	289	0	58,226	100	58,515	100
Ulanga	351	1	35,184	99	35,535	100
Morogoro Urban	35	1	6,602	99	6,638	100
Mvomero	140	0	56,380	100	56,520	100
Total	2,762	1	295,659	99	298,421	100

9.70: Number of Agriculture Households Harvesting Honey by Type of Bee and District during the 2007/08 Agriculture 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
Kilosa	208	1,458	1,666	0	.0	.0	208	1,458	1,666
Morogoro	0	281	281	0	.0	.0	0	281	281
Kilombero	144	144	289	0	.0	.0	144	144	289
Ulanga	88	351	439	0	.0	.0	88	351	439
Morogoro Urban	18	18	35	0	.0	.0	18	18	35
Mvomero	0	140	140	0	.0	.0	0	140	140
Total	458	2,391	2,850	0	.0	.0	458	2,391	2,850

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

District	Stingless Bee				Sting Bee				Total	
	Honey Harvested		Honey Sold		Honey Harvested		Honey Sold		Honey Sold	Honey Harvested
	Quantity (lts)	%	Quantity (lts)	%	Quantity (lts)	%	Quantity (lts)	%		
Kilosa	2,083	3	1,666	2	79,145	97	72,896	98	74,563	81,227
Morogoro Rural	0	0	0	0	842	100	0	0	0	842
Kilombero	2,167	43	1,445	67	2,890	57	722	33	2,167	5,057
Ulanga	1,755	8	1,755	18	19,303	92	7,897	82	9,651	21,058
Morogoro Urban	354	50	354	50	354	50	354	50	708	708
Mvomero	0	0	0	0	39,075	100	39,075	100	39,075	39,075
Total	6359	4	5220	4	141609	96	120945	96	126,165	147,968

9.72: 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 of Households	Number of Hives	Number of Households	Number of Hives	Number of Households	Number of Hives	Number of Households	Number of Hives	Number of Households	Number of Hives	Number of Households	Number of Hives
Kilosa	208	0	1,458	0	1,666	0	208	1,041	1,458	21,869	1,666	22,910
Morogoro Rural	0	.	281	0	281	0	0	0	281	281	281	281
Kilombero	144	0	144	0	289	0	144	1,156	144	578	289	1,734
Ulanga	88	0	351	263	439	263	88	88	351	1,053	439	1,141
Morogoro Urban	18	177	18	35	35	212	18	0	18	0	35	0
Mvomero	0	.	140	0	140	0	0	.	140	25,120	140	25,120
Total	458	177	2,391	299	2,850	476	458	2,285	2,391	48,900	2,850	51,185

9.73: 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	
	Stingbee	Stingless Bee	Stingbee	Stingless Bee	Stingbee	Stingless Bee	Stingbee	Stingless Bee	Stingless Bee	Stingbee	Stingless Bee
Kilosa	833	208	417	0	0	0	0	0	0	0	0
Morogoro Rural	0	0	0	0	0	0	0	0	0	0	0
Kilombero	144	144	0	0	0	0	0	0	0	0	0
Ulanga	263	88	88	0	0	0	0	0	0	0	0
Morogoro Urban	18	18	0	0	0	0	0	0	0	0	0
Mvomero	140	0	0	0	0	0	0	0	0	0	0
Total	1,398	458	504	0	0	0	0	0	0	0	0

Cont. 9.73: Number of Agriculture Households by Location of Selling Honey and District during the 2007/08 Agriculture Year

District	Did not sell		Other		Total	
	Stingbee	Stingless Bee	Stingbee	Stingless Bee	Stingbee	Stingless Bee
Kilosa	208	0	0	0	1,458	208
Morogoro	281	0	0	0	281	0
Rural						
Kilombero	0	0	0	0	144	144
Ulanga	0	0	0	0	351	88
Morogoro	0	0	0	0	18	18
Urban						
Mvomero	0	0	0	0	140	0
Total	489	0	0	0	2,391	458

9.74: 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
Kilosa	1,000	1,357	1,313
Morogoro Rural	0	0	0
Kilombero	2,000	4,000	3,000
Ulanga	1,000	2,600	2,280
Morogoro Urban	1,500	1,500	1,500
Mvomero	0	6,000	6,000
Total	1,335	1,812	1,735

AGRICULTURE CONSTRAINTS

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

District	Constraint							
	Access to Land		Ownership of Land		Poor Soil Cultivation Equipment		Soil Fertility	
	Number	%	Number	%	Number	%	Number	%
Kilosa	13,954	16.54	1,874	2.22	17,079	20.25	6,040	7.16
Morogoro	9,126	16.05	281	0.49	17,410	30.62	3,510	6.17
Kilombero	5,201	8.89	2,312	3.95	16,471	28.15	1,300	2.22
Ulanga	2,194	6.14	614	1.72	13,863	38.82	965	2.70
Morogoro Urban	1,345	20.27	283	4.27	1,151	17.33	443	6.67
Mvomero	5,303	9.41	1,396	2.48	10,746	19.06	2,233	3.96
Total	37,124	12.44	6,760	2.26	76,718	25.71	14,491	4.86

Cont. 9.75: Number of Agricultural Households Reporting the FIRST most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Access to Improved Seed		Irrigation Facilities		Access to Chemical Inputs		Cost of Inputs	
	Number	%	Number	%	Number	%	Number	%
Kilosa	7,081	8.40	833	0.99	625	0.74	6,248	7.41
Morogoro	2,106	3.70	1,264	2.22	1,123	1.98	2,246	3.95
Kilombero	2,312	3.95	2,456	4.20	722	1.23	9,825	16.79
Ulanga	1,316	3.69	351	0.98	1,316	3.69	2,281	6.39
Morogoro Urban	177	2.67	53	0.80	0	0.00	584	8.80
Mvomero	1,535	2.72	2,791	4.95	2,233	3.96	5,443	9.65
Total	14,527	4.87	7,748	2.60	6,019	2.02	26,627	8.92

Cont. 9.75: Number of Agricultural Households Reporting the FIRST most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Extension Services		Access to Forest Resources		Hunting and Gathering		Access to Potable Water	
	Number	%	Number	%	Number	%	Number	%
Kilosa	3,332	3.95	0	0.00	0	0.00	4,582	5.43
Morogoro	3,650	6.42	0	0.00	0	0.00	702	1.23
Kilombero	1,878	3.21	144	0.25	0	0.00	1,011	1.73
Ulanga	1,492	4.18	88	0.25	175	0.49	175	0.49
Morogoro Urban	549	8.27	0	0.00	0	0.00	124	1.87
Mvomero	5,443	9.65	0	0.00	0	0.00	698	1.24
Total	16,344	5.48	232	0.08	175	0.06	7,293	2.44

Cont. 9.75: Number of Agricultural Households Reporting the FIRST most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Access to Credit		Access to Off Farm Income		Threshing		Harvesting	
	Number	%	Number	%	Number	%	Number	%
Kilosa	3,749	4.44	625	0.74	0	0.00	0	0.00
Morogoro	3,370	5.93	1,123	1.98	0	0.00	140	0.25
Kilombero	3,323	5.68	1,589	2.72	289	0.49	0	0.00
Ulanga	1,755	4.91	526	1.47	88	0.25	0	0.00
Morogoro Urban	584	8.80	106	1.60	18	0.27	0	0.00
Mvomero	4,187	7.43	2,791	4.95	140	0.25	0	0.00
Total	16,967	5.68	6,761	2.27	534	0.18	140	0.05

Cont. 9.75: Number of Agricultural Households Reporting the FIRST most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Crop Storage		Crop Processing		Marketing Information		Higher Transport Costs	
	Number	%	Number	%	Number	%	Number	%
Kilosa	625	0.74	625	0.74	208	0.25	0	0.00
Morogoro	0	0.00	0	0.00	562	0.99	140	0.25
Kilombero	144	0.25	144	0.25	289	0.49	867	1.48
Ulanga	88	0.25	0	0.00	175	0.49	351	0.98
Morogoro Urban	0	0.00	0	0.00	18	0.27	124	1.87
Mvomero	140	0.25	0	0.00	1,256	2.23	558	0.99
Total	997	0.33	769	0.26	2,508	0.84	2,040	0.68

Cont. 9.75: Number of Agricultural Households Reporting the FIRST most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Destruction by Animals		Stealing		Pest and Disease		Local Government Taxation	
	Number	%	Number	%	Number	%	Number	%
Kilosa	1,458	1.73	625	0.74	833	0.99	0	0.00
Morogoro	2,808	4.94	702	1.23	1,123	1.98	0	0.00
Kilombero	1,445	2.47	1,011	1.73	4,045	6.91	0	0.00
Ulanga	2,281	6.39	88	0.25	2,544	7.13	0	0.00
Morogoro Urban	230	3.47	142	2.13	35	0.53	0	0.00
Mvomero	1,396	2.48	1,116	1.98	1,396	2.48	0	0.00
Total	9,618	3.22	3,684	1.23	9,977	3.34	0	0.00

Cont. 9.75: Number of Agricultural Households Reporting the FIRST most important Constraint by District, 2007/08 Agricultural Year

District	Constraint					
	Extended dry spell		Crop Farmers/Livestock keepers Conflicts		Total	
	Number	%	Number	%	Number	%
Kilosa	5,415	6.42	8,539	10.12	84,352	100.00
Morogoro	4,914	8.64	562	0.99	56,863	100.00
Kilombero	1,589	2.72	144	0.25	58,515	100.00
Ulanga	1,316	3.69	1,667	4.67	35,710	100.00
Morogoro Urban	637	9.60	35	0.53	6,638	100.00
Mvomero	4,884	8.66	698	1.24	56,380	100.00
Total	18,756	6.28	11,646	3.90	298,457	100.00

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

District	Constraint							
	Access to Land		Ownership of Land		Poor Soil Cultivation Equipment		Soil Fertility	
	Number	%	Number	%	Number	%	Number	%
Kilosa	5,832	6.91	5,832	6.91	12,080	14.32	6,248	7.41
Morogoro Rural	3,089	5.43	1,825	3.21	11,232	19.75	3,791	6.67
Kilombero	433	0.74	1,300	2.22	9,969	17.04	2,745	4.69
Ulanga	2,018	5.68	702	1.98	5,615	15.80	1,404	3.95
Morogoro Urban	354	5.33	779	11.73	708	10.67	460	6.93
Mvomero	2,372	4.22	1,535	2.73	8,094	14.39	3,628	6.45
Total	14,098	4.73	11,973	4.02	47,699	16.00	18,277	6.13

Cont. 9.76: Number of Agricultural Households Reporting the SECOND most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Access to Improved Seed		Irrigation Facilities		Access to Chemical Inputs		Cost of Inputs	
	Number	%	Number	%	Number	%	Number	%
Kilosa	8,748	10.37	1,458	1.73	2,708	3.21	10,830	12.84
Morogoro Rural	7,161	12.59	1,404	2.47	1,544	2.72	4,212	7.41
Kilombero	4,045	6.91	4,623	7.90	2,890	4.94	15,893	27.16
Ulanga	4,913	13.83	965	2.72	2,632	7.41	3,948	11.11
Morogoro Urban	389	5.87	124	1.87	89	1.33	814	12.27
Mvomero	5,303	9.43	1,814	3.23	4,187	7.44	8,234	14.64
Total	30,559	10.25	10,389	3.48	14,049	4.71	43,932	14.74

Cont. 9.76: Number of Agricultural Households Reporting the SECOND most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Extension Services		Access to Forest Resources		Hunting and Gathering		Access to Potable Water	
	Number	%	Number	%	Number	%	Number	%
Kilosa	2,708	3.21	208	0.25	0	0.00	2,499	2.96
Morogoro Rural	6,458	11.36	281	0.49	0	0.00	281	0.49
Kilombero	1,878	3.21	144	0.25	144	0.25	1,011	1.73
Ulanga	2,720	7.65	0	0.00	175	0.49	175	0.49
Morogoro Urban	779	11.73	0	0.00	0	0.00	230	3.47
Mvomero	3,768	6.70	0	0.00	140	0.25	837	1.49
Total	18,311	6.14	634	0.21	460	0.15	5,034	1.69

Cont. 9.76: Number of Agricultural Households Reporting the SECOND most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Access to Credit		Access to Off Farm Income		Threshing		Harvesting	
	Number	%	Number	%	Number	%	Number	%
Kilosa	8,956	10.62	833	0.99	0	0.00	208	0.25
Morogoro Rural	3,370	5.93	842	1.48	281	0.49	0	0.00
Kilombero	2,167	3.70	867	1.48	144	0.25	0	0.00
Ulanga	2,194	6.17	263	0.74	175	0.49	88	0.25
Morogoro Urban	389	5.87	177	2.67	0	0.00	0	0.00
Mvomero	3,349	5.96	1,675	2.98	140	0.25	0	0.00
Total	20,425	6.85	4,657	1.56	740	0.25	296	0.10

Cont. 9.76: Number of Agricultural Households Reporting the SECOND most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Crop Storage		Crop Processing		Marketing Information		Higher Transport Costs	
	Number	%	Number	%	Number	%	Number	%
Kilosa	417	0.49	208	0.25	833	0.99	1,041	1.23
Morogoro Rural	562	0.99	0	0.00	702	1.23	1,123	1.98
Kilombero	578	0.99	0	0.00	433	0.74	1,445	2.47
Ulanga	0	0.00	175	0.49	614	1.73	351	0.99
Morogoro Urban	53	0.80	18	0.27	106	1.60	248	3.73
Mvomero	0	0.00	0	0.00	1,535	2.73	2,093	3.72
Total	1,609	0.54	401	0.13	4,224	1.42	6,301	2.11

Cont. 9.76: Number of Agricultural Households Reporting the SECOND most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Destruction by Animals		Stealing		Pest and Disease		Local Government Taxation	
	Number	%	Number	%	Number	%	Number	%
Kilosa	1,874	2.22	1,041	1.23	1,874	2.22	0	0.00
Morogoro Rural	2,246	3.95	421	0.74	3,089	5.43	0	0.00
Kilombero	1,445	2.47	722	1.23	4,334	7.41	144	0.25
Ulanga	2,632	7.41	263	0.74	1,404	3.95	88	0.25
Morogoro Urban	212	3.20	177	2.67	124	1.87	0	0.00
Mvomero	1,256	2.23	698	1.24	2,233	3.97	0	0.00
Total	9,666	3.24	3,323	1.11	13,058	4.38	232	0.08

Cont. 9.76: Number of Agricultural Households Reporting the SECOND most important Constraint by District, 2007/08 Agricultural Year

District	Constraint					
	Extended dry spell		Crop Farmers/Livestock keepers Conflicts		Total	
	Number	%	Number	%	Number	%
Kilosa	5,415	6.42	2,499	2.96	84,352	100.00
Morogoro Rural	1,544	2.72	1,404	2.47	56,863	100.00
Kilombero	867	1.48	289	0.49	58,515	100.00
Ulanga	1,141	3.21	877	2.47	35,535	100.00
Morogoro Urban	372	5.60	35	0.53	6,638	100.00
Mvomero	2,791	4.96	558	0.99	56,241	100.00
Total	12,130	4.07	5,663	1.90	298,142	100.00

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

District	Constraint							
	Access to Land		Ownership of Land		Poor Soil Cultivation Equipment		Soil Fertility	
	Number	%	Number	%	Number	%	Number	%
Kilosa	2,916	3.46	2,291	2.72	11,872	14.07	2,916	3.46
Morogoro Rural	562	0.99	1,123	1.98	7,301	12.84	2,527	4.44
Kilombero	1,589	2.72	722	1.23	6,502	11.11	2,167	3.70
Ulanga	965	2.72	175	0.50	4,826	13.61	1,228	3.47
Morogoro Urban	89	1.33	89	1.33	513	7.73	513	7.73
Mvomero	1,814	3.22	1,396	2.48	5,861	10.40	2,233	3.96
Total	7,935	2.66	5,796	1.94	36,875	12.37	11,585	3.89

Cont. 9.77: Number of Agricultural Households Reporting the THIRD most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Access to Improved Seed		Irrigation Facilities		Access to Chemical Inputs		Cost of Inputs	
	Number	%	Number	%	Number	%	Number	%
Kilosa	8,331	9.88	1,250	1.48	4,582	5.43	9,372	11.11
Morogoro Rural	4,633	8.15	2,527	4.44	3,791	6.67	4,774	8.40
Kilombero	4,479	7.65	3,179	5.43	4,190	7.16	8,380	14.32
Ulanga	2,457	6.93	965	2.72	2,983	8.42	4,826	13.61
Morogoro Urban	478	7.20	159	2.40	212	3.20	655	9.87
Mvomero	5,164	9.16	2,233	3.96	2,791	4.95	9,350	16.58
Total	25,541	8.57	10,313	3.46	18,550	6.22	37,357	12.53

Cont. 9.77: Number of Agricultural Households Reporting the THIRD most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Extension Services		Access to Forest Resources		Hunting and Gathering		Access to Potable Water	
	Number	%	Number	%	Number	%	Number	%
Kilosa	8,331	9.88	208	0.25	0	0.00	625	0.74
Morogoro Rural	7,020	12.35	0	0.00	0	0.00	1,966	3.46
Kilombero	2,890	4.94	144	0.25	0	0.00	2,312	3.95
Ulanga	2,895	8.17	88	0.25	351	0.99	439	1.24
Morogoro Urban	1,009	15.20	0	0.00	0	0.00	425	6.40
Mvomero	3,628	6.44	140	0.25	0	0.00	1,116	1.98
Total	25,774	8.64	580	0.19	351	0.12	6,882	2.31

Cont. 9.77: Number of Agricultural Households Reporting the THIRD most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Access to Credit		Access to Off Farm Income		Threshing		Harvesting	
	Number	%	Number	%	Number	%	Number	%
Kilosa	11,455	13.58	1,666	1.98	417	0.49	0	0.00
Morogoro Rural	7,161	12.59	1,404	2.47	0	0.00	140	0.25
Kilombero	5,490	9.38	1,445	2.47	0	0.00	289	0.49
Ulanga	3,246	9.16	1,053	2.97	175	0.50	0	0.00
Morogoro Urban	920	13.87	283	4.27	18	0.27	0	0.00
Mvomero	4,187	7.43	3,489	6.19	279	0.50	140	0.25
Total	32,459	10.89	9,340	3.13	889	0.30	569	0.19

Cont. 9.77: Number of Agricultural Households Reporting the THIRD most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Crop Storage		Crop Processing		Marketing Information		Higher Transport Costs	
	Number	%	Number	%	Number	%	Number	%
Kilosa	625	0.74	417	0.49	1,458	1.73	833	0.99
Morogoro Rural	140	0.25	0	0.00	2,106	3.70	1,123	1.98
Kilombero	578	0.99	433	0.74	1,445	2.47	2,023	3.46
Ulanga	351	0.99	0	0.00	702	1.98	614	1.73
Morogoro Urban	71	1.07	35	0.53	124	1.87	142	2.13
Mvomero	279	0.50	0	0.00	2,093	3.71	1,814	3.22
Total	2,044	0.69	885	0.30	7,928	2.66	6,549	2.20

Cont. 9.77: Number of Agricultural Households Reporting the THIRD most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Destruction by Animals		Stealing		Pest and Disease		Local Government Taxation	
	Number	%	Number	%	Number	%	Number	%
Kilosa	3,541	4.20	1,458	1.73	2,083	2.47	0	0.00
Morogoro Rural	3,089	5.43	702	1.23	1,264	2.22	0	0.00
Kilombero	1,011	1.73	1,445	2.47	6,646	11.36	0	0.00
Ulanga	2,632	7.43	175	0.50	1,316	3.71	0	0.00
Morogoro Urban	301	4.53	159	2.40	106	1.60	0	0.00
Mvomero	977	1.73	1,396	2.48	3,489	6.19	0	0.00
Total	11,551	3.87	5,335	1.79	14,904	5.00	0	0.00

Cont. 9.77: Number of Agricultural Households Reporting the THIRD most important Constraint by District, 2007/08 Agricultural Year

District	Constraint					
	Extended dry spell		Crop Farmers/Livestock keepers Conflicts		Total	
	Number	%	Number	%	Number	%
Kilosa	6,040	7.16	1,666	1.98	84,352	100.00
Morogoro Rural	1,825	3.21	1,685	2.96	56,863	100.00
Kilombero	1,156	1.98	0	0.00	58,515	100.00
Ulanga	2,369	6.68	614	1.73	35,447	100.00
Morogoro Urban	319	4.80	18	0.27	6,638	100.00
Mvomero	1,256	2.23	1,256	2.23	56,380	100.00
Total	12,965	4.35	5,239	1.76	298,194	100.00

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

District	Constraint							
	Access to Land		Ownership of Land		Poor Soil Cultivation Equipment		Soil Fertility	
	Number	%	Number	%	Number	%	Number	%
Kilosa	1,666	1.98	1,666	1.98	7,498	8.89	2,499	2.96
Morogoro Rural	1,404	2.47	562	0.99	4,212	7.41	2,387	4.20
Kilombero	1,011	1.73	867	1.48	3,468	5.93	2,023	3.46
Ulanga	790	2.23	526	1.49	2,106	5.94	877	2.48
Morogoro Urban	159	2.40	177	2.67	513	7.73	301	4.53
Mvomero	837	1.49	2,372	4.21	5,443	9.65	2,372	4.21
Total	5,868	1.97	6,171	2.07	23,239	7.79	10,460	3.51

Cont. 9.78: Number of Agricultural Households Reporting the FOURTH Most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Access to Improved Seed		Irrigation Facilities		Access to Chemical Inputs		Cost of Inputs	
	Number	%	Number	%	Number	%	Number	%
Kilosa	6,873	8.15	1,250	1.48	4,166	4.94	8,956	10.62
Morogoro Rural	4,212	7.41	842	1.48	842	1.48	2,808	4.94
Kilombero	3,612	6.17	2,456	4.20	2,312	3.95	6,646	11.36
Ulanga	2,194	6.19	526	1.49	1,667	4.70	3,597	10.15
Morogoro Urban	549	8.27	124	1.87	142	2.13	407	6.13
Mvomero	2,652	4.70	2,512	4.46	2,512	4.46	6,699	11.88
Total	20,091	6.74	7,711	2.59	11,640	3.90	29,113	9.76

Cont. 9.78: Number of Agricultural Households Reporting the FOURTH Most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Extension Services		Access to Forest Resources		Hunting and Gathering		Access to Potable Water	
	Number	%	Number	%	Number	%	Number	%
Kilosa	6,040	7.16	625	0.74	208	0.25	833	0.99
Morogoro Rural	4,633	8.15	281	0.49	0	0.00	702	1.23
Kilombero	1,734	2.96	289	0.49	0	0.00	1,445	2.47
Ulanga	2,895	8.17	0	0.00	351	0.99	351	0.99
Morogoro Urban	531	8.00	0	0.00	18	0.27	531	8.00
Mvomero	2,512	4.46	140	0.25	0	0.00	1,116	1.98
Total	18,345	6.15	1,334	0.45	577	0.19	4,978	1.67

Cont. 9.78: Number of Agricultural Households Reporting the FOURTH Most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Access to Credit		Access to Off Farm Income		Threshing		Harvesting	
	Number	%	Number	%	Number	%	Number	%
Kilosa Morogoro Rural	6,873	8.15	3,124	3.70	208	0.25	417	0.49
Kilombero	7,441	13.09	3,370	5.93	281	0.49	0	0.00
Ulanga Morogoro Urban	5,779	9.88	2,601	4.44	433	0.74	0	0.00
Mvomero	4,563	12.87	2,369	6.68	88	0.25	0	0.00
	832	12.53	301	4.53	0	0.00	0	0.00
	6,280	11.14	3,349	5.94	419	0.74	140	0.25
Total	31,768	10.65	15,114	5.07	1,429	0.48	556	0.19

Cont. 9.78: Number of Agricultural Households Reporting the FOURTH Most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Crop Storage		Crop Processing		Marketing Information		Higher Transport Costs	
	Number	%	Number	%	Number	%	Number	%
Kilosa Morogoro Rural	2,499	2.96	833	0.99	5,415	6.42	3,124	3.70
Kilombero	983	1.73	0	0.00	4,352	7.65	1,264	2.22
Ulanga Morogoro Urban	722	1.23	867	1.48	3,612	6.17	2,890	4.94
Mvomero	88	0.25	88	0.25	1,141	3.22	790	2.23
	106	1.60	53	0.80	177	2.67	248	3.73
	2,093	3.71	140	0.25	1,675	2.97	2,652	4.70
Total	6,492	2.18	1,980	0.66	16,372	5.49	10,966	3.68

Cont. 9.78: Number of Agricultural Households Reporting the FOURTH Most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Destruction by Animals		Stealing		Pest and Disease		Local Government Taxation	
	Number	%	Number	%	Number	%	Number	%
Kilosa Morogoro Rural	5,832	6.91	3,957	4.69	2,291	2.72	417	0.49
Kilombero	5,335	9.38	1,544	2.72	5,195	9.14	0	0.00
Ulanga Morogoro Urban	2,312	3.95	1,156	1.98	6,646	11.36	289	0.49
Mvomero	3,948	11.14	351	0.99	2,457	6.93	263	0.74
	407	6.13	301	4.53	283	4.27	18	0.27
	1,256	2.23	977	1.73	4,745	8.42	140	0.25
Total	19,090	6.40	8,286	2.78	21,617	7.25	1,126	0.38

Cont. 9.78: Number of Agricultural Households Reporting the FOURTH Most important Constraint by District, 2007/08 Agricultural Year

District	Constraint					
	Extended dry spell		Crop Farmers/Livestock keepers Conflicts		Total	
	Number	%	Number	%	Number	%
Kilosa	6,040	7.16	1,041	1.23	84,352	100.00
Morogoro Rural	2,948	5.19	1,264	2.22	56,863	100.00
Kilombero	4,623	7.90	722	1.23	58,515	100.00
Ulanga	2,720	7.67	702	1.98	35,447	100.00
Morogoro Urban	443	6.67	18	0.27	6,638	100.00
Mvomero	2,931	5.20	419	0.74	56,380	100.00
Total	19,705	6.61	4,166	1.40	298,194	100.00

9.79: Number of Agricultural Households Reporting the FIFTH important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Access to Land		Ownership of Land		Poor Soil Cultivation Equipment		Soil Fertility	
	Number	%	Number	%	Number	%	Number	%
Kilosa	2,499	2.96	2,708	3.21	6,873	8.15	2,916	3.46
Morogoro Rural	842	1.48	842	1.48	3,791	6.67	1,825	3.21
Kilombero	722	1.23	1,445	2.47	2,312	3.95	2,456	4.20
Ulanga	965	2.72	614	1.73	1,579	4.44	1,141	3.21
Morogoro Urban	212	3.20	124	1.87	478	7.20	301	4.53
Mvomero	1,814	3.22	1,675	2.97	4,187	7.43	1,814	3.22
Total	7,056	2.37	7,408	2.48	19,220	6.44	10,453	3.50

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

District	Constraint							
	Access to Improved Seed		Irrigation Facilities		Access to Chemical Inputs		Cost of Inputs	
	Number	%	Number	%	Number	%	Number	%
Kilosa	7,498	8.89	2,083	2.47	1,666	1.98	7,498	8.89
Morogoro Rural	2,387	4.20	842	1.48	2,106	3.70	3,089	5.43
Kilombero	3,179	5.43	2,312	3.95	2,167	3.70	4,912	8.40
Ulanga	2,457	6.91	526	1.48	877	2.47	2,194	6.17
Morogoro Urban	283	4.27	124	1.87	230	3.47	478	7.20
Mvomero	3,908	6.93	1,396	2.48	3,489	6.19	3,070	5.45
Total	19,711	6.61	7,283	2.44	10,536	3.53	21,241	7.12

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

District	Constraint							
	Extension Services		Access to Forest Resources		Hunting and Gathering		Access to Potable Water	
	Number	%	Number	%	Number	%	Number	%
Kilosa	4,582	5.43	0	0.00	0	0.00	1,041	1.23
Morogoro Rural	4,493	7.90	421	0.74	0	0.00	702	1.23
Kilombero	3,323	5.68	0	0.00	0	0.00	1,734	2.96
Ulanga	2,281	6.42	88	0.25	263	0.74	526	1.48
Morogoro Urban	478	7.20	0	0.00	18	0.27	478	7.20
Mvomero	2,652	4.70	0	0.00	0	0.00	1,256	2.23
Total	17,809	5.97	509	0.17	281	0.09	5,737	1.92

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

District	Constraint							
	Access to Credit		Access to Off Farm Income		Threshing		Harvesting	
	Number	%	Number	%	Number	%	Number	%
Kilosa	7,706	9.14	3,332	3.95	625	0.74	0	0.00
Morogoro Rural	5,335	9.38	1,544	2.72	140	0.25	0	0.00
Kilombero	4,334	7.41	3,034	5.19	289	0.49	0	0.00
Ulanga	4,475	12.59	2,457	6.91	439	1.23	0	0.00
Morogoro Urban	779	11.73	372	5.60	35	0.53	0	0.00
Mvomero	4,884	8.66	2,791	4.95	140	0.25	140	0.25
Total	27,514	9.22	13,530	4.54	1,668	0.56	140	0.05

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

District	Constraint							
	Crop Storage		Crop Processing		Marketing Information		Higher Transport Costs	
	Number	%	Number	%	Number	%	Number	%
Kilosa	1,874	2.22	833	0.99	1,874	2.22	2,708	3.21
Morogoro Rural	1,264	2.22	140	0.25	2,387	4.20	2,808	4.94
Kilombero	867	1.48	144	0.25	3,034	5.19	6,357	10.86
Ulanga	351	0.99	263	0.74	1,404	3.95	1,316	3.70
Morogoro Urban	106	1.60	0	0.00	195	2.93	124	1.87
Mvomero	698	1.24	0	0.00	3,210	5.69	2,652	4.70
Total	5,160	1.73	1,381	0.46	12,104	4.06	15,964	5.35

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

District	Constraint							
	Destruction by Animals		Stealing		Pest and Disease		Local Government Taxation	
	Number	%	Number	%	Number	%	Number	%
Kilosa	3,332	3.95	4,374	5.19	5,207	6.17	417	0.49
Morogoro Rural	6,318	11.11	2,527	4.44	4,352	7.65	140	0.25
Kilombero	2,745	4.69	2,023	3.46	7,080	12.10	722	1.23
Ulanga	2,808	7.90	790	2.22	3,334	9.38	88	0.25
Morogoro Urban	584	8.80	283	4.27	336	5.07	0	0.00
Mvomero	1,116	1.98	977	1.73	6,420	11.39	0	0.00
Total	16,904	5.67	10,974	3.68	26,729	8.96	1,367	0.46

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

District	Constraint					
	Extended dry spell		Crop Farmers/Livestock keepers Conflicts		Total	
	Number	%	Number	%	Number	%
Kilosa	11,247	13.33	1,458	1.73	84,352	100.00
Morogoro Rural	5,476	9.63	3,089	5.43	56,863	100.00
Kilombero	2,745	4.69	578	0.99	58,515	100.00
Ulanga	2,369	6.67	1,930	5.43	35,535	100.00
Morogoro Urban	584	8.80	35	0.53	6,638	100.00
Mvomero	4,187	7.43	3,908	6.93	56,380	100.00
Total	26,607	8.92	10,998	3.69	298,282	100.00

HOUSEHOLDS FACILITIES

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

District	Roofing Materials								
	Number of rooms	Iron Sheets	Tiles	Concrete	Asbestos	Grass/Leaves	Grass & Mud	Other	Total
Kilosa	2	45,196	833	0	833	33,116	4,374	0	84,352
Morogoro Rural	3	30,186	140	0	702	21,903	3,791	140	56,863
Kilombero	3	32,364	3,034	144	144	22,250	433	144	58,515
Ulanga	3	12,986	263	0	263	20,970	1,053	0	35,535
Morogoro Urban	2	4,761	35	0	142	1,593	106	0	6,638
Mvomero	3	30,702	2,372	0	419	21,631	1,256	140	56,520
Total	3	156,195	6,679	144	2,503	121,463	11,013	424	298,421
%		52.3	2.2	0.0	0.8	40.7	3.7	0.1	100.0

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

District	Floor Materials							
	Number of rooms	Earth,Sand, Dung	Wood Planks, Bamboo, Palm	Parquet Or Polished Wood	Ceramic Tiles, Terrazzo	Cement	Other	Total
Kilosa	2	71,230	1,458	208	208	11,247	0	84,352
Morogoro Rural	3	49,702	1,264	140	0	5,756	0	56,863
Kilombero	3	44,933	1,734	0	289	11,558	0	58,515
Ulanga	3	30,446	614	88	88	4,299	0	35,535
Morogoro Urban	2	5,257	106	18	53	1,204	0	6,638
Mvomero	3	42,704	2,931	0	140	10,606	140	56,520
Total	3	244,273	8,106	454	778	44,671	140	298,421
%		81.9	2.7	0.2	0.3	15.0	0.0	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
Kilosa	9,789	46,862	4,166	21,452	625	625	0	833	84,352
Morogoro Rural	7,582	22,043	8,284	17,269	421	842	0	421	56,863
Kilombero	5,490	12,570	2,312	37,565	144	433	0	0	58,515
Ulanga	2,018	11,757	1,579	19,829	0	263	0	88	35,535
Morogoro Urban	743	1,664	1,628	2,407	35	142	0	18	6,638
Mvomero	4,466	15,770	14,235	20,933	837	140	0	140	56,520
Total	30,088	110,666	32,203	119,457	2,063	2,445	0	1,499	298,421
%	10.1	37.1	10.8	40.0	0.7	0.8	0.0	0.5	100.0

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

District	Radio			Landline phone			Mobile phone		
	Yes	No	Total	Yes	No	Total	Yes	No	Total
Kilosa	63,107	21,244	84,352	833	83,518	84,352	29,367	54,985	84,352
Morogoro Rural	46,333	10,530	56,863	1,544	55,318	56,863	17,691	39,172	56,863
Kilombero	45,656	12,859	58,515	867	57,648	58,515	23,839	34,675	58,515
Ulanga	23,778	11,757	35,535	175	35,359	35,535	10,266	25,269	35,535
Morogoro Urban	5,080	1,558	6,638	71	6,567	6,638	2,425	4,213	6,638
Mvomero	43,820	12,699	56,520	1,116	55,403	56,520	14,514	42,006	56,520
Total	227,774	70,647	298,421	4,607	293,814	298,421	98,101	200,320	298,421
%	76	24	100	2	98	100	33	67	100

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

District	Wheelbarrow			Iron			Bicycle		
	Yes	No	Total	Yes	No	Total	Yes	No	Total
Kilosa	3,332	81,019	84,352	20,619	63,732	84,352	51,027	33,324	84,352
Morogoro Rural	2,668	54,195	56,863	9,969	46,894	56,863	17,410	39,453	56,863
Kilombero	2,745	55,770	58,515	13,581	44,933	58,515	42,911	15,604	58,515
Ulanga	702	34,833	35,535	8,160	27,375	35,535	19,478	16,056	35,535
Morogoro Urban	319	6,319	6,638	1,257	5,381	6,638	2,248	4,390	6,638
Mvomero	2,233	54,287	56,520	16,188	40,331	56,520	27,911	28,609	56,520
Total	11,999	286,423	298,421	69,774	228,647	298,421	160,985	137,436	298,421
%	4	96	100	23	77	100	54	46	100

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

District	Vehicle			Television / Video			Refrigerator			Motor Cycle		
	Yes	No	Total	Yes	No	Total	Yes	No	Total	Yes	No	Total
Kilosa	6,665	77,687	84,352	1,666	82,685	84,352	1,041	83,310	84,352	1,666	82,685	84,352
Morogoro Rural	2,948	53,914	56,863	2,668	54,195	56,863	2,668	54,195	56,863	3,370	53,493	56,863
Kilombero	1,589	56,925	58,515	3,034	55,481	58,515	2,023	56,492	58,515	1,734	56,781	58,515
Ulanga	877	34,657	35,535	526	35,008	35,535	351	35,184	35,535	614	34,921	35,535
Morogoro Urban	177	6,461	6,638	230	6,408	6,638	124	6,514	6,638	212	6,425	6,638
Mvomero	2,233	54,287	56,520	1,535	54,985	56,520	977	55,543	56,520	2,652	53,868	56,520
Total	14,490	283,931	298,421	9,660	288,762	298,421	7,183	291,238	298,421	10,248	288,173	298,421
%	5	95	100	3	97	100	2	98	100	3	97	100

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

District	Electricity	Solar	Gas (Biogas)	Hurricane Lamp	Pressure Lamp	Wick Lamp	Candles	Firewood	Other	Total
Kilosa	1,666	417	0	20,619	2,291	57,901	0	1,250	208	84,352
Morogoro Rural	702	281	0	6,880	1,264	47,316	0	421	0	56,863
Kilombero	1,878	867	144	17,049	1,011	37,132	289	144	0	58,515
Ulanga	351	175	0	13,775	1,755	18,776	88	526	88	35,535
Morogoro Urban	106	35	0	2,708	319	3,292	18	159	0	6,638
Mvomero	419	558	0	15,770	2,512	29,167	279	7,117	698	56,520
Total	5,122	2,333	144	76,801	9,151	193,583	674	9,618	994	298,421
%	2	0.8	0.0	25.7	3.1	64.9	0.2	3.2	0.3	100.0

**10.6: Number of Agricultural Households Reporting Main Source of Energy for Cooking by District, 2007/08
Agricultural Year**

District	Electricity	Solar	Gas(Hh Biogas)	Bottled Gas(Industrial)	Paraffin / Kerosine	Charcoal	Firewood	Crop Residues	Livestock Dung	Total
Kilosa	208	0	0	0	208	8,123	72,896	2,916	0	84,352
Morogoro Rural	0	0	0	562	140	1,966	53,914	281	0	56,863
Kilombero	144	289	0	289	289	6,213	51,291	0	0	58,515
Ulanga	0	88	0	0	0	2,457	32,903	88	0	35,535
Morogoro Urban	35	18	18	18	18	655	5,823	35	18	6,638
Mvomero	0	140	0	419	279	4,466	51,077	140	0	56,520
Total	388	534	18	1,287	934	23,878	267,905	3,459	18	298,421
%	0.1	0.2	0.0	0.4	0.3	8.0	89.8	1.2	0.0	100.0

**10.7: Number of Agricultural Households Reporting Main Source of Drinking Water during Wet Season by District, 2007/08
Agricultural Year**

District	Piped Water	Protected Well	Protected / Covered Spring	Unprotected Well	Unprotected Spring	Surface Water (Lake / Dam / River / Stream)	Covered Rainwater Catchment	Uncovered Rainwater Catchment	Water Vendor	Tanked Truck	Bottled water	Other	Total
Kilosa	18,328	22,494	1,041	8,123	7,706	24,993	0	833	208	0	0	625	84,352
Morogoro Rural	12,355	7,722	983	9,126	4,352	17,550	1,264	2,246	0	0	0	1,264	56,863
Kilombero	18,638	14,015	578	16,904	867	3,468	433	3,468	0	144	0	0	58,515
Ulanga	13,337	10,441	702	3,861	2,018	2,983	1,141	702	0	263	0	88	35,535
Morogoro Urban	1,292	584	18	443	655	3,098	53	478	0	0	0	18	6,638
Mvomero	8,373	13,537	279	8,513	6,699	16,467	419	977	837	0	140	279	56,520
Total	72,324	68,793	3,601	46,969	22,297	68,559	3,309	8,704	1,046	408	140	2,273	298,421
%	24.2	23.1	1.2	15.7	7.5	23.0	1.1	2.9	0.4	0.1	0.0	0.8	100.0

10.8: Number of Agricultural Households Reporting Distance to Main Source of Drinking Water during Wet Season by District, 2007/08 Agricultural Year

District	Less than 100m	100-299 m	300-499 m	500-999 m	1-1.99 Km	2-2.99 Km	3-4.99 Km	5-9.99 Km	10Km and above	Total
Kilosa	15,621	9,372	6,248	15,621	28,117	6,248	3,124	0	0	84,352
Morogoro Rural	23,166	10,530	0	6,318	10,530	4,212	2,106	0	0	56,863
Kilombero	34,675	10,836	2,167	6,502	4,334	0	0	0	0	58,515
Ulanga	19,742	3,948	2,632	7,897	1,316	0	0	0	0	35,535
Morogoro Urban	1,328	2,124	0	1,328	1,328	266	0	0	266	6,638
Mvomero	20,933	4,187	4,187	20,933	4,187	0	0	2,093	0	56,520
Total	115,465	40,998	15,234	58,598	49,812	10,726	5,230	2,093	266	298,421
%	38.7	13.7	5.1	19.6	16.7	3.6	1.8	0.7	0.1	100.0

10.9: Number of Agricultural Households Reporting Time Spent to and from Main Source of Drinking Water during Wet Season by District, 2007/08 Agricultural Year

District	Less than 10 Minutes	10-19 Minutes	20-29 Minutes	30-39 Minutes	40-49 Minutes	50-59 Minutes	One Hour and Above	Total
Kilosa	6,248	6,248	12,497	21,869	0	6,248	31,241	84,352
Morogoro Rural	29,484	8,424	2,106	6,318	2,106	2,106	6,318	56,863
Kilombero	36,843	8,669	6,502	6,502	0	0	0	58,515
Ulanga	17,109	1,316	7,897	3,948	0	1,316	3,948	35,535
Morogoro Urban	2,921	1,062	797	1,062	0	0	797	6,638
Mvomero	31,400	10,467	2,093	8,373	0	0	4,187	56,520
Total	124,005	36,186	31,891	48,072	2,106	9,670	46,491	298,421
%	41.6	12.1	10.7	16.1	0.7	3.2	15.6	100.0

10.10: Number of Agricultural Households Reporting Main Source of Drinking Water during Dry Season by District, 2007/08 Agricultural Year

District	Piped Water	Protected Well	Protected / Covered Spring	Uprotected Well	Unprotected Spring	Surface Water (Lake / Dam / River / Stream)	Covered Rainwater Catchment	Uncovered Rainwater Catchment	Water Vendor	Tanker truck	Bottled water	Total HH
Kilosa	19,161	22,702	1,250	7,914	7,290	24,785	0	208	625	0	417	84,352
Morogoro Rural	12,777	7,863	983	9,126	4,352	18,252	1,264	2,246	0	0	0	56,863
Kilombero	19,071	13,726	867	17,482	1,011	3,468	144	2,601	0	144	0	58,515
Ulanga	13,512	10,617	790	4,036	2,018	3,071	1,053	351	0	88	0	35,535
Morogoro Urban	1,363	620	0	566	761	3,168	35	35	71	0	18	6,638
Mvomero	8,513	13,397	419	7,815	5,722	17,723	140	837	1,675	140	140	56,520
Total	74,397	68,925	4,309	46,939	21,154	70,467	2,636	6,278	2,371	372	575	298,423
%	24.9	23.1	1.4	15.7	7.1	23.6	0.9	2.1	0.8	0.1	0.2	100

10.11: Number of Agricultural Households Reporting Distance to Main Source of Drinking Water during Dry Season by District, 2007/08 Agricultural Year

District	Less than 100m	100-299 m	300-499 m	500-999 m	1-1.99 Km	2-2.99 Km	3-4.99 Km	5-9.99 Km	10Km and above	Total
Kilosa	15,621	12,497	6,248	9,372	28,117	6,248	3,124	3,124	0	84,352
Morogoro Rural	21,060	12,636	0	6,318	10,530	4,212	2,106	0	0	56,863
Kilombero	36,843	13,003	0	4,334	4,334	0	0	0	0	58,515
Ulanga	17,109	5,264	2,632	9,213	1,316	0	0	0	0	35,535
Morogoro Urban	1,328	1,593	266	797	1,859	266	0	0	531	6,638
Mvomero	20,933	4,187	4,187	18,840	6,280	0	0	2,093	0	56,520
Total	112,894	49,180	13,333	48,874	52,436	10,726	5,230	5,217	531	298,421
%	37.8	16.5	4.5	16.4	17.6	3.6	1.8	1.7	0.2	100.0

10.12: Number of Agricultural Households Reporting Time Spent to and from Main Source of Drinking Water during Dry Season by District, 2007/08 Agricultural Year

District	Less than 10 Minutes	10 - 19 Minutes	20 - 29 Minutes	30 - 39 Minutes	40 - 49 Minutes	50 - 59 Minutes	above one Hour	Total
Kilosa	6,248	6,248	12,497	18,745	0	6,248	34,365	84,352
Morogoro Rural	27,378	10,530	2,106	4,212	0	0	12,636	56,863
Kilombero	28,174	10,836	6,502	10,836	0	0	2,167	58,515
Ulanga	15,793	0	3,948	7,897	0	1,316	6,581	35,535
Morogoro Urban	1,859	1,593	266	1,062	0	0	1,859	6,638
Mvomero	29,306	6,280	2,093	10,467	0	0	8,373	56,520
Total	108,759	35,487	27,411	53,218	0	7,564	65,981	298,421
%	36.4	11.9	9.2	17.8	0.0	2.5	22.1	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 -	Other Type	Total
Kilosa	2,291	1,666	76,437	3,957	0	84,351
Morogoro Rural	983	842	53,212	1,825	0	56,862
Kilombero	1,445	2,023	49,701	5,346	0	58,515
Ulanga	1,755	702	30,621	2,457	0	35,535
Morogoro Urban	212	89	6,054	283	0	6,638
Mvomero	977	977	48,286	6,280	0	56,520
Total	7,663	6,299	264,311	20,148	0	298,421
%	2.6	2.1	88.6	6.8	0.0	100.0

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
Kilosa	833	44,154	39,364	84,352
Morogoro Rural	1,404	28,080	27,378	56,863
Kilombero	578	19,216	38,721	58,515
Ulanga	175	13,863	21,496	35,535
Morogoro Urban	53	3,044	3,540	6,638
Mvomero	1,396	17,723	37,401	56,520
Total	4,439	126,082	167,900	298,421
%	1.5	42.2	56.3	100.0

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
Kilosa	18,745	31,241	24,785	6,248	2,708	0	417	208	84,352
Morogoro Rural	16,006	20,639	15,163	3,510	983	281	0	281	56,863
Kilombero	32,075	13,148	9,391	2,456	1,011	289	0	144	58,515
Ulanga	19,215	10,880	4,124	790	263	88	88	88	35,535
Morogoro Urban	2,266	2,637	1,097	425	142	53	18	0	6,638
Mvomero	14,653	17,723	15,211	6,140	1,954	279	0	558	56,520
Total	102,959	96,269	69,772	19,569	7,060	990	522	1,280	298,421
%	34.5	32.3	23.4	6.6	2.4	0.3	0.2	0.4	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
Kilosa	8,748	24,368	25,410	15,412	5,415	3,124	208	1,666	84,352
Morogoro Rural	10,811	19,375	14,883	5,195	5,335	983	281	0	56,863
Kilombero	9,102	12,136	13,148	12,714	5,201	2,890	1,734	1,589	58,515
Ulanga	7,370	9,125	8,511	5,966	2,194	1,141	263	965	35,535
Morogoro Urban	743	3,363	1,434	637	230	124	18	89	6,638
Mvomero	12,839	10,606	16,188	10,048	3,349	2,512	558	419	56,520
Total	49,613	78,974	79,573	49,973	21,725	10,773	3,062	4,728	298,421
%	16.6	26.5	26.7	16.7	7.3	3.6	1.0	1.6	100.0





10.17: Number of Agricultural Households Reporting the status of food Unsatisfaction of the Household during the Preceding Year by District, 2007/08 Agricultural Year

District	Never	Seldom	Sometimes	Often	Always	Total
Kilosa	35,407	26,659	10,622	7,706	3,957	84,352
Morogoro Rural	17,550	21,482	8,143	8,565	1,123	56,863
Kilombero	23,550	21,961	6,068	4,768	2,167	58,515
Ulanga	12,986	13,951	4,475	2,720	1,404	35,535
Morogoro Urban	2,744	2,213	832	602	248	6,638
Mvomero	22,468	19,119	6,838	5,024	3,070	56,520
Total	114,705	105,384	36,978	29,384	11,970	298,421
%	38.4	35.3	12.4	9.8	4.0	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
Kilosa	62,483	833	2,291	2,708	1,666	4,790	2,499	5,415	625	208	208	625	84,352
Morogoro Rural	39,172	1,544	2,387	6,037	421	3,229	281	2,808	421	0	0	562	56,863
Kilombero	45,222	722	144	1,589	433	2,890	2,167	4,912	289	144	0	0	58,515
Ulanga	28,691	263	263	1,492	0	1,755	1,053	1,579	351	88	0	0	35,535
Morogoro Urban	4,266	142	319	336	142	690	124	478	89	53	0	0	6,638
Mvomero	49,123	1,954	279	837	279	1,396	1,256	1,396	0	0	0	0	56,520
Total	228,957	5,459	5,683	12,999	2,942	14,750	7,380	16,588	1,774	494	208	1,186	298,421
%	76.7	1.8	1.9	4.4	1.0	4.9	2.5	5.6	0.6	0.2	0.1	0.4	100

APPENDIX III: QUESTIONNAIRE

United Republic of Tanzania							
ACQI	 <div style="display: flex; justify-content: space-between; padding: 0 10px;"> <div style="border: 1px solid black; padding: 2px 10px; background-color: #cccccc;">CONFIDENTIAL</div> </div>						
  							
Small holder/Small Scale Farmer questionnaire							
Identification 							
Agricultural Sample Census 2007/2008							
<div style="display: flex; justify-content: space-between;"> <div> Enumerator Name </div> <div> Signature </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div> Date of Enumeration <div style="display: flex; align-items: center; margin-top: 5px;"> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="margin: 0 5px;">/</div> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="margin: 0 5px;">/</div> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="margin: 0 5px;">y</div> <div style="margin: 0 5px;">y</div> <div style="margin: 0 5px;">y</div> <div style="margin: 0 5px;">y</div> </div> <div style="margin-top: 5px;"> Start Time End Time </div> </div> </div> <div style="margin-top: 10px;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; padding: 5px;">Hour</th> <th style="width: 50%; padding: 5px;">Minutes</th> </tr> </thead> <tbody> <tr> <td style="border: 1px solid black; width: 50px; height: 30px;"></td> <td style="border: 1px solid black; width: 50px; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; width: 50px; height: 30px;"></td> <td style="border: 1px solid black; width: 50px; height: 30px;"></td> </tr> </tbody> </table> </div>		Hour	Minutes				
Hour	Minutes						

Definition and working page for page 1

General Definitions

Who is a Smallholder /Small Scale farmer?

Should have one or more of the following: in the 2007/08 farming season had one or more cultivated and planted farms. The farm land may either be owned, rented, borrowed. The farmer may also be raising 1 and 50 head of cattle, and/or between 5 and 100 head of sheep/Goats/Pigs, and/or between 50 and 1000

Household: A group of people who occupy the whole of part one or more housing units and makes joint provision for food and/or other household items. Usually such a group comprises a husband, wife, and their children. Other relatives may be members of the household if they happen to live and get food provisions from the same household. People who live together and eat from the same pot may be considered as members of the same household even if they stay in separate dwellings. An individual who lives and eat alone is considered as an independent household.

Household Head: A person who is acknowledged by all other members of the household either by virtue of his age or standing in the household as the head. He/she should be a permanent resident of the house and he/she is the main person responsible for decision making regarding use of household resources..

Agricultural Holding: This is an economic unit of agricultural production under single management. This unit may have been grown various crops. For the purpose of the survey, the agricultural holdings are restricted to those which meet one of the following conditions:

- Having or operated at least 25 sq meter of arable land
- Own or keep at least one head of cattle or five goats/sheep/five pigs or fifty chicken/ducks/turkeys during the agricultural year 2007/08 (from October 2007 to September 2008).

Question Specific Definitions:

Type of Agriculture holding Codes (Q2.1):

Crops only: A holding is referred to be a crop only holding if it has cultivated at least one piece of land. This also applies to all households owning or have kept livestock whose number does not qualify such households to be an agricultural holding (No cattle, less than 5 goats/sheep/pigs, less than 50 chickens/turkeys/rabbits).

Livestock only: A holding is referred to be a livestock only holding if it has exercised livestock husbandry only during the 2007/08 agricultural year.

NOTE

For agricultural holding only and pastoralist holding only; the number of livestock should be at least one head of cattle, not less than five goats/sheep/pigs, not less than 50 chickens / turkeys / rabbits. This also applies to households having or operated less than 25 sq meter of cultivated land (which does not qualify the household to be considered as agricultural holding) but has the number of livestock that makes the holding qualifies to be considered as livestock holding.

Pastoralist holding: This refers to a household which practices livestock production as its major income generating activity and a means of subsistence, but moves from one place to another searching for water and pasture for the livestock. This movement usually involves long distances and in many cases the whole household unit moves with the livestock and they have no permanent place of residence.

Both crops and livestock: A holding is referred to be a both crops and livestock if it has cultivated a piece of land equal or exceeding 25 sq meter and if such households have own or kept livestock whose number qualify such household be considered as an agricultural holding.

Procedures for questions:

Q 2.1 Type of agriculture household/holding

Using the options under the question classify the type of agriculture household/holding

Note: If the household had an acre of crops and raised 40 chickens during 2007/08, it is classified as 'Crops only' as the number of chickens does not qualify the household as a livestock holding.

1.0 IDENTIFICATION DETAILS		
1.1 Location		Identification <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Na.	Location Name	Codes
1.1.1	Region	<input type="text"/> <input type="text"/>
1.1.2	District	<input type="text"/> <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 Deatails 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"/>
Relationship to household head codes (Q 1.2.5) Head of Household1 Son /Daughter.....3 Grandson/Granddaughter.....5 No relationship.....7 Spouse.....2 Father/Mother.....4 Other relatives.....6		
2.0 ACTIVITIES OF THE HOUSEHOLD		
2.1	Typeof Agriculture Household	<input type="text"/> <input type="text"/>
Household agricultural activities codes(Q 2.1) Crops only.....1 Livestock only2 Pastoralist.....3 Crops and Livestock4		

Definition and working page for page 2
Question Specific Definitions:
Relation to head (Col 2):

Household Head: A person who is acknowledged by all other members of the household either by virtue of their age or standing as the household head.

Read and Write (Col 8)
Any other language: Must be a written language.

For someone who can read and write in Kiswahili and any other language apart from English, the correct code is 1. For one who can read and write in English and any other language apart from Kiswahili the the correct code is 2. Code 4 should only be used for any other language which is not English or Kiswahili.

Education Level Reached (Col 10):

Ask the respondent the highest educational level reached. This aims at establishing whether at the time of enumeration the member of the household is studying has completed or has never studied. Make further enquiry for the level of education reached for those who have completed studies. Establish if the member had attained any training after graduation for the purposes for completing column number 9. For those who still continue attending studies during the period of this survey, establish their learning stage. For instance for a household member who studied up to Standard Three but did not complete his/her education at this level, then his/her highest education level reached is Standard Two. For those indicated under code 3 (not studied) in column 8 should be marked code 99 (Not applicable) in column 9.

Section 3.0 Note

Make sure that you define the hh proper to ensure that all the members of the hh are included. Ensure that you stress that the hh is not just the hh heads direct family and that it includes other people living and eating together with the family.

If you notice that the hh is large or you see many people around the hh and you have been given a smaller number of the hh members, make further enquiries until you are sure that you have captured all the hh members.

Section 3.0 Household information.

- ii) For each household member complete columns 1, 2, 3 and 3
After completing columns 1, 2, 3 and 3 for each household member, go back to the first household member and complete the remaining columns for that member.
- iii) Repeat step 2 for the rest of the household members.

3.0 HOUSEHOLD INFORMATION													
Identification <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>													
3.1 Give details of personal particulars of all hh members beginning with hh head													
Na.	Names of hh members (Start with hh Head)	Ex Start with hh Head	Sex M = 1 F = 2	Age (98 years or more enter 97, under one year old write 00)	Marital Status	Parental Survival		Reard and Write	Education status	Level of education attained	On farm engagem ents	Main activity	Off farm income yes=1 no=2
						Mother	Father						
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
01	1											
02												
03												
04												
05												
06												
07												
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33												

Relationship to household head (Col 2)

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

Marital Status(Col 4)

Married.....	1
Single.....	2
Co-habiting	3
Divorced	
Separated.....	4
Widow/widower.....	5

Survival of Parents(Col 6 & 7)

Yes.....	1	No	2
Don't know			3

Education Level(Col 9)

Studying	1
Has completed	2
Never been to school	3

Reading and writing (Col 8)

Kiswahili.....	1
English	2
Kiswahili and English.....	3
Lugha nyingine.....	4
Cannot read or write.....	5

Education Level (Col 10)
Primary education

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

Secondary Education

Form One.....	11
Form Two	12
Form Three.....	13
Form Four	14
Form Five	15
Form Six	16
Training after Secondary Ed.....	17
University and other Tertiary Ed...	18
Adult	
Not applicable	99

Involvement in farming activities (Col 11)

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

Off-farm Income (Col 13)

These are income made from activities NOT on the HH's farming activities. This can be from formal employment (e.g. in government etc.), temporary jobs, casual labourers and income generation activity and includes working for cash on other people's farms. Indicate whether each member was involved in an off farm income generating activity during 2007/08

Main activity (Col 12)

Crop farming:	01.
Livestock farming/herding:	02.
Pastoralist	03
Fishing	04
Fish farming	05
Paid employment /	
Government/parastatal.....	06
Private/NGOs	07
Self employee (Off-farm activities)	
- With employees	08
- Without employees	09
Non paid household member (off-farm activities)	10.
Unemployed but available for work	11
Unemployed but unavailable for work.....	12
House mother	13
Student	14
Unable to work too old, too young, retired, disabled, child	15
Others (specify)	98

Definitions and working page for page 3

Definitions for Key Specific Questions

Section 4.1 – Land Access/Ownership

These are areas that were used by the households for the 2007/08 farming season

Lease/Certificate of Ownership: Area under lease/certificate of ownership refers to the areas which were issued by the government. The household possesses government issued leasehold title or certificate of ownership. The land will normally be officially surveyed and boundaries marked. This includes leased land bought from others where the lease/certificate of ownership has been transferred.

Customary Law: This refers to the land which the household does not have an official government but its right of use is granted by the traditional leaders.

Bought: This refers to the areas of customary land that has been bought from others. This land does not have an official title and therefore is not leasehold.

Rented from others: Land rented from others for cash or for a fixed amount in crop produce (e.g. fixed number of bags at harvest).

Borrowed: use granted by land owner free of charge. Land owner can either be a lease holder or has right of access through customary law.

Share cropping: where the household is permitted to use land which is then paid for from a percentage of the harvested crop

Section 4.2 Land Use

Temporary crops: are sown and harvested during the same agricultural year

Permanent crops: are crops once sown or planted last for some years and need not to be replanted after each annual harvest.

Permanent crops /mixed crops: This is a mixture of permanent and seasonal crops. The two crops can either be randomly planted together or in a particular pattern e; for example intercropping (1 row of maize and 1 row of beans). A field that has been divided into plots for different crops is not mixed).

This is further subdivided into:

Mixture of Permanent crops – two or more permanent crops grown together

Mixture of Permanent and Temporary crops – permanent crop and annual crop together

Mixture of Temporary crops– two or more temporary, annual crops grown together

Pasture land: this is an area of owned/allocated land which is set aside for livestock grazing. It can be improved pasture where the farmer has planted grass, applied fertilized or where other means have been applied to improve the pasture. Or it can be natural pasture.

Natural Bush: Land which has naturally grown shrubs and trees and is considered productive but is not utilized for farming or livestock production.

Overview to section 4

Overview to section 4

Section 4.0: Preliminary note

Land Access/Ownership

Land access /ownership refers to the area utilized by the members of the household. This does not include communal land where the resources are shared between household members. It does not include official communal land that the household has sole access to for example a plot for crop farming in the communal area.

Procedures for questions

Section 4.0 – Land Ownership

1. Ask the respondent if he knows the total areas of land the household has sole access to. If he knows make a note in the calculation space
2. Ask the respondent the area of the different land ownership categories the household has sole access to (Q4.1, 1 to 4.1.7) and record in the appropriate spaces.
3. Add up the area of the different categories of land and compare it with the total area obtained in step 1 (if the respondent provided the information)
4. If the total area is different find out which one is correct and make

Section 4.2: Land Use

1. Ask the respondent the area of the different land use categories the household has sole access to (Q4.2.1 to 4.2.12) and record in the appropriate spaces.
2. Add up the area of the different categories of land and compare it with the total area obtained in section 4.0. The total area should be the same.
3. If the total area is different find out which one is correct and make amendments where appropriate.

4.0 LAND ACCESS/OWNERSHIP/TENURE				Identification			
4.1 LAND ACCESS/OWNERSHIP/TENURE							
Give details on Area owned by the household during 2007/08 agricultural season.							
Give area as reported by the respondent in acres				Area in Acre			
						4.1.8 Was the whole household area used during the 2007/08 agricultural season? (Yes=1, No=2) <input type="checkbox"/>	
4.1.1	Area under certificate of ownership						
4.1.2	Area owned under customary law						
4.1.3	Area bought					4.1.9 Do you consider to have enough land for your household? (Yes=1, No=2) <input type="checkbox"/>	
4.1.4	Area rented from others						
4.1.5	Area borrowed from others						
4.1.6	Area share cropped from others					4.1.10 Is there any female who owns land or has customary rights to land ownership in this household? (Yes=1, No=2) <input type="checkbox"/>	
4.1.7	Area under other forms of tenure						
Total area							
4.2 LAND USE							
Area used by the household for various agricultural activities during 2007/08 agricultural season							
Enter area as reported by the respondent in acres				Area in acre		Working space for calculations	
4.2.1	Area planted temporary monocrops						
4.2.2	Area planted temporary mixed crops (e.g. maize and beans)						
4.2.3	Area planted permanent monocrops						
4.2.4	Area planted permanent mixed crops (e.g. banana, coffee, trees)						
4.2.5	Area planted permanent and temporary mixed crops (e.g. maize and banana)						
4.2.6	Area under pasture						
4.2.7	Area under fallow						
4.2.8	Area under natural forest						
4.2.9	Area planted trees						
4.2.10	Area rented to others						
4.2.11	Area unsuitable for agriculture						
4.2.12	Uncultivated arable land (minus area under fallow)						
Total area							

Definitions and working page for page 4

Working table for the calculation area for annual mixed crops					
Mixed crops 1	Crop Name	Total area of mixed (acre)	Area for plants (acre)	Total number of plants	Total area of plants (acre)
(a)	(b)	(c)	(d)	(e)	(f)=(d)*(e)
Permanent crop 1		0.000			
Permanent crop 2		0.000			
Permanent crop 3		0.000			
Permanent crop 4		0.000			
Total Area for mixed crops			Total area for permanent crops		
The remaining area for temp crops					
			% of temporary	Area for permanent crop	
Name of the crop temp/permanent 1					
Name of the crop temp/permanent 2					
Name of the crop temp/permanent 3					
Check total area			Check total area for temporary crops		

Mixed crops	Name of plant	Total area mix (acre)	Area for the plant (acre)	Total of plants	Total area for plants (acre)
(a)	(b)	(c)	(d)	(e)	(f)=(d)*(e)
Permanent crop 1		0.000			
Permanent crop 2		0.000			
Permanent crop 3		0.000			
Permanent crop 4		0.000			
Total area for mixed crops			Total area for permanent crops		
The remaining area for temp crops					
			% of temporary	Area for temporary crop	
Name of the crop temp/permanent 1					
Name of the crop temp/permanent 2					
Name of the crop temp/permanent 3					
Check total area			Check total area for temporary crops		

Planted Area: Area in acre the household was able to plant

Harvested Area: Area in acre the household was able to harvest a large portion of harvests. This is the same as the area planted minus the area that was destroyed by floods/pets/

Temporary/Annual Crops
Crops planted and harvested within 12 months after which time the plants die. Most annual crops are planted and harvested on a seasonal base.

Cash crop codes:

Code	Crop
50	Cotton
51	Tobacco
53	Payrethrum
62	Jute
19	Seaweed

Crop Codes (Cereal / Tubers/ Roots):

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

Vegetable Codes:

Code	Crop
86	Cabbage
87	Tomatoes
88	Spinach
89	Carrot
90	Chillies
91	Amaranth
92	Pumpkin
93	Cucumber
94	Egg plant
95	Water melon
96	Cauliflower
06	Mellion
05	nyanyachungu
02	Oca
03	Radish
01	Green Beans
04	Bizari

Crop Codes Legumes and Oil

Code	Crop
31	Beans
32	Cowpeas
33	Green Gram
34	Chick Peas
35	Dengu
36	Bambara nuts
37	Njegere
41	Sun flower
42	Simsim
43	Ground uts
47	Soya beans
48	Caster Seed

Instructions for calculating the area of mixed crops in a mixture

- 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.
 - If the mixed crop is mixed permanent and annual try to work tyhe percent age taken by the different crops and calculate the area of annual crops outlined in step 1. Otherwise use the number of trees method to calculate the area of annula crops in the mix.
- C:** Number of trees method to calculate annual crop areas in a permanent-annual crop mix:
- List each of the permanent crop in column b and enter the ground area per acre for each permanent crop (from instrctiuns for page 8) in colum d.
 - Enter the number of permanent trees in the mix in column e as will be provided to you by the respondent
 - 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.
 - To obatin the area for tempofrary crops , subtract (-) the area fro permanent crops from thne total area of crop mix and enter the result in in the total area under temporary crops.
 - Proceed to step 1 to calculate the area under each temporary crop.
- Enter the name of each temporary crop in tyhe crop mix and estimate percentages of each crop.
 - Using the percentage for each crop, calculate the are for each crop from the remaining area under temporary crop.**
 - After completing the excrise for all the fields, sum the area of each crop in tyhe mix plus any monocrops and uenter the totals in section 5.1.1 Collumn 3.
 - Once the quantity harvested is obtained , cakiculate the yields (metric tonnes/acre) and compare the figures with the norms given in the crops code box.** If there is significantly difference, check the area and the amount harvested..

5.0	PERMANENT AND TEMPORARY CROP PRODUCTION										Identification		<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>					
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 agaist 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 neo lilililot umik a	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)
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Total area planted		<div><div></div><div></div></div>	<div><div></div><div></div></div>															
<div><div>Type of seeds planted (Col 5) Local seeds ...1 Improved seeds.....2</div><div>Type of agricultural seeds (Col 6) For the whole crop.....1 3/4 of the whole crop.....2 1/2 of tyhe whole crop.....3 1/4 old the whole crop.....4 Under 1/4 of the whole crop...5</div><div>Qunatity (Col 7) Kg1 Seedlings....2 Gram.....3</div><div>Type 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 old the whole crop.....4 Under 1/4 of the whole crop...5 Not used6</div><div>Type of fertilisers (Col 12) Organic fertiliser.....1 inorganic fertilisers.....2</div><div>Quantity (Col 17) Kig1 Litre.....2 Gram.....3 Millilitre.....6</div><div>Kipimo (Swima 13) Kilo</div></div>																		

[illegible]

Definitions and working page for page 5

Storage (Col. 30, Q 5.1.1):

- **Traditionally Made structures:** The design of storage structures villagers have inherited from forefathers .
- **Improved Traditionally made structures:** The design of traditional storages structures improved through modern technology.

Marketing Challenges Q 5.1.1 Col. 33:

- **Farmers' Association:** Village farmers who came together and started an association for the purposes of purchasing inputs/selling/storage of crops aiming at fetching better prices.
- **Cooperative Union:** A large inter-village/community set up in the district/ region or at national level for providing inputs, markets and storage of farmers' crops.
- **Government Regulatory laws for crops marketing:** Government instituted laws for regulating transportation and selling of crops.

Inputs (Q 5.1.1)

- Farm Yard Manure:** An organics fertiliser made on farm from animal dung. .
- Compost:** An organic fertiliser made on farm from decomposed plant materials.
- Insecticides:** This is the chemical used in protecting plants or killing pests.
- Fungicides:** Protects plants from fungi attack.
- Herbicide:** Chemicals used to control or kills weeds.
- Improved seeds:** Scientifically attested to be suitable for agricultural use.

Questions specific definitions

Q 5.1.1. Instructions on crops storage:

1. For the listed crops establish whether or not the household stored crops for 2007/2008 agricultural season.
2. For the listed crops give explanations on storage.

Crops storage is keeping/reserving crops in a container or a special place for future use.

Q 5.1.1 Col 31

1. For each of crops listed indicate major marketing problems for 2007/2008 agricultural season.

Working area/calculation space

Definitions and working page for page 6

Working table for the calculation area for annual mixed crops

Mixed crops 1	Crop Name	Total area of mixed (acre)	Area for plants (acre)	Total number of plants	Total area of plants (acre)
(a)	(b)	(c)	(d)	(e)	(f)=(d)*(e)
Permanent crop 1			0.000		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 permanent crop		
			% of temporary		
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 permanent crop		
			% of temporary		
Name of the crop temp/permanent 1					
Name of the crop temp/permanent 2					
Name of the crop temp/permanent 3					
Check total area			Check total area for temporary crops		

Planted Area: Area in acre the household was able to plant

Harvested Area: Area in acre the household was able to harvest a large portion of harvests. This is the same as the area planted minus the area that was destroyed by floods/ pests /

Temporary/Annual Crops
Crops planted and harvested within 12 months after which time the plants die. Most annual crops are planted and harvested on a seasonal base.

Cash crop codes:
Code Crop
50 Cotton
51 Tobacco
53 Payrethrum
62 Jute
19 Seaweed

Crop Codes/Cereal / Tubers/ Roots:
Code Crop
11 Maize
12 Paddy
13 Sorghum
14 Buirush Millet
15 Finger Millet
16 Wheat
17 Barley
22 Sweet Potatoes
23 Irish Potatoes
24 Yams
25 Cocoyams
26 Onions
27 Ginger

Vegetable Codes:
Code Crop
86 Cabbage
87 Tomatoes
88 Spinach
89 Carrot
90 Chillies
91 Amaranths
92 Pumpkin
93 Cucumber
94 Egg plant
95 Water melon
96 Cauliflower
06 Mellion
05 nyanyachungu
02 Ocra
03 Radish
04 Bizar

Crop Codes Legumes and Oil
Code Crop
31 Beans
32 Cowpeas
33 Green Gram
34 Chick Peas
35 Dengu
36 Bambara nuts
37 Njegere
41 Sun flower
42 Simsim
43 Ground uts
47 Soya beans
48 Caster Seed

Instructions for calculating the area of mixed crops in a mixture

A. If the mixed crop is mixed annual ly only enter the total area of the field in the remaining area under temporary Crop and go to step one of these instructions

B. If the mixed crop is mixed permanent and annual try to work tyhe percent age taken by the different crops and calcalet 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 column b and enter the ground area per acre for each permanent crop (from instructions for page 8) in colum d.
(ii) Enter the number of permanent trees in the mix in column e as will be provided to you by the respondent
(iii) Calculate the area occpied by each crop by multiplying column d and collumn e and sum up these to obatin the total area of permanent crops in the mix.
(iv) To obatin the area for tempofrory crops , subtract (-) the area for 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.

2. Using the percentage for each crop, calculate the are for each crop from the remaining area under temporary crop.

3. After completing the excrise for all the fields, sum the area of each crop in tyhe mix plus any monocrops and uenter the totals in section 5.1.1 Column 3.

4. Once the quantity harvested is obtained , cakculate the yields (metric tonnes/acre) and compare the figures with the norms given in the crops code box. If there is significantly differentce, check the area and the amount harvested..

5.3 PERMANENT/PERENNIAL CROPS AND FRUIT TREE PRODUCTION

Identification

Does your household have any permanent/perennial crops or fruit trees Yes =1, No = 2, (If answer is NO proceed to Section 6.0)

5.3.1 Give details on permanent/perennial crops or fruit trees

Production Section

Name of permanent/perennial crop

crop code of permanent / perennial crop/ fruit trees

Monocrops Area for trees/seedling/branch/bushes

Mixed crops Area for mixed crops (Acre)

Number of Tplants/ trees in the crop mix of permanent and perennial crop

Main crop owner: Enter the number of the hh member from page 2 on information for hh

Uses of seeds

Type of planted seeds

Cultivated area

Size

Quantity

Used

Cost (Ths)

Irrigation

Uses of Fertilisers (If 6 is the answer in col 13 proceed to col. 17)

Area used

The type of fertilizer used

Quantity of fertiliser (kg)

Cost (Ths)

(1)

(2)

(3)

(4)

(5)

(6)

(7)

(8)

(9)

(10)

(11)

(12)

(13)

(14)

(15)

(16)

Type of seed planted (Col 7)

Local seeds.....1

Improved seeds.....2

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 fertilisers. (Col 14)

Organic fertiliser...1

[illegible]

Definitions and working page for page 7

Storage (Col. 30, Q 5.2.1):

- **Traditionally Made structures:** The design of storage structures villagers have inherited from forefathers .
- **Improved Traditionally made structures:** The design of traditional storagesrutures improved through modern technology.

Marketing Challenges Q 5.2.1 Col. 33:

- **Farmers' Association:** Village farmers who came together and started an association for the puporses of purchasing inputs/selling/storage of crops aiming at fetching better prices.
- **Cooperative Union:** A large inter-village/community set up in the district/ region or at national level for providing inputs, markets and storage of farmers' crops.
- **Government Regulatory laws for crops marketing:** Government instituted laws for regulating transportation and selling of crops.

Inputs (Q 5.2.1)

- Farm Yard Manure:** An organics fertiliser made on farm from animal dung. .
- Compost:** An organic fertiliser made on farm from decomposed plant materials.
- Insecticides:** This is the chemical usde in protecting plants or killing pests.
- Fungicides:** Protects plants from fungi attack.
- Herbicide:** Chemicals used to control or kills weeds.
- Improved seeds:** Scientifically attested to be suitable for agricultural use.

Questions specific definitions

Q 5.2.1. Instructions on crops storage:

1. For the listed crops establish whether or not the household stored crops for 2007/2008 agricultural season.
2. For the listed crops give explanations on storage.

Crops storage is keeping/reserving crops in a container or a special place for future use.

Q 5.2.1 Col 33

1. For each of crops listed indicate major marketing problems for 2007/2008 agricultural season.

Working area/calculation space

Definitions and working page for page 8

Permanent Crops:

These are crops once planted last longer in the farm and need not be replanted after each annual harvest. Most of the permanent plants include trees such as coconut tree, apple trees, grape trees, banana trees, pineapple trees etc.

Number of Trees:

These include mature 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 trees 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 storages structures 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 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 5.3.1)

- Farm Yard Manure:** An organics fertiliser made on farm from animal dung. .
- Compost:** An organic fertiliser made on farm from decomposed plant materials.
- Insecticides:** This is the chemical 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 5.3.1. Instructions on crops storage:

1. For the listed crops establish whether or not the household stored crops for 2007/2008 agricultural season.
2. For the listed crops give explanations on storage.

Q 5.3.1 Col 35

1. For each of crops listed indicate major marketing problems for 2007/2008 agricultural season.

Working area/calculation space

Definitions and working page for page 10

Investment in agriculture**Investment activities:**

Investment activities refer to medium to long term farm development structures and projects. This can be irrigation structures, erosion control and water harvesting structures or other permanent or semi-permanent investment made on the land that the household owns.

Irrigated farming: Section 6.5:

Source of irrigation water (Col 1): The main source of the water used for irrigation.

Method of obtaining water (Col 2): The mechanism by which the water is extracted from the source

Irrigatable area (Col 3): The area the irrigation system is designed to cover in acreage

Area of irrigated land during the 2007/08 (Col 5): Area of land under irrigation during the 2007/08 agricultural year. This is the actual area and NOT the cumulative areas recultivated in 2 or more cropping seasons.

Farm Implements (Col. 1):

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

Sprinkler: The pump carried on the back or a hand used water pump

Hand used small tractor: A small tractor used in cultivation while the user walks on foot (see photo).

**Section 6.2 Use of draft animals**

Animals used in agricultural activities by the household during 2007/08 agricultural season.

Castrated Bulls: Castrated oxen meant for use in agricultural production.
Uncastrated Bulls: mature bulls used for garicultrual activities but are not castrated.

Cow: Farmers also use mature female cattle in agricultural activities due to shortage of bulls

Donkey: Mature Male or female donekys are also used for agricultural production.

Q 6.5 Irrigation.

1. If a household uses irrigated farming give explanations aon source and method of obatinig water. .

2. See Col 10, Q. 5.1.1 and 5.2.1 and Col 12, Q 5.3.1 to see if irrigation was applied to any crop.

Farm implements, Q 6.1:

1. Collumn 2 Indicate whether or not inputs were used

2. Complete collumn 3 by entering the number of inputs used.

Farm inputs: Sections 6.3 and 6.4

1. Collumn 2 Indicate whether or not inputs were used.

2. Compelte collumn 3 by indicating where the inouts were obatined and collumn 4 by indicating the distance from where the inputs were obatined

Compost: An organic fertiliser made on farm from decomposed plant materials.

Insecticides: This is the chemical usde in protecting plants or killing pests.

Fungicides: Protects plants from fungi attack.
Herbicide: Chemicals used to control or kills weeds.

Improved seeds: Scientifically attested to be suitable for agricultural use.

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

ACCES TO INPUTS				Source (Col.3)		KQuantity (Col.3)	
Give details on inputs used during 2007/08 agricultural year				Government.....01		Kg.....1	
				Cooperative Union.....02		Ton.....2	
				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			

Name of inputs	Used (Yes=1, No=2)	Source	Distance	Distance from the source (Col.4) Under 1 kilometre.....1 Between One and three kilometres2 Between three and 10 kilometres.....3 Between 10 and 20 Kilometres4 Over 20 Kilometres.....5 Not applicable.....9	
(1)	(2)	(3)	(4)		
Inorganic fertilisers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Farm yard manure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Compost	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Insecticides/Fungicide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Pest and weeds control chemicals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Improved seeds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

IRRIGATED FARMING				
Did the household use irrigated farming during 2007/08 agriculture year? Yes=1, No = 2 <input type="checkbox"/>				
If the answer is yes proceed to Section 6.6				
Na.	Main source of water for irrigation	Main source of obtaining water	Area that can be irrigated (Acre)	Area irrigated during 2007/08 agriculture year (Acre)
	(1)	(2)	(3)	(4)
6.5.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Source of irrigation water (Col.1)	
River.....1	Wells4
Lake2	Deep wells.....5
Dams.....3	Cannals6
Tape water.....7	

Means of obtaining water(Col.2)	
Flowing. (gravity).....1	
Using a bucket.....2	
Water pump (using hand or leg).....3	
Electric /fuel driven pump/ mafuta.....4	
Other (Specify).....8	

Definitions and working page for page 11
Q 6.6
The type of erosion control/Water harvesting (Col 1)

Terraces: Structures constructed on mountain slopes to provide flat terrain for crop planting.

Erosion control bunds: these are bunks of earth/stones built perpendicular to the slope to slow down the speed of water and thus preventing soil erosion. Its differs from terraces in that the soils on these banks are not at ground level .

Gabions: A box like structure made of wire and filled with large stones to prevent gully erosion.

Sand bags: Are used in controlling and preventing gully erosion
Tree belt/wind breaks: Trees planted against the wind direction for breaking wind speed..

Section 7.0 Acces to credit for crop or livestock production

Credit refers to something provided in cash or in kind (such as farm inputs, machines, livestock and other things) for crop or livestock production. The value of the credit must be repaid back to the lender. An Interest may or may not be attached to the value of the credit

The credit may be repaid either in cash or through farm produce to be harvested .

In this question the enumerator is at liberty to inquire up to three sources of credit where the farmer accessed credit from more than one source.

Section 8.0 Agricultural Extension Services

Agricultural Extension Services: Refers to educational services provided to farmers by extension officers for the purposes of increasing crop and livestock production.

Share-cropping: Refers to farming where smallholder / Smallscale farmer enters into an agreement with large scale farmer where the former sells produce to the latter in exchange of provisions of farm inputs and the like. .

Contract farming Farming: Farming agreement entered between smallscale and large scale farmers with regards to markets of farm produce and provision of farm inputs

Q 6.6 Number of water harvesting structures and year of construction

1. The number water harvesting structures refers to the number of working / maintained structures and does not include derelict or irreparable structures.

2. Year of construction refers to the year in which the structures were built, and not the year the structures were last repaired. The year should be written in figures e.g. 1998, 2006.

Section 7.0 Source of agriculture credit

If the farmer obtained credit from more than one source the use the code from the list provided. Start with the main source of credit in Section "7.1.1".a

Section 8.0 Agricultural extension services

1. Ask if the household did receive agricultural extension services during 2007/08 agricultural season from the respondents listed in column 1, then enter column 2.

2. Complete all columns for every extension officer.

6.6 SOIL EROSION		Identification <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
6.6.1	Did the household experience soil erosion during 2007/08 agriculture year? (Yes=1, No=2)		
6.6.2	Did the household applied any methods for erosion contro/water harvesting during 2007/08 agricultural year? (Yes=1, No=2) (If the answer is No, Proceed to Section 7.0)		
Na.	Mechanisms of controlling erosion/ Water harvesting	Number of water harvesting	Year of construction
	(1)	(2)	(3)
6.6.3	Terraces	<input type="checkbox"/>	<input type="checkbox"/>
6.6.4	Bunks for erosion control	<input type="checkbox"/>	<input type="checkbox"/>
6.6.5	Giabions/sand bags	<input type="checkbox"/>	<input type="checkbox"/>
6.6.6	Vetiva leaves	<input type="checkbox"/>	<input type="checkbox"/>
6.6.7	Tree belt	<input type="checkbox"/>	<input type="checkbox"/>
6.6.8	Soil bunks of water harvesting	<input type="checkbox"/>	<input type="checkbox"/>
6.6.9	Trenches	<input type="checkbox"/>	<input type="checkbox"/>
6.6.10	Other	<input type="checkbox"/>	<input type="checkbox"/>
7.0 ACCESS TO ON FARM CREDITS			
7.1	Is there any household member who accessed on farm credit during 2007/08 agriculture year? Yes=1, No=2 (If answer is NO, Proceed to Section 7.2)		
SELECT UP TO THREE SOURCES AND PROCEED TO QUESTION 8.0			
(Source of credit Q 7.1.1, 7.1.2, 7.1.3)		Source of credit	
Relative.....1 Saccos.....4 NGO/Development projects.....7		7.1.1a	7.1.2a
Bank.....2 Businessman/Shop.....5		<input type="checkbox"/>	<input type="checkbox"/>
Cooperative Union.....3 Private individuals.....6 Other.....9		7.1.1b	7.1.2b
		<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 not know how to access credit.....5 Credit delayed.....7 Did not credit existed.....9			
Not available.....2 High interest rates.....4 Bureaucracy.....6 Other (Specify).....8			
8.0 ADVISORY SERVICES IN AGRICULTURE			
8.1	Did the household participate in outgrowers scheme during 2007/08 agriculture year? (Yes=1, No=2)		
8.2	Did the household participate in the contract farming during 2007/08 agriculture year? (Yes=1, No=2)		
8.3 Did your household receive agricultural advise on the following : (IF THE ANSWER IS NO IN COL 2 PROCEED TO THE FOLLOWING QUESTION)			
Na.	Advise on agriculture	Received advice (Yes=1, No=2)	Source of advise
	(1)	(2)	(3)
8.3.1	Spacing	<input type="checkbox"/>	<input type="checkbox"/>
8.3.2	Use of agrochemicals	<input type="checkbox"/>	<input type="checkbox"/>
8.3.3	Soil erosion control	<input type="checkbox"/>	<input type="checkbox"/>
8.3.4	Use of organic manure	<input type="checkbox"/>	<input type="checkbox"/>
8.3.5	Matumizi ya mbolea za viwandani	<input type="checkbox"/>	<input type="checkbox"/>
8.3.6	Use of improved seeds	<input type="checkbox"/>	<input type="checkbox"/>
8.3.7	Use of modern farm implements	<input type="checkbox"/>	<input type="checkbox"/>
8.3.8	Irrigation	<input type="checkbox"/>	<input type="checkbox"/>
8.3.9	Crop Storage	<input type="checkbox"/>	<input type="checkbox"/>
8.3.10	Pest control	<input type="checkbox"/>	<input type="checkbox"/>
8.3.11	Other (Specify)	<input type="checkbox"/>	<input type="checkbox"/>
Source of agricultural advice (Cokl. 3)			
Government.....1 NGO/Development project.....2 Cooperative.....3 Large Scale farmer.....4 Radio/Newspapers.....5 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 keep livestock at home while providing the livestock with animal feeds and medication and other services. The livestock could be owned by the farmer or kept on behalf of relatives or neighbours .

Sections 9.1.1 to 9.1.7 Cattle

Note:

Q 9.1 is for the actual number of cattle owned or kept by the household (as of 1st October 2008). This number does not include herds of cattle kept on behalf by relatives or neighbours; that is, the cattle outside the residential area of the household under survey.

1. If the the household keep mature fecund female cattle, it is expected that such a household will have calves which will be entered in question 9.1.6 or 9.1.7

Type of cattle (section 9.1.1 to 9.1.7)

Bull: Mature uncastrated male cattle used for breeding

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

Ox: Castrated male cattle used for farm work

Steer: Castrated male cattle used for meat

Heifer: Female cattle of 1 year up to the first calving

Section 9.3 Goat

Note:

Question 9.3 is for the actual number of owned or raised by the household (as of 1st October 2008) This number does not include goats kept on behalf by relatives or neighbours, that is the goat outside the residential area of the household under survey.

1. If the household has she goats, you would normally expect them to have kids

Type of Goat (Qs 9.3.1 to 9.3.5)

Billy Goat (he-goat): Mature Uncastrated male goat used for breeding

Castrated goat: Male goat that has been castrated

She Goat: Mature female goat over 9 months of age

9.0	LIVESTOCK (LIVESTOCK AND FISH)					
9.1	CATTLE					
Did your household keep or raise cattle during 2007/08 agriculture year? Yes=1, No= 2 (If the answer is No proceed to Section 9.3)						
Number of cattle as of 1.10.2008						
No.	Type of cattle	Number of indigenous cattle (2)	Number of improved cattle for meat (3) Dairy (4)		Total (5)	
9.1.1	Castrated bulls					
9.1.2	uncastrated bulls					
9.1.3	Cows					
9.1.4	Steers					
9.1.5	Heifer					
9.1.6	Male calves					
9.1.7	Female calves					
Grand total						
9.1.8	What main methods do you use to identify your cattle?					
Cattle 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				
9.2.2		Indigenous				
9.2.3	Dry	Improved				
9.2.4		Indigenous				
9.3	GOAT					
Did your household keep or raise cattle during 2007/08 agriculture year? Yes=1, No= 2 (If the answer is No proceed to Section 9.3)						
Number of goats as of 1.10.2008						
Na.	Type of goat (1)	Number of indigenous goat (2)	Number of improved for meat (3) Dairy (4)		Total (5)	
9.3.1	Male uncastrated goat					
9.3.2	Male castrated goat					
9.3.3	She goat					
9.3.4	Male kid					
9.3.5	She kid					
Grand total						
Milk Production: GOAT						
Na.	Season (1)	Number of ilked goats (2)	Average of milk per goat per day (litre) (3)	Average number of days which your she goats were milked (4)	Average price per litre per season (5)	
9.3.6	Rainy					
9.3.7	Dry					

Definitions and working page for page 13

Q 9.1 and 9.3 : What is required is to establish whether or not the household kept or raised the listed livestock during 2007/08 agricultural season (i.e. from October 2007 to September 2008). Also to establish the number of livestock as of 1st October 2008

Keeping or raising livestock is to to keep livestock at home while providing the livestock with animal feeds and medication and other services. The livestock could be owned by the farmer or kept on behalf of relatives or neighbours .

Sections 9.4 Sheep

Note:

Q 9.4 is for the actual number of sheep owned or kept by the household (as of 1st October 2008). This number does not include sheep kept on behalf by relatives or neighbours; that is, the sheep outside the residential area of the household under survey.

1. If the the household keep ewes, it is expected that such a household will have calves which will be entered in question 9.1.6 or 9.1.7

Type of Sheepe (Section 9.4.1 to 9.4.5)

Ram: Mature Uncastrated male sheept used for breeding

Castrated sheep: Male sheep that has been castrated

Ewe: Mature female sheep over 9 months of age

Lamb: Young sheep under 9 months of age.

Section 9.5 Pigs

Note:

Question 9.3 is for the actual number of pigs owned or raised by the household (as of 1st October 2008). This number does not include pigs kept on behalf by relatives or neighbours, that is the cattle outside the residential area of the household under survey. .

1. If the household has she goats, you would normally expect them to have kids in column

Type of Pigs (Qs 9.5.1 to 9.5.5)

Boar: Mature Uncastrated male pig used for breeing

Sow: Mature female pig that has given birth to at least one ltter of pigs .

Gilt; Female pig of over 3 months up to the first farrowing

Piglet: Young pig less than 3 months of age

Identification 				
9.4	SHEEP			
	Did your household keep or raise cattle during 2007/08 agriculture year? Yes=1, No=2 (If the answer is No proceed to Section 9.5) <input style="width: 30px;" type="text"/>			
	Number of sheep as of 1.10.2008			
Na.	Type of sheep	Number of indigenous sheep	Number of improved	Total
	(1)	(2)	(3)	(5)
9.4.1	Ram	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>
9.4.2	Castrated sheep	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>
9.4.3	She sheep	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>
9.4.4	Male lamb	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>
9.4.5	Female lamb	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>
Grand total				<input style="width: 30px;" type="text"/>
9.5	PIGS			
	Did your household keep or raise cattle during 2007/08 agriculture year? Yes=1, No=2 (If the answer is No proceed to Section 9.6) <input style="width: 30px;" type="text"/>			
	Number of pigsp as of 1.10.2008			
Na.	Type Pigs	Number of pigs		
	(1)	(2)		
9.5.1	Boar	<input style="width: 30px;" type="text"/>		
9.5.2	Castrated male	<input style="width: 30px;" type="text"/>		
9.5.3	Sow/Gilt	<input style="width: 30px;" type="text"/>		
9.5.4	Male piglet	<input style="width: 30px;" type="text"/>		
9.5.5	Female piglet	<input style="width: 30px;" type="text"/>		
Grand total				<input style="width: 30px;" type="text"/>
9.6	OTHER LIVESTOCK			
	Type of animal	Number as of 1 October 2008	Number of eggs 2007/08 agriculture year	
	(1)	(2)	(3)	
9.6.1	Local chicken	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	
9.6.2	Layers	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	
9.6.3	Broilers	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	
9.6.4	Ducks	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	
9.6.5	Guinea pigs	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	
	Type of animal	Number as of 1 October 2008	Number of Eggs 2007/08 agriculture year	
	1	(2)	(3)	
9.6.6	Turkeys	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	
9.6.7	Rabbit	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	
9.6.8	Donkeys	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	
9.6.9	Horses	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" type="text"/>	
9.6.10	Dogs	<input style="width: 30px;" type="text"/>	<input style="width: 30px;" 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			Identification
Did you livestock during 2007/08 agriculture year? (Yes=1, No=2) (If the answer is No proceed to Section 9.7.5)		<input type="checkbox"/>	<input type="checkbox"/>
9.7.1	Which animals did your deworm? (Yes=1, No =2, Not applicable=3 in the relevant box) Cattle <input type="checkbox"/> 9.7.2 Goat/Sheep <input type="checkbox"/> 9.7.3 Pigs <input type="checkbox"/> 9.7.4 Poultry <input type="checkbox"/>		<input type="checkbox"/>
9.7.5	Do you experience tick problem with your livestock? (Yes =1, No = 2, Not applicable 3)	<input type="checkbox"/>	<input type="checkbox"/>
9.7.6	How did you control tick problem? <u>Control method (Q. 9.7.6):</u> Dipping.....1 Spaying.....2 Application of medicine on back bone.....3 None..4 Other.....8	<input type="checkbox"/>	<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 (THAT IS THE HOUSEHOLD DOES NOT RAISE LIVESTOCK,) Proceed to q.9.9
9.7.8	How did you control Tse tse problem with your livestock? <u>Control method (Q. 9.7.8):</u> Dipping.....1 Spaying.....2 Traps.....3 None..4 Other.....8	<input type="checkbox"/>	
9.7.9	Do you experience Newcastle disease problem with your poultry? (Yes =1, No = 2, Not applicable 3)	<input type="checkbox"/>	
9.7.10	How do you control Newcastle disease problem with your poultry? <u>Control/curative methods (Q. 9.7.10)</u> Vaccination..1 Herbs....2 None..3	<input type="checkbox"/>	
9.7.11	Did you experience Fowl Typhoid with your poultry? Yes=1, No=2, Not applicable=3	<input type="checkbox"/>	
9.7.12	How did you control/ cure Fowl Typhoid with your poultry? <u>Control/curative methods (Q. 9.7.12)</u> Vaccination..1 Herbs....2 None..3	<input type="checkbox"/>	
9.7.13	Were your cattle vaccinated against the following diseases? (Yes = 1, No = 2, Not applicable=3). 9.7.13 A: Foot and Mouth diseases <input type="checkbox"/> 9.7.13B: Skin disease <input type="checkbox"/>		
9.8 Extension services on livestock			
Did you receive the following extension advice on the following? (IF THE ANSWER IS NO IN COL 2 PROCEED TO THE FOLLOWING QUESTION)			
No.	Livestock extension advice	Received Extension advice (Yes=1, No=2)	Source of Extension
	(1)	(2)	(3)
9.8.1	Feed and better feeding methods	<input type="checkbox"/>	<input type="checkbox"/>
9.8.2	Improved livestock shed (Goat, Dairy cattle, Poultry and pigs)	<input type="checkbox"/>	<input type="checkbox"/>
9.8.3	Milking and hygiene	<input type="checkbox"/>	<input type="checkbox"/>
9.8.4	Cattle fattening	<input type="checkbox"/>	<input type="checkbox"/>
9.8.5	Livestock diseases control	<input type="checkbox"/>	<input type="checkbox"/>
9.8.6	Livestock keeping in line with land availability	<input type="checkbox"/>	<input type="checkbox"/>
9.8.7	Pasture establishment and maintenance	<input type="checkbox"/>	<input type="checkbox"/>
9.8.8	Forming and strengthening groups/cooperatives	<input type="checkbox"/>	<input type="checkbox"/>
9.8.9	Calf rearing	<input type="checkbox"/>	<input type="checkbox"/>
9.8.10	Basics of production and use of improved bulls (AI)	<input type="checkbox"/>	<input type="checkbox"/>
9.8.11	Animals feed production	<input type="checkbox"/>	<input type="checkbox"/>
9.8.12	Other extension advice (Specify)	<input type="checkbox"/>	<input type="checkbox"/>
<u>Source of agriculture extension (S/wima 3)</u> Government.....1 NGO/Development project.....2 Cooperative Union.....3 Large Scale farmer.....4 Radio/TV/Newspapers.....5 Neighbour.....6 Other source8			

Definitions and working page for page 15

General definitions

Fish farming: Refers to the rearing/production of fish. It is different from fishing in that in fish farming the fish have to be reared. While in fishing, fishing nets or traps are used to catch fish from rivers, lakes and the sea; thus fishing should not be included in this section

I

Question Specific Definitions (Q 9.9)

Production unit number (Col 1): A production unit is a pond river/lake which is treated as a separate entity for the production of fish eg it may be by virtue of manageable size, maturity of fish, type of fish etc. eg. a farmer may have 3 fish ponds (each one is a separate production unit).

Frequency of stocking (Col . 5): What is the number of time the farmer puts new fingerlings into the pond each year.

Fingerlings: These are young immature fish used for stocking ponds.

Sols: (Col 10 & 11)

If no fish were sold enter "0" in column 10 and 11`

Fish sold (Col.12)

Kama hakuna samaki waliouzwa jaza "0" katika safuwima 12

Working space for page 15

9.9 FISH FARMING														Identification 			
Did your household practice fish farming? Yes=1, No=2 (If the answer is no proceed to section 9.10) 																	
Give details on the fish farming during 2007/08 agriculture year																	
No.	Number of Ponds	Aina ya ufugaji	Square area of pond (m ²)	Source of fingerings	What is the frequency of stocking during the period?	Kiwango cha Huduma ya bwawa	Total number of stoked fish				Total number of fish harvested	Total weight of all fish		What is the main fish outlet?			
							Tialpia	Mwatiko	Crabs	Lulu		waliouliwa (kg)	waliouzwa (kg)				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)			
9.9.1	1	 	 	 	 	 	 	 	 	 	 	 	 	 			
9.9.2	2	 	 	 	 	 	 	 	 	 	 	 	 	 			
9.9.3	3	 	 	 	 	 	 	 	 	 	 	 	 	 			

Type of farming (SCol 2)
 Natural pond.....1
 Small earth pond.....2
 Large pond.....3
 Other8

Standard of services to the pond (Col6)
 High leve1
 Intermediate level.....2
 Low leve.....3
 Don't know.....8

Source of fingerings (Col 4)
 From the pond.....1 Neighbour.....4
 Government.....2 Business man.....5
 NGO/Development Project...3 Natural Pond.....6
 Other8

mainly sold to? (Col 14)
 Neighbour...1 Auction.....3 Large Scale farmers.....5
 Open market....2 Fish processing industry..4 Private business people6
 Did not sell.....7 Other8

9.10 HONEY PRODUCTION								
Is there honey production/harvesting in your household? Yes=1, No=2 (If answer is no PROCEED to Section 9.11) 								
Give details on honery harvesting during 2007/08 agriculture year								
Number	Type of honey	Harvesting done ? (Yes=1, No=2)	Number of improved bee hives	Number of local bee hives	Amount sold per year (Litres)	Amount of honey sold (litre)	Price per litre	Main market)
9.10.1	Small bees	 	 	 	 	 	 	
9.10.2	Large bees	 	 	 	 	 	 	

Honey outlet Co 8
 Neighbour...1 Auction.....3
 Large Scale farmers.....5
 Open market....2 Fish processing industry..4
 Private business people6
 Did not sell.....7

9.11 AGRICULURAL CHALLENGES			
From the list of cahhalengs in farming on the right of the page, SELECT FIVE MAIN CHALLENGES WHICH constrain your development in agriculture			
No	With first five priorities	Code	
	(1)	(2)	
9.11.1	Priority 1	 	
9.11.2	Priority 2	 	
9.11.3	Priority 3	 	

No	Important for	Code
	(1)	(2)
9.11.4	Priority 4	
9.11.5	Prioty 5	

LIST OF CHALLENGES

→

01 Land availability
 02 Land ownership
 03 Poor farm implementso
 04 Soil fertility
 05 Availability of improved seeds
 06 Irrigation services
 07 Availability of agrochemicals
 08 Cists of farm inputs
 09 Extension services
 10 Availability of forest resources
 11 Huntinf and collection problems
 12 Water availability
 13 Access to credits
 pastoralists

14 Lack of off farm incomes
 15 Harvesting problems
 16 Kupukuchua
 17 Crop storage
 18 Crop processing
 19 Market information
 20 High transporation costs
 21 Destructive animals
 22 Crop theft
 23 Pests and diseases
 24 Advice from Local government
 25 Long dry spells
 26 Conflicts between livetsock keepera and

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																																					
10.1 HOUSE CONSTRUCTION Specify materials used in the construction of the following sehemu zifuatazo		10.2 Household property Does your household own the following?, (Yes=1 No=2)																																					
10.1.1 Roof <input type="checkbox"/> 10.1.2 Floor <input type="checkbox"/> 10.1.3 Wall <input type="checkbox"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Number</th> <th style="width: 60%;">Property</th> <th style="width: 25%;">Yes=1, No=2</th> </tr> <tr> <th></th> <th>(1)</th> <th>(2)</th> </tr> </thead> <tbody> <tr> <td>10.2.1</td> <td>Radio (Radio, Radio Casette, music system)</td> <td><input type="checkbox"/></td> </tr> <tr> <td>10.2.2</td> <td>Land line</td> <td><input type="checkbox"/></td> </tr> <tr> <td>10.2.3</td> <td>Cell phone</td> <td><input type="checkbox"/></td> </tr> <tr> <td>10.2.4</td> <td>Iron</td> <td><input type="checkbox"/></td> </tr> <tr> <td>10.2.5</td> <td>Trolley</td> <td><input type="checkbox"/></td> </tr> <tr> <td>10.2.6</td> <td>Bicycle</td> <td><input type="checkbox"/></td> </tr> <tr> <td>10.2.7</td> <td>Vehicle</td> <td><input type="checkbox"/></td> </tr> <tr> <td>10.2.8</td> <td>TV/ Video</td> <td><input type="checkbox"/></td> </tr> <tr> <td>10.2.9</td> <td>Refrigerator</td> <td><input type="checkbox"/></td> </tr> <tr> <td>10.2.10</td> <td>Motorbike/vespa</td> <td><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	Cell phone	<input type="checkbox"/>	10.2.4	Iron	<input type="checkbox"/>	10.2.5	Trolley	<input type="checkbox"/>	10.2.6	Bicycle	<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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10.2.10	Motorbike/vespa	<input type="checkbox"/>																																					
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> Roofing materials Iron sheets.....1 Tiles.....2 Concrete.....3 Asbestos4 Grass/Makuti.....5 Grass and mud.....6 Other8 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> Floor materials Earthen material.....1 Wood.....2 Wooden tiles.....3 Tiles.....4 Cement.....5 Other.....8 </div> <div style="border: 1px solid black; padding: 5px;"> Main materials Grass and pieces of woods.....1 Mud.....2 Wet bricks.....3 Burnt bricks.....4 Wood.....5 Block bricks.....6 Stoness7 Bricks /Mawe ya kichanga.....8 </div>																																							
10.1.4 Number of bedrooms <input type="text"/> <input type="text"/>																																							
10.3 Energy use and availability in the household		10.4 Availability of drinking water																																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">Main source of energy</th> </tr> </thead> <tbody> <tr> <td style="width: 50%;">10.3.1 Lighting <input type="checkbox"/> <input type="checkbox"/></td> <td style="width: 50%;">10.3.2 Cooking <input type="checkbox"/> <input type="checkbox"/></td> </tr> </tbody> </table> <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> Nishati za Kuangazi Umeme.....01 Sola.....02 Gesi (biogas).....03 Taa ya kandili.....04 Karabai.....05 Kibatari.....06 Mishumaa.....07 kuni.....08 Nyingine98 </div> <div style="width: 48%;"> Nishati za kupikia Umeme.....01 Sola.....02 Gesi (biogas).....03 Gesi (Kiwandani).....04 Mafuta ya taa.....05 Mkaa.....06 Kuni.....07 Mabaki ya Mazao.....08 Kinyesi cha Wanyama.....09 Nyingine98 </div> </div>		Main source of energy		10.3.1 Lighting <input type="checkbox"/> <input type="checkbox"/>	10.3.2 Cooking <input type="checkbox"/> <input type="checkbox"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">Season</th> <th style="width: 20%;">Main source of water</th> <th style="width: 20%;">Distance from source (km)</th> <th style="width: 40%;">Time spent waiting or going to and from the source (Hours)</th> </tr> <tr> <th>(1)</th> <th>(2)</th> <th>(3)</th> <th>(4)</th> </tr> </thead> <tbody> <tr> <td>10.4.1 Rainy</td> <td><input type="checkbox"/> <input type="checkbox"/></td> <td><input type="checkbox"/> <input type="checkbox"/></td> <td><input type="checkbox"/> <input type="checkbox"/></td> </tr> <tr> <td>10.4.2 Dry period</td> <td><input type="checkbox"/> <input type="checkbox"/></td> <td><input type="checkbox"/> <input type="checkbox"/></td> <td><input type="checkbox"/> <input type="checkbox"/></td> </tr> </tbody> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> Main source of drinking water Col. 2 Tape water.....01 Water vendors.....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 </div>		Season	Main source of water	Distance from source (km)	Time spent waiting or going to and from the source (Hours)	(1)	(2)	(3)	(4)	10.4.1 Rainy	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	10.4.2 Dry period	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>																
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Note: Code 01, Bomba kwa Zanzibar hujulikana kama Mfereji																																							
10.5 Toilet facilities 10.5.1 What type of toilet does your household use? <input type="checkbox"/>		10.6 Eating patterns																																					
<div style="border: 1px solid black; padding: 5px;"> Type of toilet No toilet/in the bush.....1 Pit latrine.....4 Flush toilet.....2 Other type (Specify).....8 Ordinal pit latrine.....3 </div>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 80%;">10.6.1 How many meals does your household usually get per day ?</td> <td style="width: 20%;"><input type="checkbox"/></td> </tr> <tr> <td>10.6.2 How many days did the household eat meat last week?</td> <td><input type="checkbox"/></td> </tr> <tr> <td>10.6.3 How many days did the household eat fish last week?</td> <td><input type="checkbox"/></td> </tr> <tr> <td>10.6.4 How many times did the household experience food shortages last year?</td> <td><input type="checkbox"/></td> </tr> </tbody> </table>		10.6.1 How many meals does your household usually get per day ?	<input type="checkbox"/>	10.6.2 How many days did the household eat meat last week?	<input type="checkbox"/>	10.6.3 How many days did the household eat fish last week?	<input type="checkbox"/>	10.6.4 How many times did the household experience food shortages last year?	<input type="checkbox"/>																												
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10.7 Main source of household cash income? 10.7.1 What are the sources of household income? <input type="checkbox"/> <input type="checkbox"/>		<div style="border: 1px solid black; padding: 5px;"> Food shortage problems (Swali 10.6.4) Never1 Few times.....2 Sometimes.....3 Many times.....4 Often.....5 </div>																																					
<div style="border: 1px solid black; padding: 5px;"> Code for source of income Selling food crops.....01 Sales of forest products.....05 Cash assistance.....09 Sales of livestock.....02 Business.....06 Fishing.....10 Sales of livestock products.....03 Salaries.....07 Other.....98 Sales of cash crops.....04 Casual labour.....08 None.....99 </div>																																							
TIME OF FINISHING THE INTERVIEW		Hour <input type="text"/> <input type="text"/>	Minutes <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 Finger 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
18 Cassava	3,000	7,000	1,215	2,834	93 Cucumber	5,000	10,000	2,024	4,049
19 Sweet potatoes	600	8,000	243	3,239	94 Egg plant	30,000	60,000	12,146	24,291
20 Irish potatoes	750	8,500	304	3,441	95 Water melon	10,000	20,000	4,049	8,097
21 Yams	4,000	10,000	466	1,822	96 Cauliflower	17,000	20,000	8,097	16,194
22 Coco yams	2,500	5,000	567	729	52 Cotton	800	25,000	14,170	16,194
23 Onions	30,000	50,000	1,215	2,834	54 Coffee	500	100	2,024	4,049
24 Ginger	20,000	30,000	243	3,239	55 Tea	2,500	10,000	12,146	24,291
31 Mahara Beans	400	1,300	304	3,441	56 Cocoa	150	1,000	4,049	8,097
32 Cow peas	300	1,750	121	709	57 Rubber	400	1,400	6,883	8,097
33 Green gram	1,500	1,800	1,012	2,024	58 Wattle			324	10,121
34 Pigeon peas	600	1,500	243	607	59 Kapok			0	0
35 Chick peas	500	1,500	202	607	60 Sugar cane	60,000	150,000	24,291	60,729
36 Bambara nuts	600	4,000	243	1,619	61 Cardamon	3,000		1,215	0
41 Sun flower	600	1,700	243	688	71 Banana	10,000	50,000	4,049	20,243
42 Simsim	300	1,000	121	405	72 Avocado			0	0
43 Gound nuts	600	4,000	243	1,619	73 Mango	10,000	25,000	4,049	10,121
47 Soyabeans	1,300	2,500	526	1,012	74 Pawpaw	50,000	70,000	20,243	28,340
48 Caster seeds	300	750	121	304	76 Orrage	15,000	40,000	6,073	16,194
75 Pineapple	25,000	60,000	10,121	24,291	77 Grape fruit	30,000	50,000	12,146	20,243
50 Cotton	300	1,500	121	607	78 Grapes	5,000	30,000	2,024	12,146
51 Tobacco	500	1,500	202	607	79 Mandarin	15,000	40,000	6,073	16,194
53 Pyrethrum			0	0	80 Quava	7,000	35,000	2,834	14,170
62 Jute	800	3,500	324	1,417	81 Plums			0	0
44 Palm oil	1,150	5,000	466	2,024	82 Tufaha		20,000	0	8,097
45 Cononut	1,500	8,000	607	3,239	83 Pea	15,000	27,000	6,073	10,931
46 Cashw nut	9	60/tree	4	24	84 Pitches	14,000	57,000	5,668	23,077
					66 Clove	4,500	5,000	1,772	1,969
					Black pepper	2,000	3,750		
					Mung'unye				
					Ocra	1,000	1,500		

Appendix V

Community Level Questionnaire

United Republic of Tanzania

ACQ 3

CONFIDENTIAL



Village/Community Level Formats

Access to and Use of Community Resources

Farming Gate Prices of commodities produced by the village

Agricultural Sample Census
2007/2008NUMBER OF
FARMERS HH IN THE
VILLAGETo be filled by the enumerator
after completing form ACLF2NUMBER OF HH
MEMBERSTo be filled by the enumerator
after completing form ACLF2

Region				Ward			
District				Village			

Enumerator Name _____ Signature _____

Date of Enumeration

d	d	/	m	m	/	y	y	y	y
---	---	---	---	---	---	---	---	---	---

Start Time

End Time

Hour	Minutes

Field level checking by:

District Supervisor	Name _____	Signature _____	Date ____/____/____
Regional Supervisor	Name _____	Signature _____	Date ____/____/____
National Supervisor	Name _____	Signature _____	Date ____/____/____

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 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 officiall demarcated by the village as shared/public land.

Squatting farmers Land: Communal land where individual hhs make sole claim to (for crop farming or fenced livestock) without official rights to ownership.

Available remaining Land: Official area of communal land minus areas of squatting 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 deveoopment assistance to the farmer and is free from direct government links.

Village level organization: is managed by members of the village. Its purpose is normally to access/provide development assistance to the village

ACCESS TO COMMUNAL RESOURCES

1 ACCESS TO COMMUNITY RESOURCES									
1.1 Does the village set aside an area for communal resources e.g. forest, grazing, etc. (Yes =1 No =2)									<input type="checkbox"/>
(If the answer is no proceed to 1.2)									
Are of Community, Village, Ward resources				Area in acre					
1.1.1	Total area of communal land				<input type="text"/>				Official figures from the leader
1.1.2	Area of squatting farmers in communal land				<input type="text"/>				Key informant (Leader/Extension officer etc.)
1.1.3	Remaining available communal land				<input type="text"/>				Key informant (Leader/Extension officer etc.)
1.1.4	Government reserve land				<input type="text"/>				Key informant (Leader/Extension officer etc.)
1.2 UPATIKANAJI NA MATUMIZI YA MALIASILI ZA JUMUIYA/KIJIJI/SHEHIA									
Community Resources		Distance from the resource in Km -season			Main Use		Instructions on distance from the resource (Cols 2 and 3): Distance is estimated from the centre of the village. If under 1 km 1, enter 0 If above 1 km 1, enter whole number, eg. 1.5km= 2km, 1.25km= 1km Main uses (Col. 4) Home or farm /livestock consumption...1 Sold to traders in the village.....2 Sold to the village market.....3 Sold to local wholesalers.....4 Sold to Big wholesalers.....5 Not available.....6		
		Dry (12)			Rainy (13)				
1.2.1	Water for human consumption		<input type="text"/>		<input type="text"/>		<input type="text"/>		
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"/>
(If the answer is no proceed to Section 3.0)									
Details of the community tree planting scheme									
No.	Distance from the community forest	Forest Area (acre)	Type of Planting	Type of Trees	Source of seeds / Seedlings	Number of Years since the start of planting	Main uses 2007/08 agriculture year	Main uses of communal forest products	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
2.2	<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 planting (Col. 3): Plantation 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).....5		Main use of revenue (Col. 8): Village development fund.....1 Household use.....2 Household income.....3		
3.0 Non governmental Organisation (NGOs) Contact									
3.1 Did any NGO visit the village during 2007/08 agriculture year? (Yes=1, No=2) (If no proceed to Section 4)									<input type="checkbox"/>
Na.	Type of NGO	Visited Y=1, N=2	Number of visits	Distance to the Office (km)					
3.2	Extension/ Research	<input type="text"/>	<input type="text"/>	<input type="text"/>					
3.3	Service /Input provision	<input type="text"/>	<input type="text"/>	<input type="text"/>					
3.4	Community Development	<input type="text"/>	<input type="text"/>	<input type="text"/>					
3.5	Other	<input type="text"/>	<input type="text"/>	<input type="text"/>					
4.0 Community Based Organisation									
4.1 Did the village have any CBO during the 2007/08 agriculture year? (Yes=1, No=2)									<input type="checkbox"/>
Na.	Type of CBO	No=1, Hap=2							
4.2	Extension/ Research	<input type="text"/>							
4.3	Service /Input provision	<input type="text"/>							
4.4	Community Development	<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"/>
5.4 Number of local ironsmiths									<input type="text"/>
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"/>
5.6 Number of training centres for draft animals									<input type="text"/>

Procedure: Administer this from after completing all smallholder questionnaires for the village.

1. Copy the name of all crops from Sections 5.1, 5.2 and 5.3 grown in the village from smallholder questionnaires. This should also include livestock raised by the household from questions 9.1, 9.3, 9.4 and 9.5 and enter them in col na 1 of this form. Also see codes for livestock below.
2. Enter price estimates per kg in col 5 and 6.

■

Appendix V

Village Community Level formats

UNITED REPUBLIC OF TANZANIA				CONFIDENTIAL	
ACLF 1 Sub-village /ward leader listing from		 Agriculture Sample Census 2007/08		<div style="text-align: right;">Page Number out of</div>	
Region _____ Code 		Ward _____ Code 			
District _____ Code 		Village _____ Code 			
Sub village leader Number	Name of Ward village leader	_____ Number of Households Form Office Register After enumeration		Comments	
(1)	(2)	(3)	(4)	(5)	
<div style="border: 1px solid black; width: 20px; height: 15px;"></div>		<div style="border: 1px solid black; width: 20px; height: 15px;"></div>	<div style="border: 1px solid black; width: 20px; height: 15px;"></div>		
<div style="border: 1px solid black; width: 20px; height: 15px;"></div>		<div style="border: 1px solid black; width: 20px; height: 15px;"></div>	<div style="border: 1px solid black; width: 20px; height: 15px;"></div>		
<div style="border: 1px solid black; width: 20px; height: 15px;"></div>		<div style="border: 1px solid black; width: 20px; height: 15px;"></div>	<div style="border: 1px solid black; width: 20px; height: 15px;"></div>		
<div style="border: 1px solid black; width: 20px; height: 15px;"></div>		<div style="border: 1px solid black; width: 20px; height: 15px;"></div>	<div style="border: 1px solid black; width: 20px; height: 15px;"></div>		

UNITED REPUBLIC OF TANZANIA				CONFIDENTIAL										
ACLF 2 Household listing from-for listing hh heads and agriculture activities		 Agriculture Sample Census 2007/08		<div style="text-align: right;">Page Number out of</div>										
Region _____ Code 		Name of sub village leader _____ 												
District _____ Code 		Name of sub village _____ 												
Ward _____ Code 														
Village _____ Code 														
Household number	Household head name	Number of								If the Respondent Qualifies X	Farmer Serial Number			
		Fields a	Cattle				Goats	Sheep	Pigs	Kuku/Bata/	Rabbit			
			Total	Bulls	Cows	Calves								
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	
<div style="border: 1px solid black; width: 20px; height: 15px;"></div>														
<div style="border: 1px solid black; width: 20px; height: 15px;"></div>														
<div style="border: 1px solid black; width: 20px; height: 15px;"></div>														
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Morogoro Region Agriculture Sample Census – 2007/08